



wwPDB X-ray Structure Validation Summary Report ⓘ

Sep 10, 2026 – 02:21 am BST

PDB ID : 6FOS / pdb_00006fos
Title : Cyanidioschyzon merolae photosystem I
Authors : Nelson, N.; Hippler, M.; Antoshvili, M.; Caspy, I.
Deposited on : 2018-02-08
Resolution : 4.00 Å(reported)

This is a wwPDB X-ray Structure Validation Summary Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	1.8.4, CSD as541be (2020)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.015 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.50

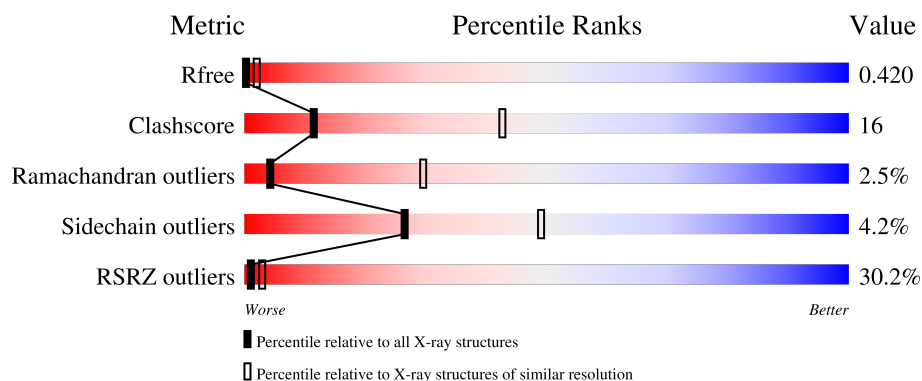
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 4.00 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1082 (4.20-3.80)
Clashscore	190562	1129 (4.20-3.80)
Ramachandran outliers	187476	1064 (4.20-3.80)
Sidechain outliers	187428	1055 (4.20-3.80)
RSRZ outliers	180081	1082 (4.20-3.80)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	2	222	23% 45% 19% 35%
1	3	222	20% 32% 28% 7% 32%
2	4	214	19% 36% 14% 46%
3	A	740	26% 64% 35%
4	B	725	34% 66% 33%

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Mol	Chain	Length	Quality of chain
5	C	80	
6	D	124	
7	E	69	
8	F	155	
9	I	32	
10	J	38	
11	K	47	
12	L	140	
13	M	29	
14	O	98	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
17	SF4	C	3002	-	-	X	-

2 Entry composition [i](#)

There are 18 unique types of molecules in this entry. The entry contains 25611 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Similar to chlorophyll a/b-binding protein, CP24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	2	144	Total	C	N	O	S	0	0	0
			1116	726	193	192	5			
1	3	150	Total	C	N	O	S	0	0	0
			1181	769	200	206	6			

- Molecule 2 is a protein called Similar to light harvesting protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	4	116	Total	C	N	O	S	0	0	0
			935	618	157	153	7			

- Molecule 3 is a protein called Photosystem I P700 chlorophyll a apoprotein A1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	A	740	Total	C	N	O	S	0	0	0
			5790	3787	994	982	27			

- Molecule 4 is a protein called Photosystem I P700 chlorophyll a apoprotein A2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	B	725	Total	C	N	O	S	0	0	1
			5766	3791	974	982	19			

- Molecule 5 is a protein called Photosystem I iron-sulfur center.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	C	80	Total	C	N	O	S	0	0	0
			597	367	104	114	12			

- Molecule 6 is a protein called Photosystem I p700 chlorophyll A apoprotein A2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	D	124	Total	C	N	O	S	0	0	0
			976	618	171	182	5			

- Molecule 7 is a protein called Photosystem I iron-sulfur center subunit VII.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	E	69	Total	C	N	O	S	0	0	0
			555	360	88	106	1			

- Molecule 8 is a protein called Photosystem I reaction center subunit II.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	F	153	Total	C	N	O	S	0	0	0
			1256	806	213	233	4			

- Molecule 9 is a protein called Photosystem I reaction center subunit VIII.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	I	32	Total	C	N	O	S	0	0	0
			238	163	33	40	2			

- Molecule 10 is a protein called Photosystem I reaction center subunit IX.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	J	38	Total	C	N	O	S	0	0	0
			312	214	46	51	1			

- Molecule 11 is a protein called Photosystem I reaction center subunit X.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	K	47	Total	C	N	O	S	0	0	0
			331	211	58	58	4			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
K	14	MET	-	initiating methionine	UNP Q85G51

- Molecule 12 is a protein called Photosystem I reaction center subunit XI.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	L	140	Total	C	N	O	S	0	0	0
			1071	703	174	191	3			

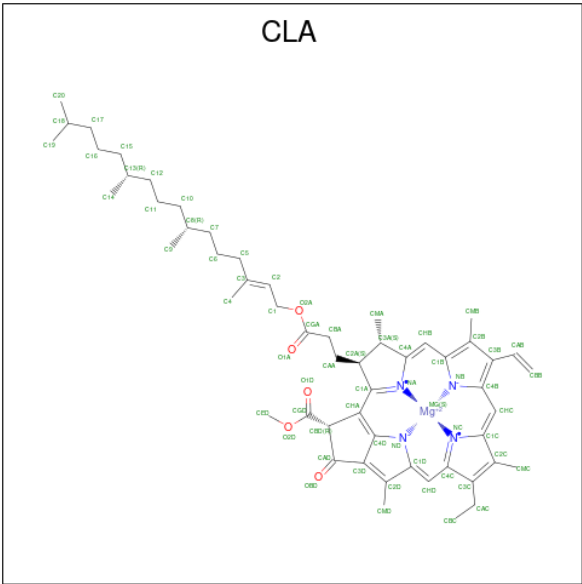
- Molecule 13 is a protein called Photosystem I reaction center subunit XII.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	M	29	Total	C	N	O	S	0	0	0
			214	142	34	36	2			

- Molecule 14 is a protein called PsaM.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	O	98	Total	C	N	O	S	0	0	0
			755	509	116	129	1			

- Molecule 15 is CHLOROPHYLL A (CCD ID: CLA) (formula: C₅₅H₇₂MgN₄O₅).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
15	2	1	Total	C	Mg	N	0	0
			25	20	1	4		
15	2	1	Total	C	Mg	N	0	0
			25	20	1	4		
15	2	1	Total	C	Mg	N	0	0
			25	20	1	4		
15	2	1	Total	C	Mg	N	0	0
			25	20	1	4		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
15	2	1	Total 25	C 20	Mg 1	N 4	0	0
15	2	1	Total 25	C 20	Mg 1	N 4	0	0
15	2	1	Total 25	C 20	Mg 1	N 4	0	0
15	2	1	Total 25	C 20	Mg 1	N 4	0	0
15	2	1	Total 25	C 20	Mg 1	N 4	0	0
15	2	1	Total 25	C 20	Mg 1	N 4	0	0
15	2	1	Total 25	C 20	Mg 1	N 4	0	0
15	2	1	Total 25	C 20	Mg 1	N 4	0	0
15	2	1	Total 25	C 20	Mg 1	N 4	0	0
15	2	1	Total 25	C 20	Mg 1	N 4	0	0
15	2	1	Total 25	C 20	Mg 1	N 4	0	0
15	3	1	Total 25	C 20	Mg 1	N 4	0	0
15	3	1	Total 25	C 20	Mg 1	N 4	0	0
15	3	1	Total 25	C 20	Mg 1	N 4	0	0
15	3	1	Total 25	C 20	Mg 1	N 4	0	0
15	3	1	Total 25	C 20	Mg 1	N 4	0	0
15	3	1	Total 25	C 20	Mg 1	N 4	0	0
15	3	1	Total 25	C 20	Mg 1	N 4	0	0
15	3	1	Total 25	C 20	Mg 1	N 4	0	0
15	3	1	Total 25	C 20	Mg 1	N 4	0	0

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
15	3	1	Total 25	C 20	Mg 1	N 4	0	0
15	4	1	Total 25	C 20	Mg 1	N 4	0	0
15	4	1	Total 25	C 20	Mg 1	N 4	0	0
15	4	1	Total 25	C 20	Mg 1	N 4	0	0
15	4	1	Total 25	C 20	Mg 1	N 4	0	0
15	4	1	Total 25	C 20	Mg 1	N 4	0	0
15	4	1	Total 25	C 20	Mg 1	N 4	0	0
15	4	1	Total 25	C 20	Mg 1	N 4	0	0
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15	4	1	Total 25	C 20	Mg 1	N 4	0	0
15	4	1	Total 25	C 20	Mg 1	N 4	0	0
15	4	1	Total 25	C 20	Mg 1	N 4	0	0
15	4	1	Total 25	C 20	Mg 1	N 4	0	0
15	A	1	Total 50	C 40	Mg 1	N 4 O 5	0	0
15	A	1	Total 55	C 45	Mg 1	N 4 O 5	0	0
15	A	1	Total 55	C 45	Mg 1	N 4 O 5	0	0
15	A	1	Total 45	C 35	Mg 1	N 4 O 5	0	0
15	A	1	Total 25	C 20	Mg 1	N 4	0	0
15	A	1	Total 55	C 45	Mg 1	N 4 O 5	0	0
15	A	1	Total 55	C 45	Mg 1	N 4 O 5	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
15	A	1	Total	C	Mg	N	O	0	0
			55	45	1	4	5		
15	A	1	Total	C	Mg	N	O	0	0
			55	45	1	4	5		
15	A	1	Total	C	Mg	N	O	0	0
			55	45	1	4	5		
15	A	1	Total	C	Mg	N		0	0
			25	20	1	4			
15	A	1	Total	C	Mg	N		0	0
			25	20	1	4			
15	A	1	Total	C	Mg	N		0	0
			25	20	1	4			
15	A	1	Total	C	Mg	N		0	0
			25	20	1	4			
15	A	1	Total	C	Mg	N		0	0
			25	20	1	4			
15	A	1	Total	C	Mg	N	O	0	0
			46	36	1	4	5		
15	A	1	Total	C	Mg	N	O	0	0
			55	45	1	4	5		
15	A	1	Total	C	Mg	N	O	0	0
			55	45	1	4	5		
15	A	1	Total	C	Mg	N	O	0	0
			55	45	1	4	5		
15	A	1	Total	C	Mg	N		0	0
			25	20	1	4			
15	A	1	Total	C	Mg	N		0	0
			25	20	1	4			
15	A	1	Total	C	Mg	N		0	0
			25	20	1	4			
15	A	1	Total	C	Mg	N		0	0
			25	20	1	4			
15	A	1	Total	C	Mg	N		0	0
			25	20	1	4			
15	A	1	Total	C	Mg	N		0	0
			25	20	1	4			
15	A	1	Total	C	Mg	N		0	0
			25	20	1	4			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
15	A	1	Total 55	C 45	Mg 1	N 4	O 5	0	0
15	A	1	Total 25	C 20	Mg 1	N 4		0	0
15	A	1	Total 25	C 20	Mg 1	N 4		0	0
15	A	1	Total 25	C 20	Mg 1	N 4		0	0
15	A	1	Total 55	C 45	Mg 1	N 4	O 5	0	0
15	A	1	Total 45	C 35	Mg 1	N 4	O 5	0	0
15	A	1	Total 25	C 20	Mg 1	N 4		0	0
15	A	1	Total 25	C 20	Mg 1	N 4		0	0
15	A	1	Total 25	C 20	Mg 1	N 4		0	0
15	A	1	Total 25	C 20	Mg 1	N 4		0	0
15	A	1	Total 25	C 20	Mg 1	N 4		0	0
15	A	1	Total 25	C 20	Mg 1	N 4		0	0
15	A	1	Total 25	C 20	Mg 1	N 4		0	0
15	A	1	Total 25	C 20	Mg 1	N 4		0	0
15	A	1	Total 25	C 20	Mg 1	N 4		0	0
15	A	1	Total 25	C 20	Mg 1	N 4		0	0
15	A	1	Total 25	C 20	Mg 1	N 4		0	0
15	B	1	Total 45	C 35	Mg 1	N 4	O 5	0	0
15	B	1	Total 25	C 20	Mg 1	N 4		0	0
15	B	1	Total 50	C 40	Mg 1	N 4	O 5	0	0
15	B	1	Total 25	C 20	Mg 1	N 4		0	0
15	B	1	Total 25	C 20	Mg 1	N 4		0	0

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
15	B	1	Total 25	C 20	Mg 1	N 4	0	0
15	B	1	Total 25	C 20	Mg 1	N 4	0	0
15	B	1	Total 25	C 20	Mg 1	N 4	0	0
15	B	1	Total 25	C 20	Mg 1	N 4	0	0
15	B	1	Total 25	C 20	Mg 1	N 4	0	0
15	B	1	Total 25	C 20	Mg 1	N 4	0	0
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15	B	1	Total 25	C 20	Mg 1	N 4	0	0
15	B	1	Total 25	C 20	Mg 1	N 4	0	0
15	B	1	Total 25	C 20	Mg 1	N 4	0	0
15	B	1	Total 25	C 20	Mg 1	N 4	0	0
15	B	1	Total 25	C 20	Mg 1	N 4	0	0
15	B	1	Total 25	C 20	Mg 1	N 4	0	0
15	B	1	Total 25	C 20	Mg 1	N 4	0	0
15	B	1	Total 25	C 20	Mg 1	N 4	0	0
15	B	1	Total 25	C 20	Mg 1	N 4	0	0
15	B	1	Total 25	C 20	Mg 1	N 4	0	0
15	B	1	Total 25	C 20	Mg 1	N 4	0	0
15	B	1	Total 25	C 20	Mg 1	N 4	0	0
15	B	1	Total 25	C 20	Mg 1	N 4	0	0
15	B	1	Total 25	C 20	Mg 1	N 4	0	0
15	B	1	Total 55	C 45	Mg 1	N 4 O 5	0	0

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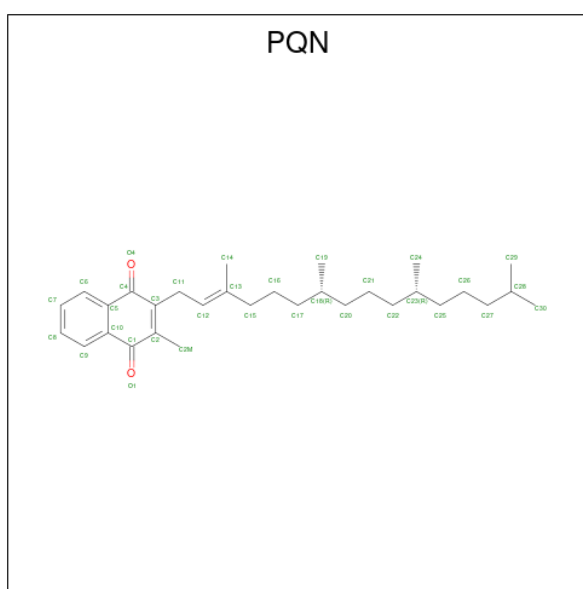
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
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			50	40	1	4	5		
15	B	1	Total	C	Mg	N	O	0	0
			55	45	1	4	5		
15	B	1	Total	C	Mg	N		0	0
			25	20	1	4			
15	B	1	Total	C	Mg	N		0	0
			25	20	1	4			
15	B	1	Total	C	Mg	N	O	0	0
			50	40	1	4	5		
15	B	1	Total	C	Mg	N	O	0	0
			47	37	1	4	5		
15	B	1	Total	C	Mg	N		0	0
			25	20	1	4			
15	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
15	B	1	Total	C	Mg	N		0	0
			25	20	1	4			
15	B	1	Total	C	Mg	N		0	0
			25	20	1	4			
15	B	1	Total	C	Mg	N	O	0	0
			45	35	1	4	5		
15	B	1	Total	C	Mg	N	O	0	0
			55	45	1	4	5		
15	B	1	Total	C	Mg	N		0	0
			25	20	1	4			
15	B	1	Total	C	Mg	N		0	0
			25	20	1	4			
15	F	1	Total	C	Mg	N	O	0	0
			45	35	1	4	5		
15	F	1	Total	C	Mg	N		0	0
			25	20	1	4			
15	J	1	Total	C	Mg	N	O	0	0
			50	40	1	4	5		
15	K	1	Total	C	Mg	N		0	0
			25	20	1	4			
15	K	1	Total	C	Mg	N		0	0
			25	20	1	4			
15	L	1	Total	C	Mg	N		0	0
			25	20	1	4			
15	L	1	Total	C	Mg	N		0	0
			25	20	1	4			

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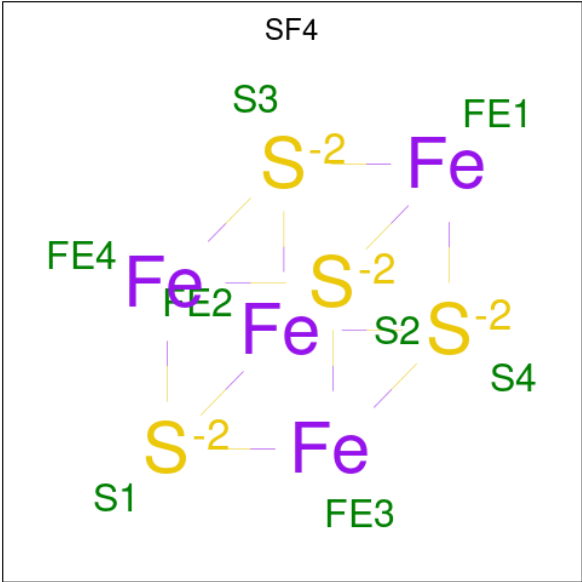
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
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			25	20	1	4		
15	O	1	Total	C	Mg	N	0	0
			25	20	1	4		
15	O	1	Total	C	Mg	N	0	0
			25	20	1	4		
15	O	1	Total	C	Mg	N	0	0
			25	20	1	4		

- Molecule 16 is PHYLLOQUINONE (CCD ID: PQN) (formula: $C_{31}H_{46}O_2$).



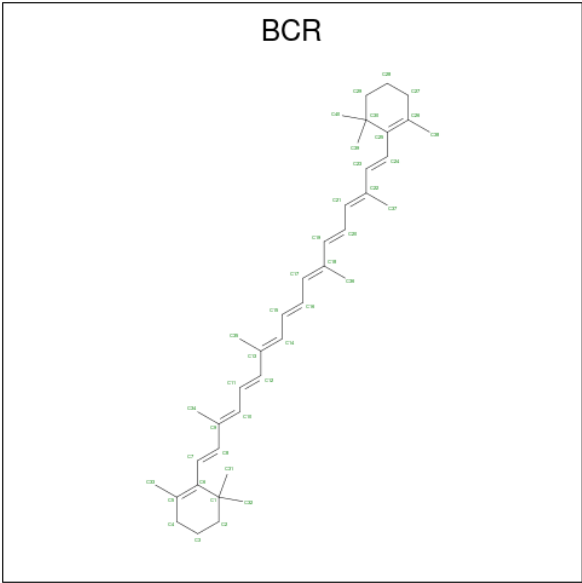
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
16	A	1	Total	C	O	0	0
			33	31	2		
16	B	1	Total	C	O	0	0
			33	31	2		

- Molecule 17 is IRON/SULFUR CLUSTER (CCD ID: SF4) (formula: Fe_4S_4).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
17	A	1	Total	Fe	S	0	0
			8	4	4		
17	C	1	Total	Fe	S	0	0
			8	4	4		
17	C	1	Total	Fe	S	0	0
			8	4	4		

- Molecule 18 is BETA-CAROTENE (CCD ID: BCR) (formula: C₄₀H₅₆).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
18	A	1	Total	C	0	0
			40	40		

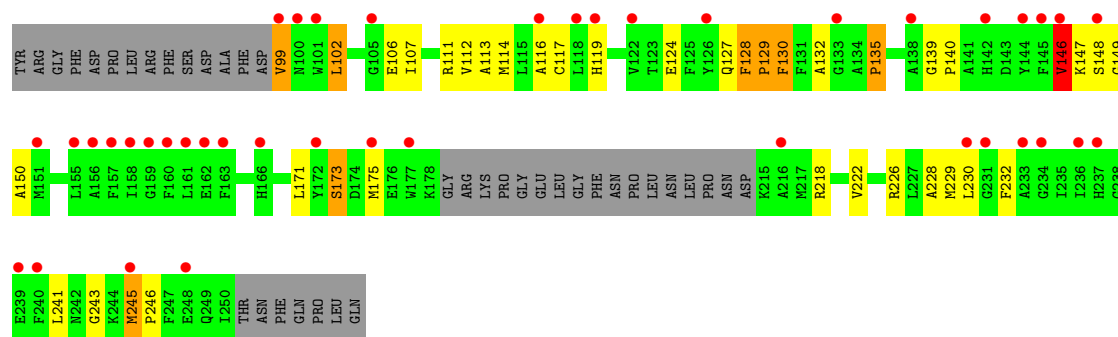
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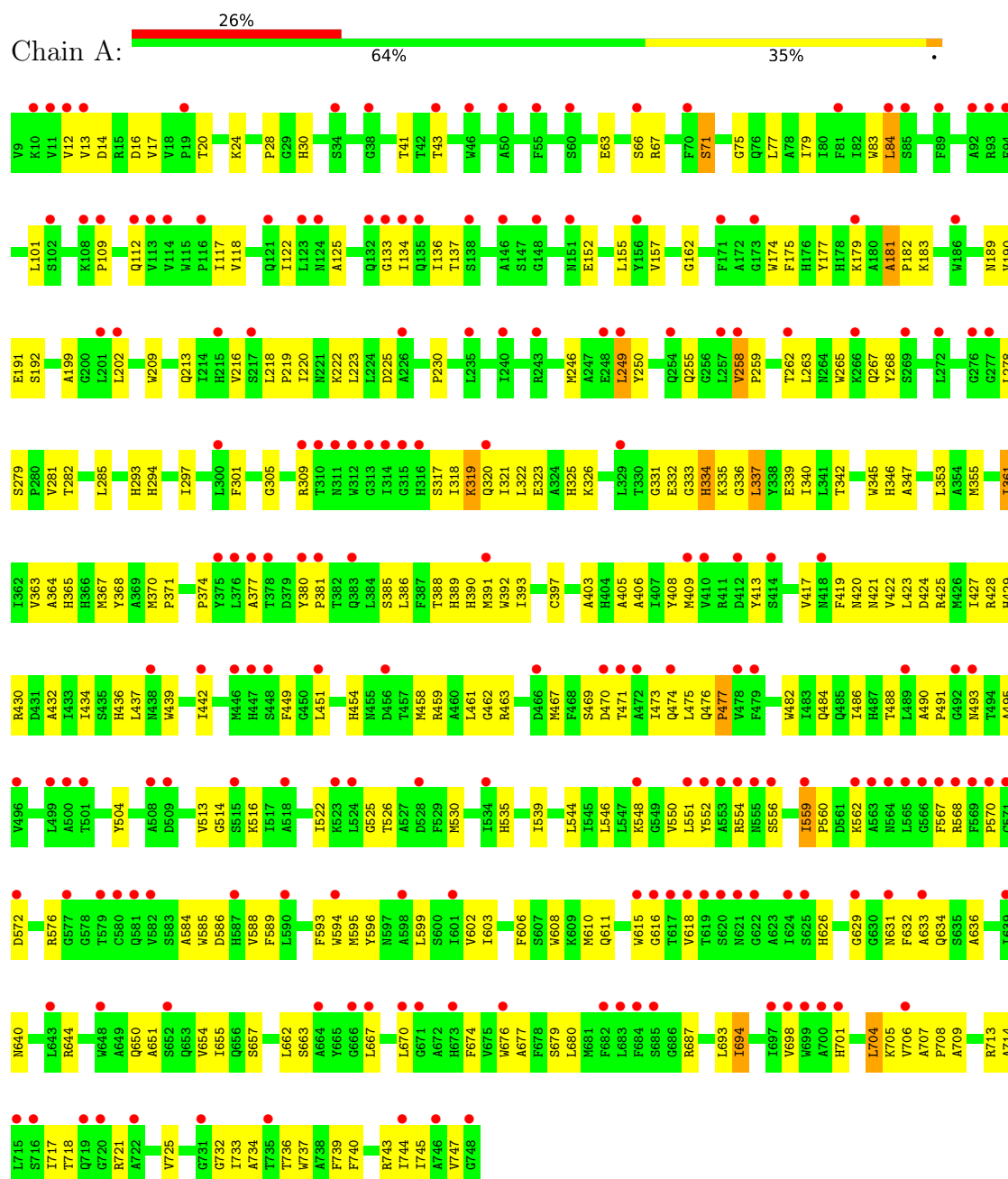
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
18	A	1	Total C 40 40	0	0
18	A	1	Total C 40 40	0	0
18	A	1	Total C 40 40	0	0
18	A	1	Total C 40 40	0	0
18	B	1	Total C 40 40	0	0
18	B	1	Total C 40 40	0	0
18	I	1	Total C 40 40	0	0

- Molecule 1: Similar to chlorophyll a/b-binding protein, CP24

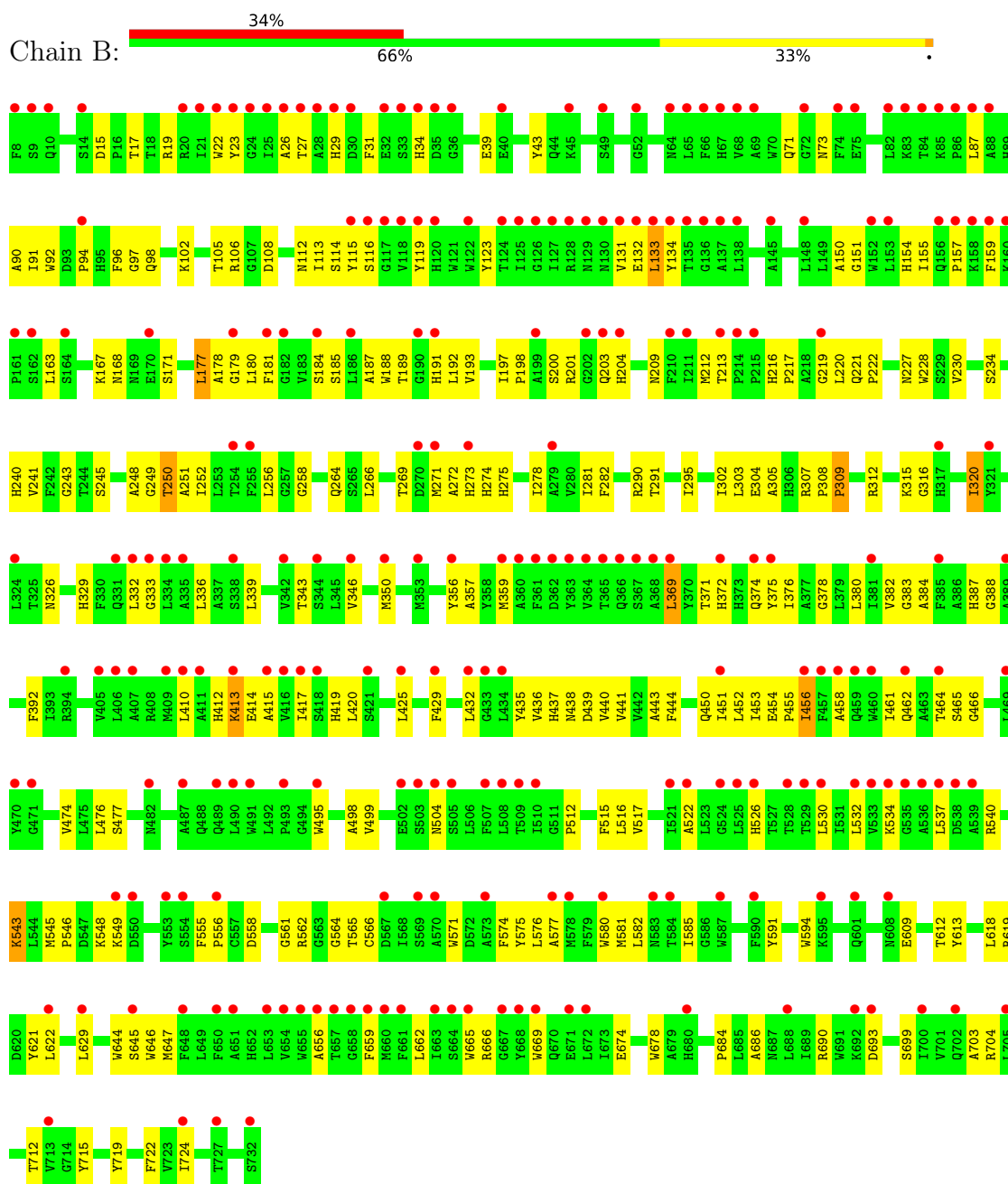


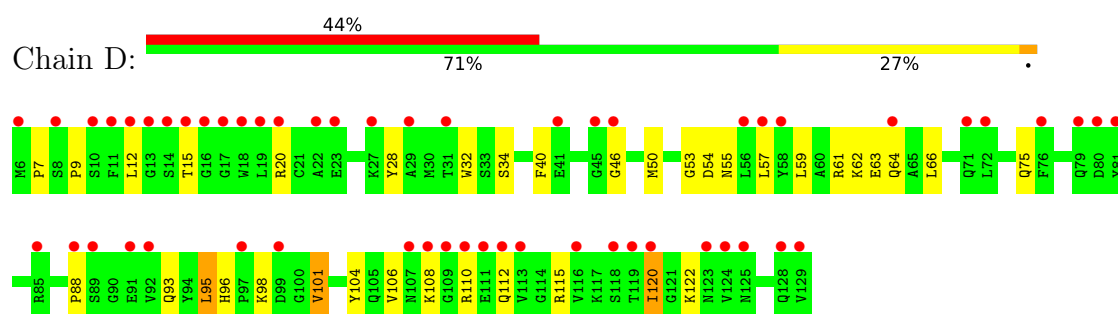


- Molecule 3: Photosystem I P700 chlorophyll a apoprotein A1

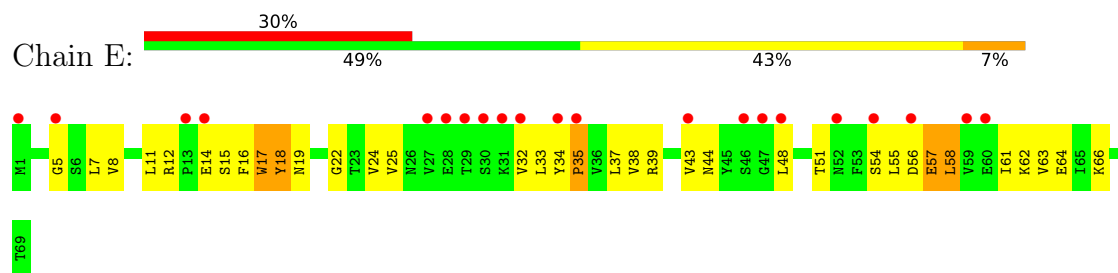


- Molecule 4: Photosystem I P700 chlorophyll a apoprotein A2

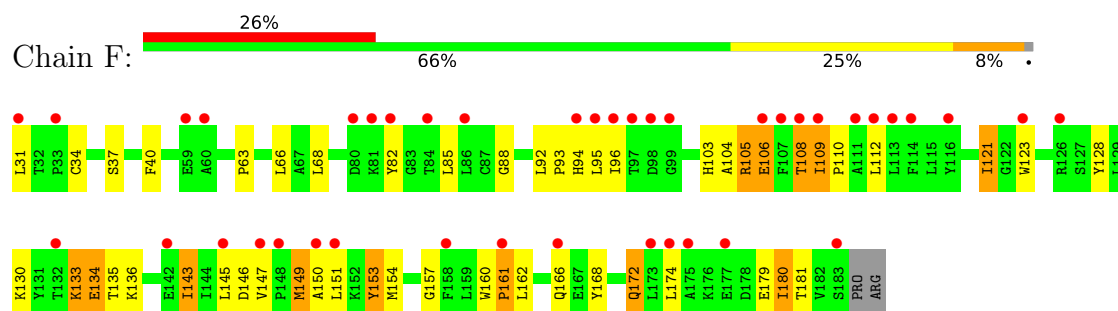




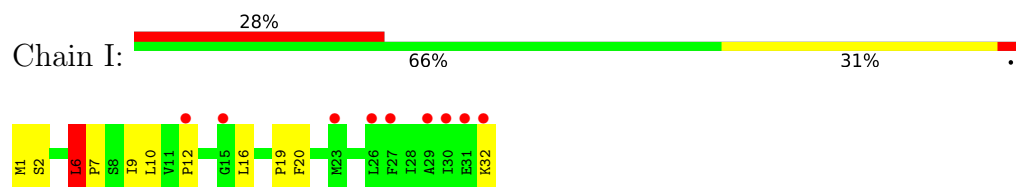
• Molecule 7: Photosystem I iron-sulfur center subunit VII



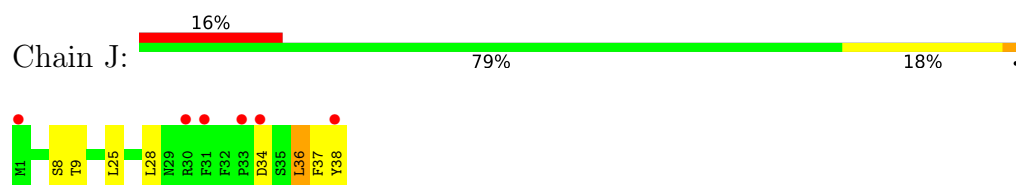
• Molecule 8: Photosystem I reaction center subunit II



• Molecule 9: Photosystem I reaction center subunit VIII

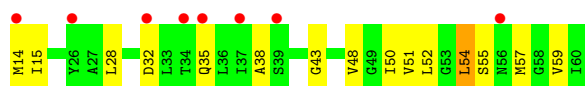


• Molecule 10: Photosystem I reaction center subunit IX

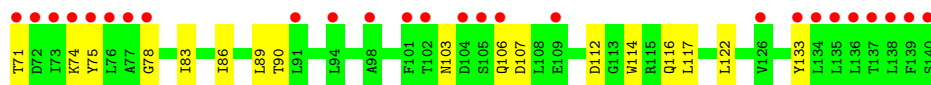
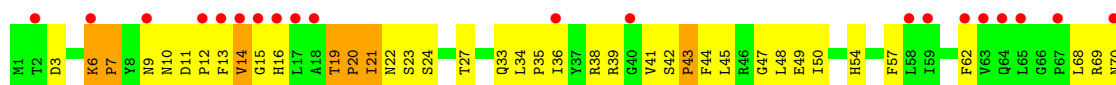


• Molecule 11: Photosystem I reaction center subunit X

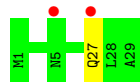




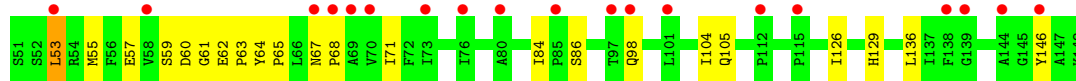
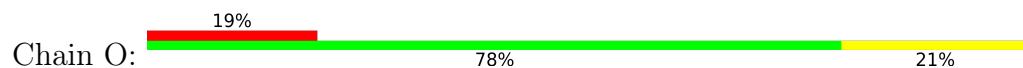
• Molecule 12: Photosystem I reaction center subunit XI



• Molecule 13: Photosystem I reaction center subunit XII



• Molecule 14: PsaM



4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	163.13Å 213.52Å 349.58Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.53 – 4.00 48.53 – 4.00	Depositor EDS
% Data completeness (in resolution range)	80.9 (48.53-4.00) 80.9 (48.53-4.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.60 (at 3.40Å)	Xtriage
Refinement program	PHENIX (dev_3042: ???)	Depositor
R, R_{free}	0.378 , 0.430 0.380 , 0.420	Depositor DCC
R_{free} test set	912 reflections (0.91%)	wwPDB-VP
Wilson B-factor (Å ²)	137.1	Xtriage
Anisotropy	0.070	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.14 , 85.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.76	EDS
Total number of atoms	25611	wwPDB-VP
Average B, all atoms (Å ²)	189.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.61% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: PQN, CLA, SF4, BCR

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	2	0.11	0/1142	0.35	0/1544
1	3	0.18	0/1210	0.60	0/1633
2	4	0.12	0/961	0.33	0/1289
3	A	0.10	0/5977	0.28	0/8146
4	B	0.10	0/5973	0.28	0/8163
5	C	0.11	0/607	0.35	0/822
6	D	0.10	0/998	0.29	0/1349
7	E	0.10	0/564	0.35	0/763
8	F	0.14	0/1289	0.37	0/1750
9	I	0.18	0/243	0.42	0/331
10	J	0.11	0/321	0.37	0/437
11	K	0.08	0/333	0.32	0/448
12	L	0.16	0/1097	0.42	0/1492
13	M	0.08	0/215	0.23	0/291
14	O	0.12	0/780	0.36	0/1068
All	All	0.12	0/21710	0.34	0/29526

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	2	1116	0	1088	40	0
1	3	1181	0	1169	75	0
2	4	935	0	926	28	0
3	A	5790	0	5719	231	0
4	B	5766	0	5589	193	0
5	C	597	0	584	36	0
6	D	976	0	967	31	0
7	E	555	0	576	25	0
8	F	1256	0	1227	60	0
9	I	238	0	265	9	0
10	J	312	0	327	11	0
11	K	331	0	349	9	0
12	L	1071	0	1090	41	0
13	M	214	0	236	0	0
14	O	755	0	760	13	0
15	2	375	0	45	2	0
15	3	275	0	33	5	0
15	4	325	0	39	3	0
15	A	1546	0	801	55	0
15	B	1267	0	522	52	0
15	F	70	0	35	0	0
15	J	50	0	38	1	0
15	K	50	0	6	0	0
15	L	75	0	9	2	0
15	O	75	0	9	0	0
16	A	33	0	46	3	0
16	B	33	0	46	1	0
17	A	8	0	0	0	0
17	C	16	0	0	4	0
18	A	200	0	260	25	0
18	B	80	0	105	8	0
18	I	40	0	53	4	0
All	All	25611	0	22919	779	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 16.

The worst 5 of 779 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:A:1012:CLA:H51	4:B:436:VAL:HG13	1.54	0.87
4:B:185:SER:HA	4:B:275:HIS:HD1	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:10:ASN:HB3	5:C:60:THR:HG21	1.63	0.79
3:A:391:MET:HE2	3:A:602:VAL:HG11	1.65	0.79
15:B:1230:CLA:HBA1	18:B:4005:BCR:H281	1.65	0.79

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	2	142/222 (64%)	122 (86%)	17 (12%)	3 (2%)	5	32
1	3	148/222 (67%)	124 (84%)	18 (12%)	6 (4%)	2	21
2	4	112/214 (52%)	96 (86%)	7 (6%)	9 (8%)	1	12
3	A	738/740 (100%)	645 (87%)	82 (11%)	11 (2%)	8	38
4	B	723/725 (100%)	630 (87%)	86 (12%)	7 (1%)	12	45
5	C	78/80 (98%)	69 (88%)	8 (10%)	1 (1%)	9	41
6	D	122/124 (98%)	107 (88%)	12 (10%)	3 (2%)	4	29
7	E	67/69 (97%)	52 (78%)	9 (13%)	6 (9%)	0	10
8	F	151/155 (97%)	132 (87%)	14 (9%)	5 (3%)	3	24
9	I	30/32 (94%)	27 (90%)	2 (7%)	1 (3%)	3	24
10	J	36/38 (95%)	34 (94%)	1 (3%)	1 (3%)	4	27
11	K	45/47 (96%)	36 (80%)	8 (18%)	1 (2%)	5	31
12	L	138/140 (99%)	110 (80%)	20 (14%)	8 (6%)	1	16
13	M	27/29 (93%)	25 (93%)	1 (4%)	1 (4%)	2	22
14	O	96/98 (98%)	84 (88%)	10 (10%)	2 (2%)	5	32
All	All	2653/2935 (90%)	2293 (86%)	295 (11%)	65 (2%)	4	29

5 of 65 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	3	113	LEU
1	3	145	LEU
1	3	172	VAL
3	A	477	PRO
7	E	56	ASP

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	2	109/178 (61%)	105 (96%)	4 (4%)	30	52
1	3	121/178 (68%)	94 (78%)	27 (22%)	1	6
2	4	93/175 (53%)	89 (96%)	4 (4%)	26	48
3	A	597/597 (100%)	585 (98%)	12 (2%)	48	66
4	B	592/593 (100%)	576 (97%)	16 (3%)	39	60
5	C	66/66 (100%)	65 (98%)	1 (2%)	57	70
6	D	104/104 (100%)	101 (97%)	3 (3%)	37	58
7	E	66/66 (100%)	65 (98%)	1 (2%)	57	70
8	F	135/137 (98%)	119 (88%)	16 (12%)	5	21
9	I	27/27 (100%)	25 (93%)	2 (7%)	13	36
10	J	34/34 (100%)	33 (97%)	1 (3%)	37	58
11	K	35/36 (97%)	34 (97%)	1 (3%)	37	58
12	L	113/113 (100%)	110 (97%)	3 (3%)	39	60
13	M	22/23 (96%)	22 (100%)	0	100	100
14	O	77/77 (100%)	75 (97%)	2 (3%)	40	61
All	All	2191/2404 (91%)	2098 (96%)	93 (4%)	26	49

5 of 93 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
4	B	435	TYR
8	F	106	GLU

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Mol	Chain	Res	Type
4	B	516	LEU
6	D	101	VAL
8	F	134	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 23 such sidechains are listed below:

Mol	Chain	Res	Type
4	B	450	GLN
6	D	71	GLN
4	B	603	ASN
6	D	75	GLN
3	A	215	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

147 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
15	CLA	B	1214	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	11 (32%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
18	BCR	B	4008	-	41,41,41	1.86	4 (9%)	56,56,56	4.55	15 (26%)
15	CLA	K	1402	-	26,32,73	3.24	12 (46%)	34,54,113	2.46	12 (35%)
15	CLA	4	602	-	26,32,73	3.28	12 (46%)	34,54,113	2.46	11 (32%)
15	CLA	A	1112	-	26,32,73	3.29	12 (46%)	34,54,113	2.46	12 (35%)
15	CLA	A	1119	-	26,32,73	3.27	12 (46%)	34,54,113	2.45	13 (38%)
15	CLA	A	1138	-	26,32,73	3.27	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	B	1218	-	26,32,73	3.28	12 (46%)	34,54,113	2.44	12 (35%)
15	CLA	B	1224	-	59,63,73	1.46	7 (11%)	71,101,113	2.06	19 (26%)
15	CLA	B	1236	-	49,53,73	1.60	7 (14%)	59,89,113	2.10	16 (27%)
15	CLA	J	1302	-	54,58,73	1.55	8 (14%)	65,95,113	2.23	20 (30%)
15	CLA	B	1217	-	26,32,73	3.27	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	2	601	-	26,32,73	3.27	12 (46%)	34,54,113	2.45	11 (32%)
18	BCR	A	4017	-	41,41,41	1.85	4 (9%)	56,56,56	4.51	16 (28%)
15	CLA	B	1022	-	26,32,73	3.28	12 (46%)	34,54,113	2.44	13 (38%)
15	CLA	B	1208	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	11 (32%)
15	CLA	B	1226	-	59,63,73	1.48	8 (13%)	71,101,113	2.08	15 (21%)
15	CLA	2	614	-	26,32,73	3.27	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	A	1121	-	26,32,73	3.28	12 (46%)	34,54,113	2.44	11 (32%)
15	CLA	3	612	-	26,32,73	3.24	12 (46%)	34,54,113	2.45	10 (29%)
15	CLA	A	1109	-	26,32,73	3.27	12 (46%)	34,54,113	2.44	12 (35%)
15	CLA	2	605	-	26,32,73	3.27	12 (46%)	34,54,113	2.44	11 (32%)
15	CLA	A	1125	-	26,32,73	3.28	12 (46%)	34,54,113	2.44	11 (32%)
15	CLA	A	1134	-	26,32,73	3.29	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	B	1223	-	26,32,73	3.28	12 (46%)	34,54,113	2.44	12 (35%)
18	BCR	A	4011	-	41,41,41	1.85	4 (9%)	56,56,56	4.34	18 (32%)
17	SF4	C	3002	-	0,12,12	-	-	-	-	-
15	CLA	A	1137	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	2	610	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	2	604	-	26,32,73	3.29	12 (46%)	34,54,113	2.46	13 (38%)
15	CLA	3	606	-	26,32,73	3.28	12 (46%)	34,54,113	2.46	12 (35%)
15	CLA	3	611	-	26,32,73	3.28	12 (46%)	34,54,113	2.44	12 (35%)
15	CLA	B	1229	-	54,58,73	1.54	6 (11%)	65,95,113	2.19	20 (30%)
15	CLA	B	1238	-	26,32,73	3.28	12 (46%)	34,54,113	2.44	12 (35%)
15	CLA	A	1133	-	26,32,73	3.27	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	2	615	-	26,32,73	3.27	12 (46%)	34,54,113	2.44	11 (32%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
15	CLA	4	606	-	26,32,73	3.27	12 (46%)	34,54,113	2.45	12 (35%)
18	BCR	I	4018	-	41,41,41	1.86	4 (9%)	56,56,56	4.33	17 (30%)
15	CLA	A	1011	-	54,58,73	1.54	7 (12%)	65,95,113	2.15	19 (29%)
15	CLA	3	614	-	26,32,73	3.29	12 (46%)	34,54,113	2.44	12 (35%)
15	CLA	B	1225	-	54,58,73	1.52	6 (11%)	65,95,113	2.10	18 (27%)
15	CLA	A	1104	-	59,63,73	1.47	8 (13%)	71,101,113	2.04	18 (25%)
15	CLA	L	1503	-	26,32,73	3.27	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	3	602	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	2	608	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	2	613	-	26,32,73	3.27	12 (46%)	34,54,113	2.43	12 (35%)
17	SF4	C	3003	-	0,12,12	-	-	-	-	-
15	CLA	B	1203	-	26,32,73	3.29	12 (46%)	34,54,113	2.46	13 (38%)
15	CLA	B	1212	4	26,32,73	3.28	12 (46%)	34,54,113	2.43	12 (35%)
15	CLA	A	1111	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	B	1206	-	26,32,73	3.28	12 (46%)	34,54,113	2.44	12 (35%)
15	CLA	B	1202	-	26,32,73	3.27	12 (46%)	34,54,113	2.44	11 (32%)
15	CLA	O	1601	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	B	1215	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	B	1237	-	59,63,73	1.48	8 (13%)	71,101,113	1.99	17 (23%)
15	CLA	4	612	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	11 (32%)
15	CLA	B	1216	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	4	605	-	26,32,73	3.28	12 (46%)	34,54,113	2.46	12 (35%)
15	CLA	B	1230	4	51,55,73	1.58	7 (13%)	61,91,113	2.21	17 (27%)
15	CLA	A	1126	-	59,63,73	1.47	7 (11%)	71,101,113	2.01	18 (25%)
15	CLA	4	611	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	O	1602	-	26,32,73	3.27	12 (46%)	34,54,113	2.46	11 (32%)
15	CLA	2	606	-	26,32,73	3.27	12 (46%)	34,54,113	2.44	11 (32%)
15	CLA	A	1140	3	26,32,73	3.28	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	B	1211	-	26,32,73	3.27	12 (46%)	34,54,113	2.45	13 (38%)
15	CLA	A	1103	-	59,63,73	1.45	7 (11%)	71,101,113	2.02	19 (26%)
15	CLA	3	607	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	13 (38%)
18	BCR	B	4005	-	41,41,41	1.86	4 (9%)	56,56,56	4.36	18 (32%)
15	CLA	A	1139	-	26,32,73	3.27	12 (46%)	34,54,113	2.46	11 (32%)
15	CLA	A	1012	-	59,63,73	1.47	8 (13%)	71,101,113	1.98	17 (23%)
15	CLA	2	612	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	12 (35%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
15	CLA	4	615	-	26,32,73	3.28	12 (46%)	34,54,113	2.44	12 (35%)
15	CLA	B	1207	-	26,32,73	3.28	12 (46%)	34,54,113	2.46	12 (35%)
15	CLA	A	1105	-	59,63,73	1.47	7 (11%)	71,101,113	2.08	18 (25%)
15	CLA	B	1023	-	54,58,73	1.53	7 (12%)	65,95,113	2.10	18 (27%)
15	CLA	A	1107	3	59,63,73	1.48	7 (11%)	71,101,113	2.04	19 (26%)
15	CLA	B	1209	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	11 (32%)
15	CLA	B	1221	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	11 (32%)
16	PQN	A	2001	-	34,34,34	0.43	0	42,45,45	1.07	3 (7%)
15	CLA	B	1205	-	26,32,73	3.24	12 (46%)	34,54,113	2.49	12 (35%)
15	CLA	B	1239	4	26,32,73	3.29	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	3	603	-	26,32,73	3.29	12 (46%)	34,54,113	2.50	12 (35%)
15	CLA	4	616	-	26,32,73	3.27	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	B	1220	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	F	1301	-	49,53,73	1.61	8 (16%)	59,89,113	2.07	15 (25%)
16	PQN	B	2002	-	34,34,34	0.39	0	42,45,45	1.16	3 (7%)
15	CLA	A	1127	-	26,32,73	3.30	11 (42%)	34,54,113	2.45	11 (32%)
15	CLA	A	1136	-	26,32,73	3.27	12 (46%)	34,54,113	2.44	12 (35%)
18	BCR	A	4008	-	41,41,41	1.84	4 (9%)	56,56,56	4.37	13 (23%)
15	CLA	4	609	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	4	601	-	26,32,73	3.28	12 (46%)	34,54,113	2.46	12 (35%)
15	CLA	4	610	-	26,32,73	3.28	12 (46%)	34,54,113	2.44	12 (35%)
15	CLA	A	1141	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	A	1113	-	26,32,73	3.29	12 (46%)	34,54,113	2.46	12 (35%)
15	CLA	B	1231	-	26,32,73	3.28	12 (46%)	34,54,113	2.46	11 (32%)
15	CLA	3	608	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	A	1114	-	50,54,73	1.59	8 (16%)	60,90,113	2.02	15 (25%)
15	CLA	A	1131	-	49,53,73	1.61	7 (14%)	59,89,113	2.03	13 (22%)
15	CLA	B	1228	4	26,32,73	3.29	11 (42%)	34,54,113	2.54	13 (38%)
15	CLA	O	1603	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	K	1401	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	B	1232	-	69,73,73	1.36	7 (10%)	83,113,113	1.96	19 (22%)
15	CLA	B	1204	-	26,32,73	3.27	12 (46%)	34,54,113	2.44	12 (35%)
15	CLA	2	611	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	A	1110	-	26,32,73	3.27	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	A	1115	-	59,63,73	1.48	7 (11%)	71,101,113	2.05	20 (28%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
15	CLA	A	1013	-	59,63,73	1.48	8 (13%)	71,101,113	2.01	17 (23%)
15	CLA	A	1124	-	26,32,73	3.29	12 (46%)	34,54,113	2.47	12 (35%)
15	CLA	A	1108	3	26,32,73	3.29	12 (46%)	34,54,113	2.44	12 (35%)
15	CLA	F	1302	-	26,32,73	3.27	12 (46%)	34,54,113	2.45	11 (32%)
15	CLA	2	616	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	L	1502	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	3	604	1	26,32,73	3.28	12 (46%)	34,54,113	2.47	13 (38%)
15	CLA	2	603	-	26,32,73	3.26	12 (46%)	34,54,113	2.44	12 (35%)
15	CLA	4	608	-	26,32,73	3.28	12 (46%)	34,54,113	2.46	12 (35%)
15	CLA	A	1116	-	59,63,73	1.47	7 (11%)	71,101,113	2.00	19 (26%)
15	CLA	A	1102	-	26,32,73	3.28	12 (46%)	34,54,113	2.44	11 (32%)
15	CLA	A	1122	-	26,32,73	3.27	12 (46%)	34,54,113	2.46	12 (35%)
15	CLA	3	601	-	26,32,73	3.28	12 (46%)	34,54,113	2.47	12 (35%)
15	CLA	A	1135	-	26,32,73	3.28	12 (46%)	34,54,113	2.44	11 (32%)
15	CLA	A	1128	-	26,32,73	3.29	12 (46%)	34,54,113	2.44	12 (35%)
17	SF4	A	3001	-	0,12,12	-	-	-	-	-
15	CLA	B	1234	-	26,32,73	3.28	12 (46%)	34,54,113	2.46	12 (35%)
15	CLA	L	1501	-	26,32,73	3.26	12 (46%)	34,54,113	2.45	11 (32%)
15	CLA	2	602	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	11 (32%)
18	BCR	A	4007	-	41,41,41	1.82	5 (12%)	56,56,56	4.60	18 (32%)
15	CLA	B	1219	-	26,32,73	3.27	12 (46%)	34,54,113	2.44	12 (35%)
15	CLA	A	1118	-	26,32,73	3.28	12 (46%)	34,54,113	2.44	11 (32%)
15	CLA	A	1117	-	59,63,73	1.47	7 (11%)	71,101,113	2.06	17 (23%)
15	CLA	A	1132	-	26,32,73	3.26	12 (46%)	34,54,113	2.44	12 (35%)
15	CLA	B	1222	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	11 (32%)
15	CLA	B	1201	-	26,32,73	3.28	12 (46%)	34,54,113	2.46	12 (35%)
15	CLA	B	1210	-	26,32,73	3.27	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	A	1130	-	59,63,73	1.48	7 (11%)	71,101,113	2.07	19 (26%)
15	CLA	A	1129	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	12 (35%)
15	CLA	B	1021	-	49,53,73	1.60	7 (14%)	59,89,113	1.99	15 (25%)
15	CLA	A	1106	-	59,63,73	1.47	7 (11%)	71,101,113	2.05	18 (25%)
15	CLA	A	1123	-	26,32,73	3.28	12 (46%)	34,54,113	2.44	11 (32%)
15	CLA	B	1235	-	26,32,73	3.28	12 (46%)	34,54,113	2.44	12 (35%)
15	CLA	3	610	-	26,32,73	3.28	12 (46%)	34,54,113	2.46	12 (35%)
15	CLA	4	603	-	26,32,73	3.28	12 (46%)	34,54,113	2.45	12 (35%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
15	CLA	A	1120	-	26,32,73	3.27	12 (46%)	34,54,113	2.44	11 (32%)
15	CLA	B	1227	-	26,32,73	3.29	12 (46%)	34,54,113	2.45	11 (32%)
15	CLA	2	607	1	26,32,73	3.27	12 (46%)	34,54,113	2.39	11 (32%)
15	CLA	A	1101	-	49,53,73	1.61	7 (14%)	59,89,113	2.06	15 (25%)
15	CLA	4	604	-	26,32,73	3.28	12 (46%)	34,54,113	2.46	11 (32%)
18	BCR	A	4002	-	41,41,41	1.84	4 (9%)	56,56,56	4.46	17 (30%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
18	BCR	B	4008	-	-	14/29/63/63	0/2/2/2
15	CLA	A	1105	-	-	9/27/103/115	-
15	CLA	B	1023	-	-	9/21/97/115	-
15	CLA	A	1107	3	-	11/27/103/115	-
17	SF4	C	3003	-	-	-	0/6/5/5
16	PQN	A	2001	-	-	10/23/43/43	0/2/2/2
15	CLA	J	1302	-	-	15/21/97/115	-
15	CLA	B	1236	-	-	6/15/91/115	-
15	CLA	B	1224	-	-	17/27/103/115	-
15	CLA	A	1116	-	-	18/27/103/115	-
18	BCR	A	4017	-	-	12/29/63/63	0/2/2/2
15	CLA	F	1301	-	-	6/15/91/115	-
16	PQN	B	2002	-	-	7/23/43/43	0/2/2/2
18	BCR	A	4008	-	-	14/29/63/63	0/2/2/2
15	CLA	B	1226	-	-	13/27/103/115	-
17	SF4	A	3001	-	-	-	0/6/5/5
15	CLA	B	1237	-	-	11/27/103/115	-
18	BCR	A	4007	-	-	18/29/63/63	0/2/2/2
15	CLA	B	1230	4	-	9/18/94/115	-
15	CLA	A	1126	-	-	14/27/103/115	-
15	CLA	A	1117	-	-	12/27/103/115	-
18	BCR	A	4011	-	-	11/29/63/63	0/2/2/2
18	BCR	B	4005	-	-	15/29/63/63	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
17	SF4	C	3002	-	-	-	0/6/5/5
15	CLA	A	1130	-	-	14/27/103/115	-
15	CLA	B	1021	-	-	6/15/91/115	-
15	CLA	A	1114	-	-	8/17/93/115	-
15	CLA	A	1106	-	-	12/27/103/115	-
15	CLA	A	1131	-	-	4/15/91/115	-
15	CLA	B	1229	-	-	6/21/97/115	-
15	CLA	A	1103	-	-	10/27/103/115	-
15	CLA	B	1232	-	-	19/39/115/115	-
18	BCR	I	4018	-	-	17/29/63/63	0/2/2/2
15	CLA	A	1011	-	-	6/21/97/115	-
15	CLA	A	1101	-	-	8/15/91/115	-
15	CLA	A	1115	-	-	15/27/103/115	-
15	CLA	A	1013	-	-	15/27/103/115	-
15	CLA	B	1225	-	-	10/21/97/115	-
15	CLA	A	1104	-	-	13/27/103/115	-
15	CLA	A	1012	-	-	16/27/103/115	-
18	BCR	A	4002	-	-	9/29/63/63	0/2/2/2

The worst 5 of 1505 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	A	1128	CLA	C3D-C2D	8.76	1.54	1.35
15	A	1127	CLA	C3D-C2D	8.75	1.54	1.35
15	B	1239	CLA	C3D-C2D	8.74	1.54	1.35
15	A	1108	CLA	C3D-C2D	8.74	1.54	1.35
15	A	1124	CLA	C3D-C2D	8.74	1.54	1.35

The worst 5 of 1877 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	A	4007	BCR	C10-C11-C12	18.19	179.99	123.22
18	A	4008	BCR	C10-C11-C12	17.90	179.09	123.22
18	A	4017	BCR	C10-C11-C12	17.72	178.52	123.22
18	B	4008	BCR	C10-C11-C12	17.61	178.17	123.22
18	B	4005	BCR	C10-C11-C12	17.51	177.87	123.22

There are no chirality outliers.

5 of 439 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
15	A	1011	CLA	C1A-C2A-CAA-CBA
15	A	1012	CLA	C2A-CAA-CBA-CGA
15	A	1012	CLA	CHA-CBD-CGD-O1D
15	A	1012	CLA	CHA-CBD-CGD-O2D
15	A	1012	CLA	CAD-CBD-CGD-O1D

There are no ring outliers.

67 monomers are involved in 145 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
18	B	4008	BCR	1	0
15	A	1112	CLA	1	0
15	B	1224	CLA	7	0
15	B	1236	CLA	1	0
15	J	1302	CLA	1	0
18	A	4017	BCR	6	0
15	B	1022	CLA	1	0
15	B	1226	CLA	6	0
18	A	4011	BCR	11	0
17	C	3002	SF4	3	0
15	3	606	CLA	2	0
15	B	1229	CLA	6	0
15	4	606	CLA	1	0
18	I	4018	BCR	4	0
15	A	1011	CLA	5	0
15	B	1225	CLA	5	0
15	A	1104	CLA	1	0
17	C	3003	SF4	1	0
15	B	1203	CLA	2	0
15	B	1212	CLA	1	0
15	B	1206	CLA	1	0
15	B	1202	CLA	1	0
15	B	1237	CLA	1	0
15	4	612	CLA	1	0
15	B	1230	CLA	6	0
15	A	1126	CLA	10	0
15	A	1103	CLA	1	0
18	B	4005	BCR	7	0
15	A	1139	CLA	1	0
15	A	1012	CLA	6	0
15	2	612	CLA	1	0

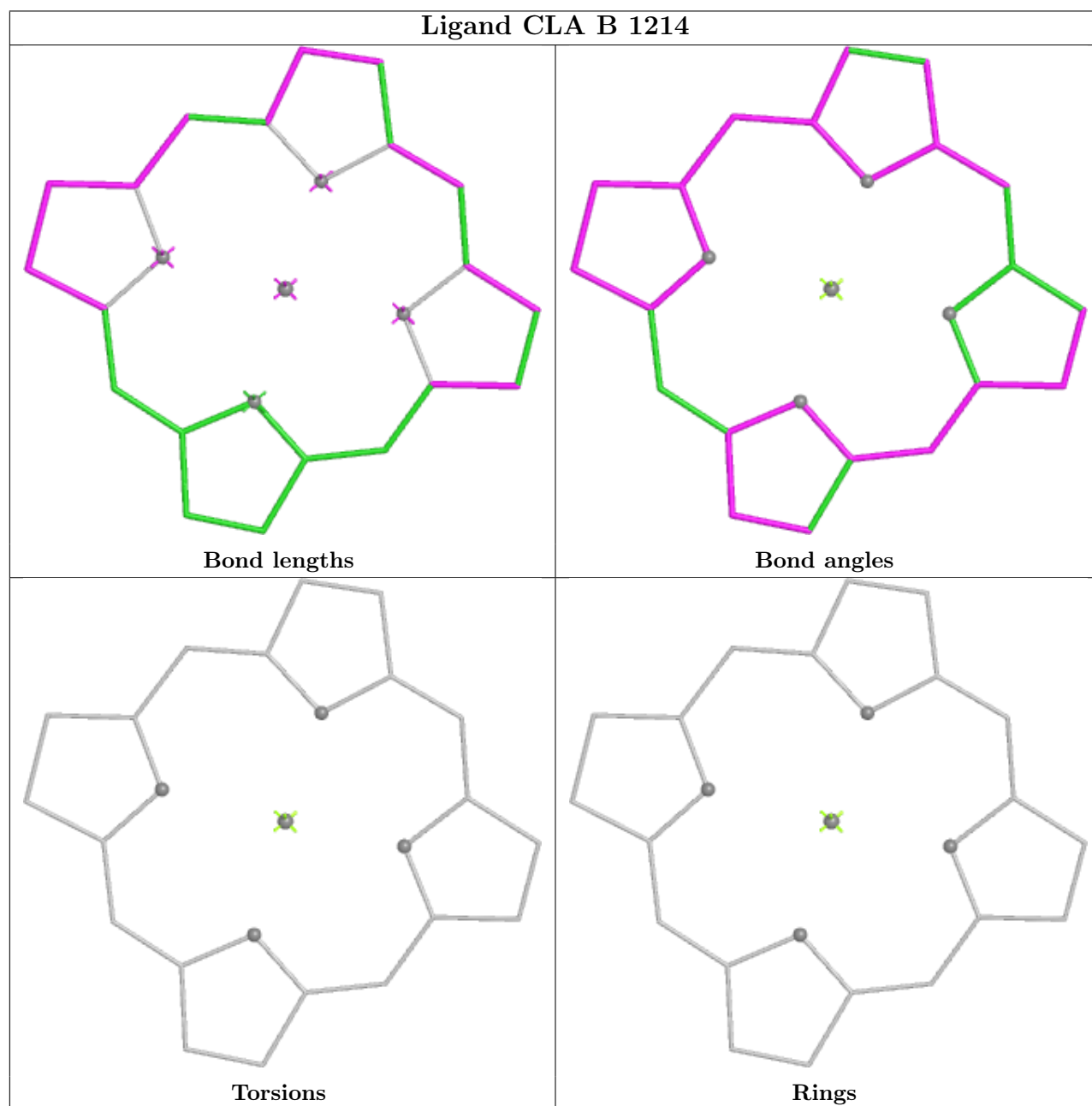
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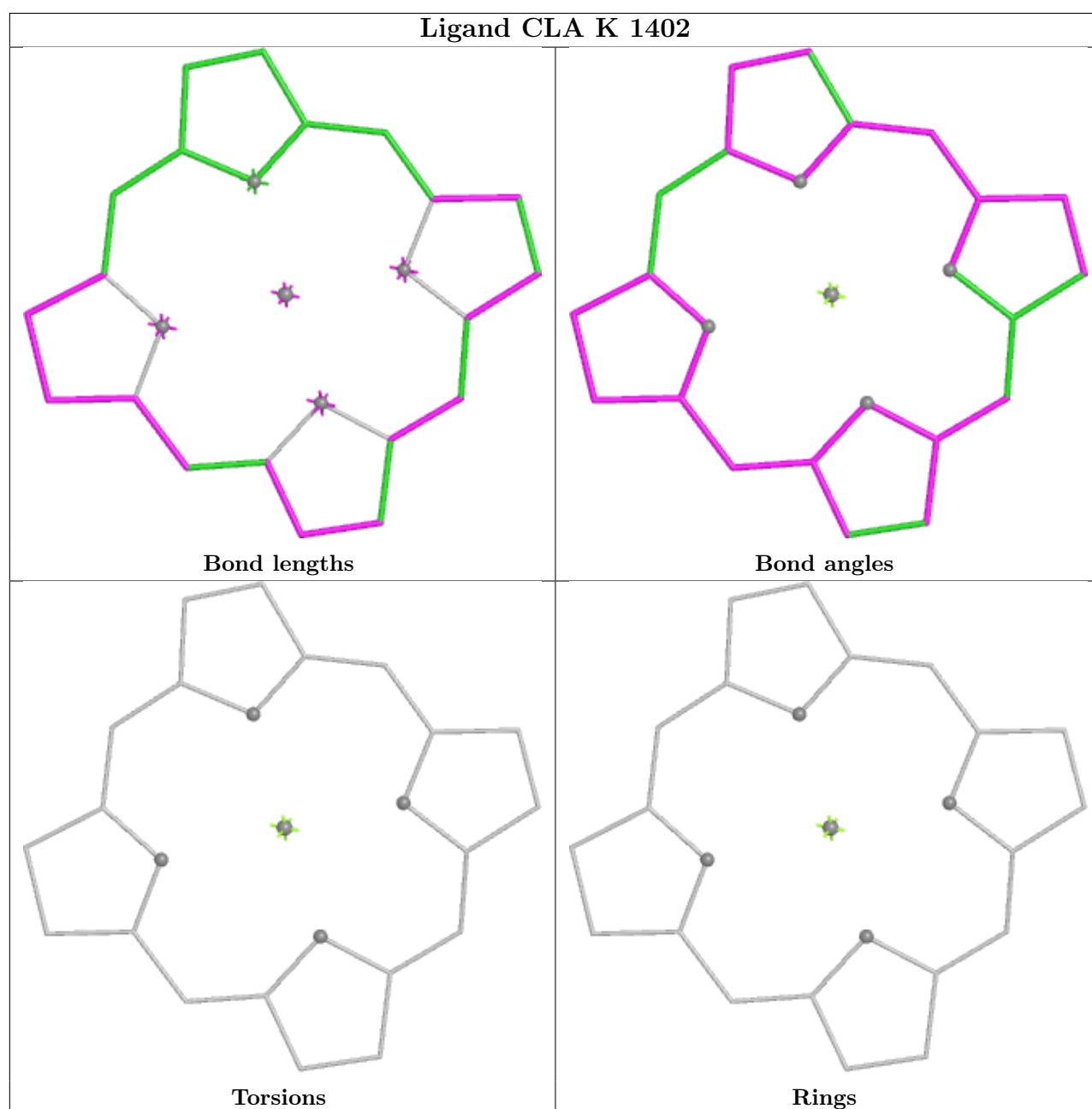
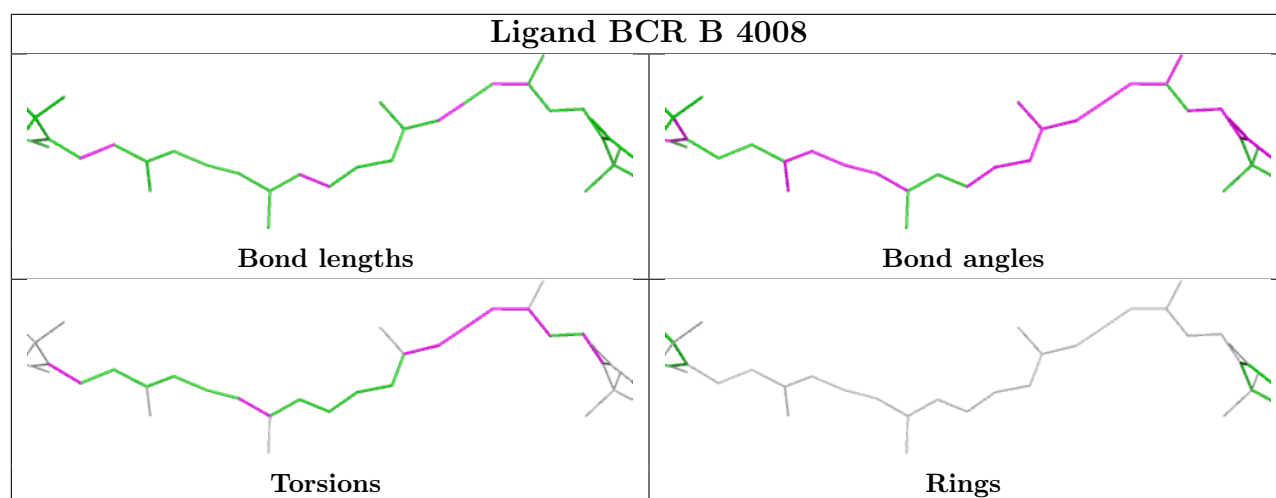
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Mol	Chain	Res	Type	Clashes	Symm-Clashes
15	4	615	CLA	1	0
15	B	1207	CLA	1	0
15	A	1105	CLA	3	0
15	B	1023	CLA	5	0
15	A	1107	CLA	2	0
16	A	2001	PQN	3	0
15	B	1205	CLA	1	0
15	B	1239	CLA	1	0
16	B	2002	PQN	1	0
15	A	1127	CLA	1	0
18	A	4008	BCR	1	0
15	A	1114	CLA	1	0
15	A	1131	CLA	2	0
15	B	1228	CLA	2	0
15	B	1232	CLA	3	0
15	A	1013	CLA	7	0
15	A	1124	CLA	1	0
15	L	1502	CLA	1	0
15	3	604	CLA	1	0
15	A	1122	CLA	1	0
15	3	601	CLA	1	0
15	A	1135	CLA	1	0
15	L	1501	CLA	1	0
18	A	4007	BCR	4	0
15	A	1117	CLA	3	0
15	B	1201	CLA	1	0
15	B	1210	CLA	1	0
15	A	1130	CLA	5	0
15	A	1129	CLA	1	0
15	B	1021	CLA	4	0
15	A	1106	CLA	5	0
15	A	1123	CLA	1	0
15	3	610	CLA	1	0
15	B	1227	CLA	1	0
15	2	607	CLA	1	0
18	A	4002	BCR	3	0

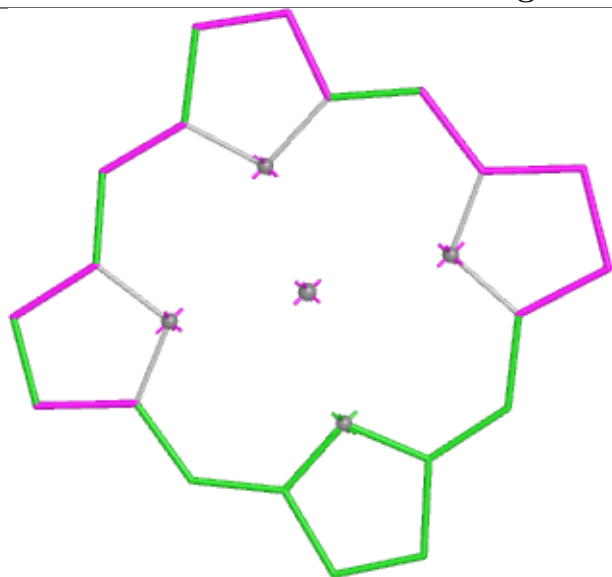
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be

highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

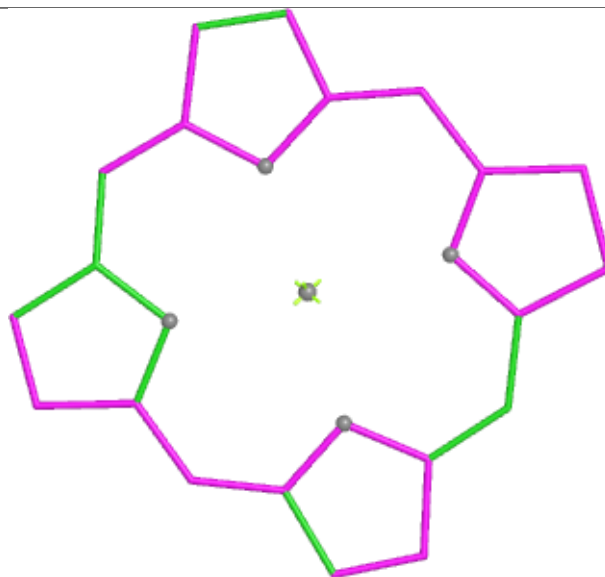




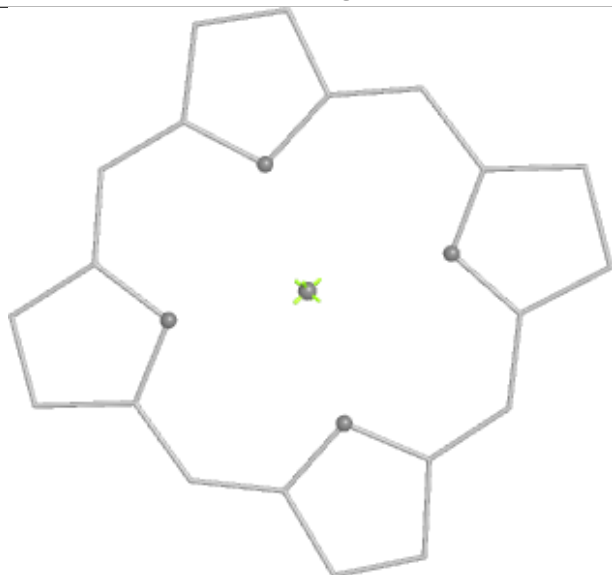
Ligand CLA 4 602



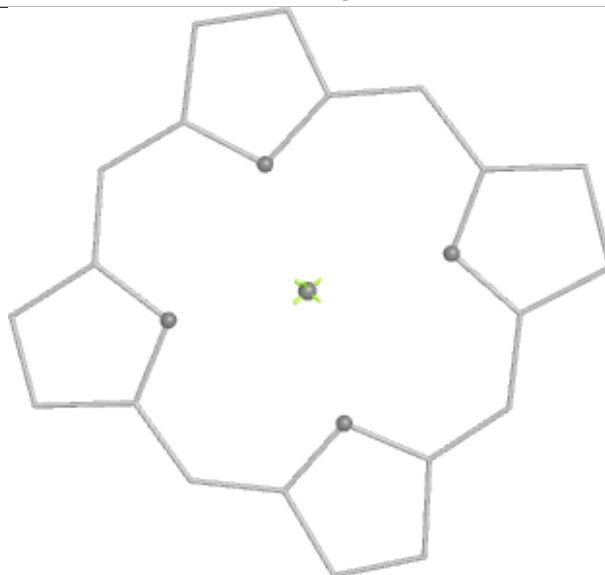
Bond lengths



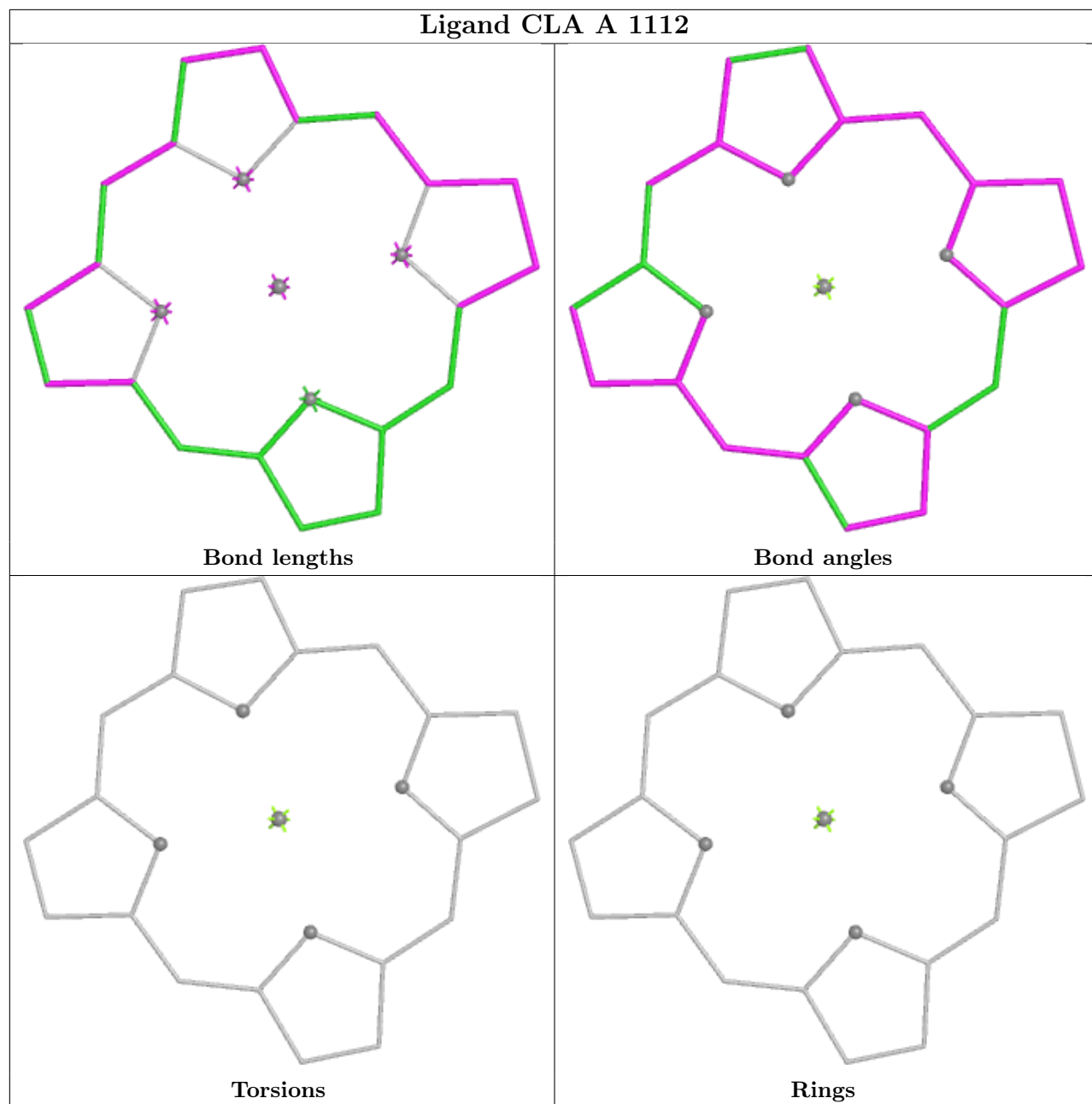
Bond angles



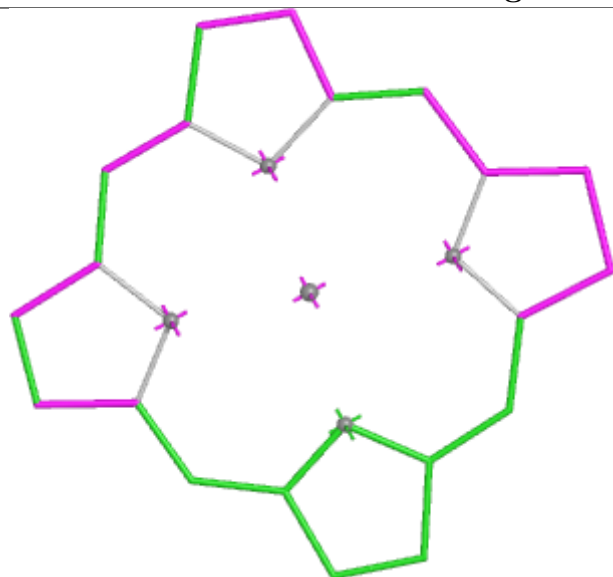
Torsions



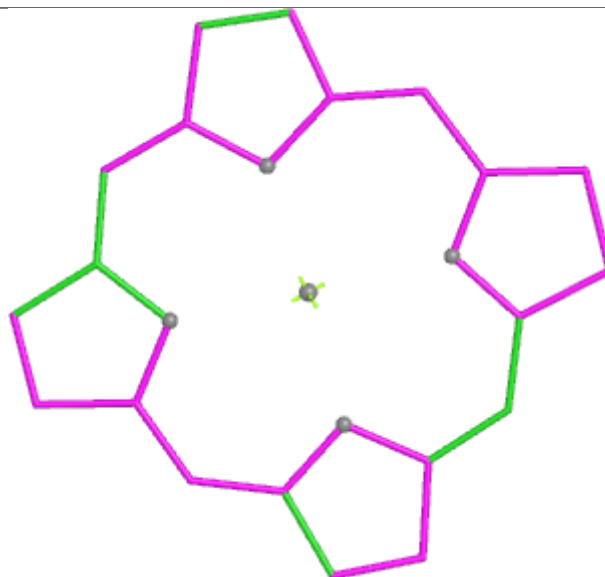
Rings



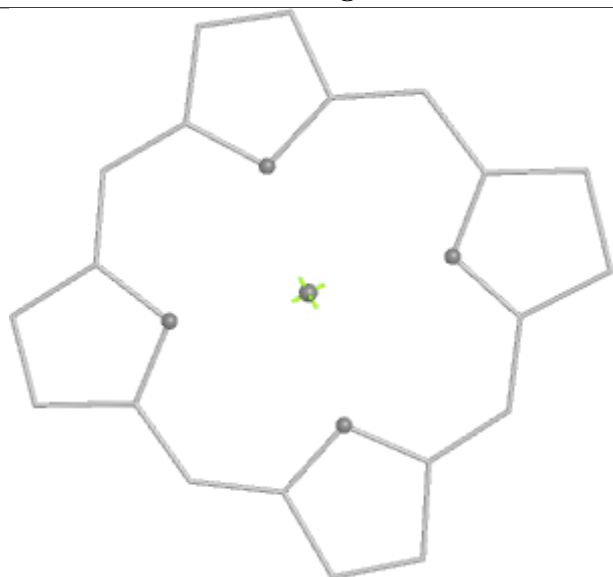
Ligand CLA A 1119



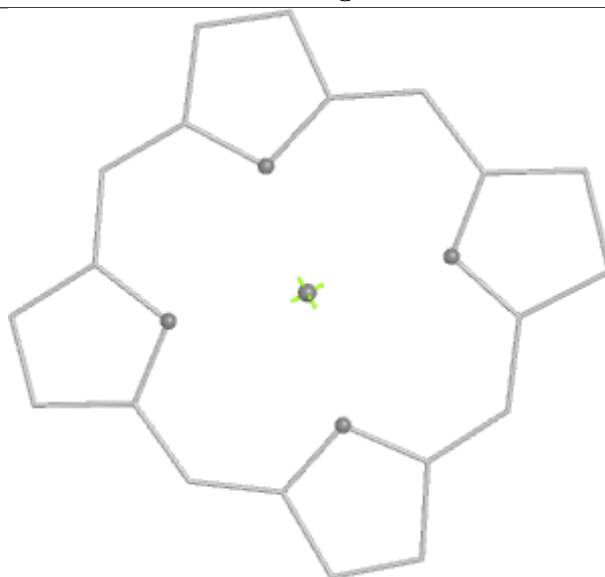
Bond lengths



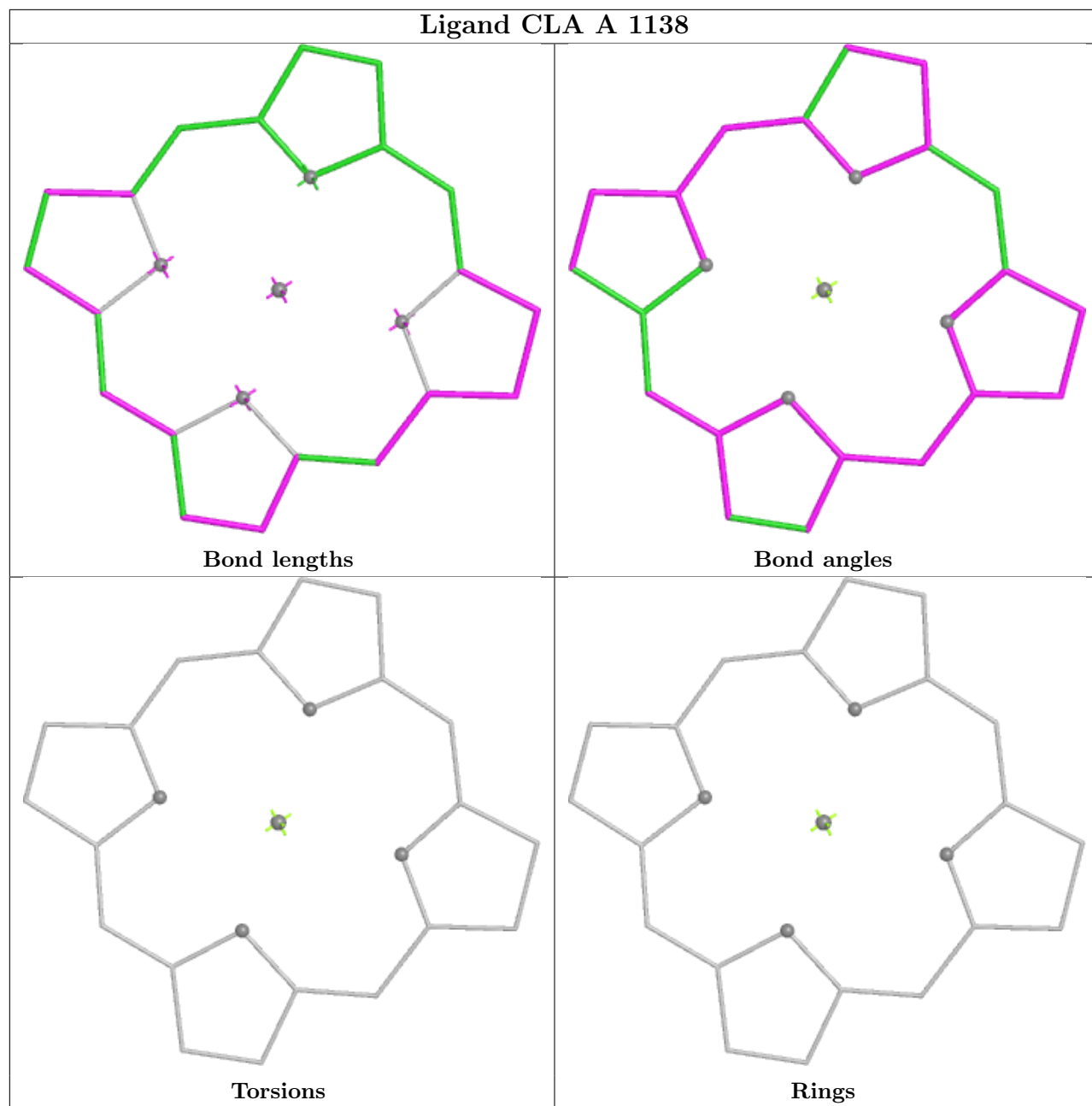
Bond angles

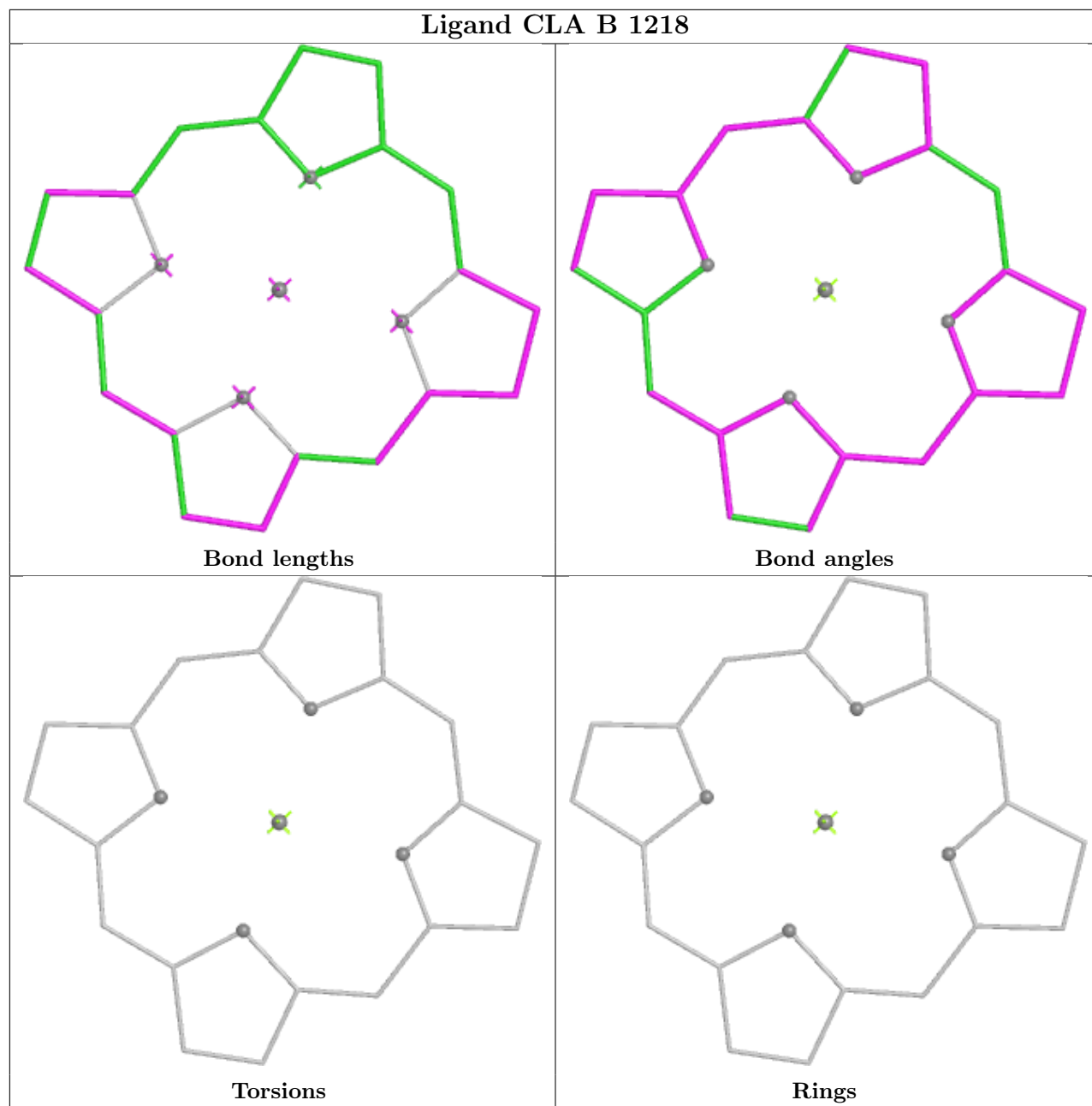


Torsions

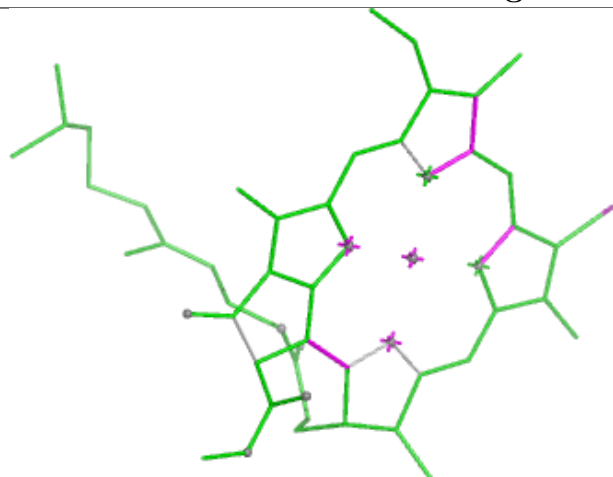


Rings

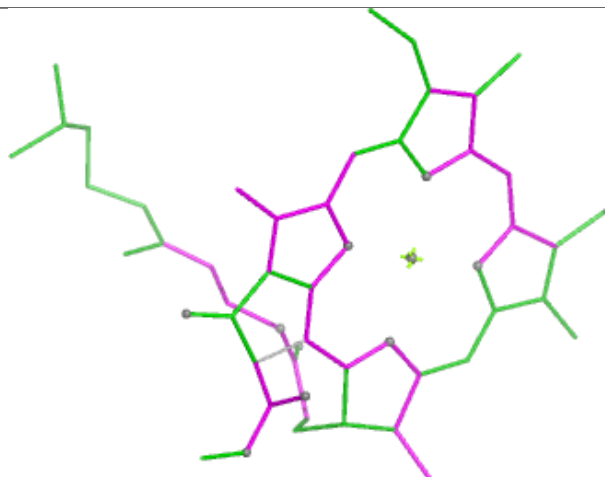




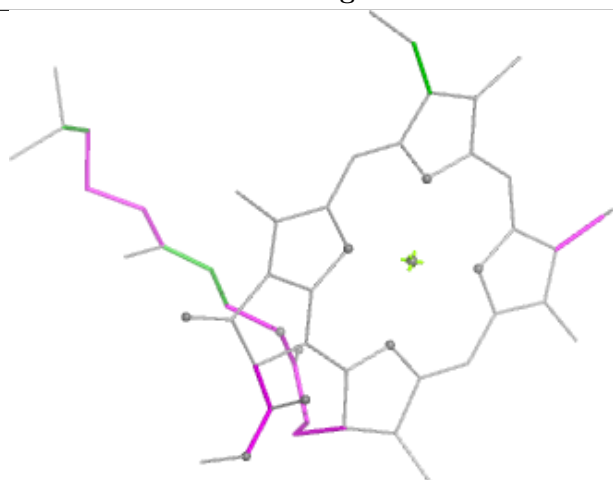
Ligand CLA B 1224



Bond lengths



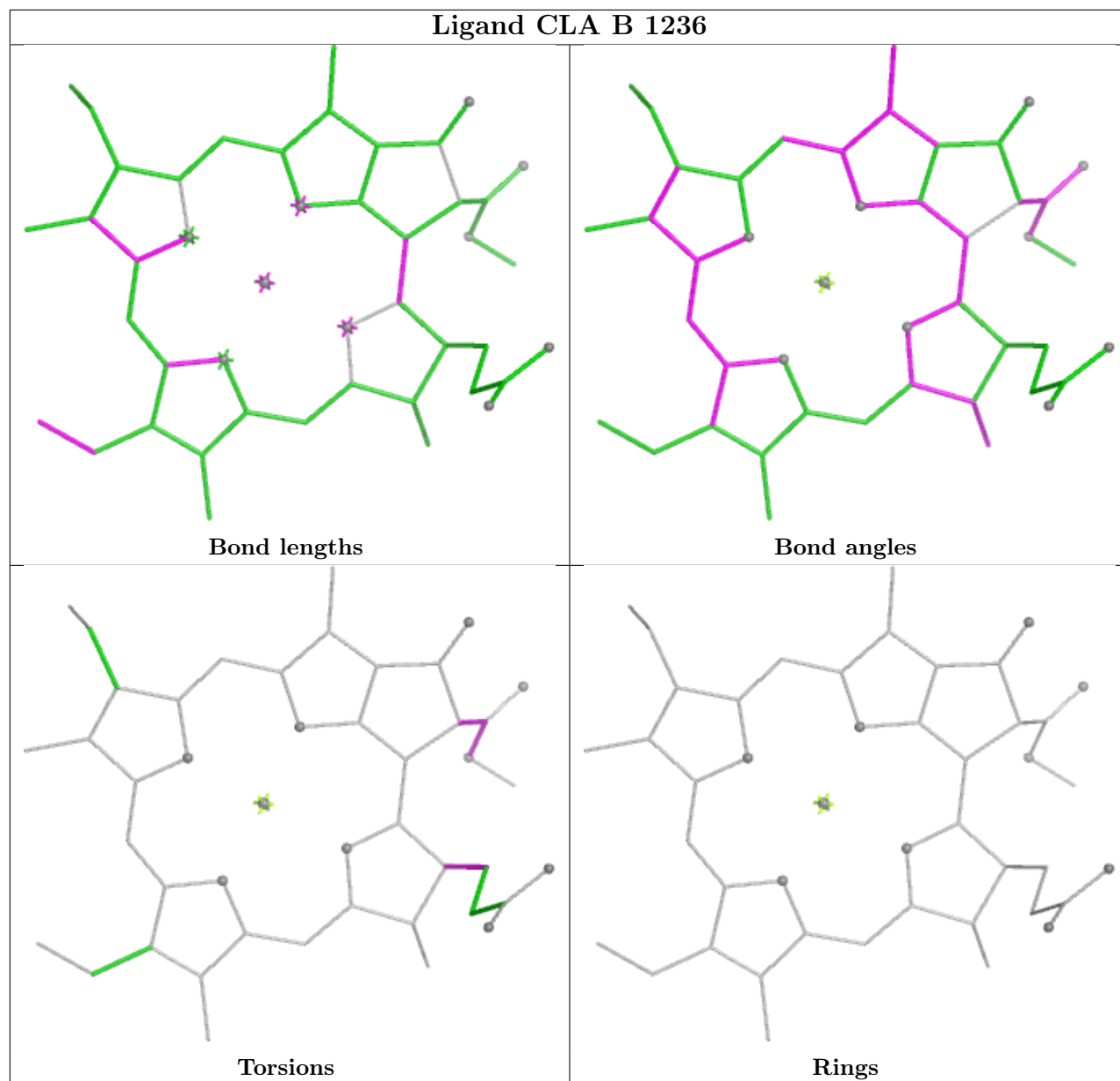
Bond angles

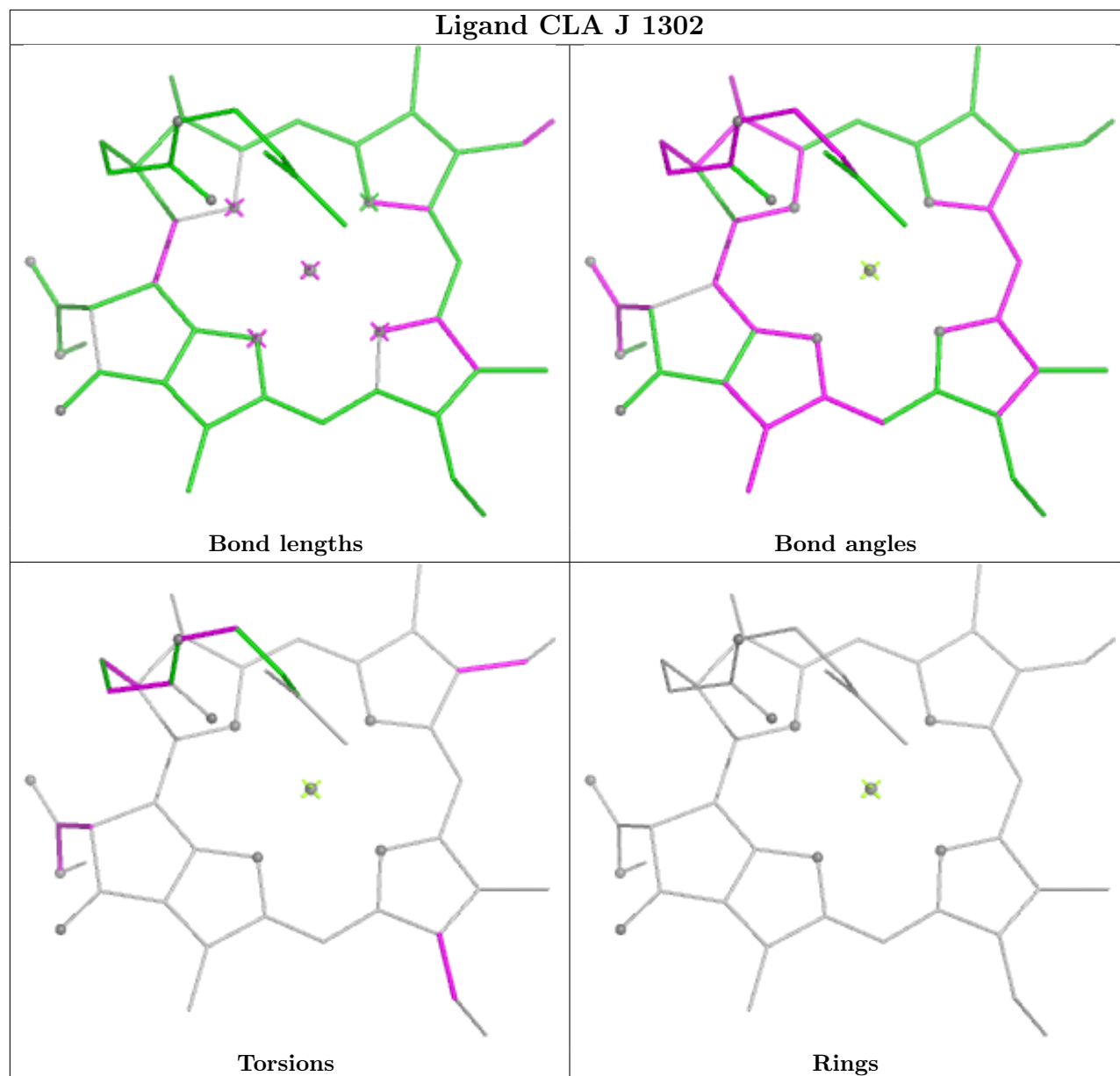


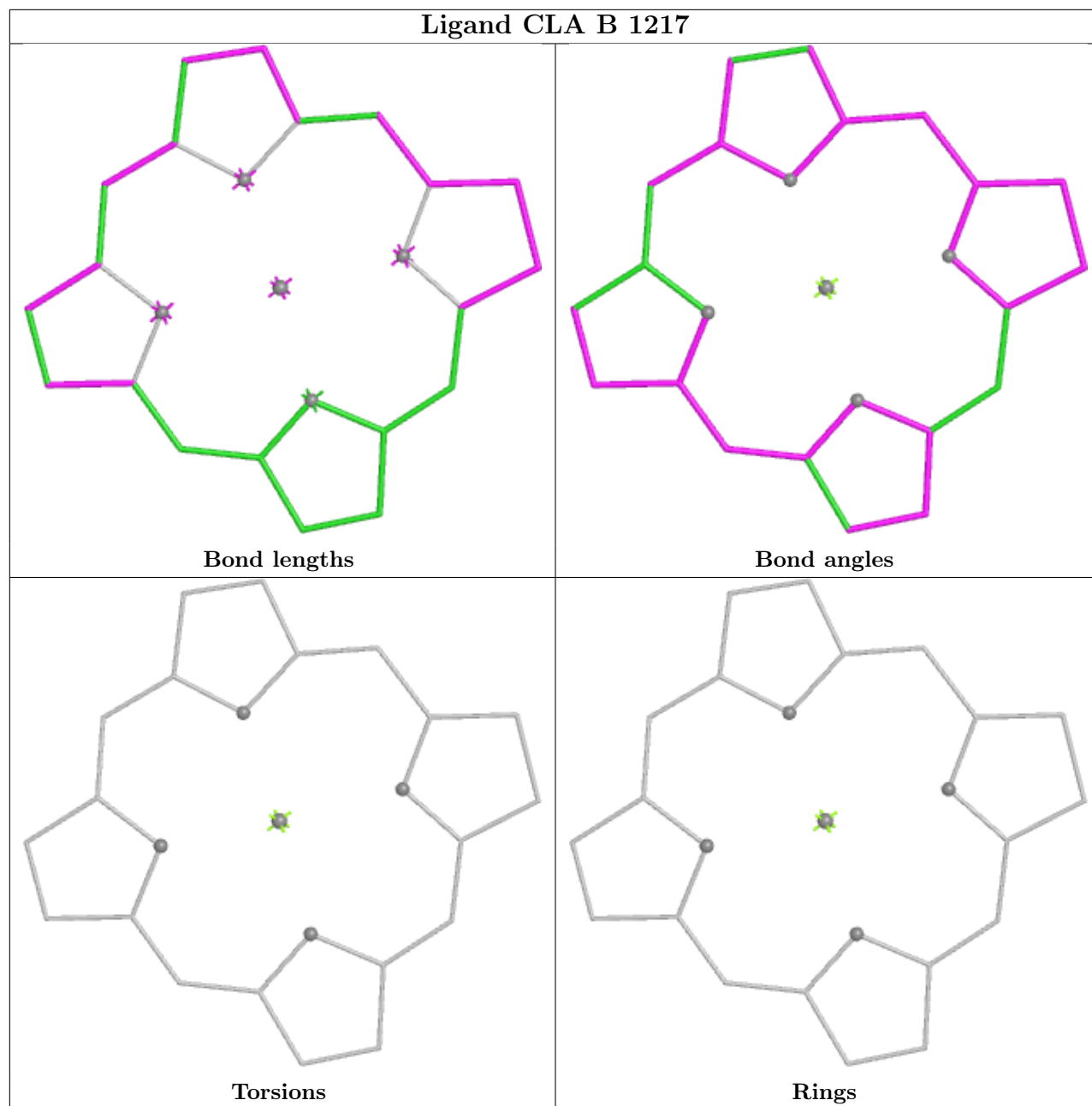
Torsions

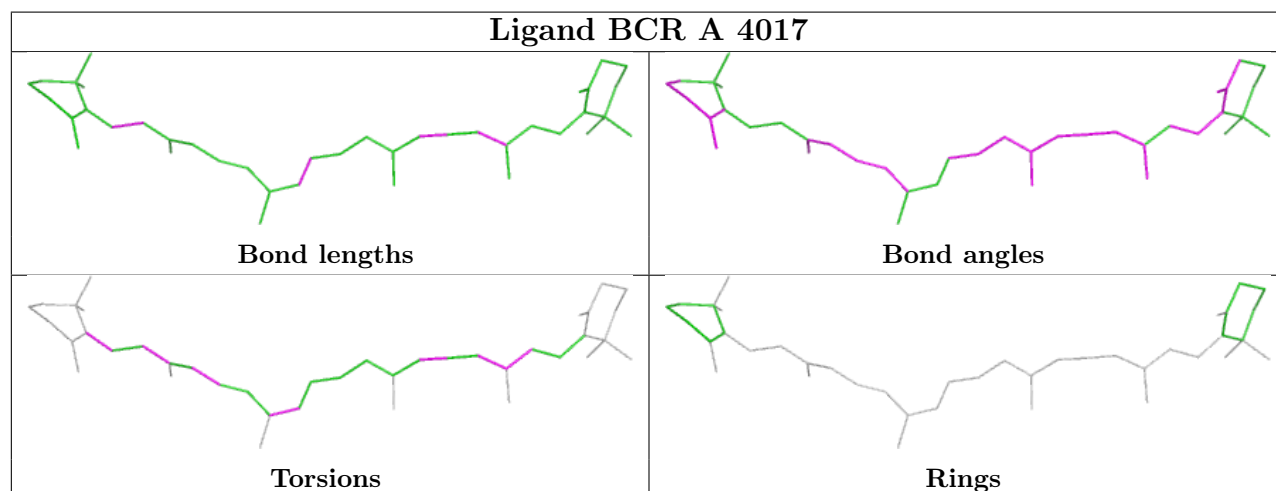
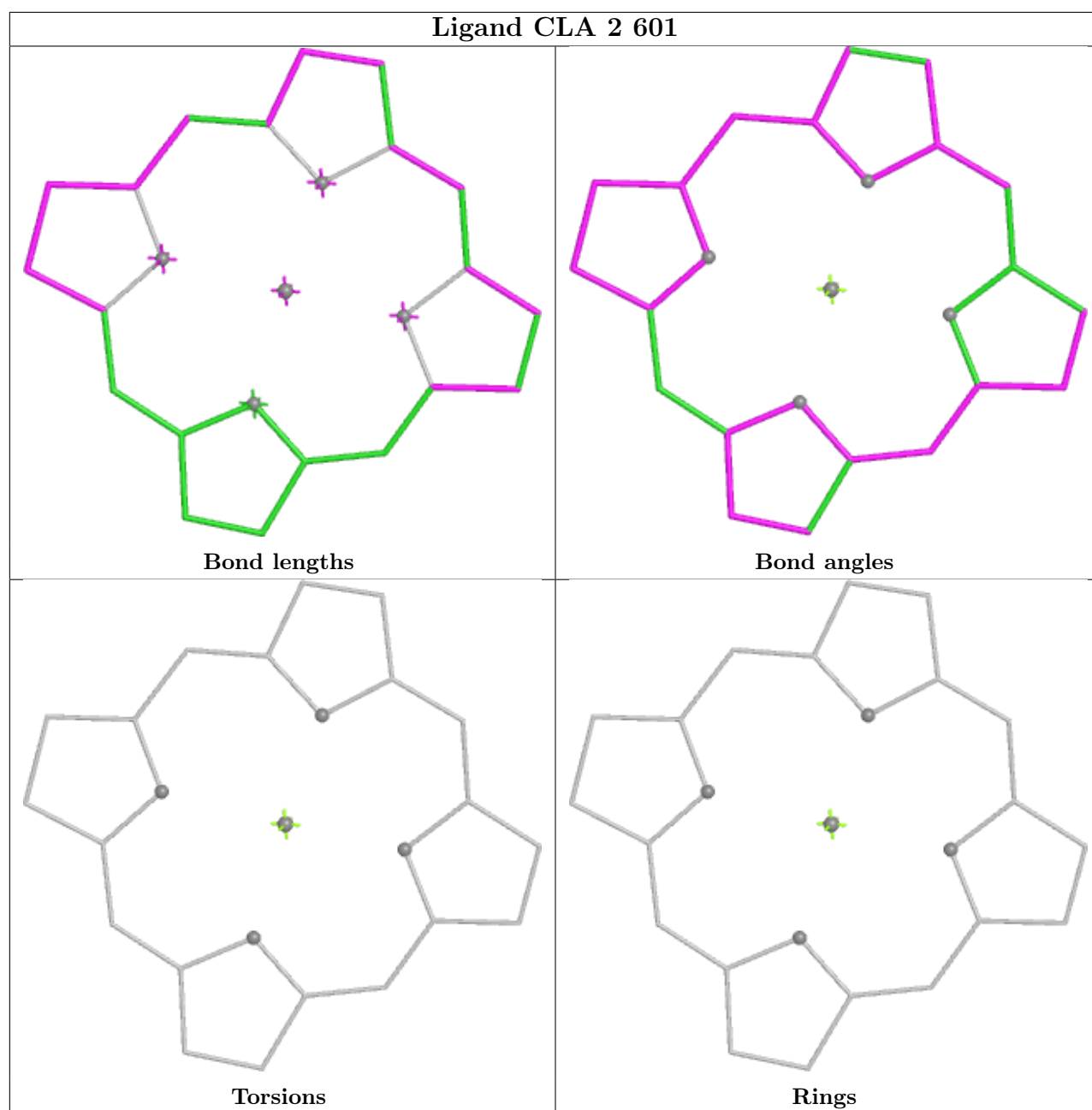


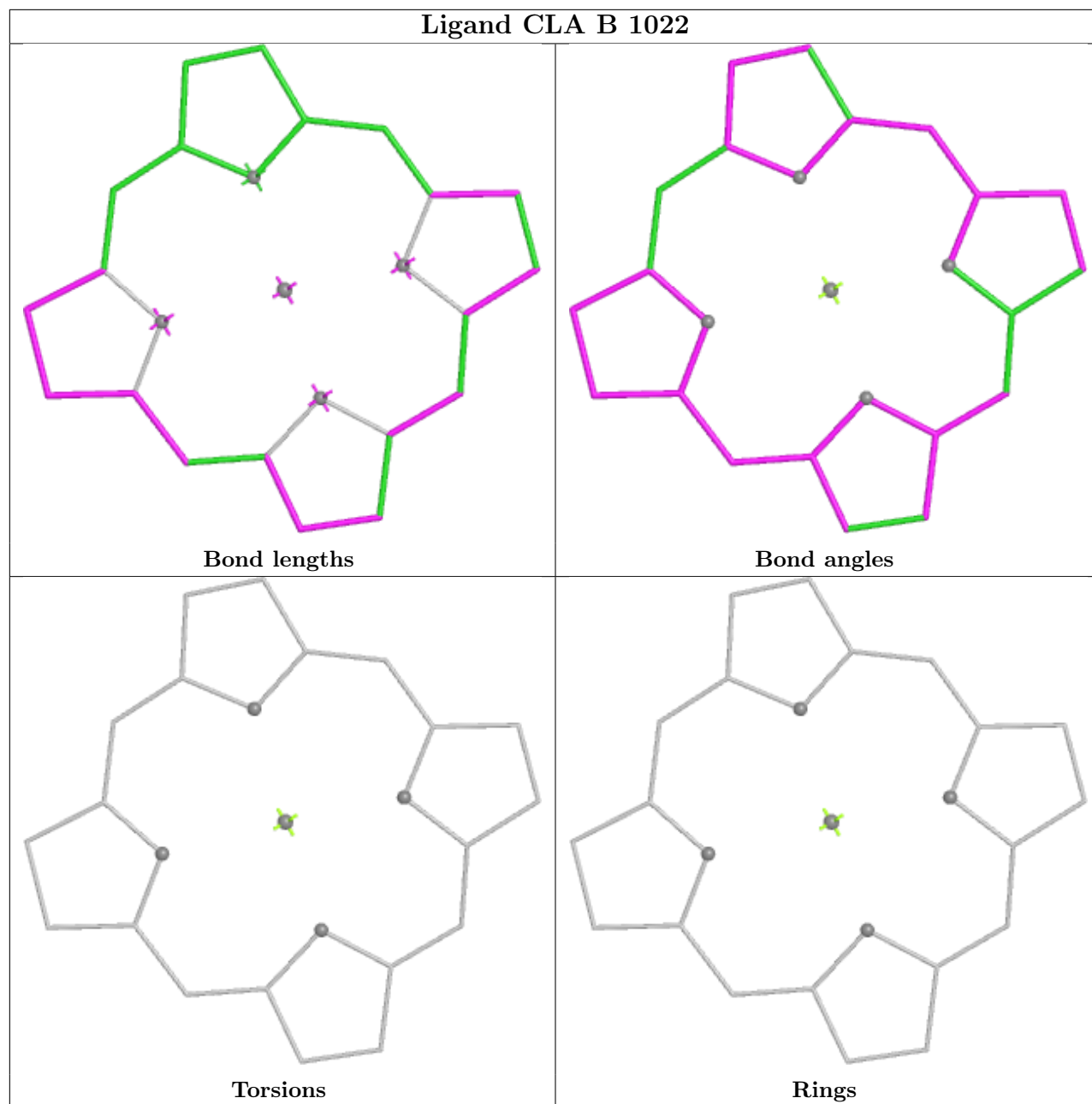
Rings

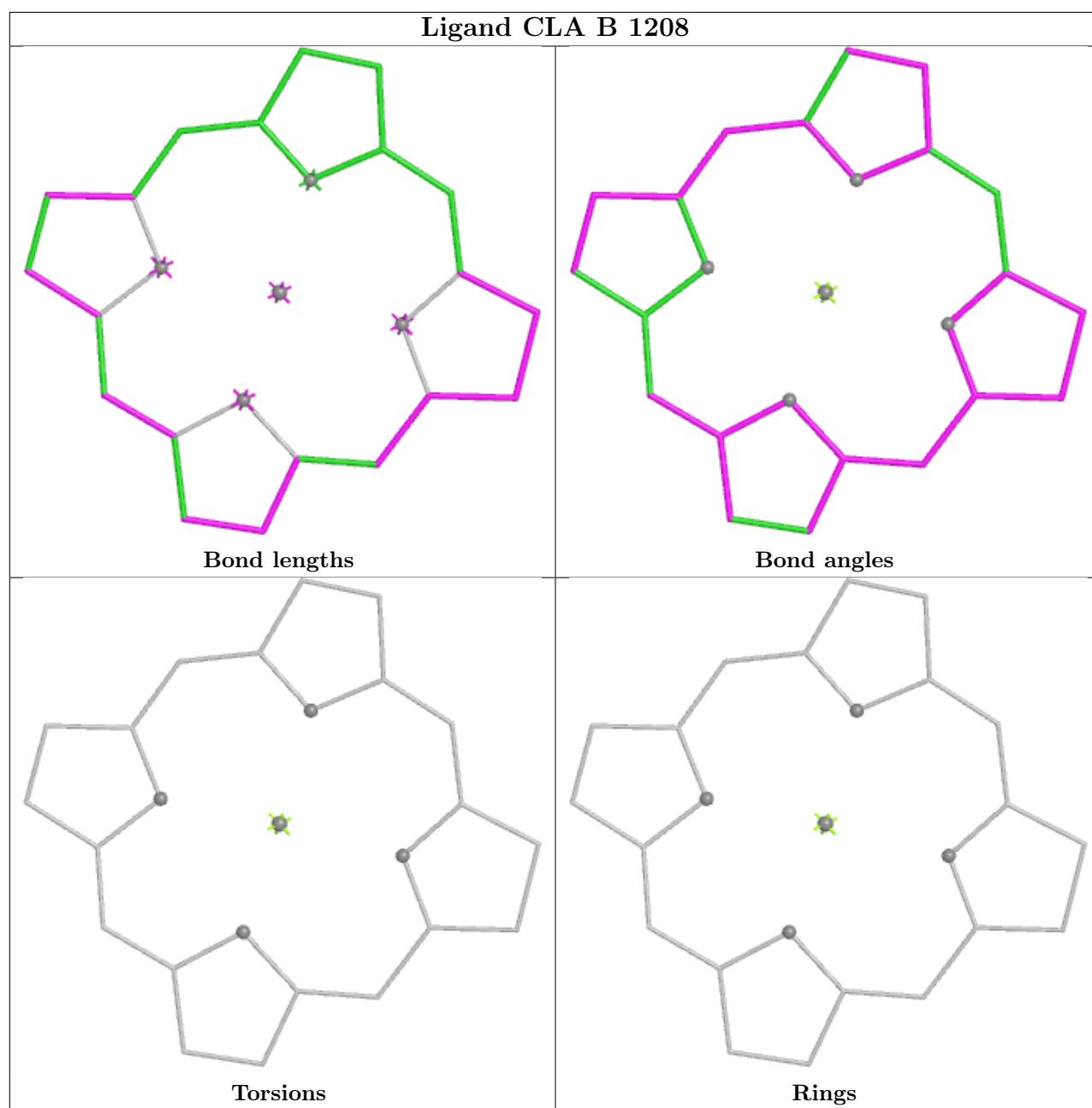


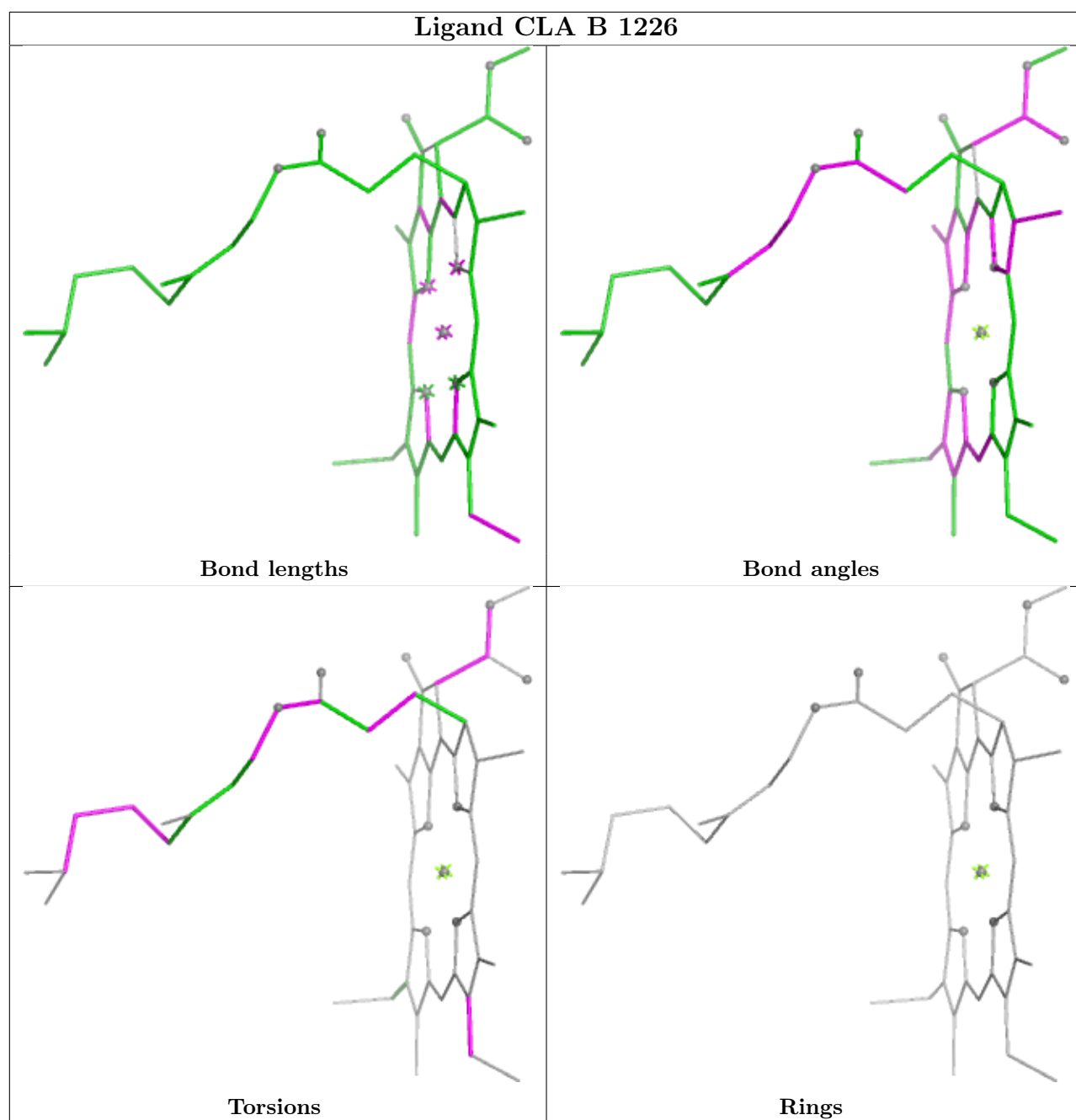




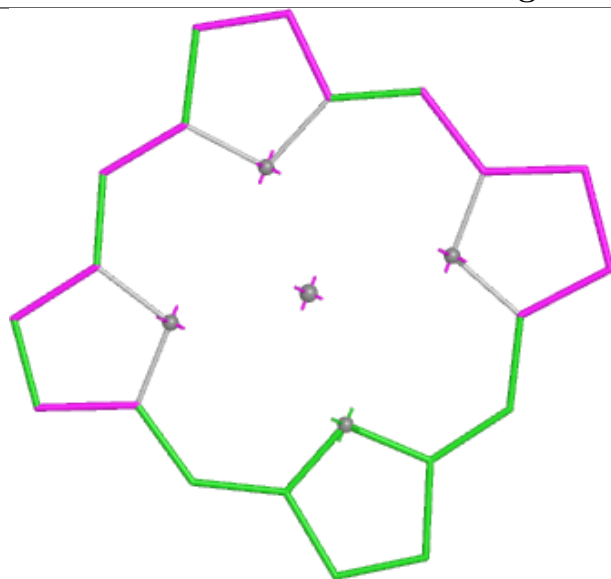




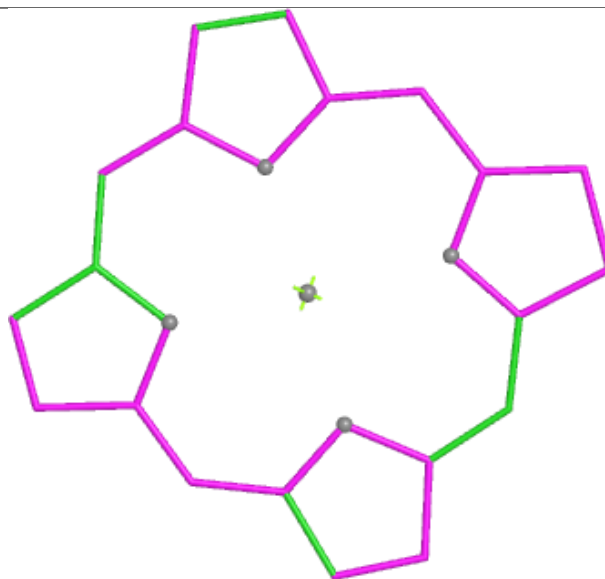




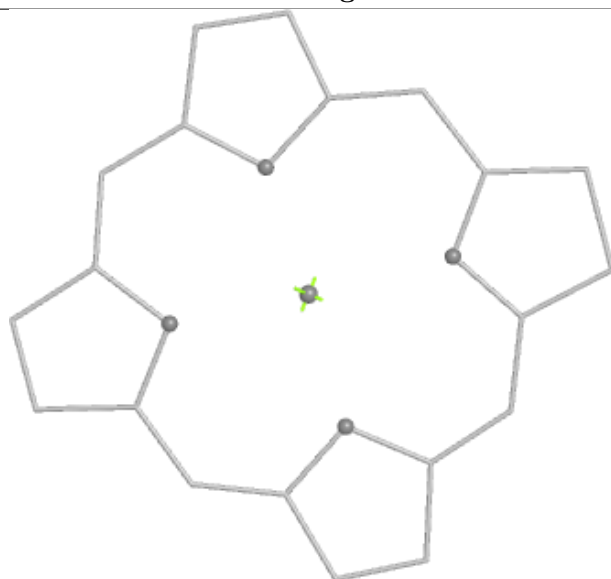
Ligand CLA 2 614



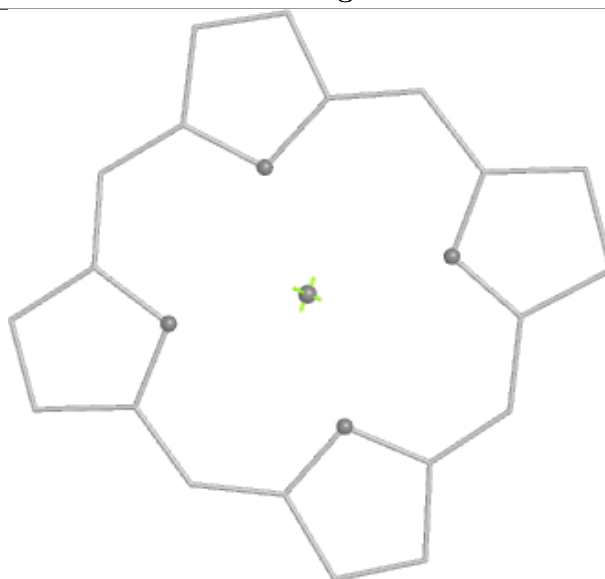
Bond lengths



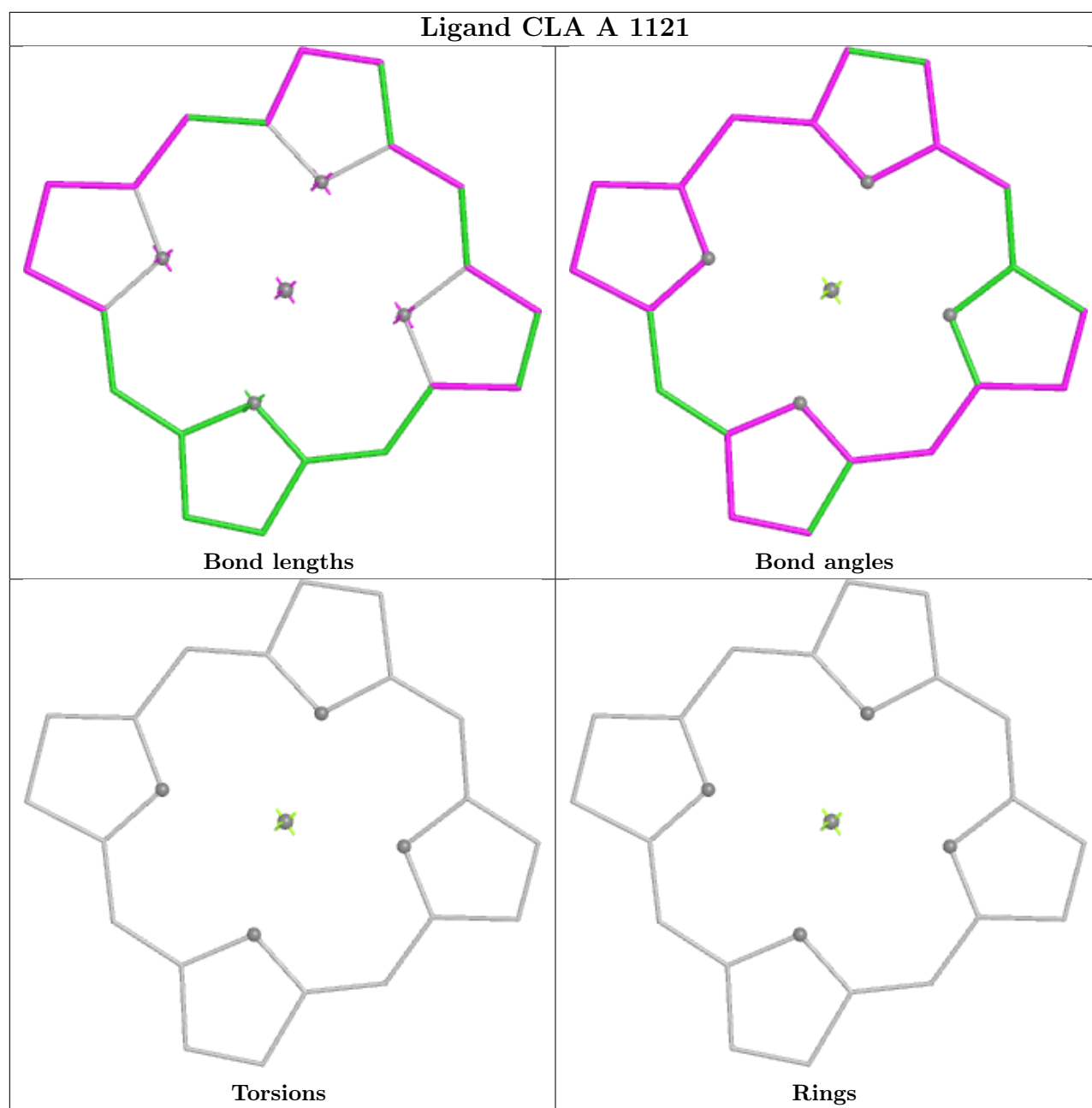
Bond angles



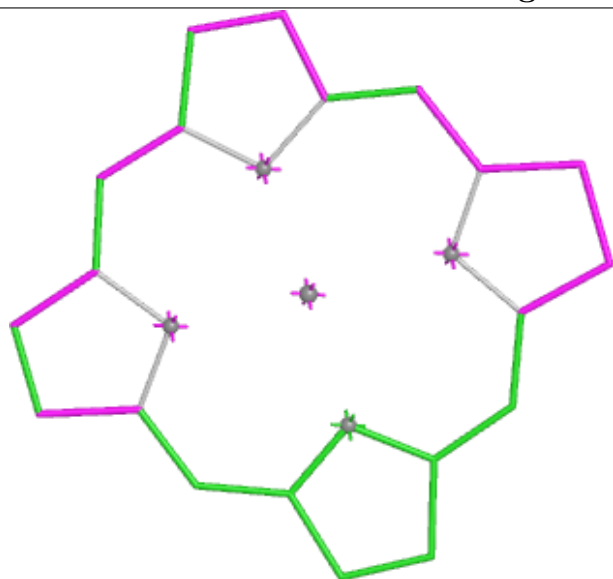
Torsions



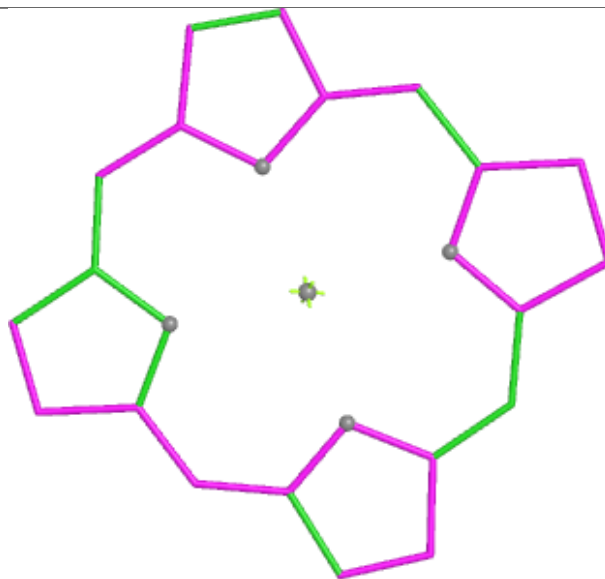
Rings



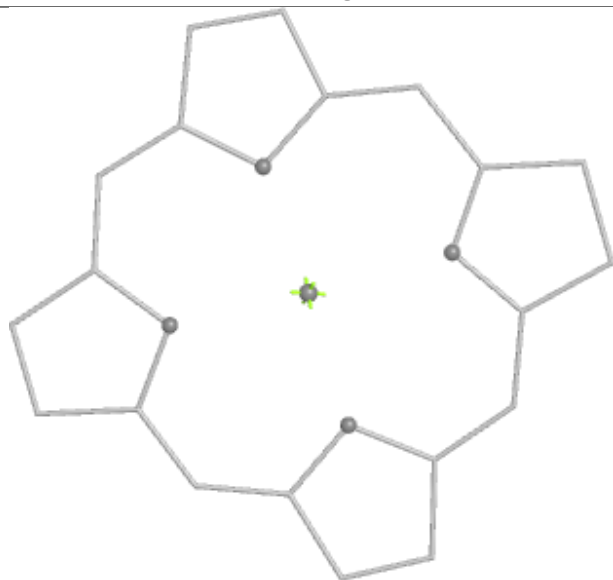
Ligand CLA 3 612



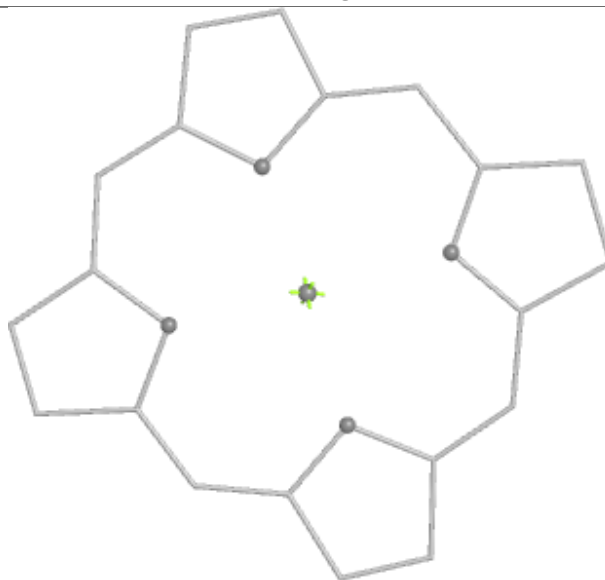
Bond lengths



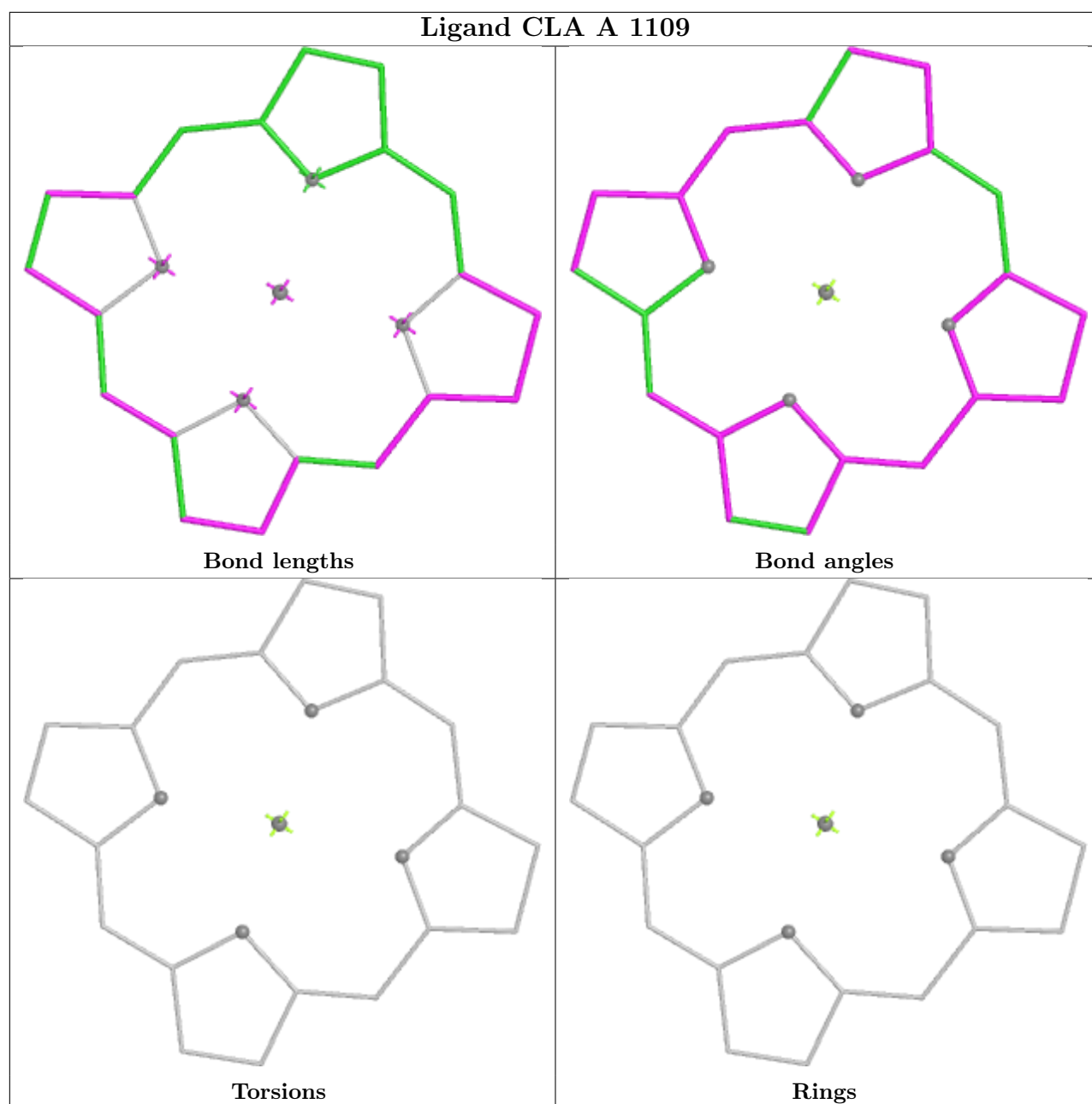
Bond angles



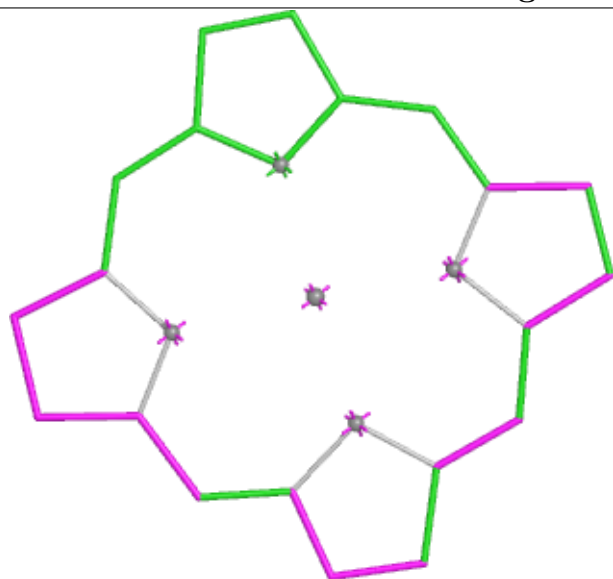
Torsions



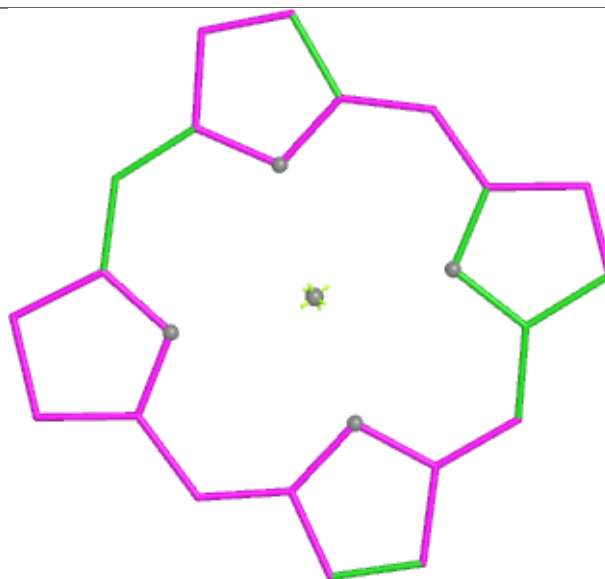
Rings



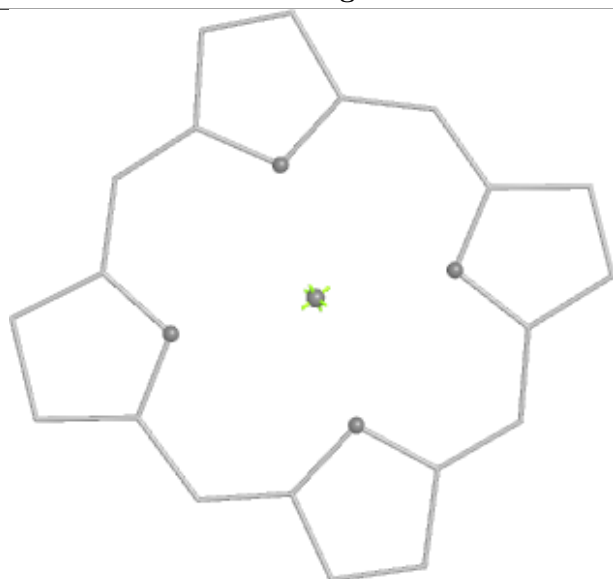
Ligand CLA 2 605



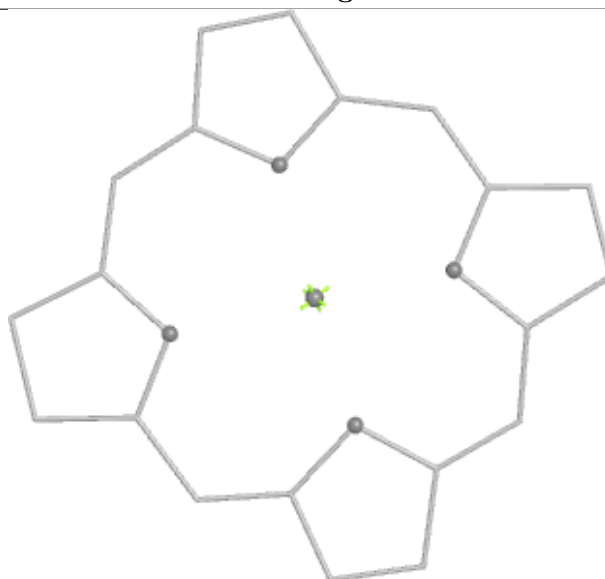
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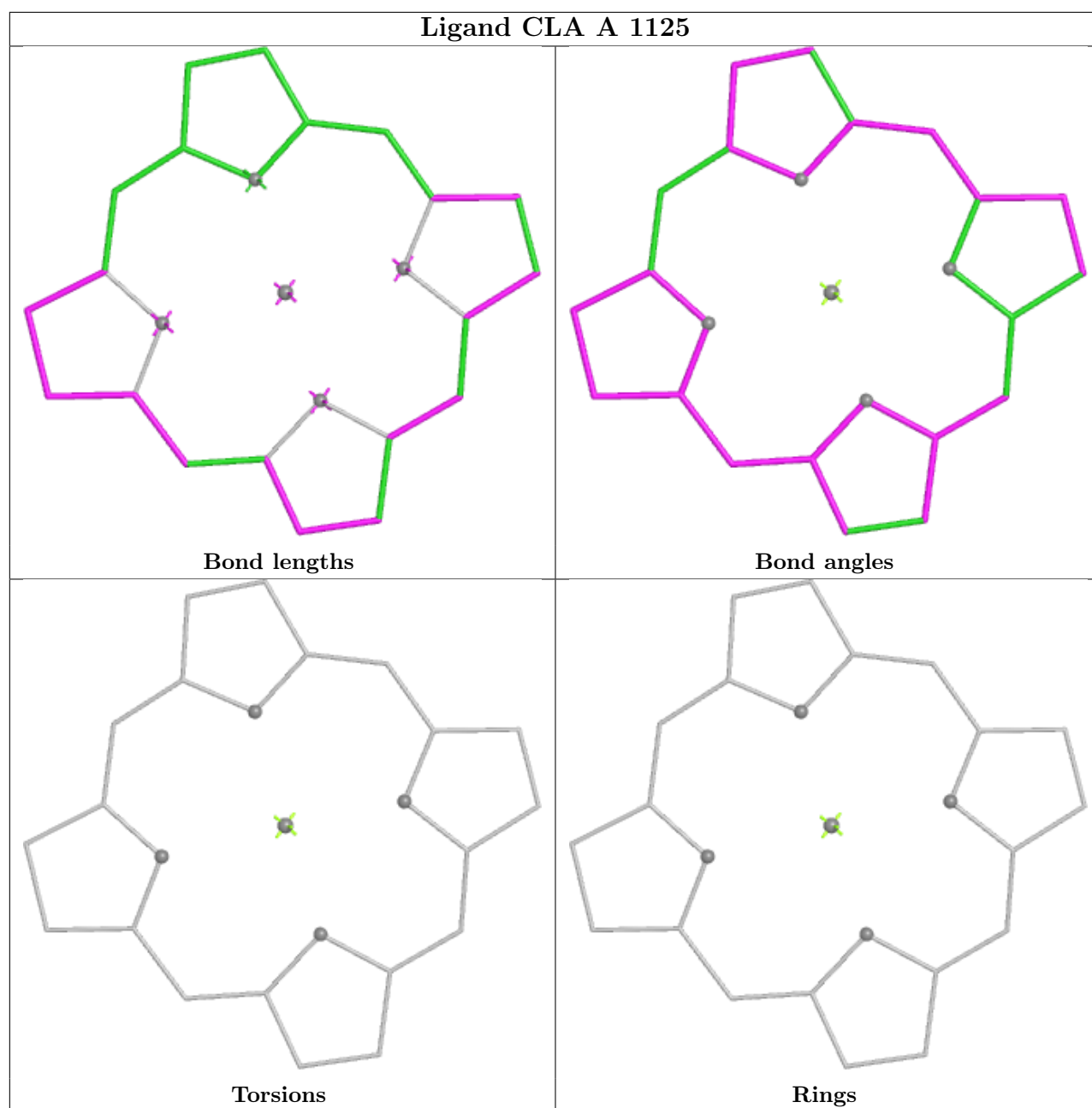
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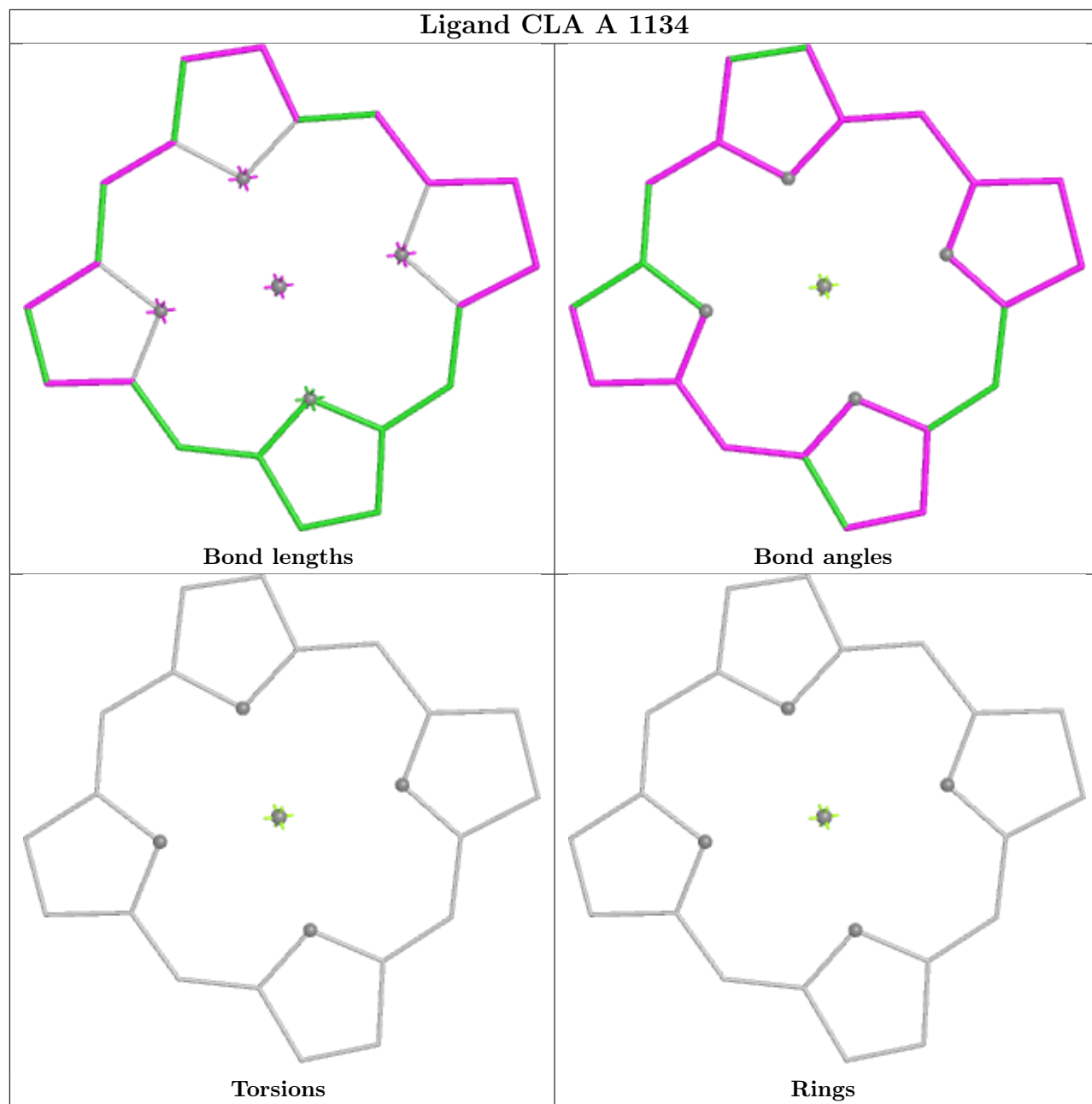


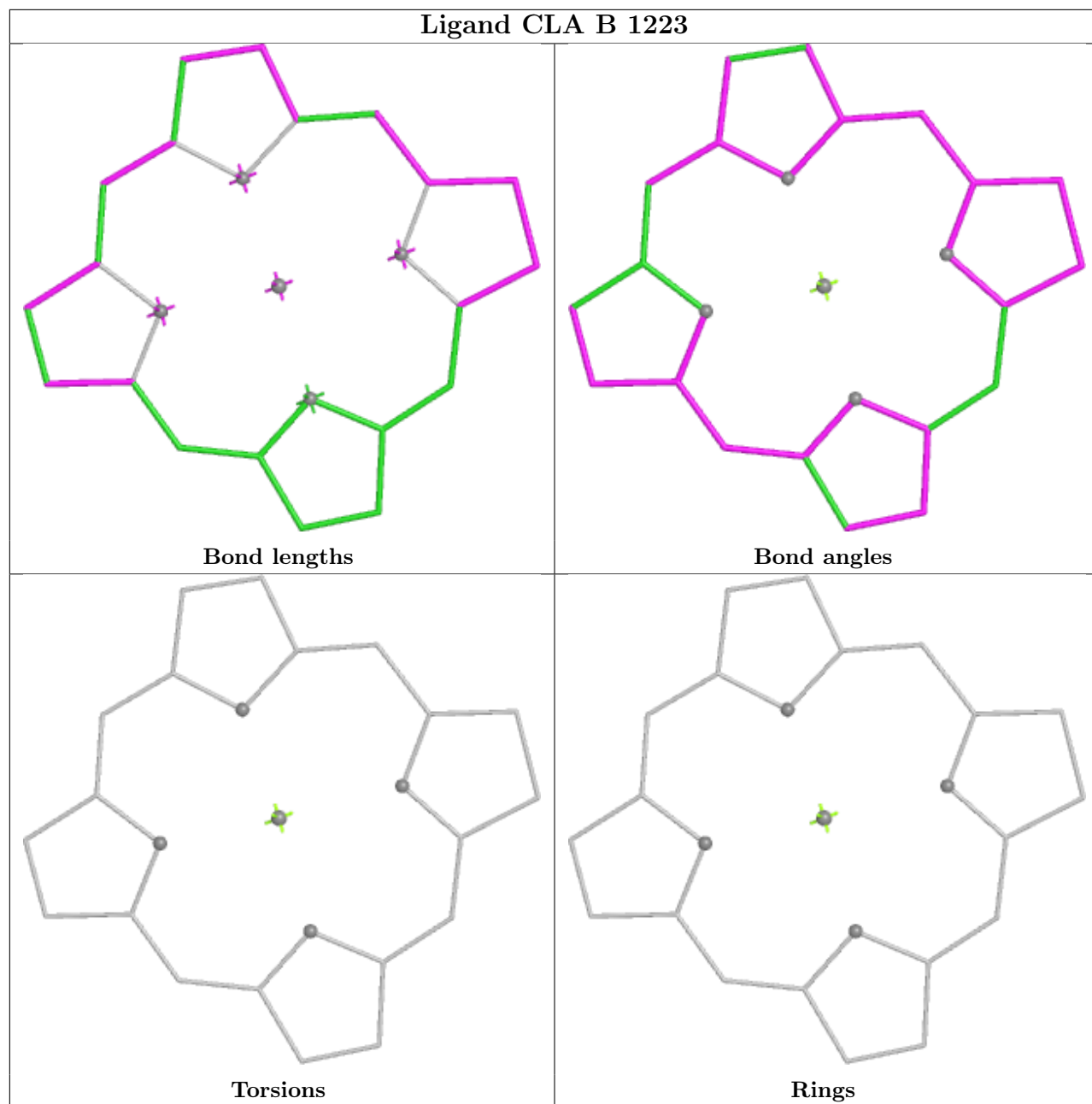
Torsions

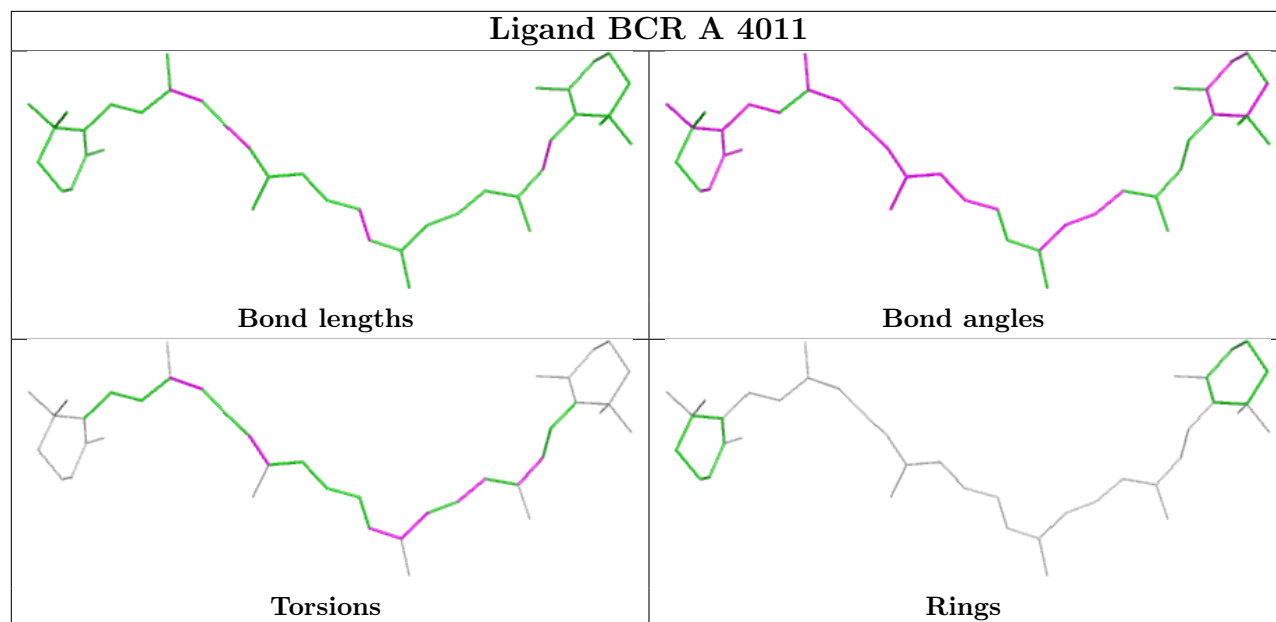


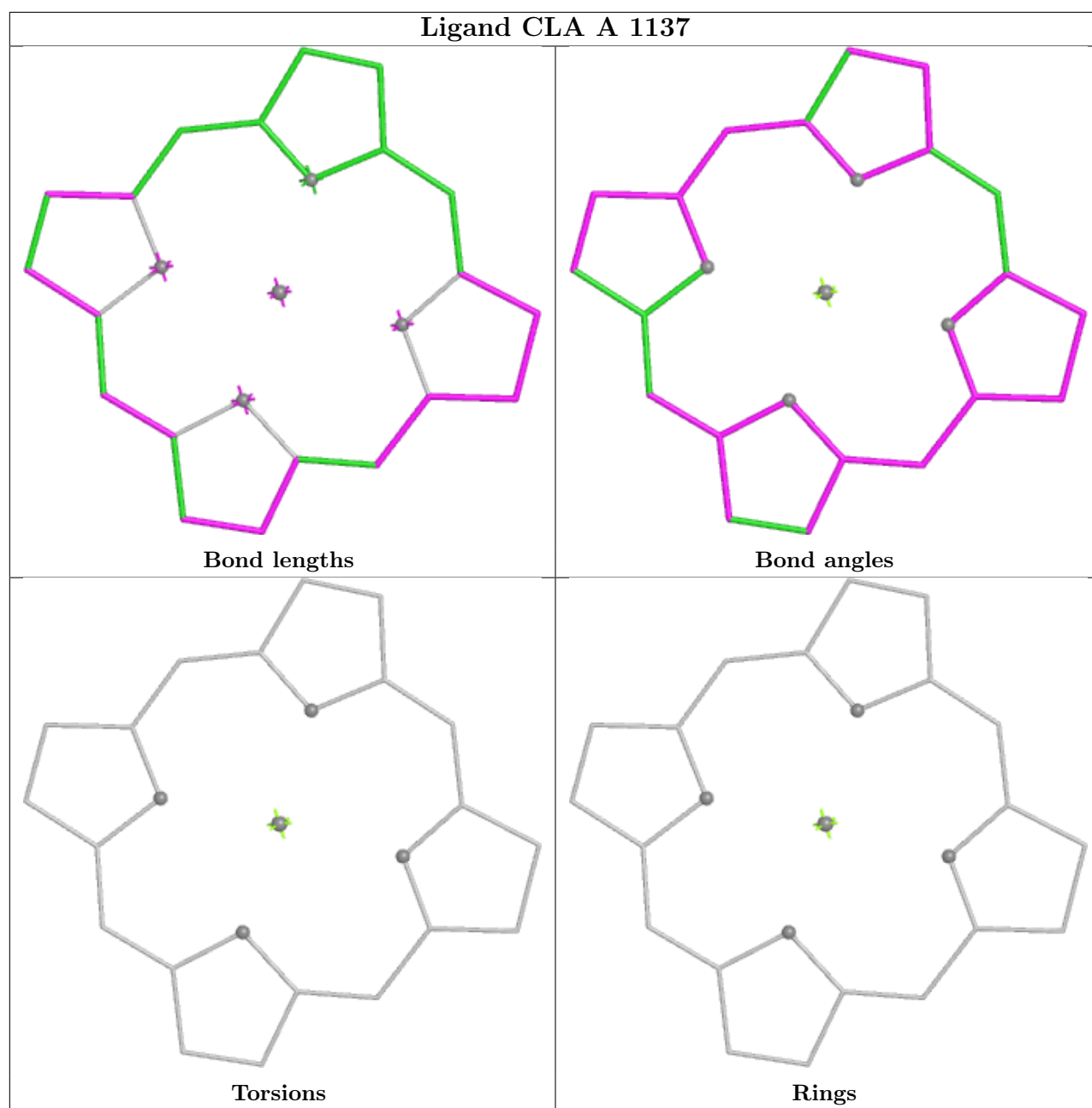
Rings

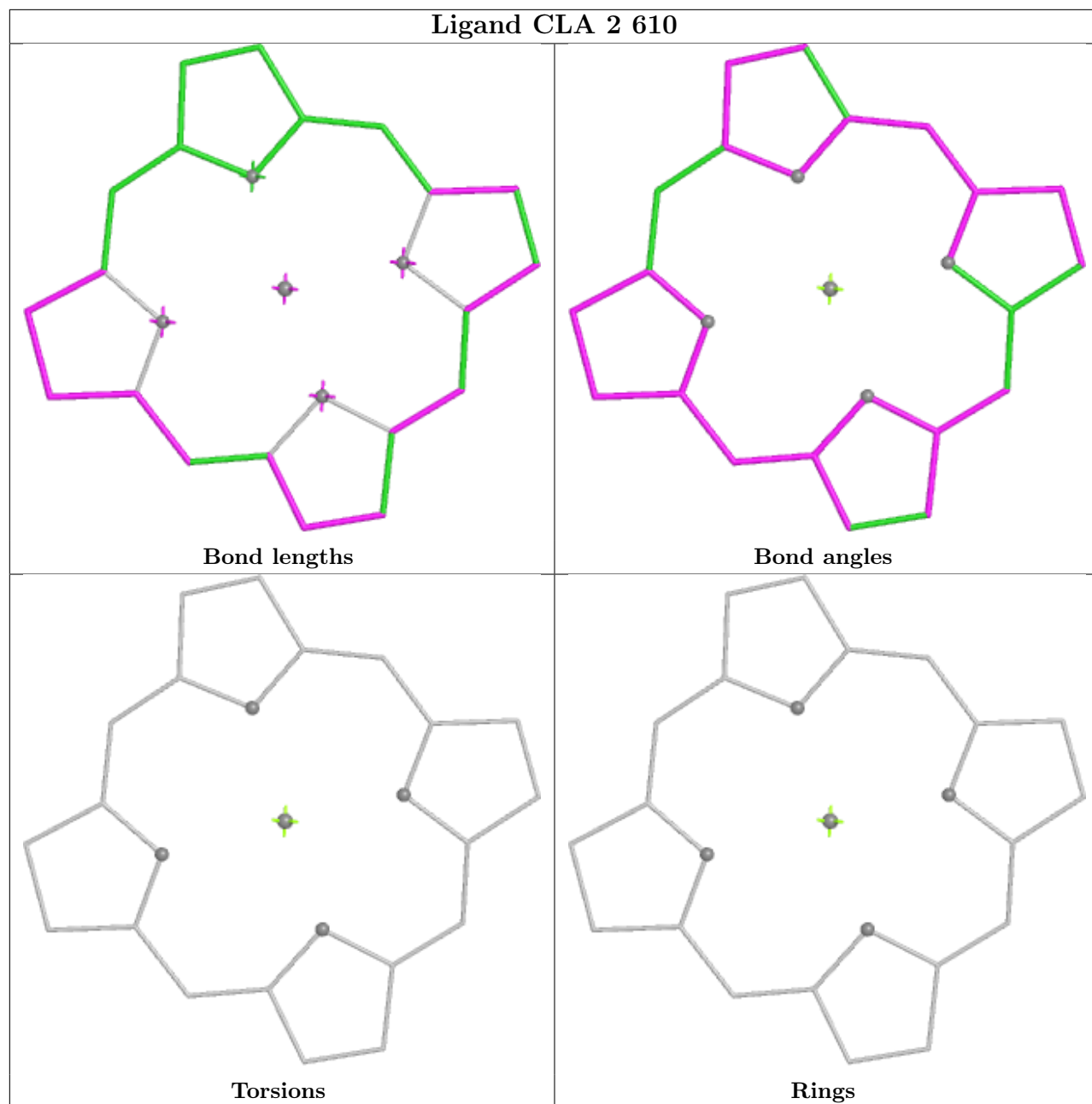




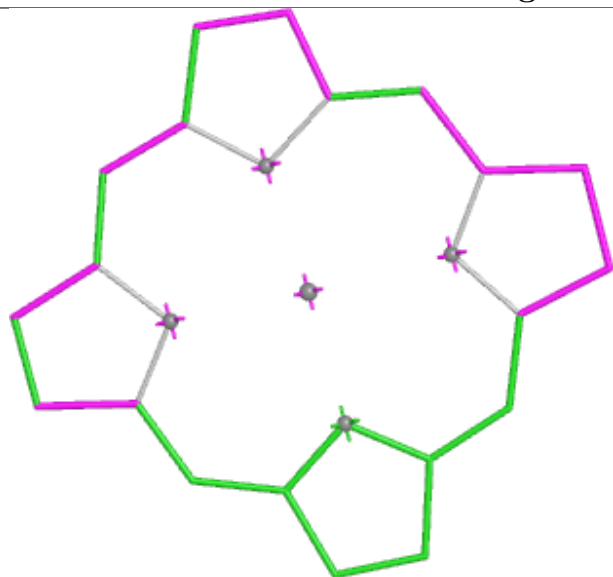




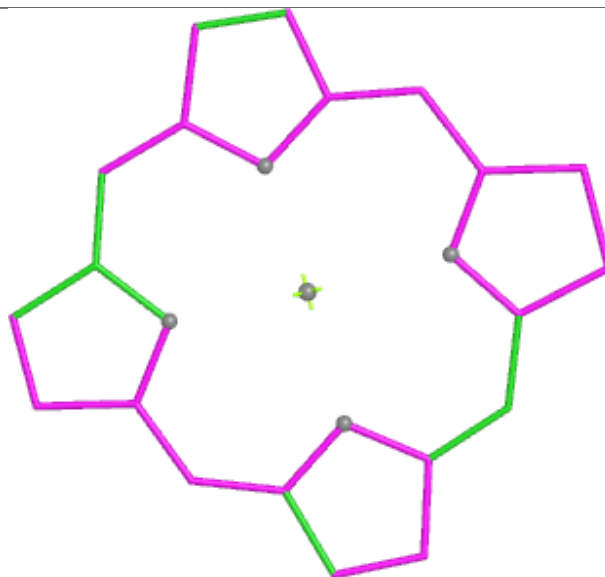




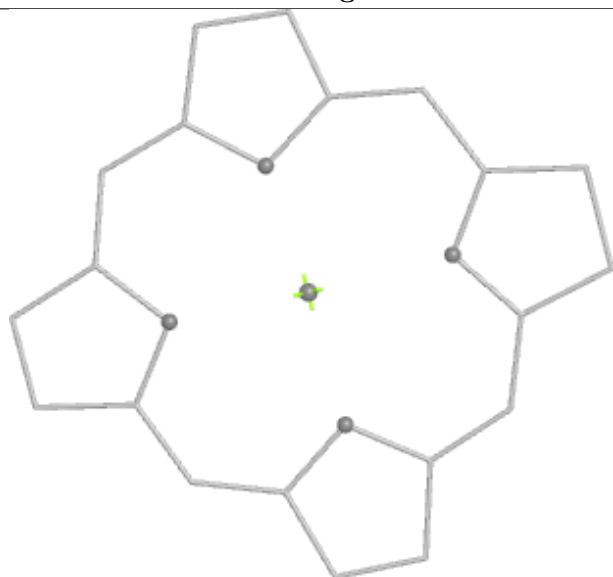
Ligand CLA 2 604



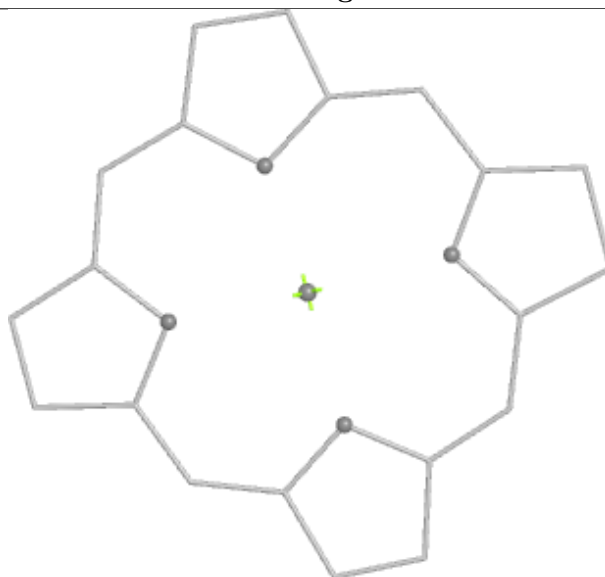
Bond lengths



Bond angles

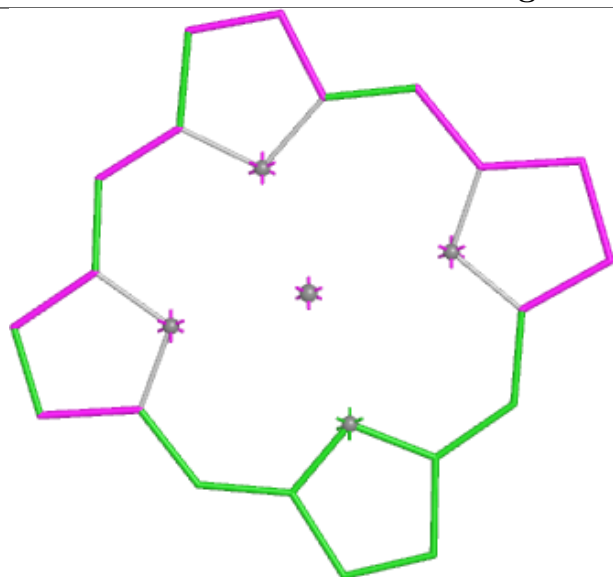


Torsions

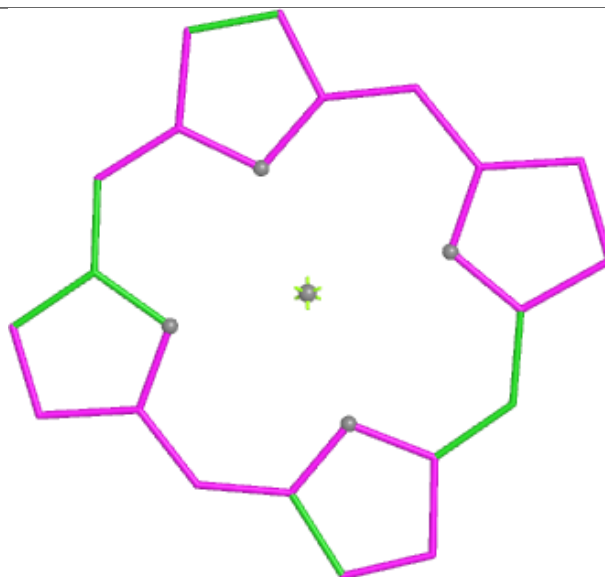


Rings

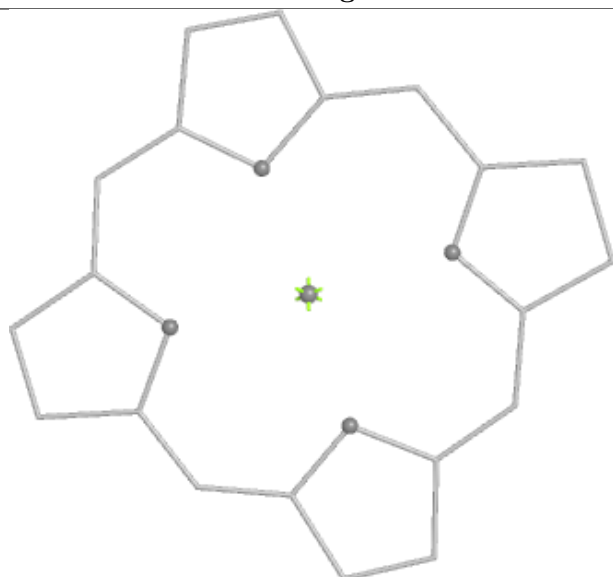
Ligand CLA 3 606



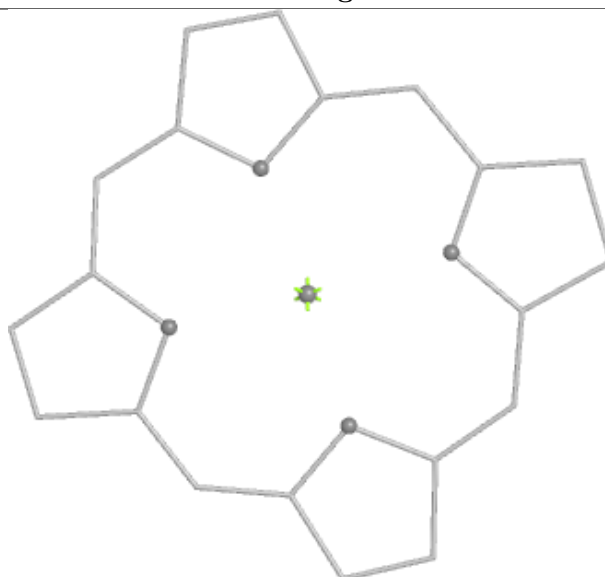
Bond lengths



Bond angles

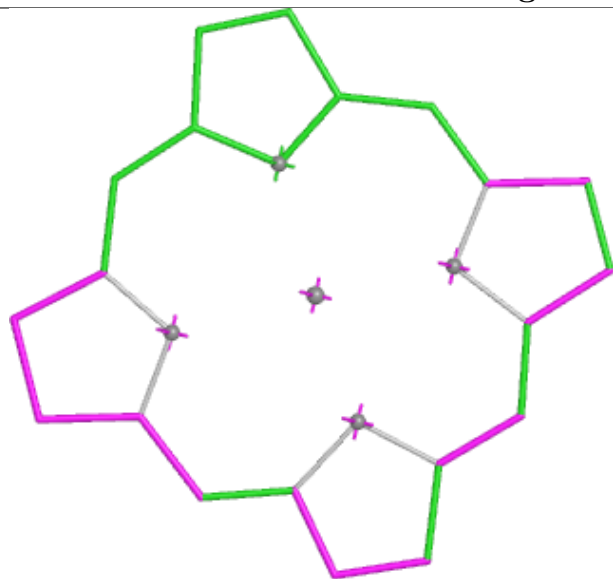


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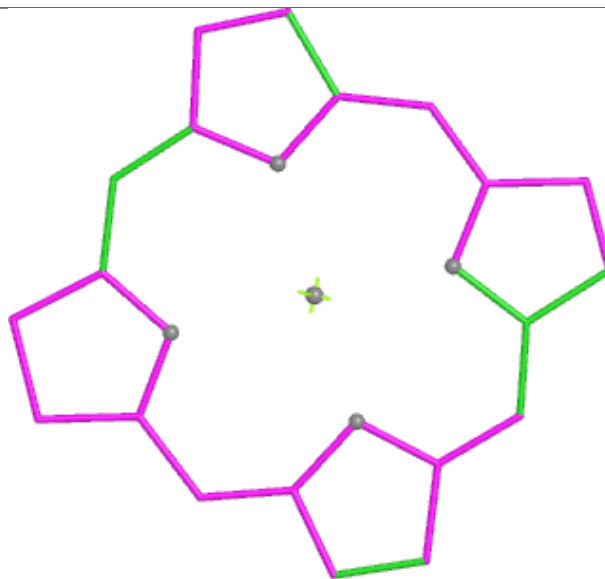


Rings

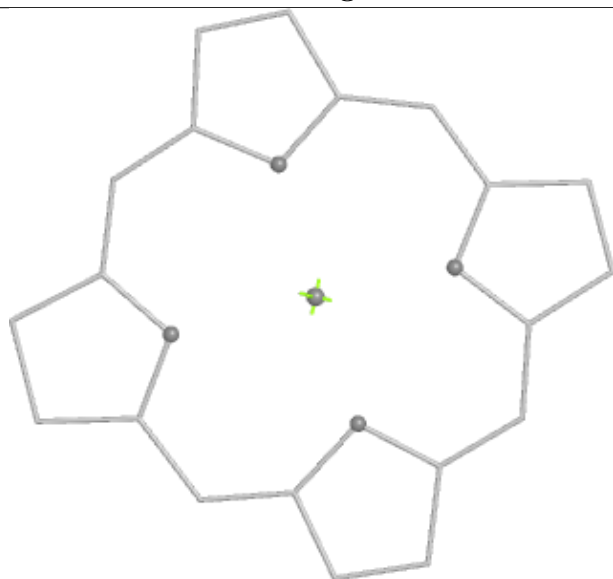
Ligand CLA 3 611



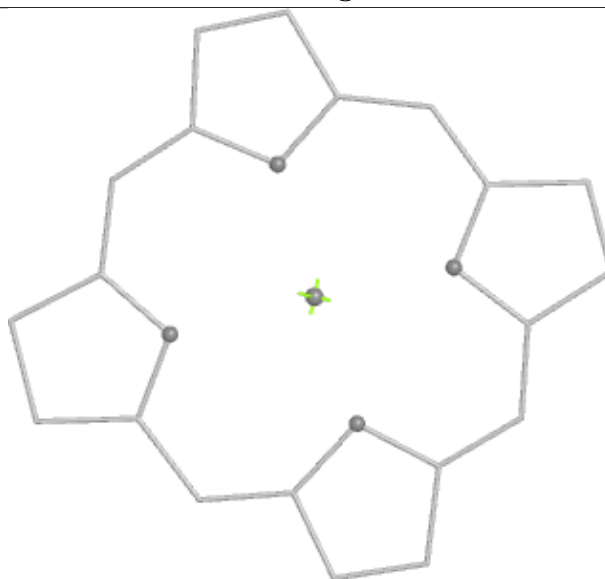
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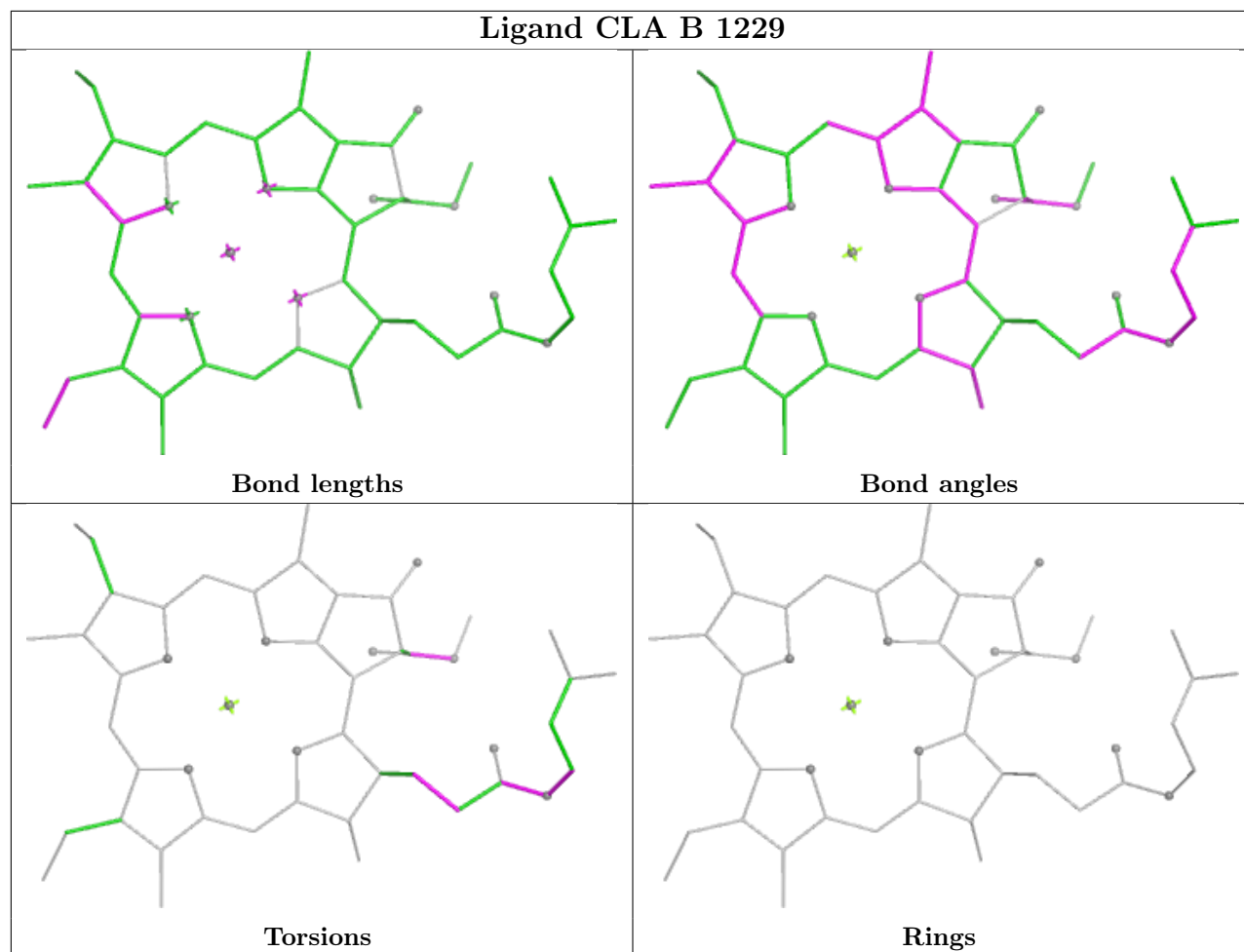
Bond angles

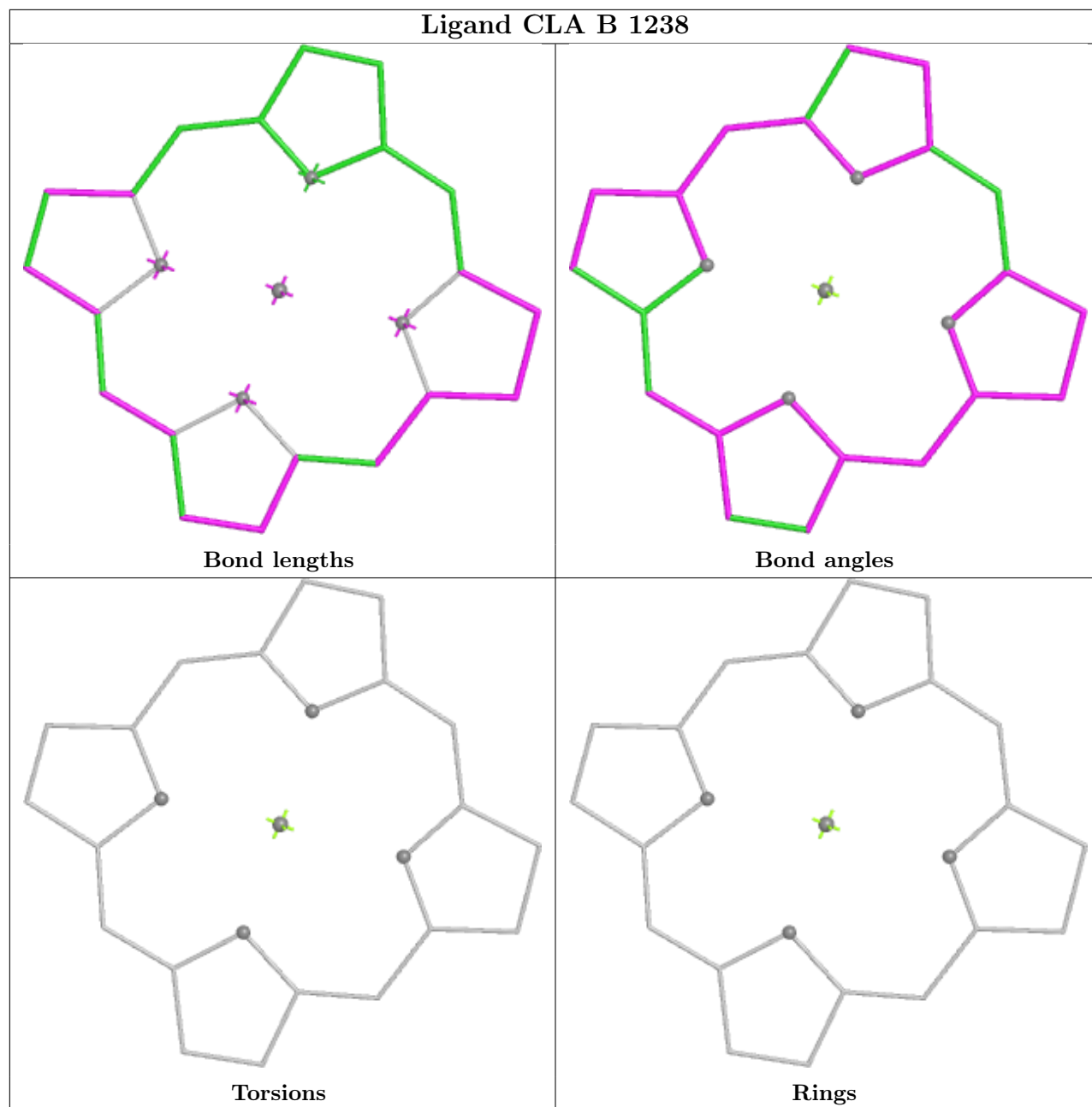


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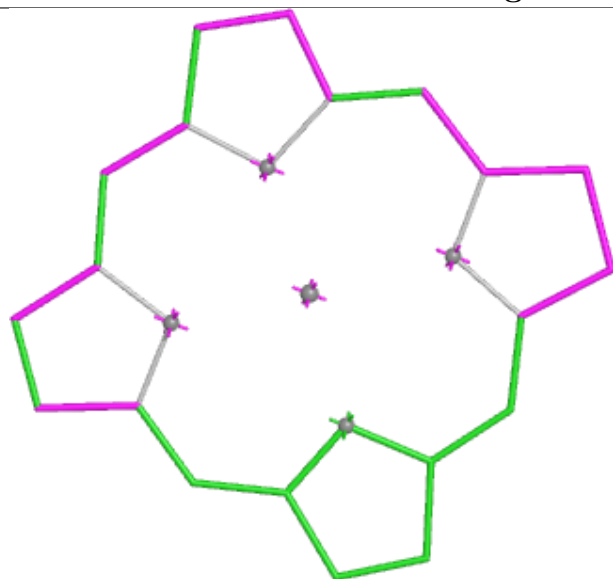


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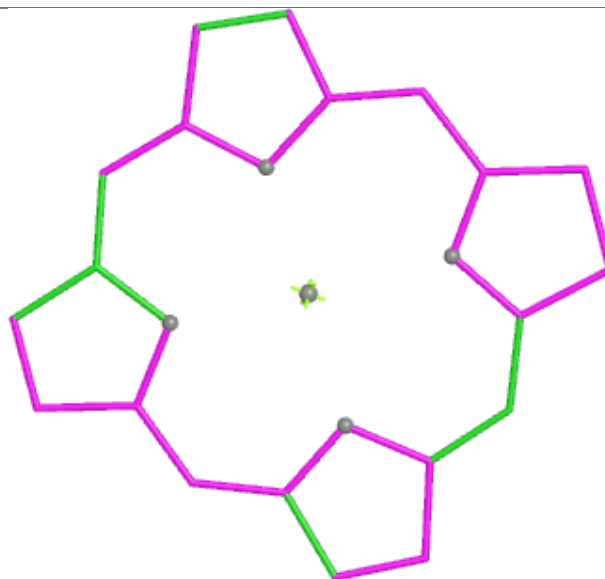




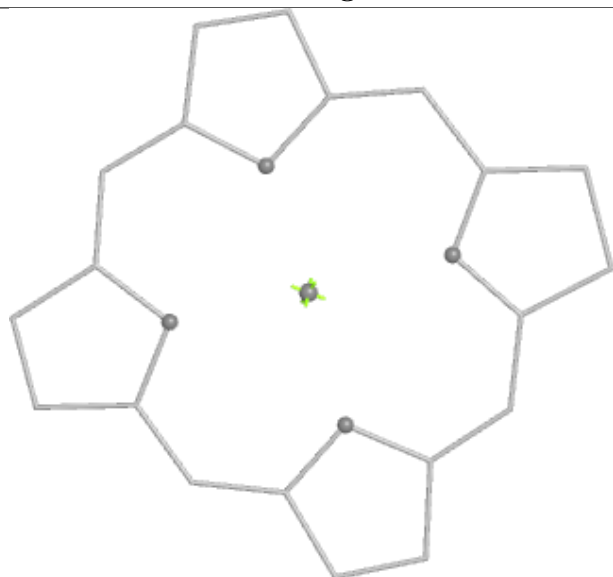
Ligand CLA A 1133



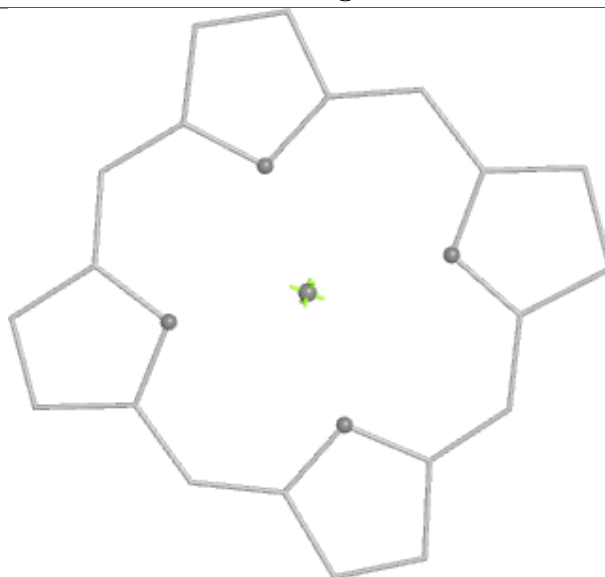
Bond lengths



Bond angles

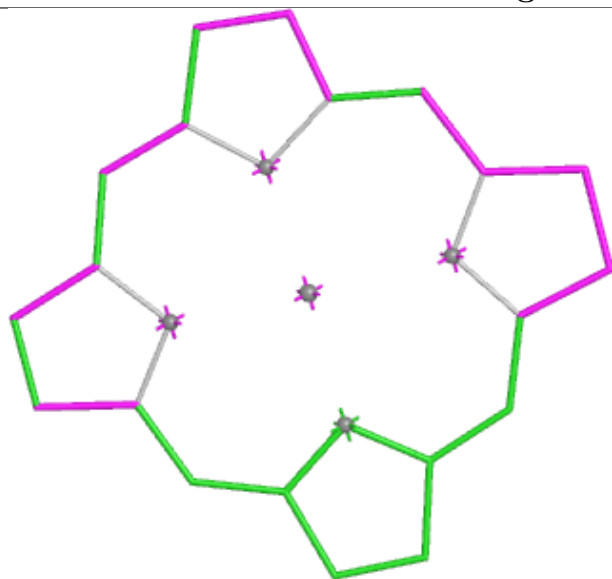


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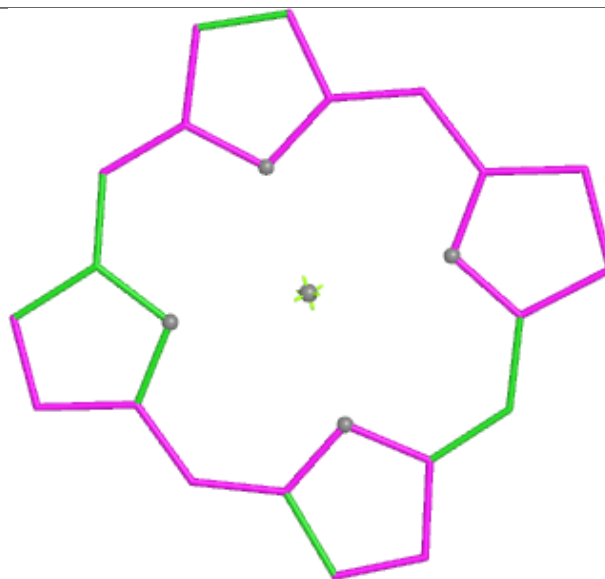


Rings

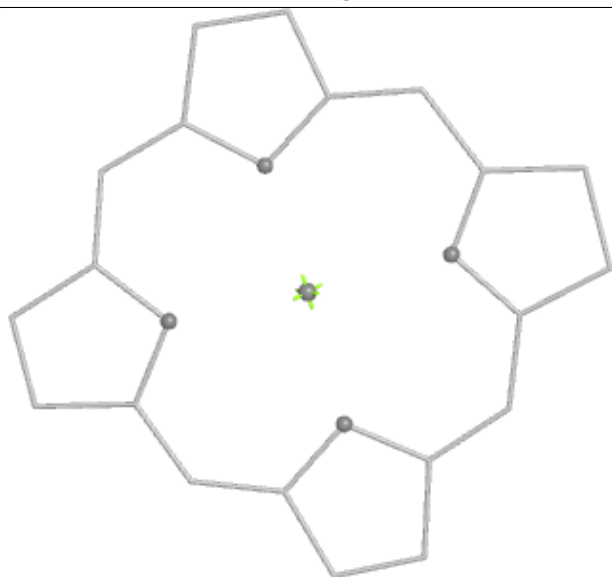
Ligand CLA 2 615



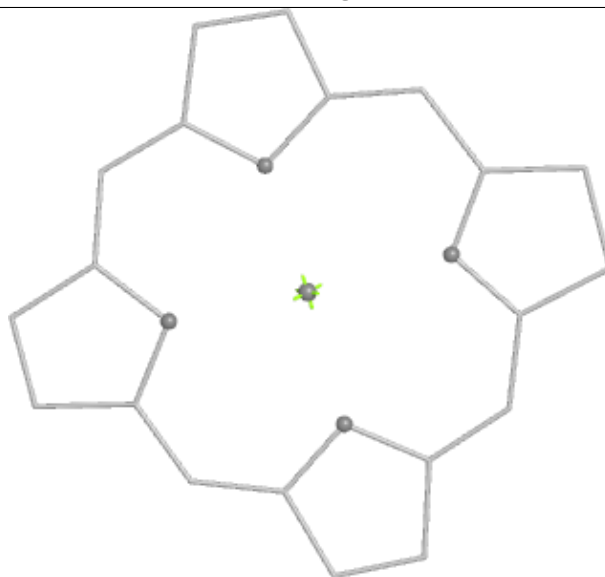
Bond lengths



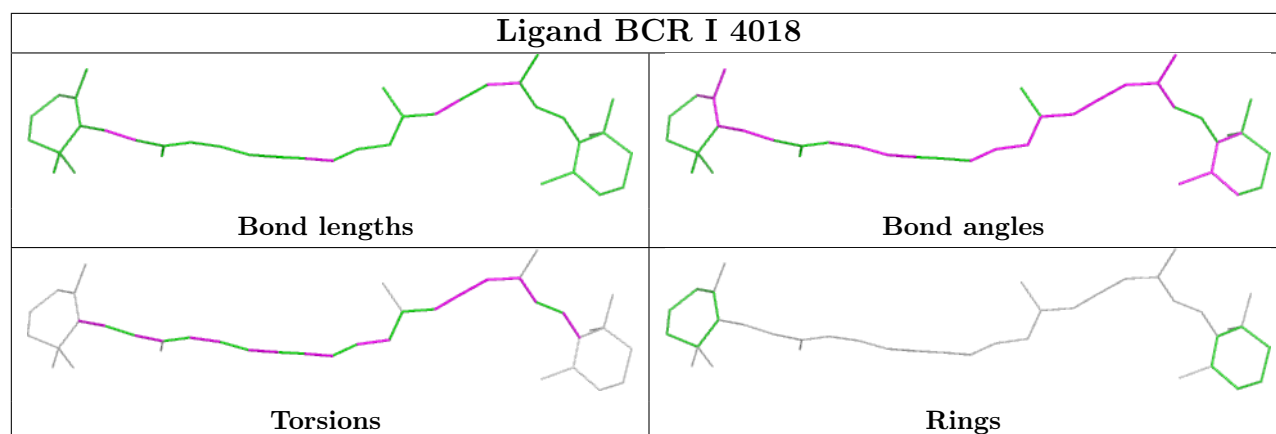
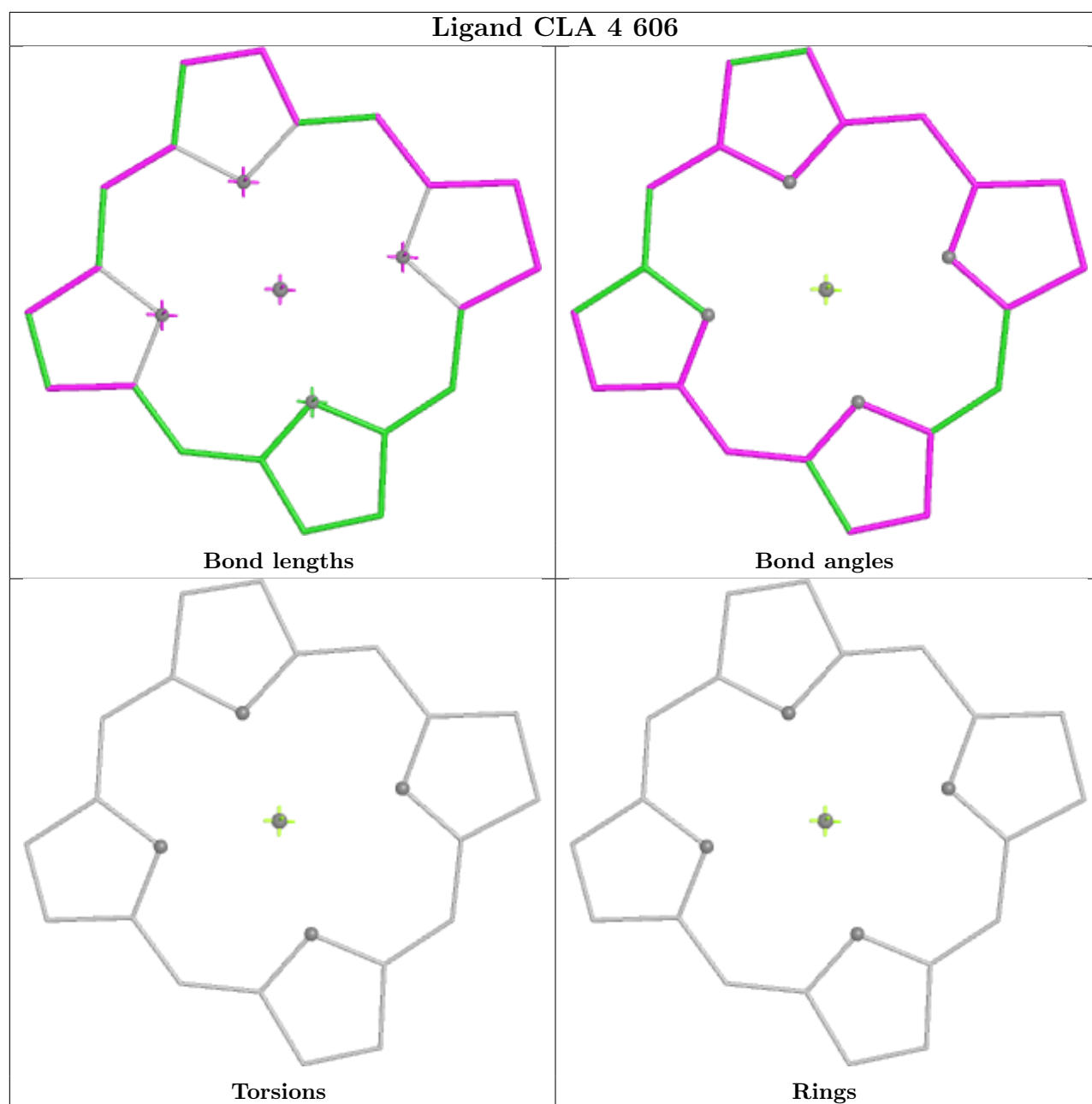
Bond angles



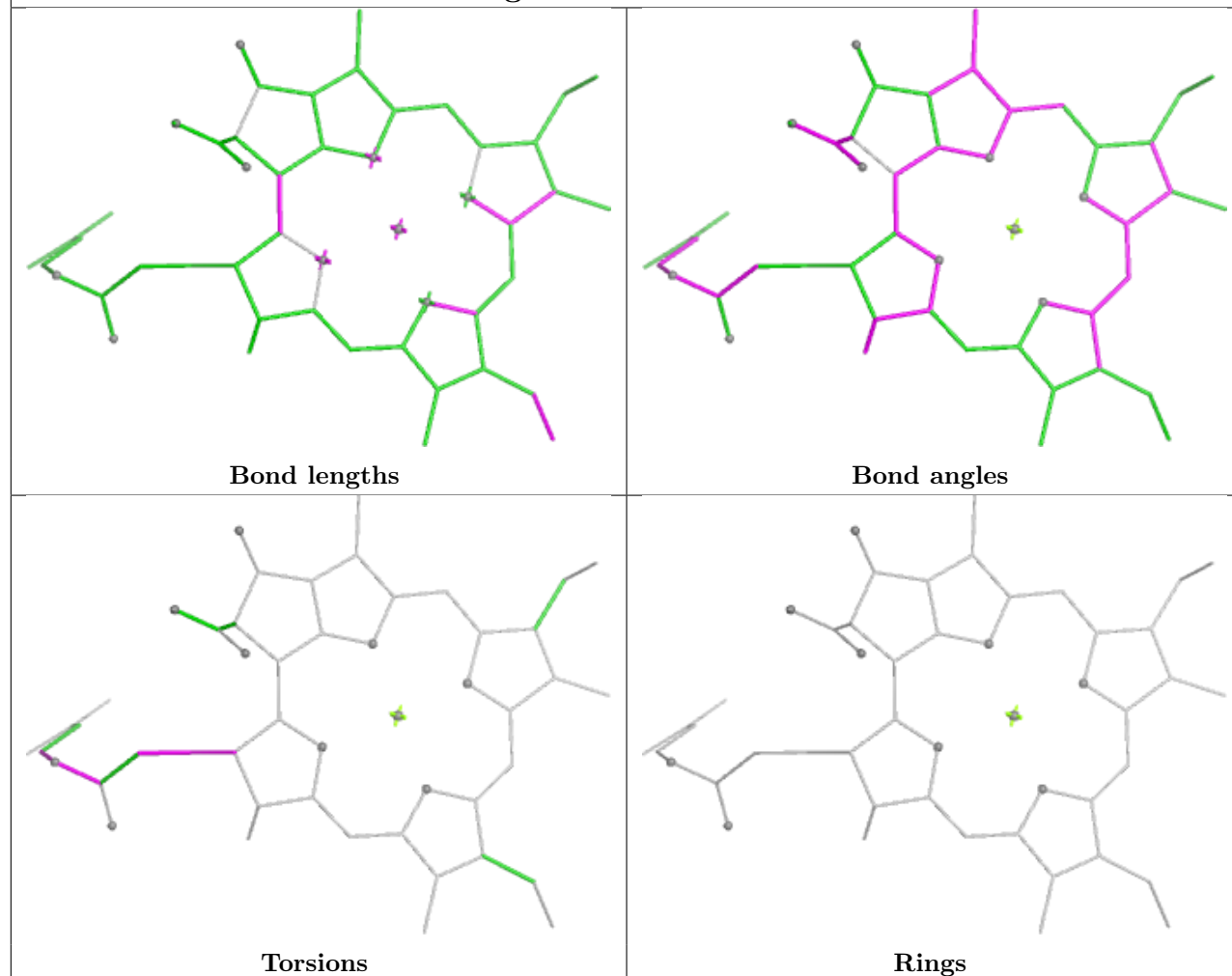
Torsions



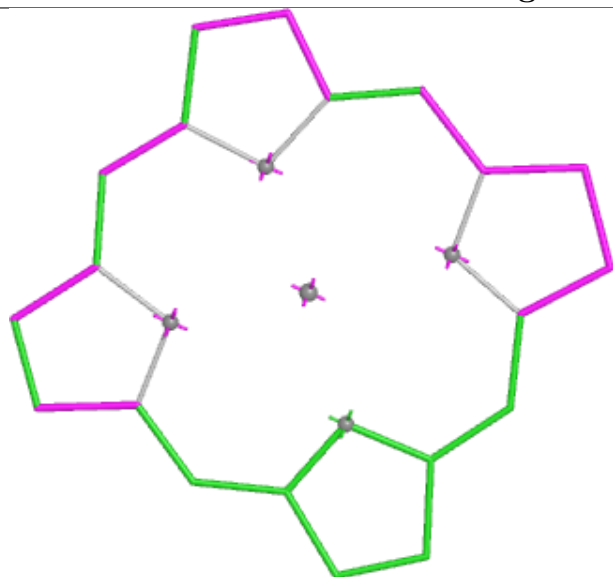
Rings



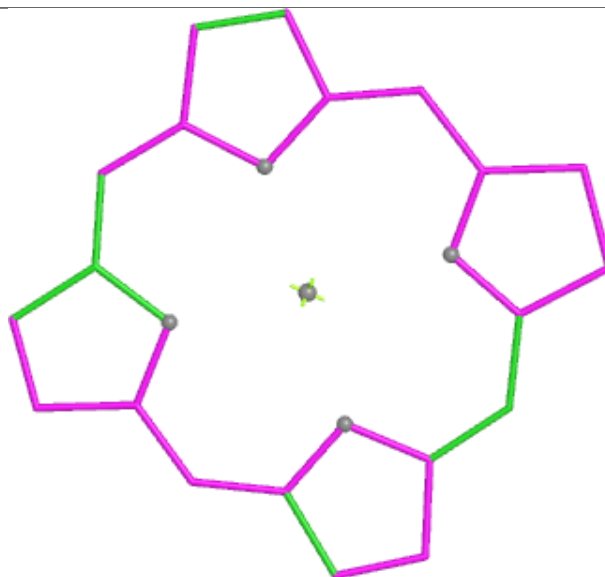
Ligand CLA A 1011



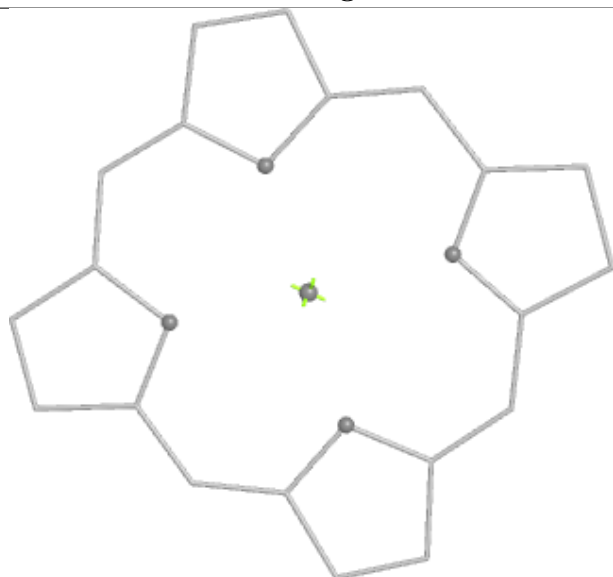
Ligand CLA 3 614



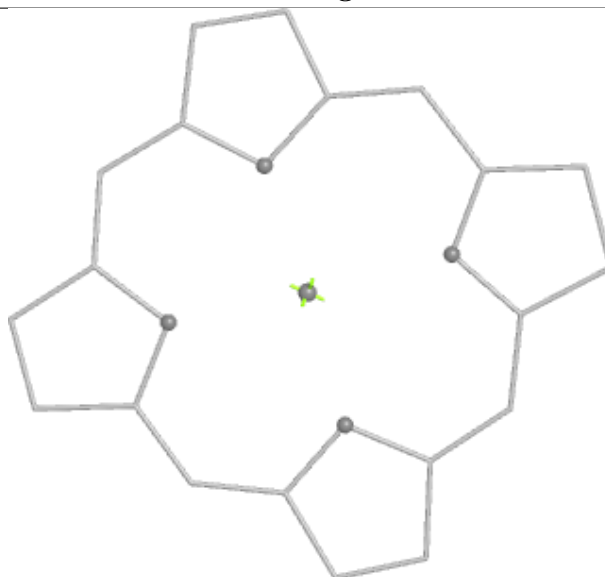
Bond lengths



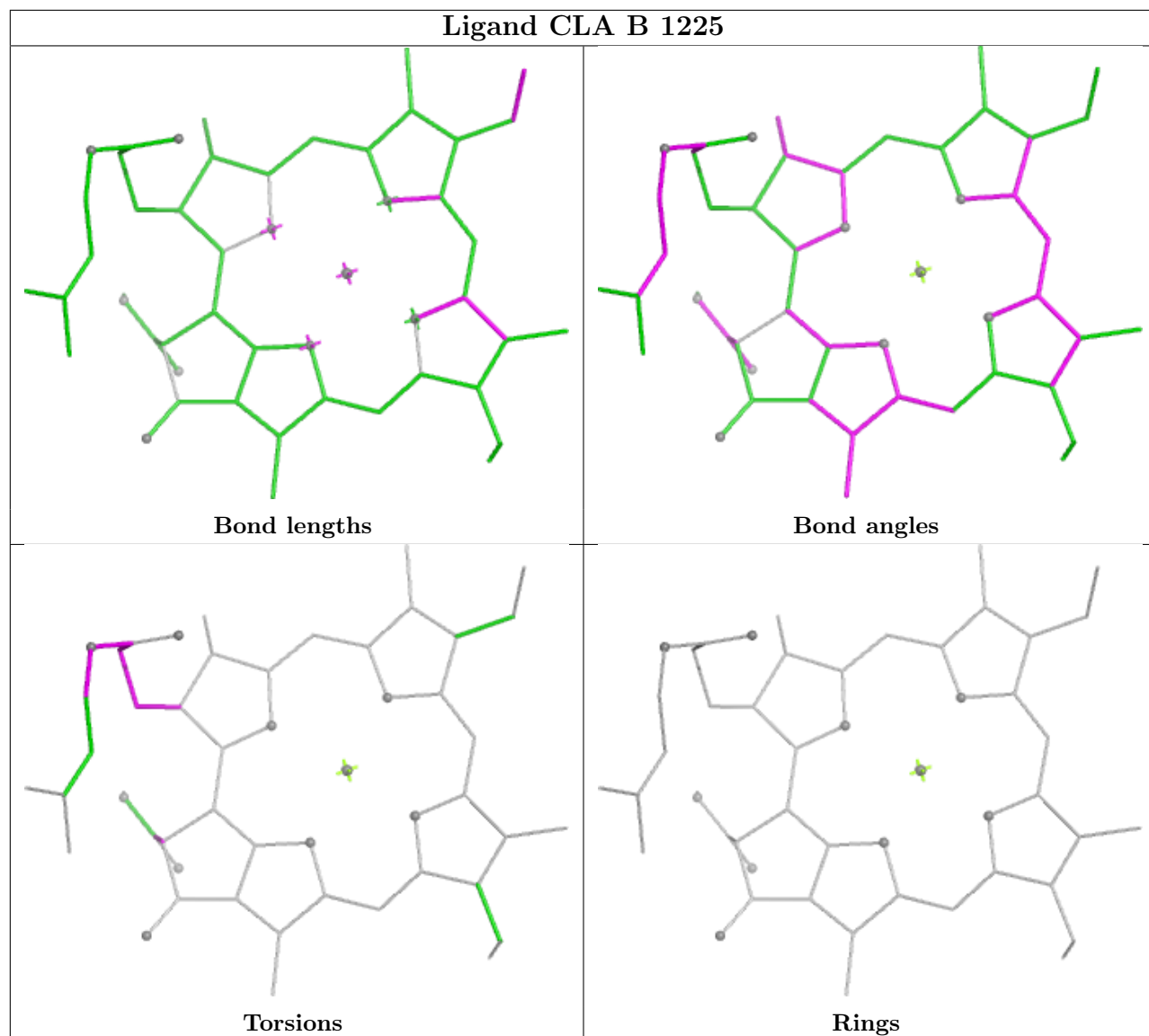
Bond angles

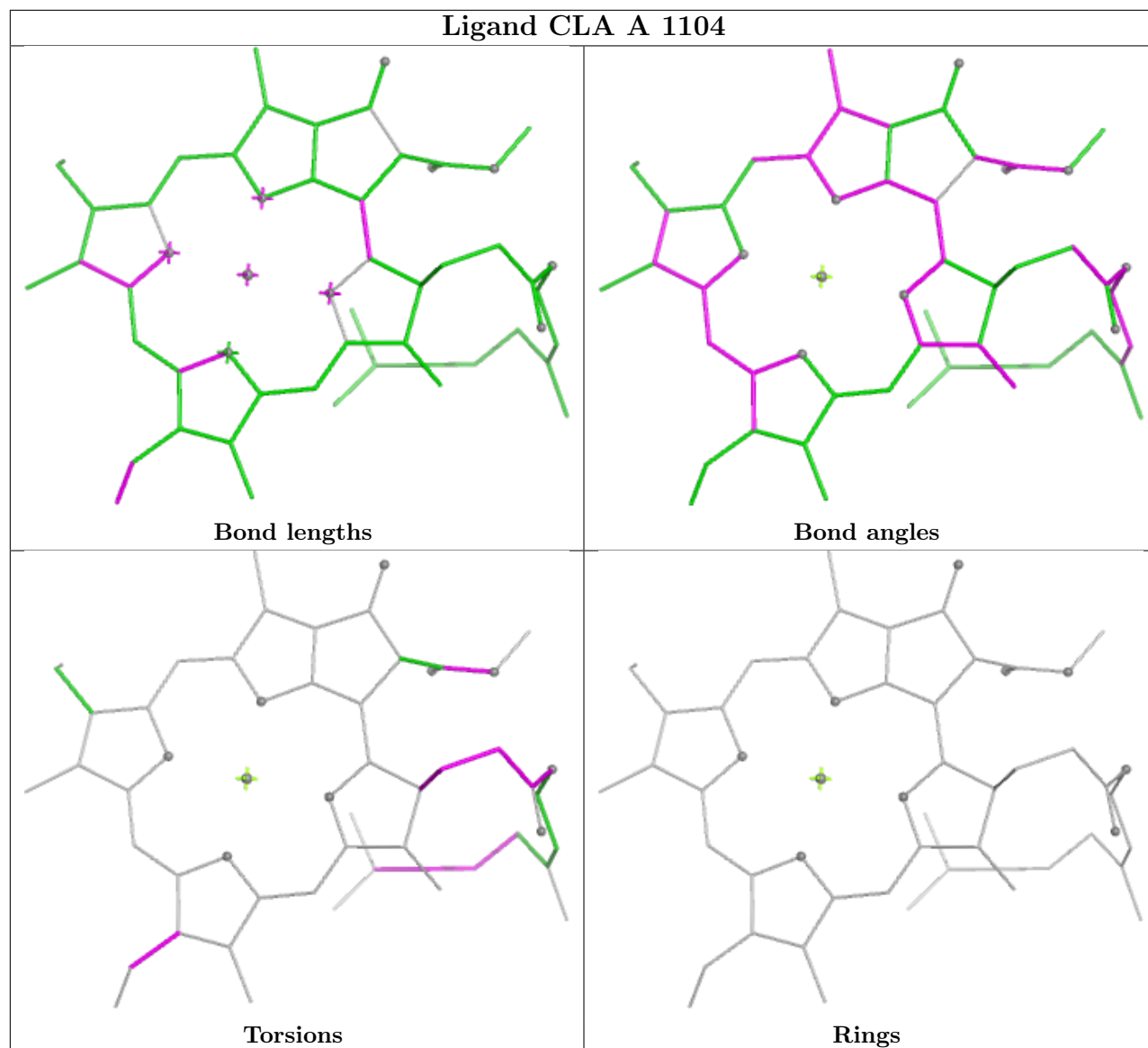


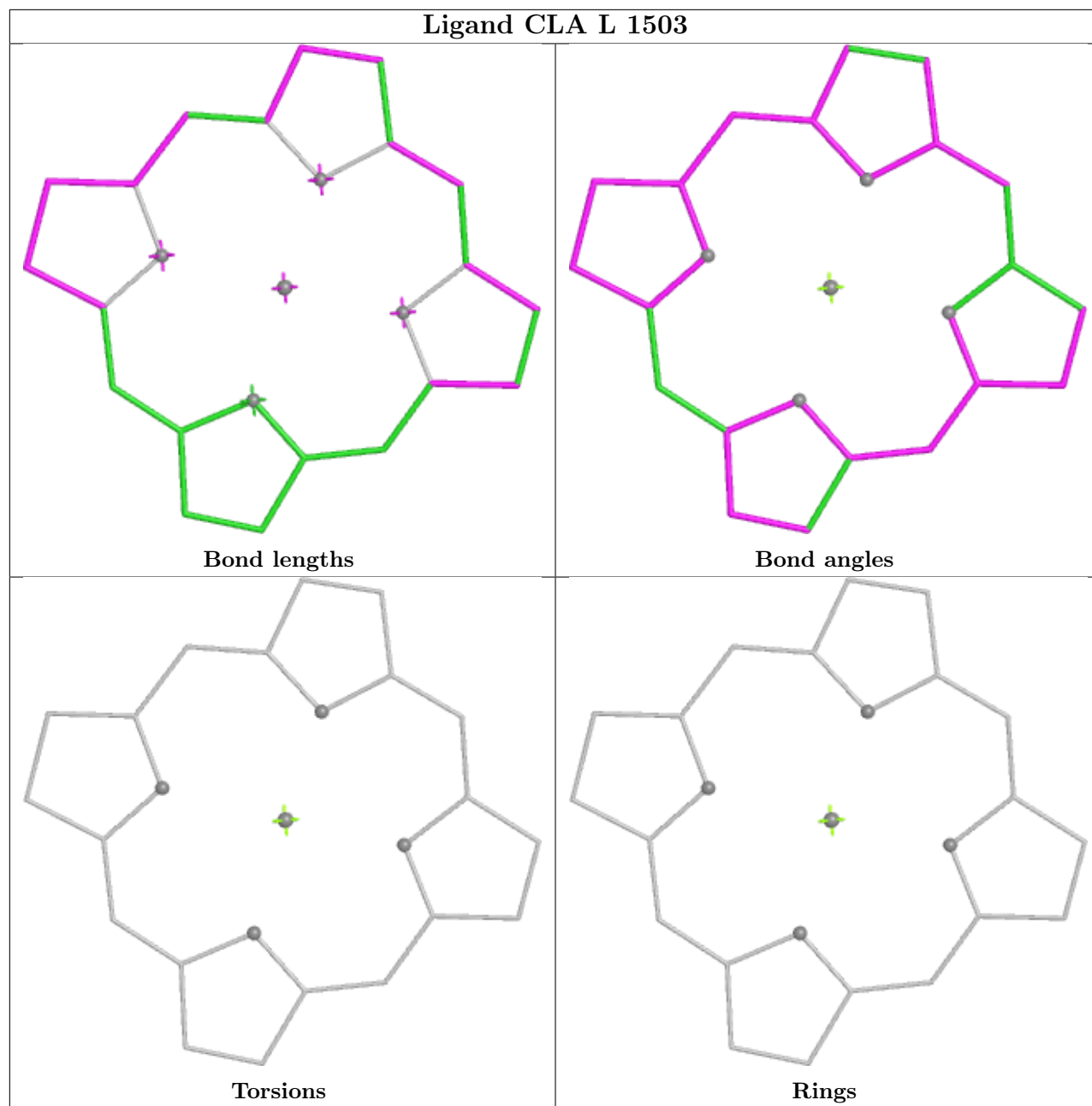
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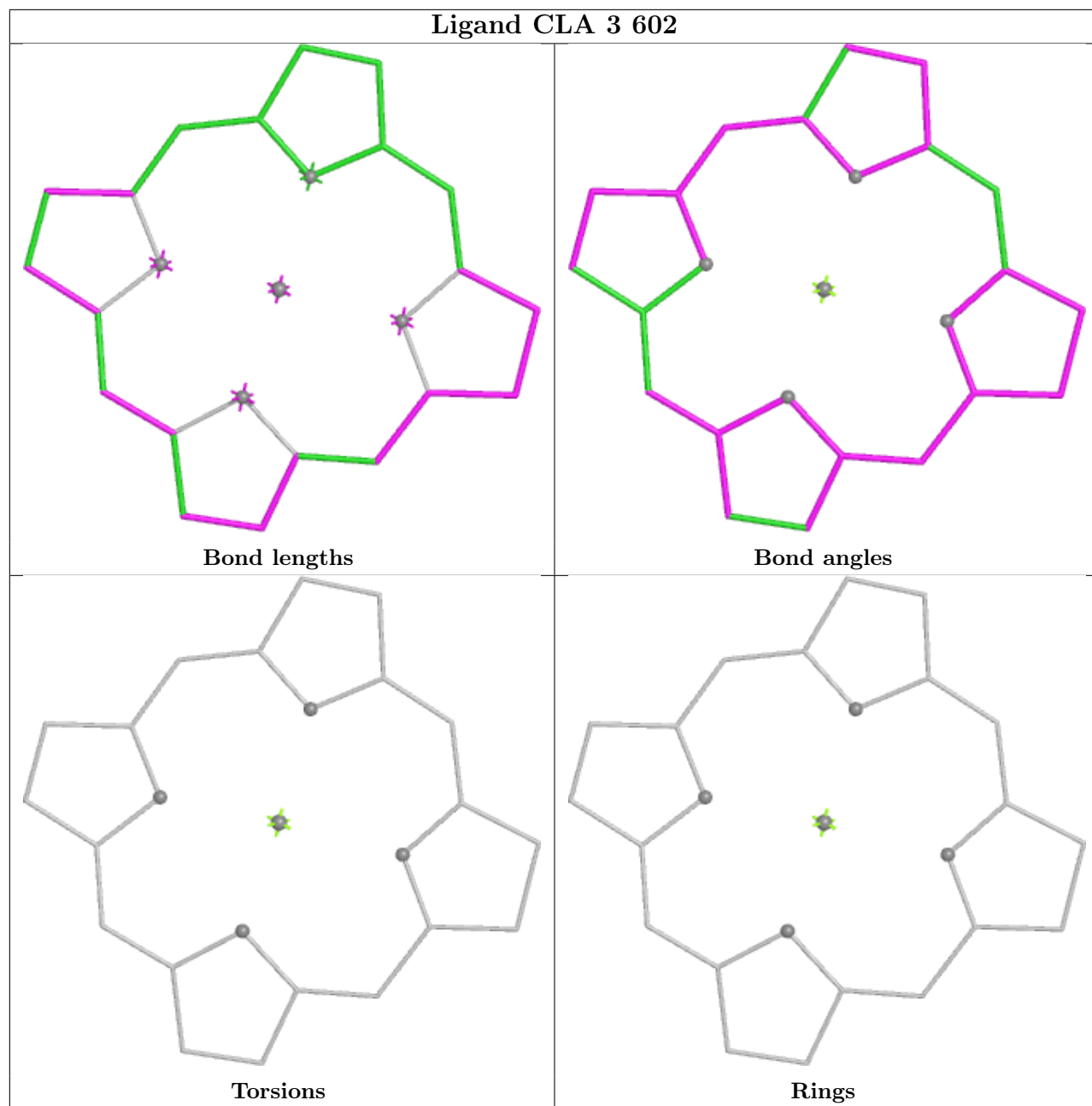
Rings



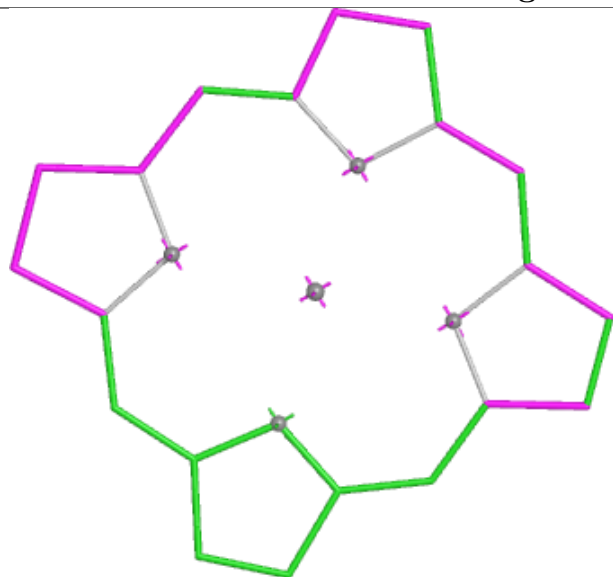




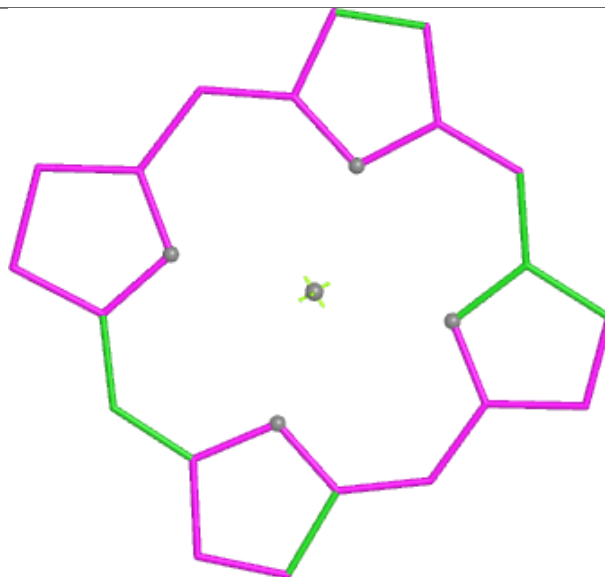
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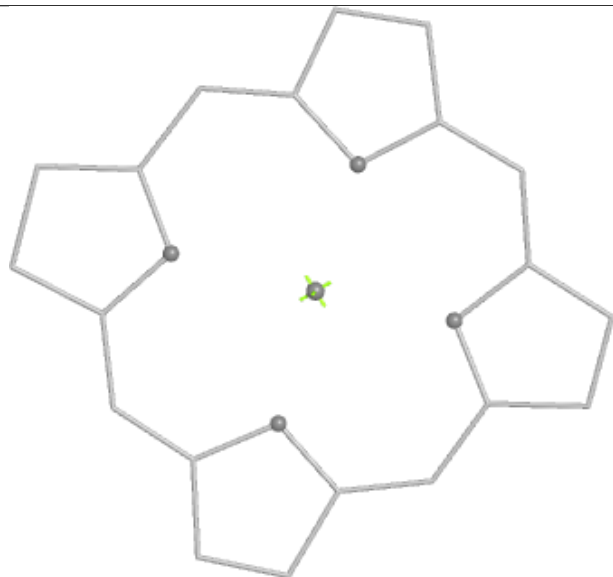
Ligand CLA 2 608



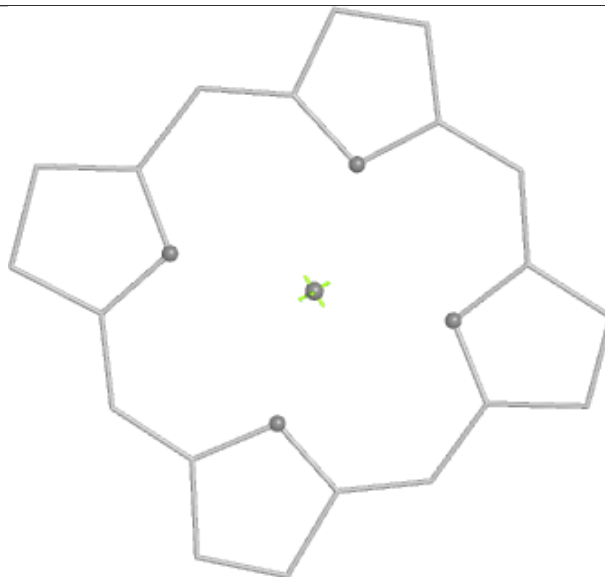
Bond lengths



Bond angles

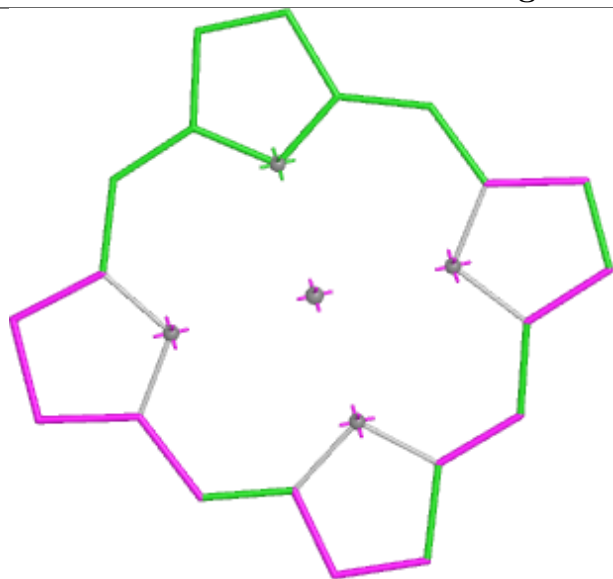


Torsions

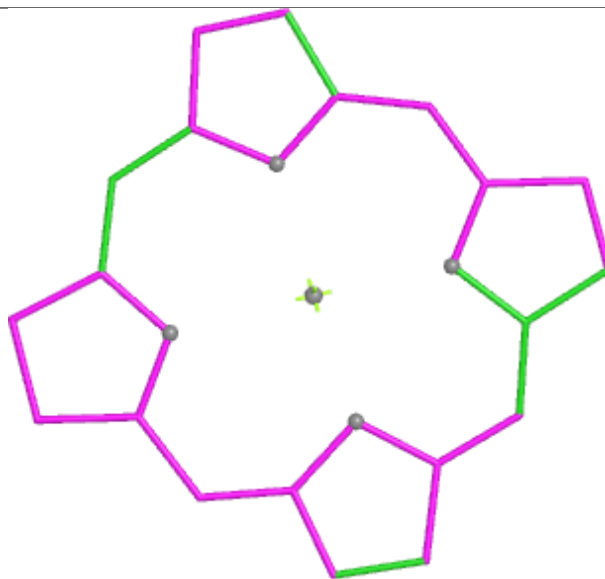


Rings

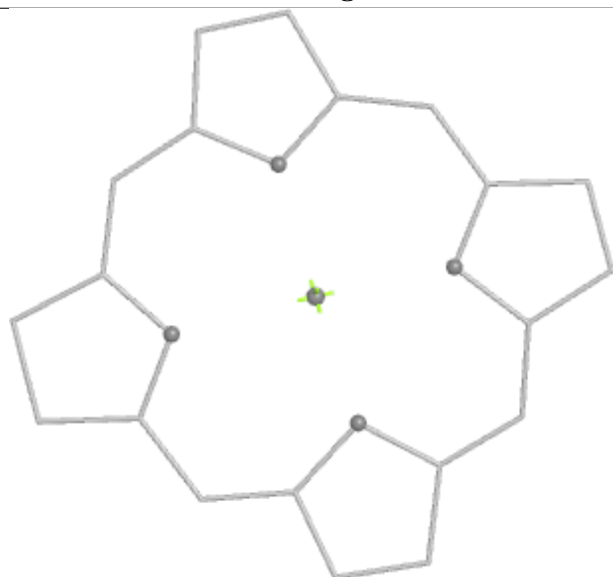
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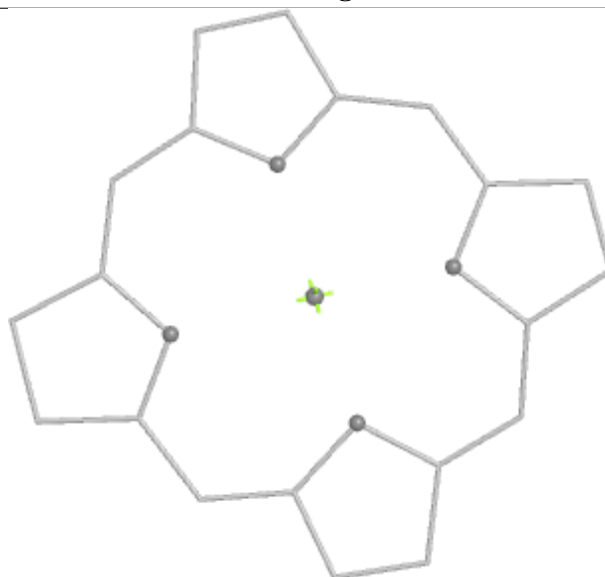
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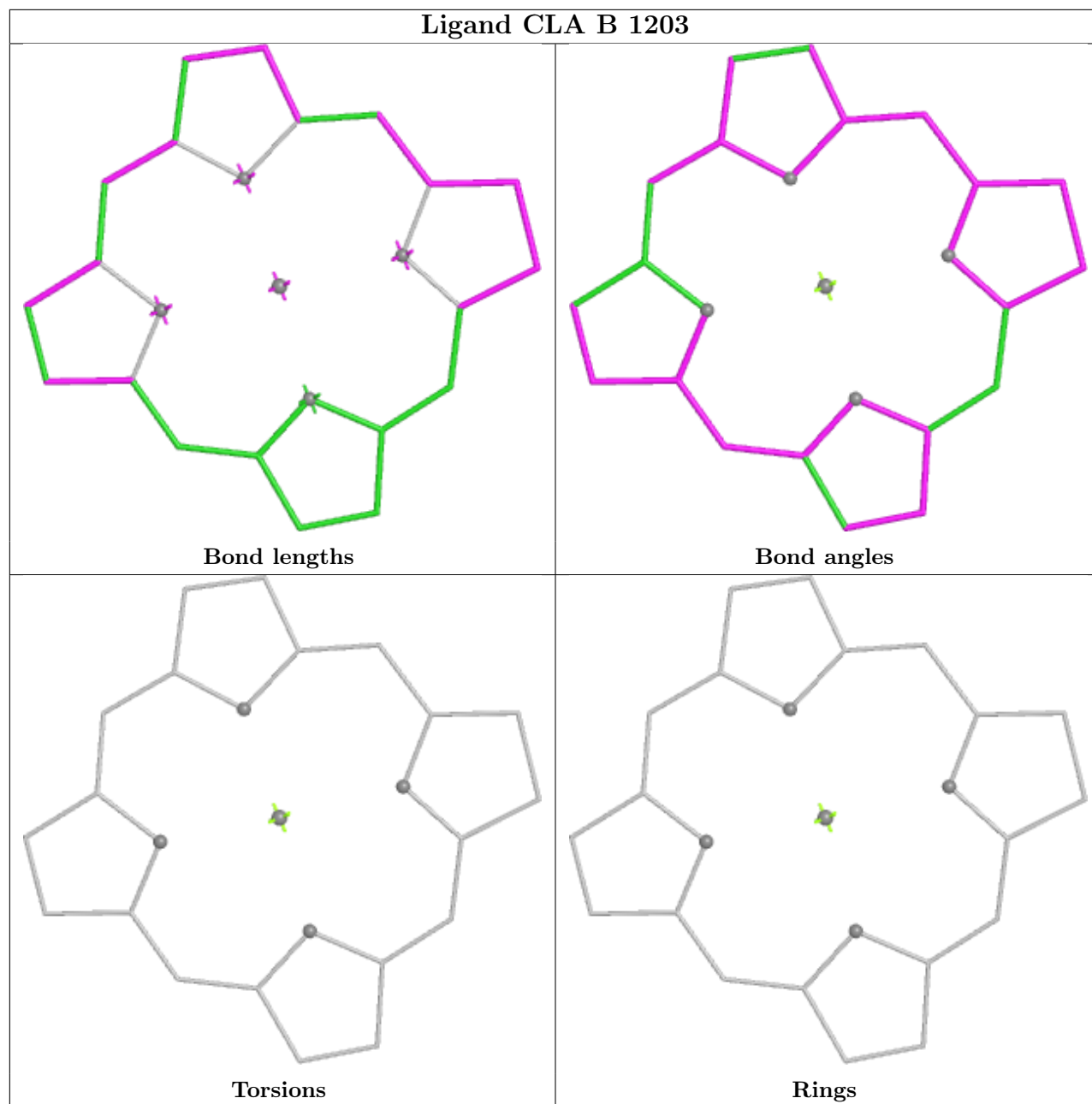
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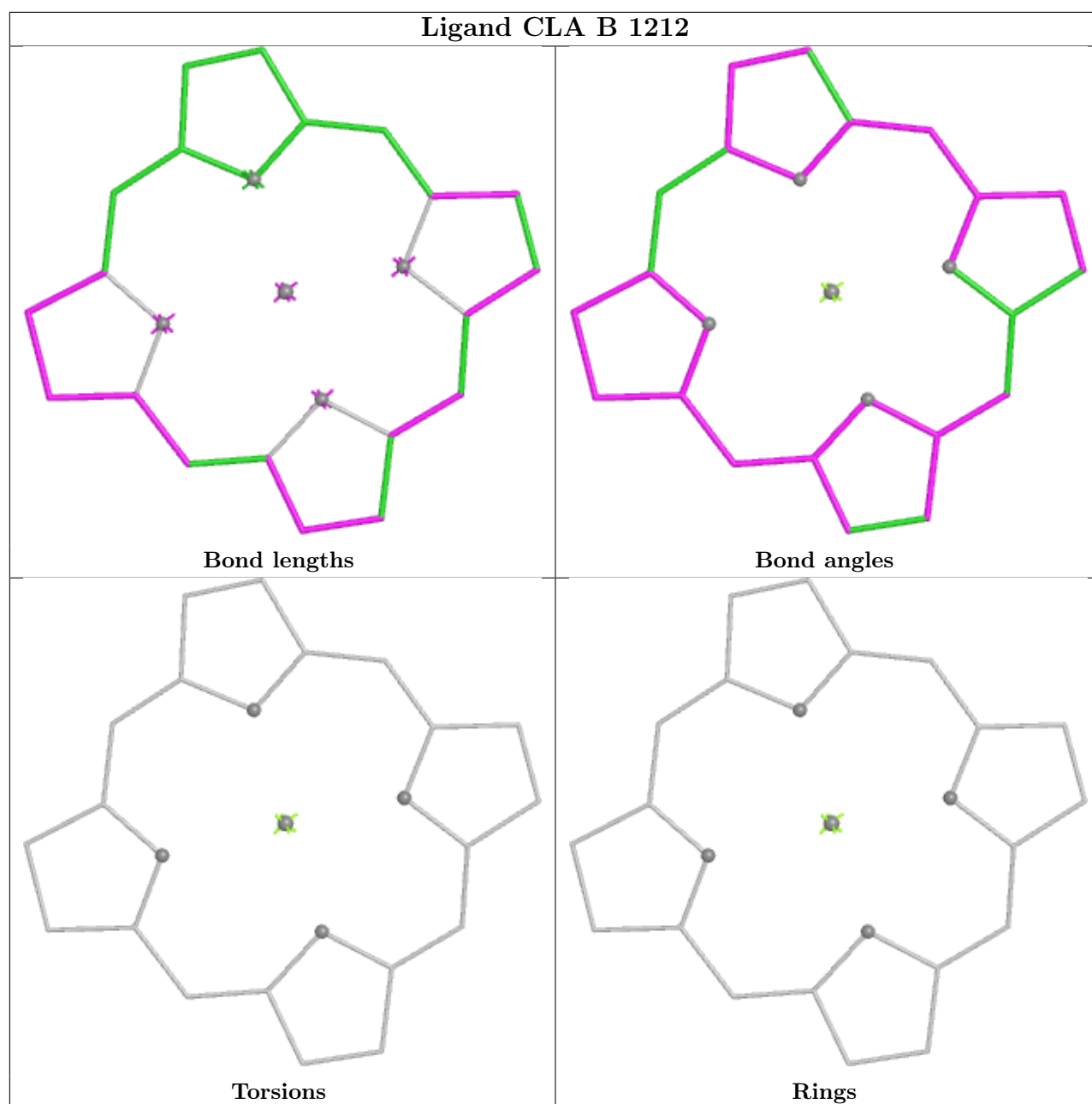


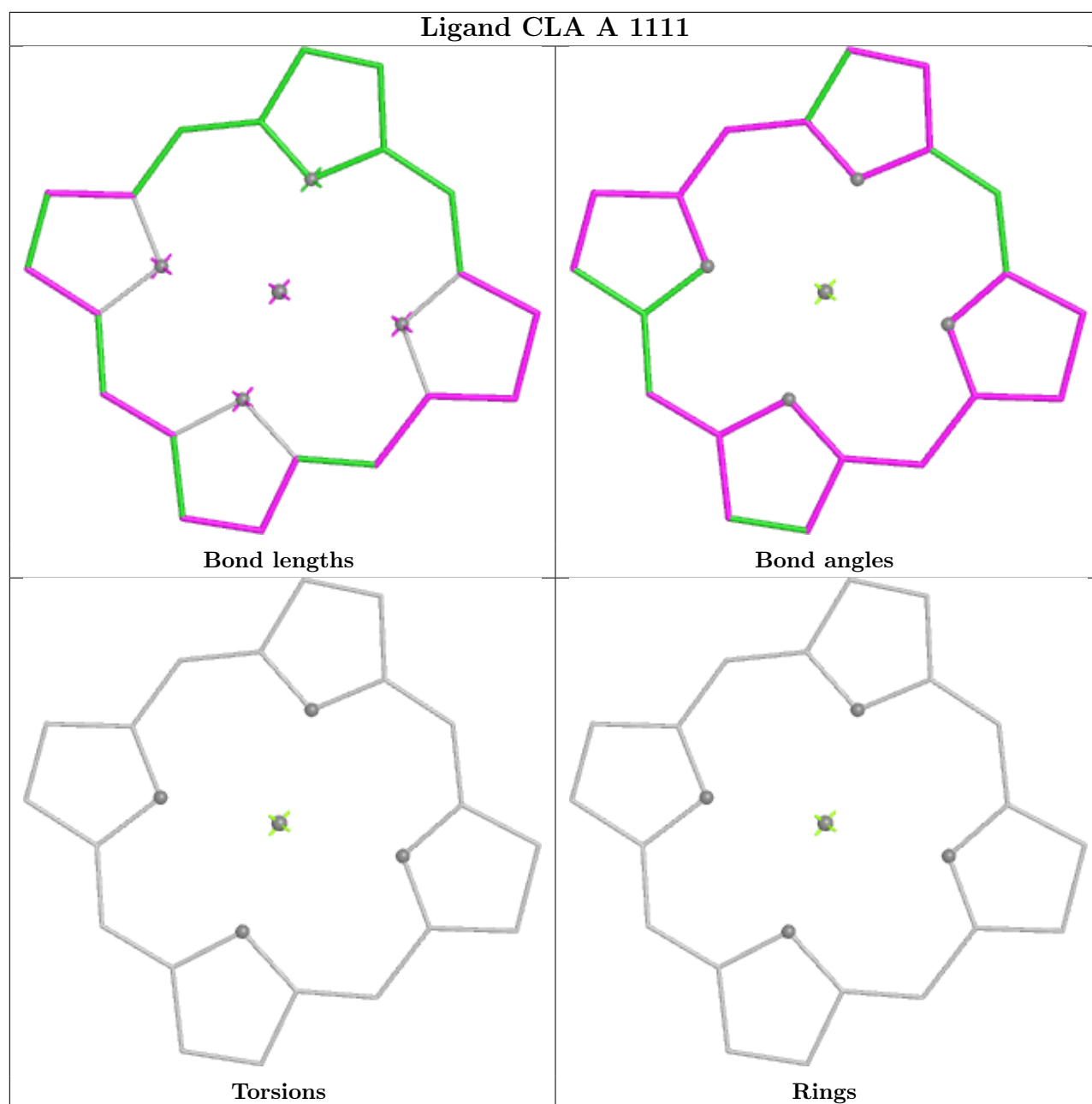
Torsions

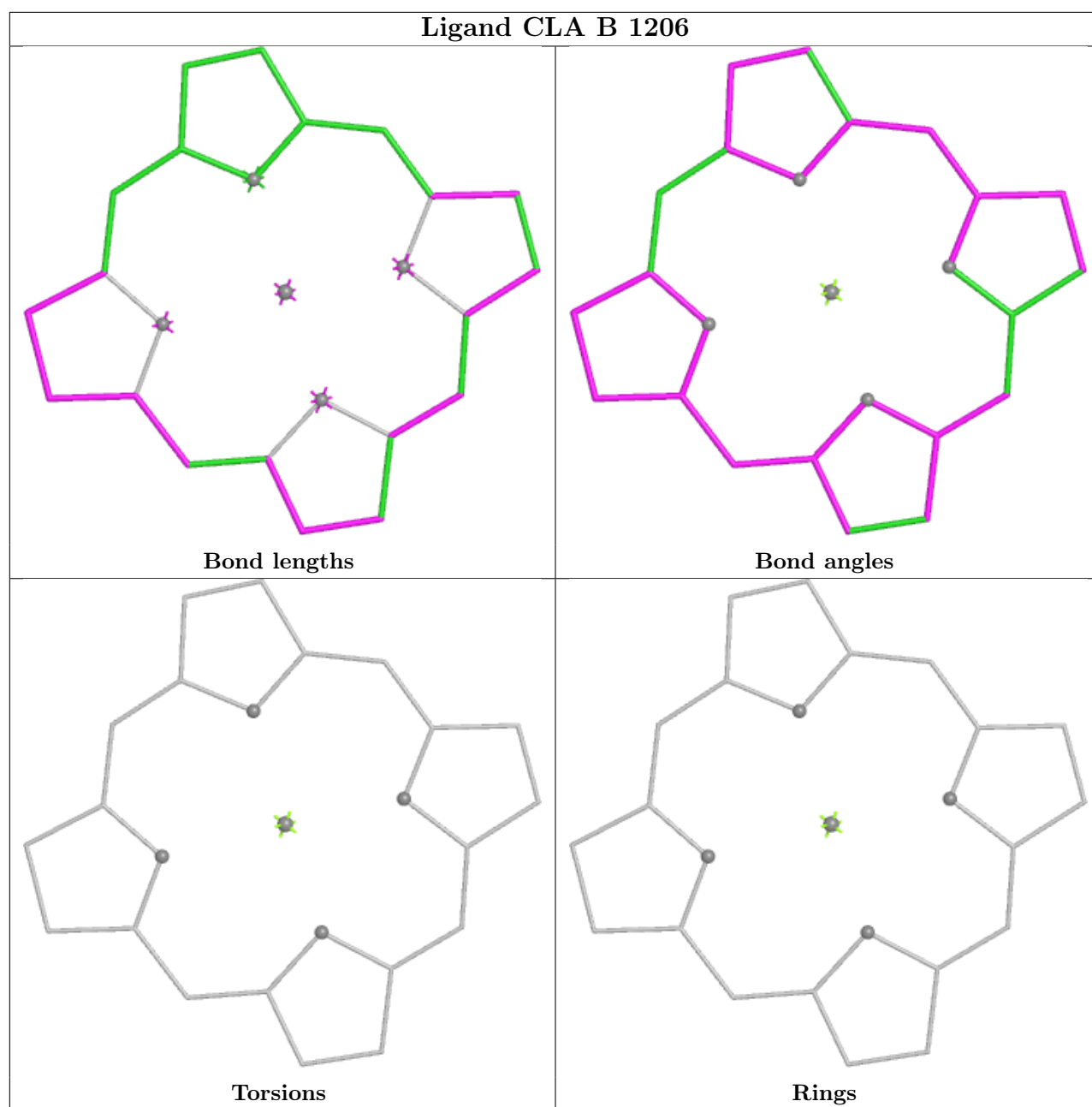


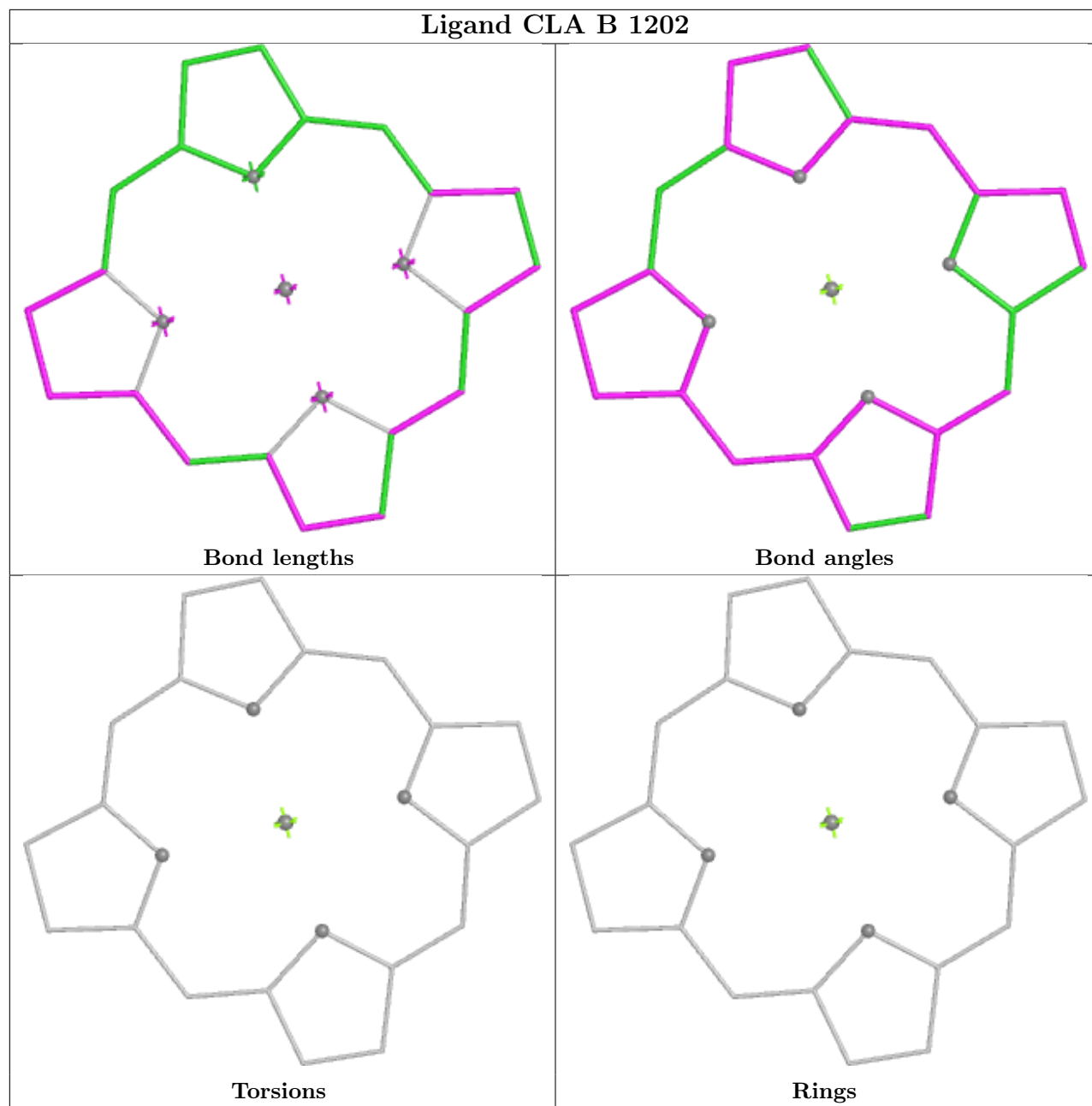
Rings



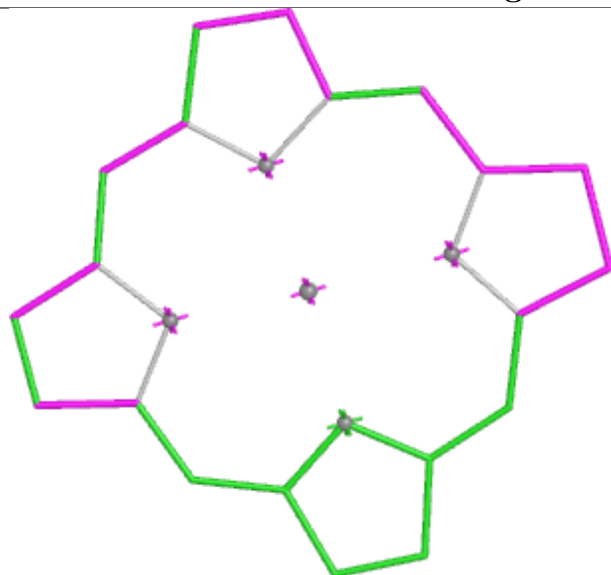




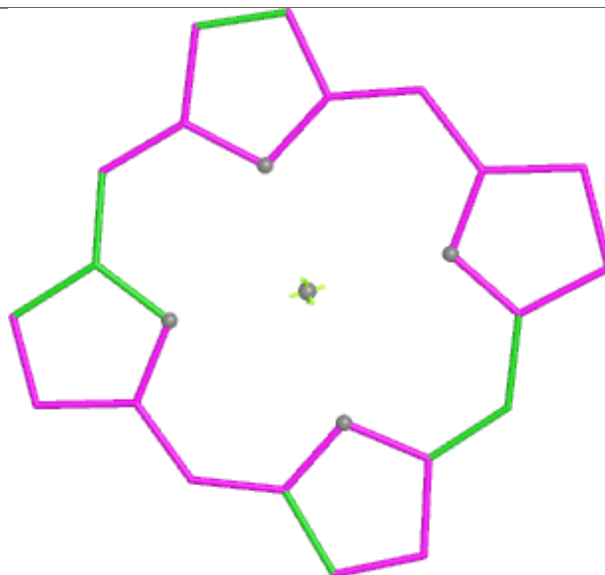




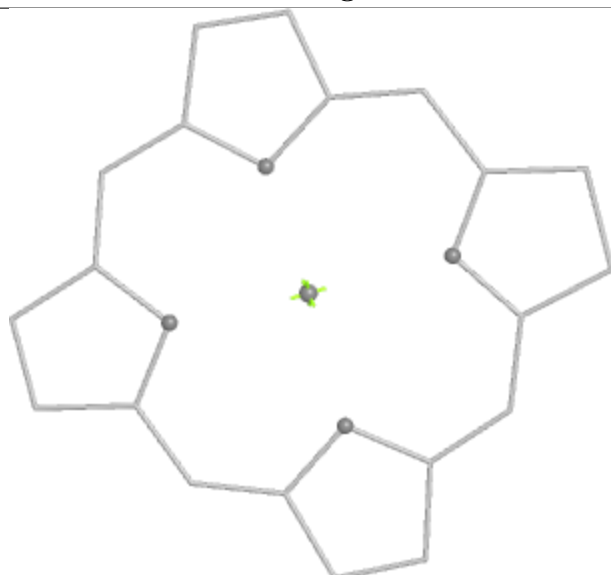
Ligand CLA O 1601



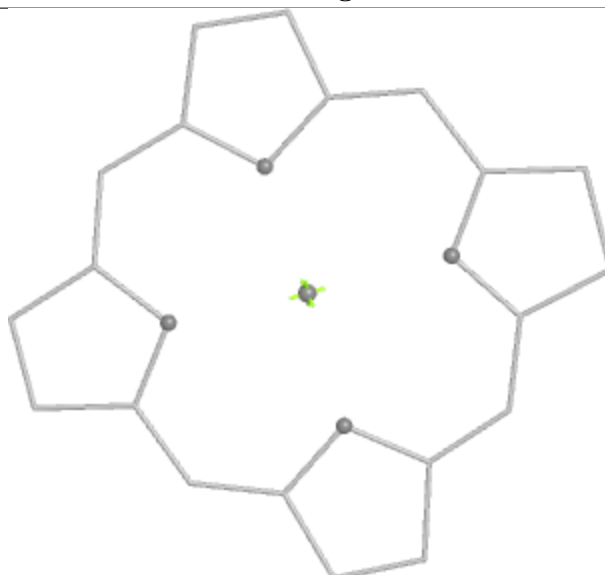
Bond lengths



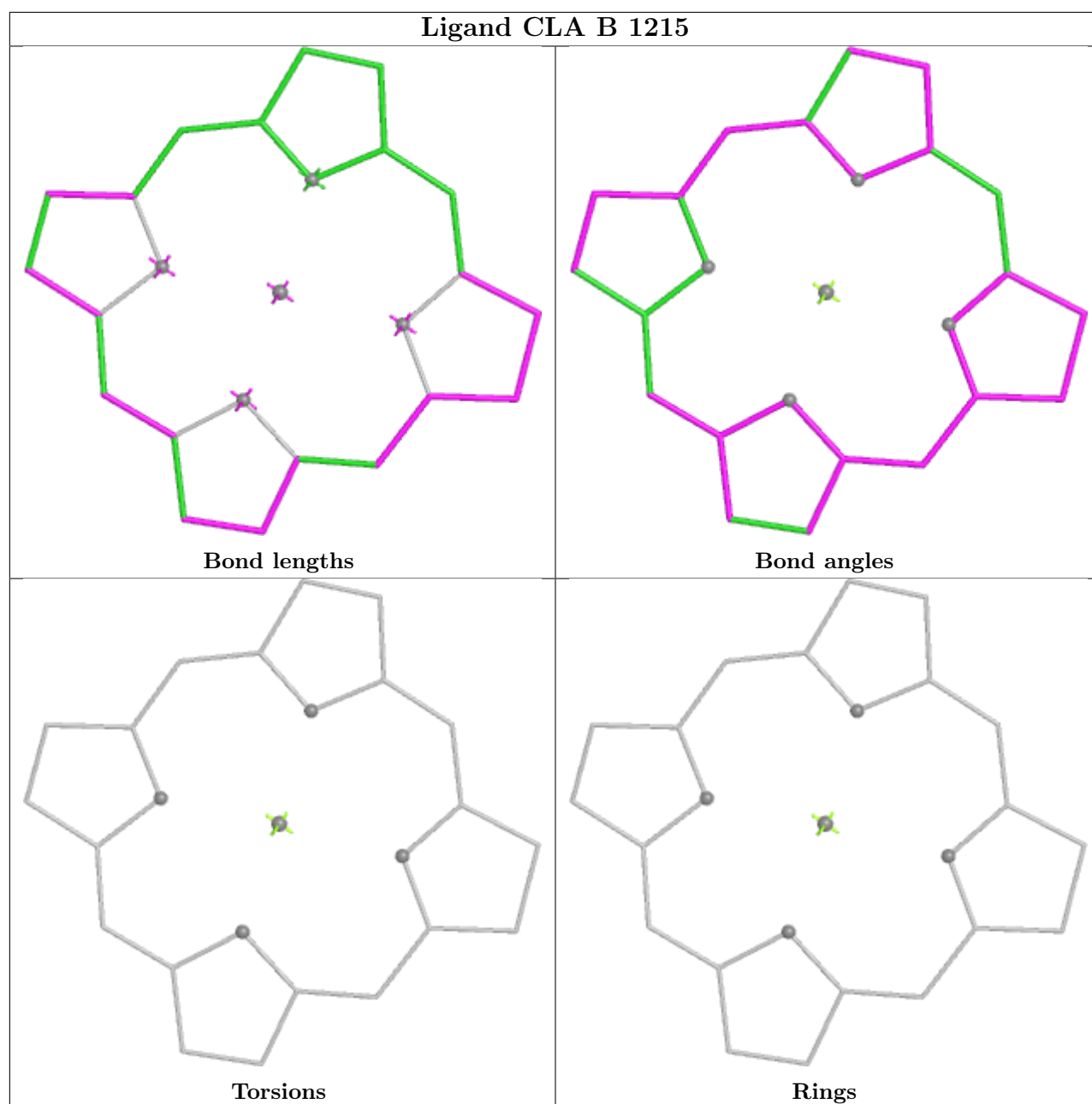
Bond angles

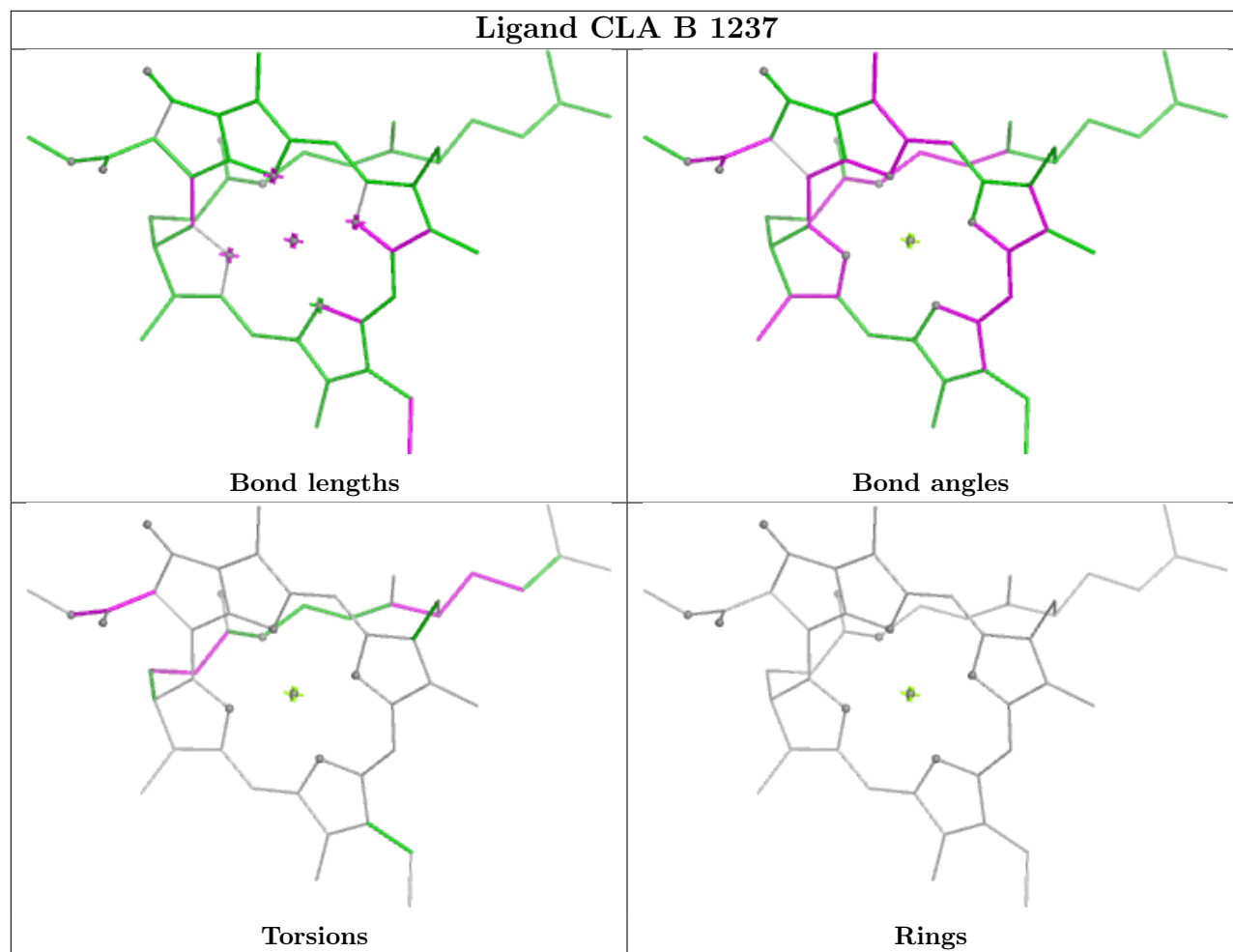


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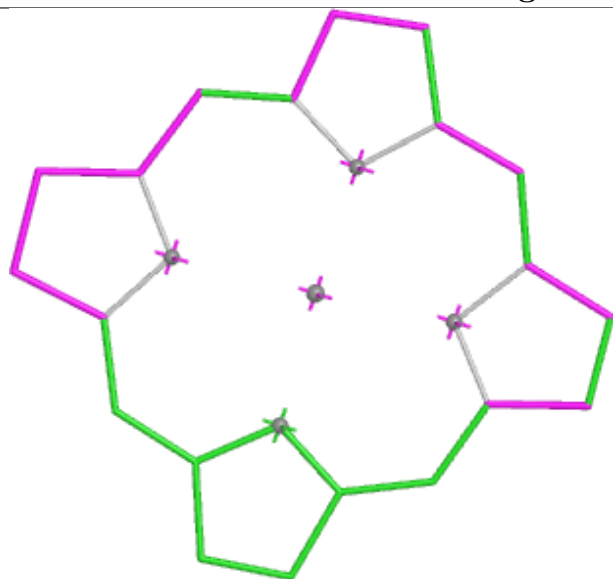


Rings

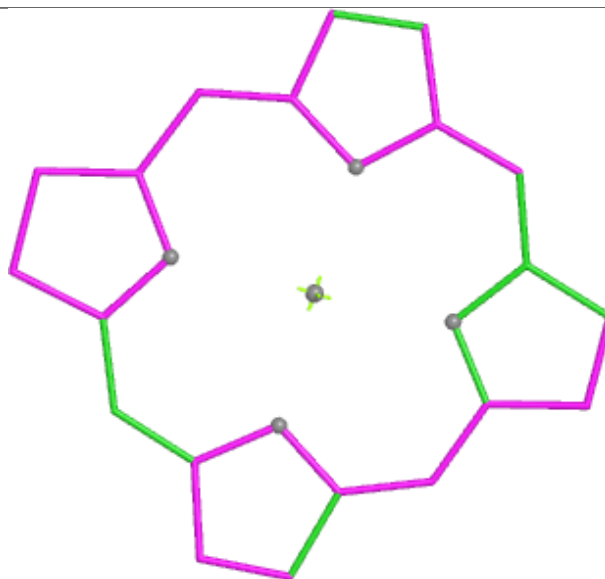




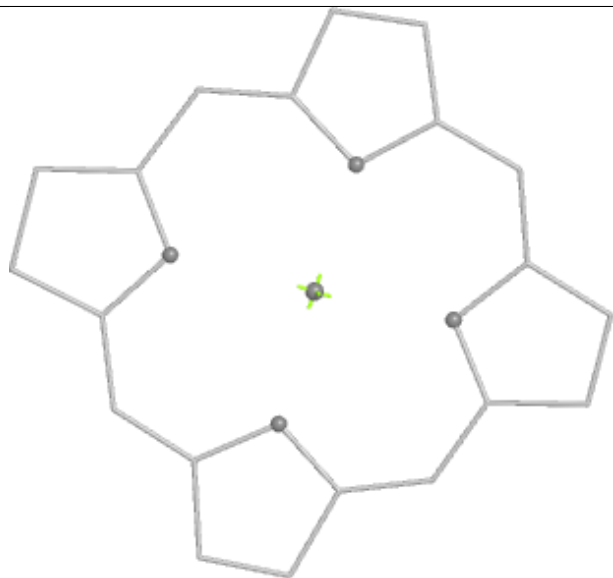
Ligand CLA 4 612



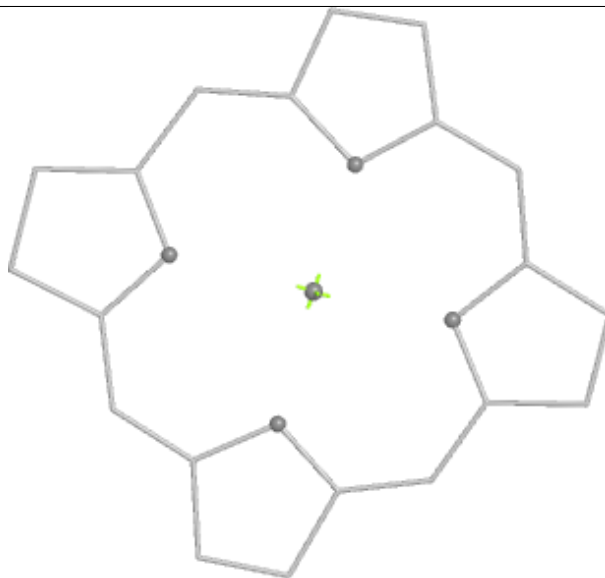
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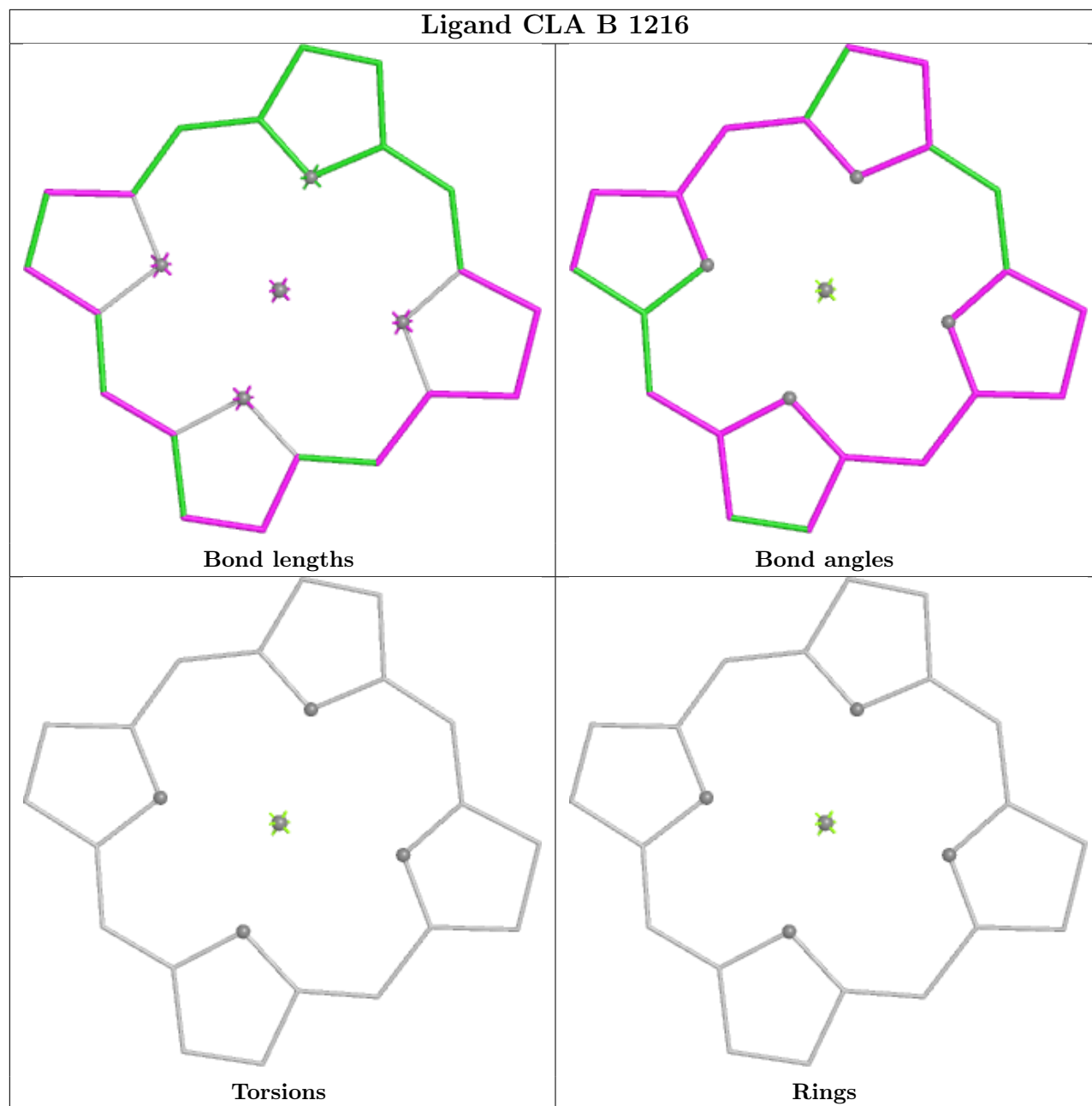
Bond angles



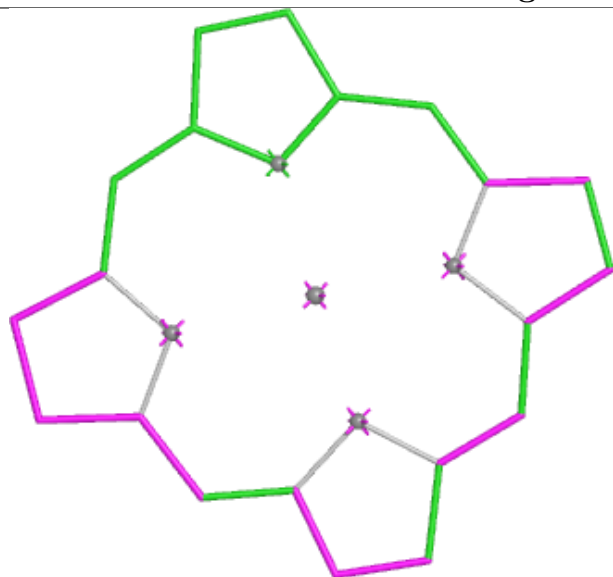
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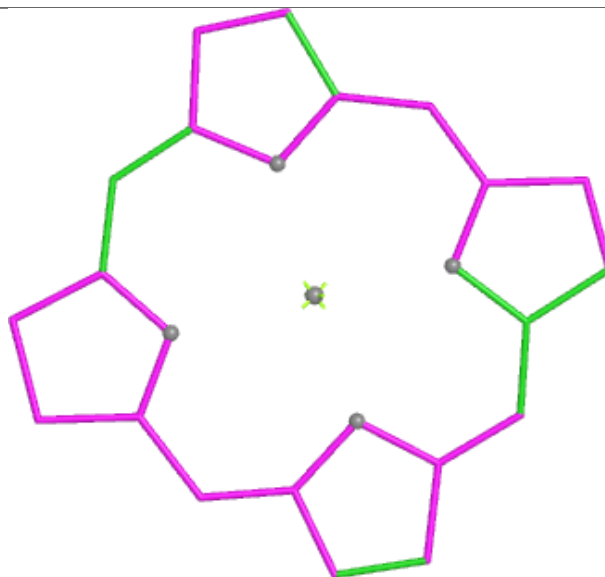
Rings



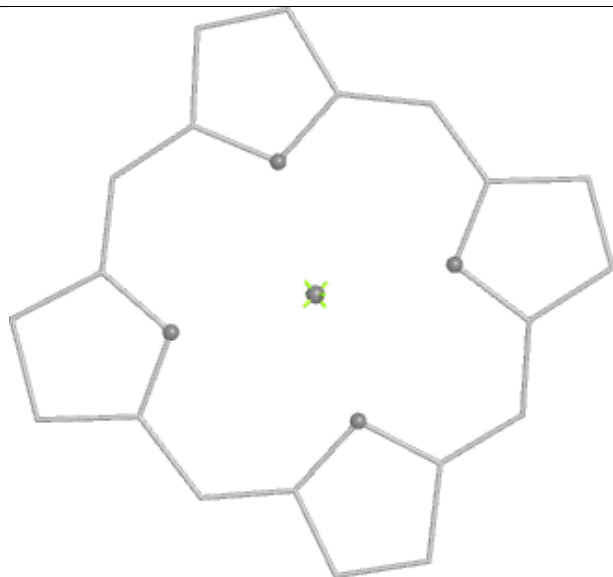
Ligand CLA 4 605



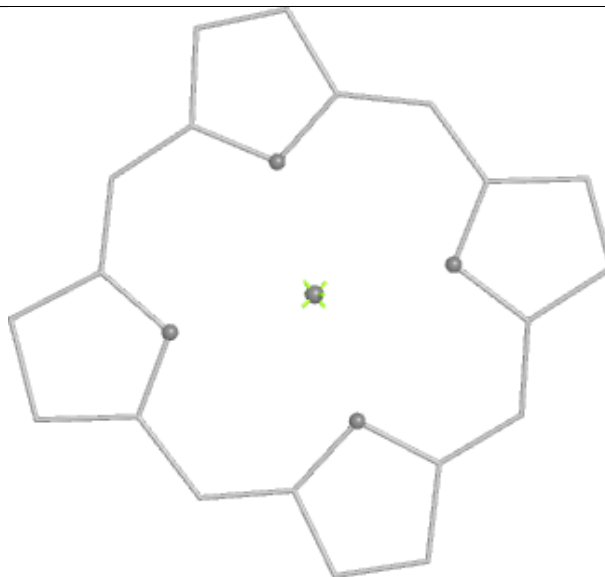
Bond lengths



Bond angles

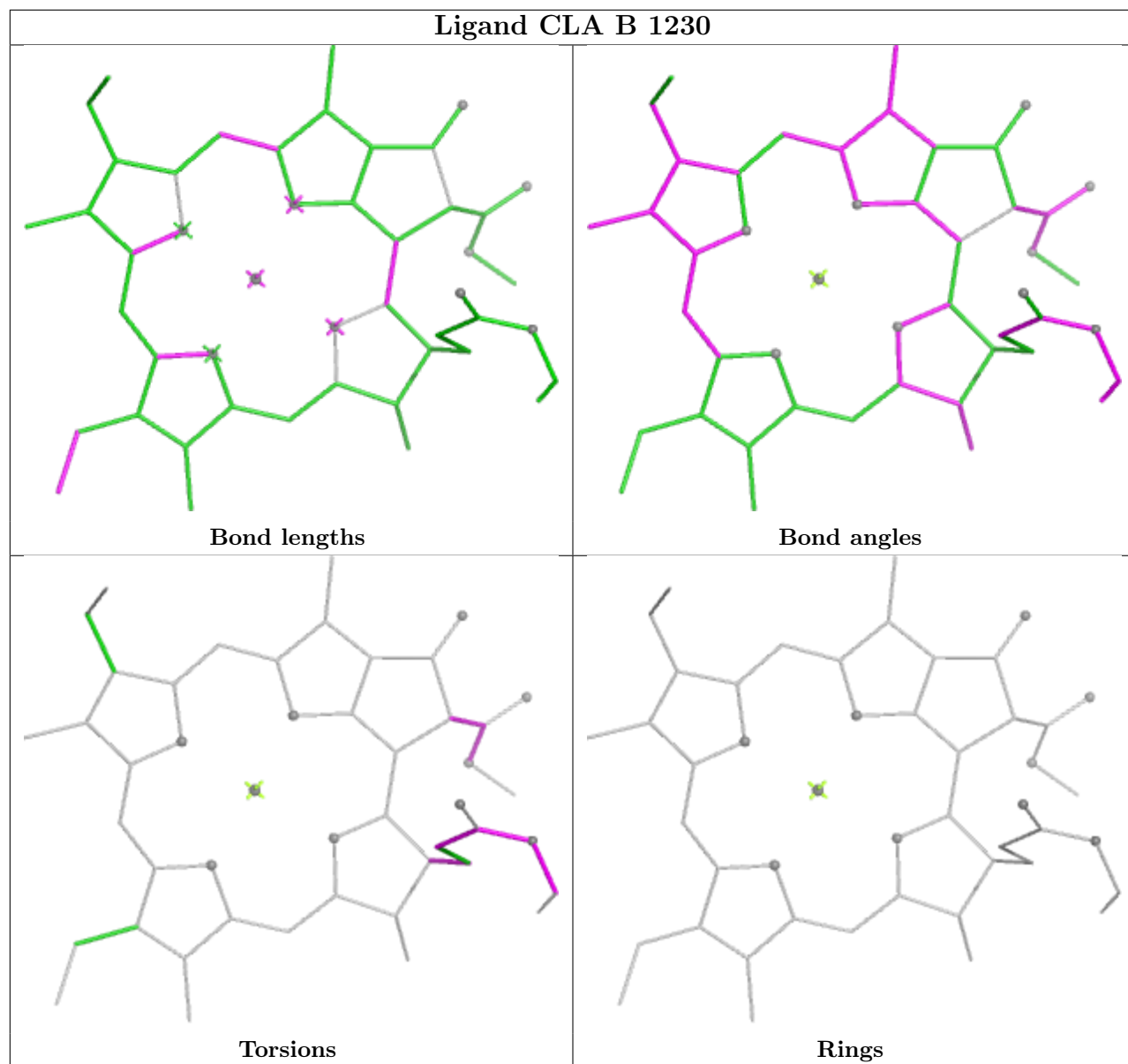


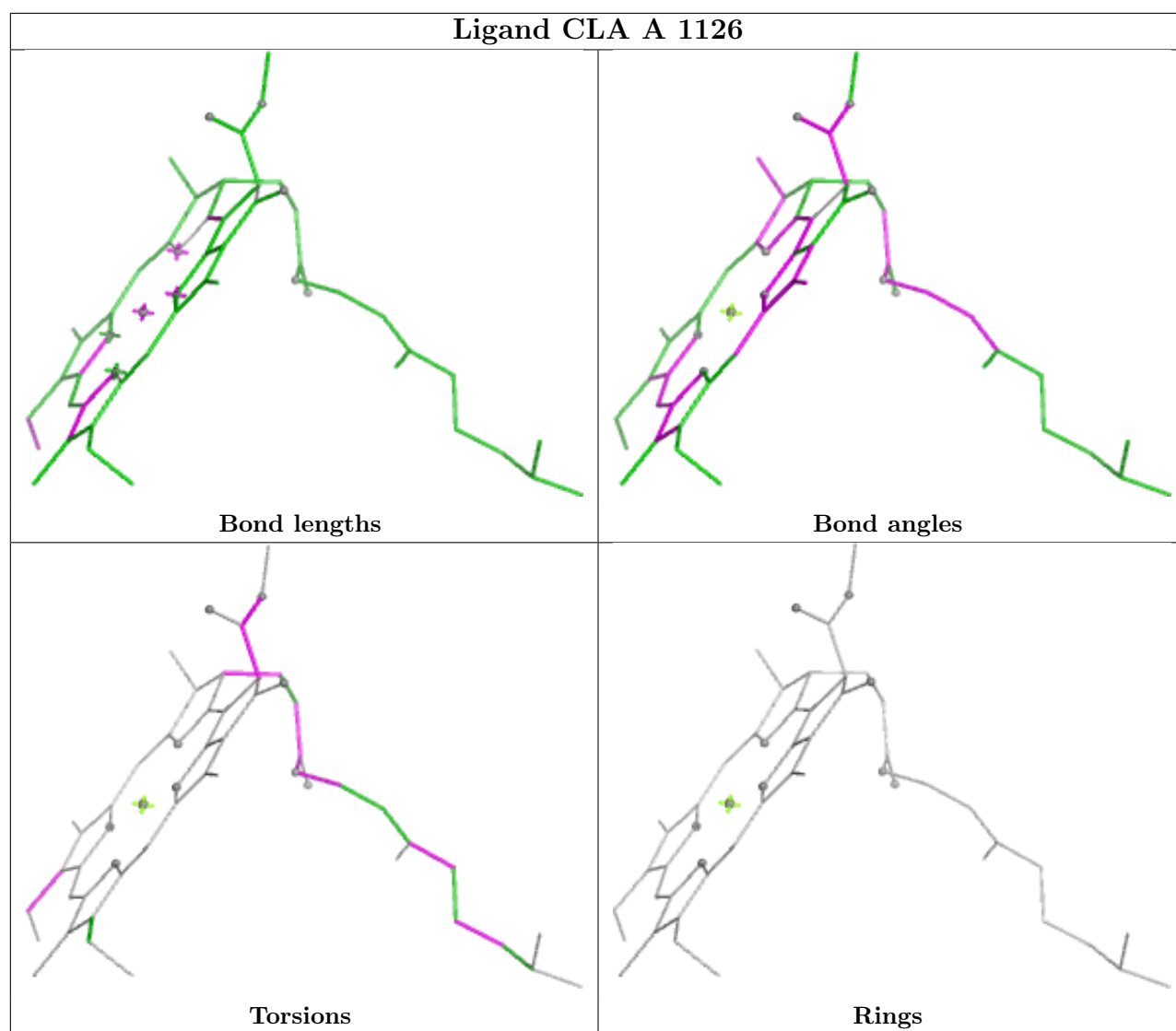
Torsions



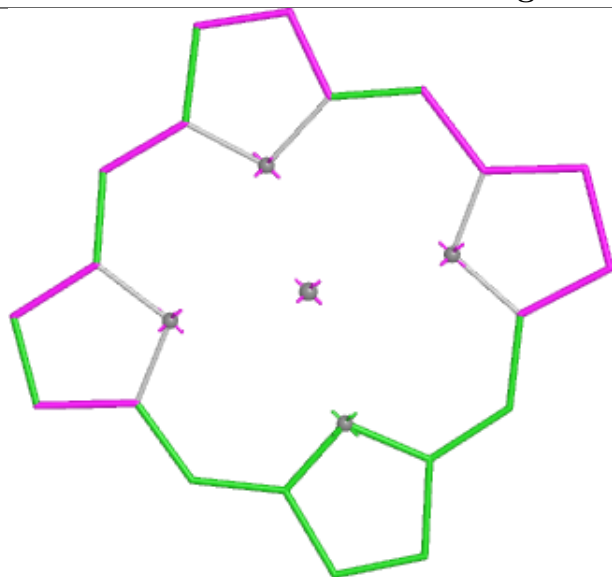
Rings

Ligand CLA B 1230

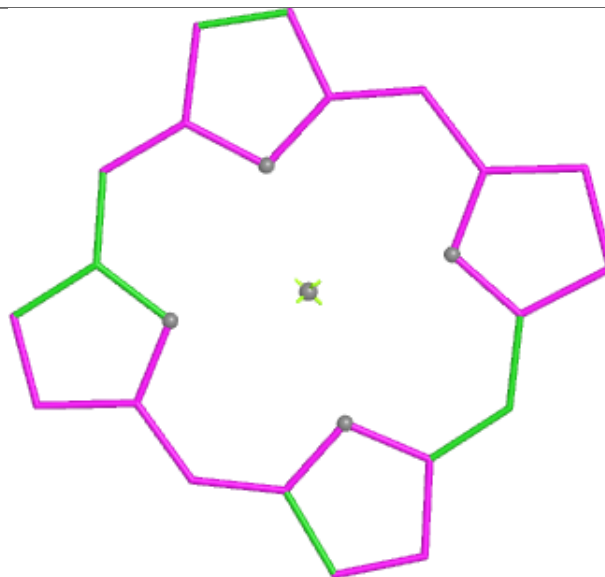




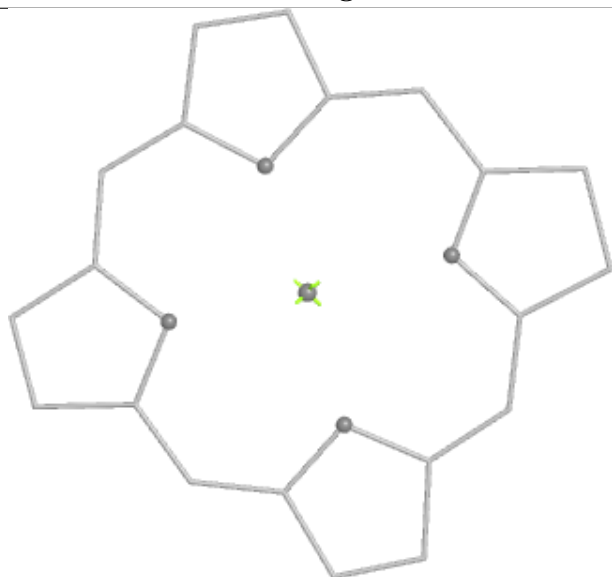
Ligand CLA 4 611



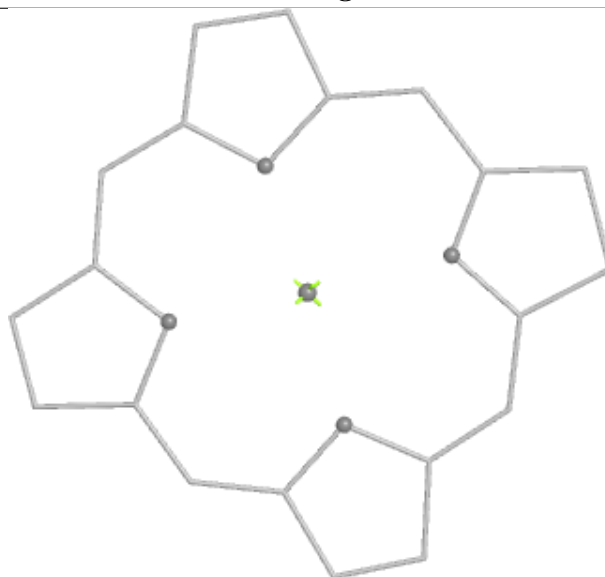
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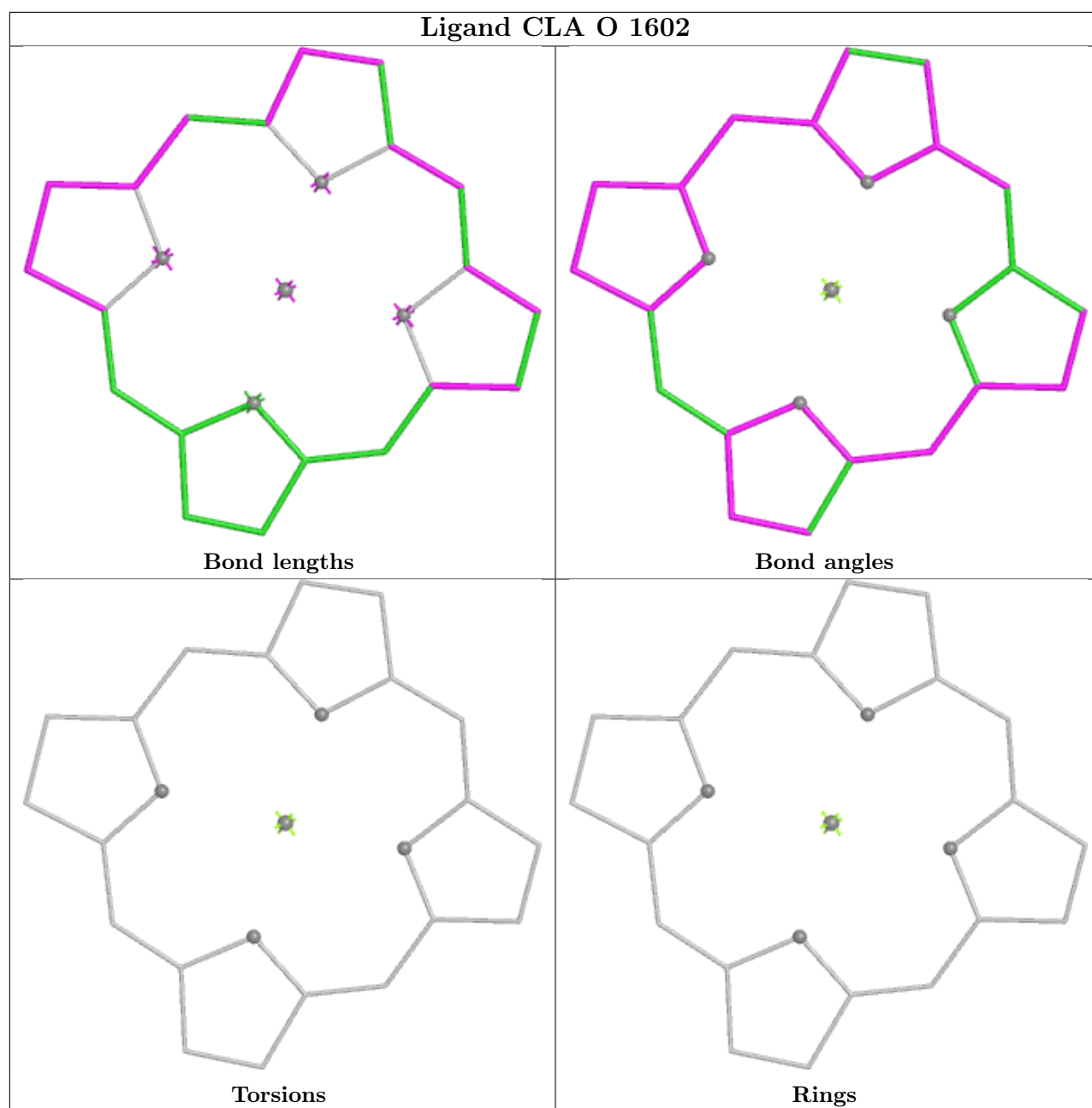
Bond angles



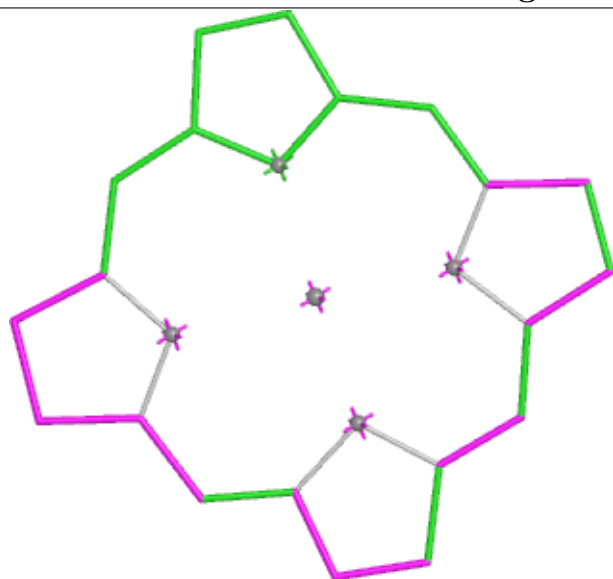
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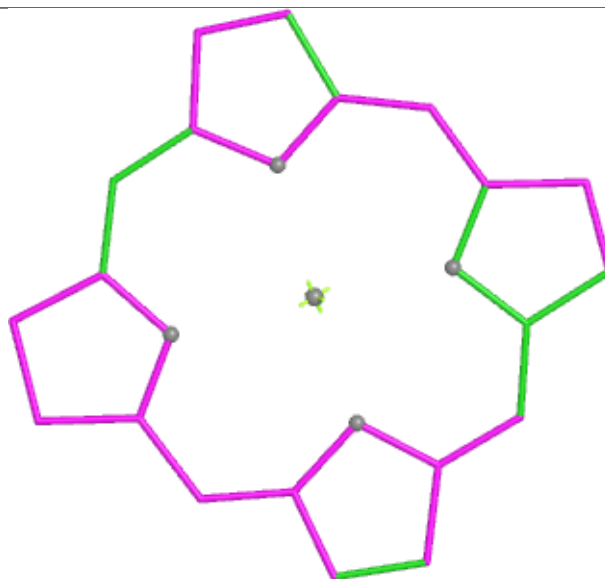
Rings



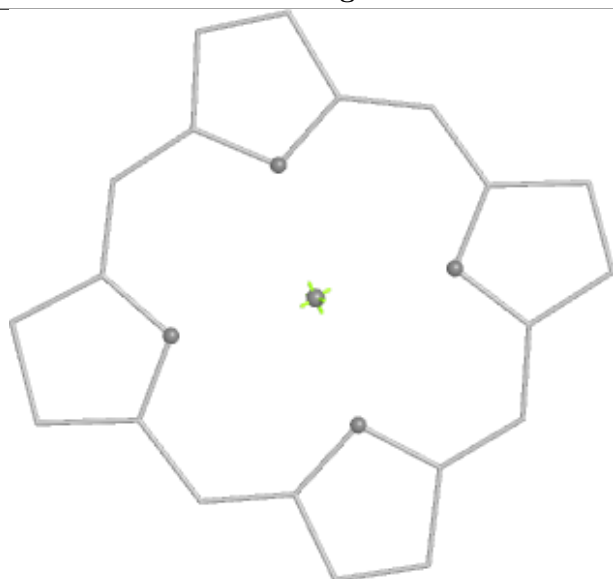
Ligand CLA 2 606



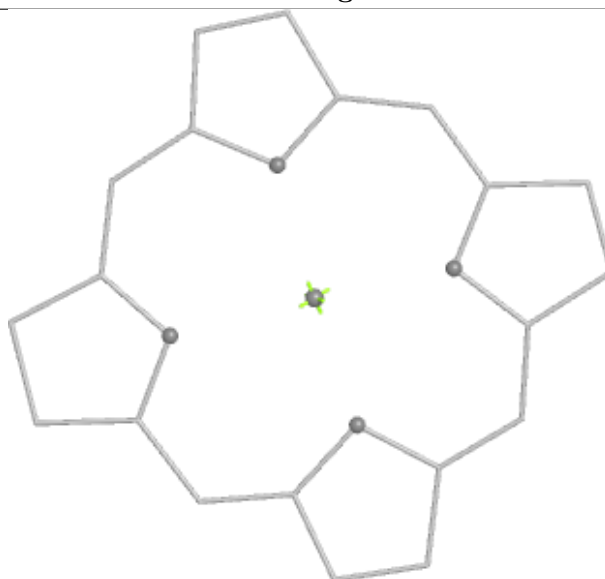
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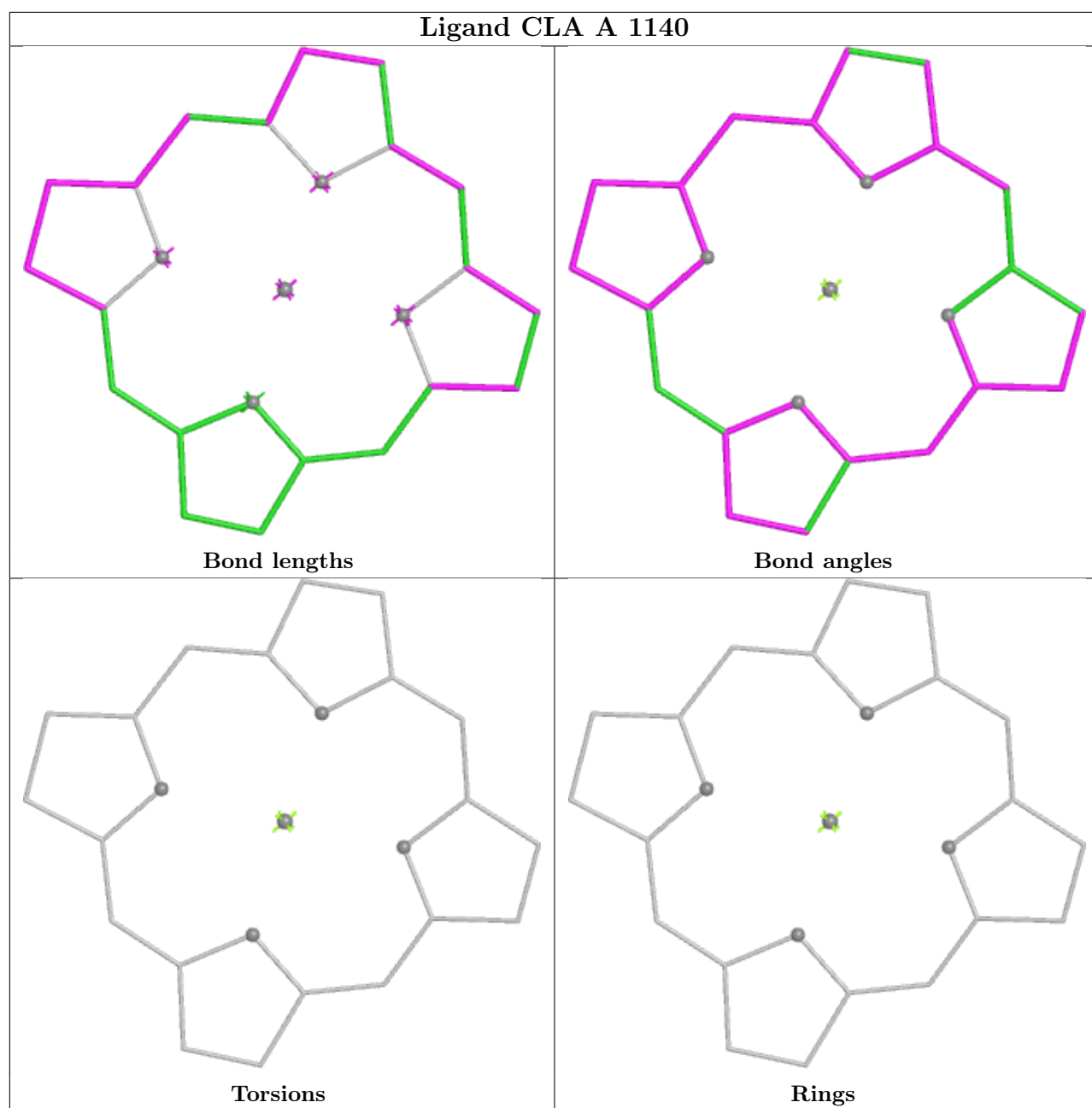
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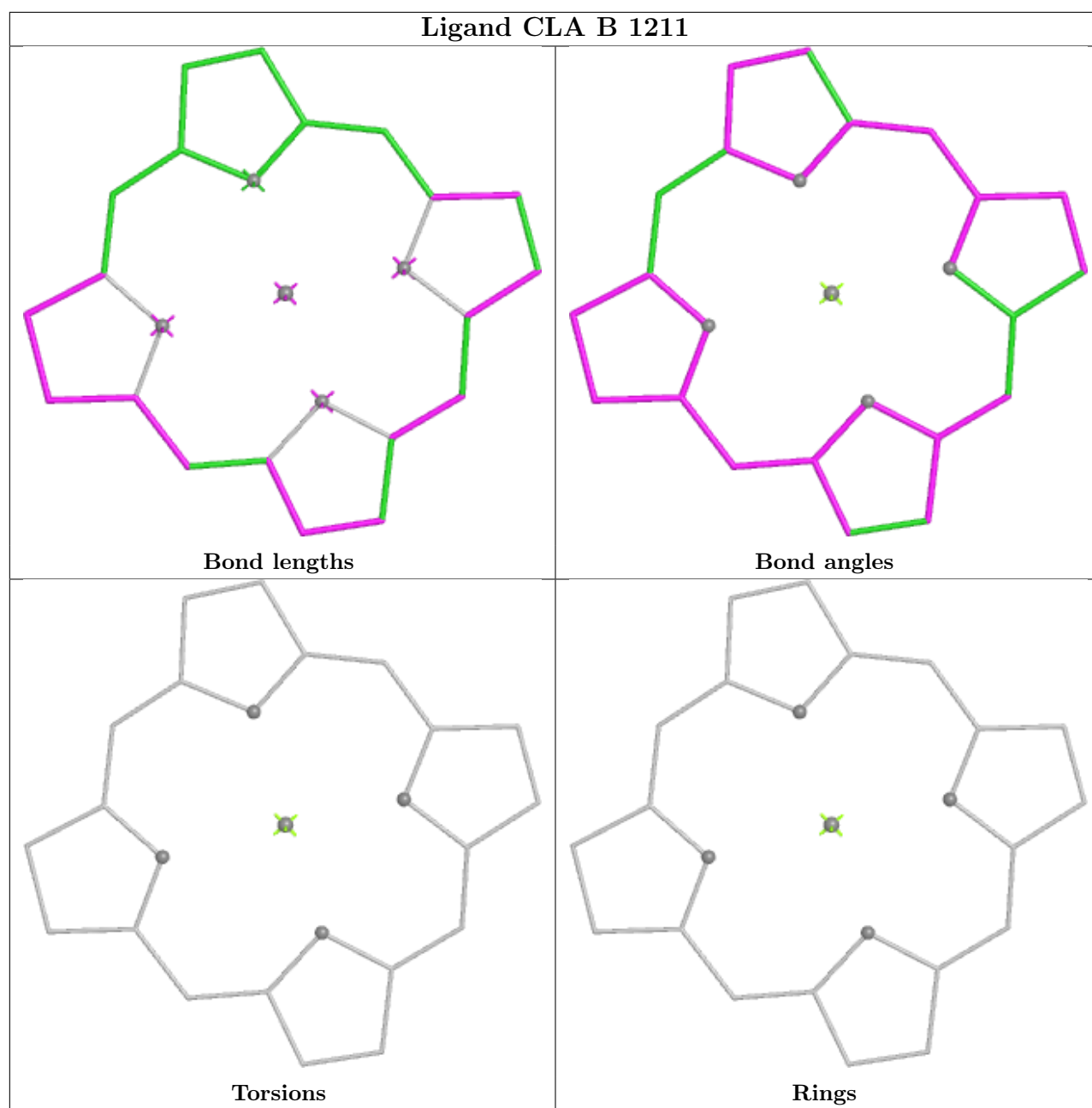


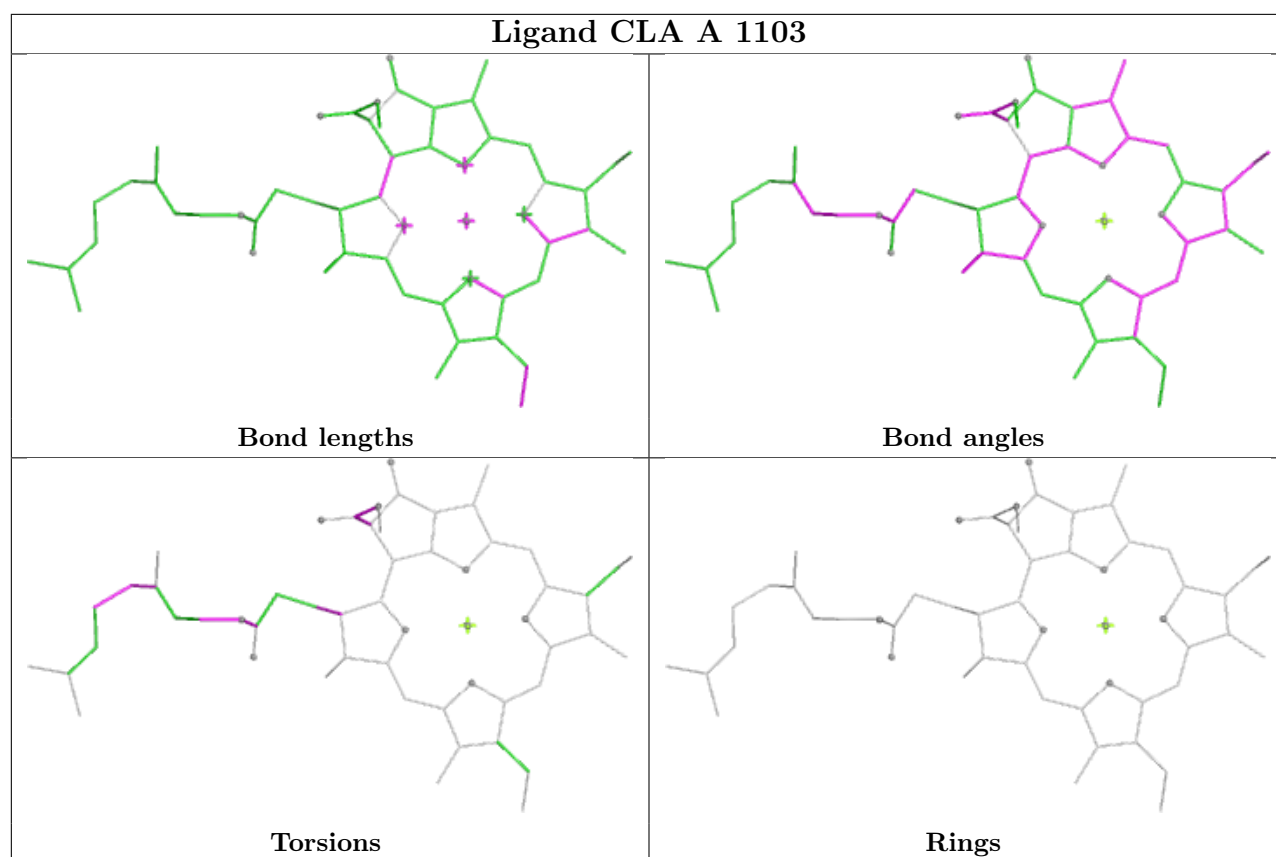
Torsions



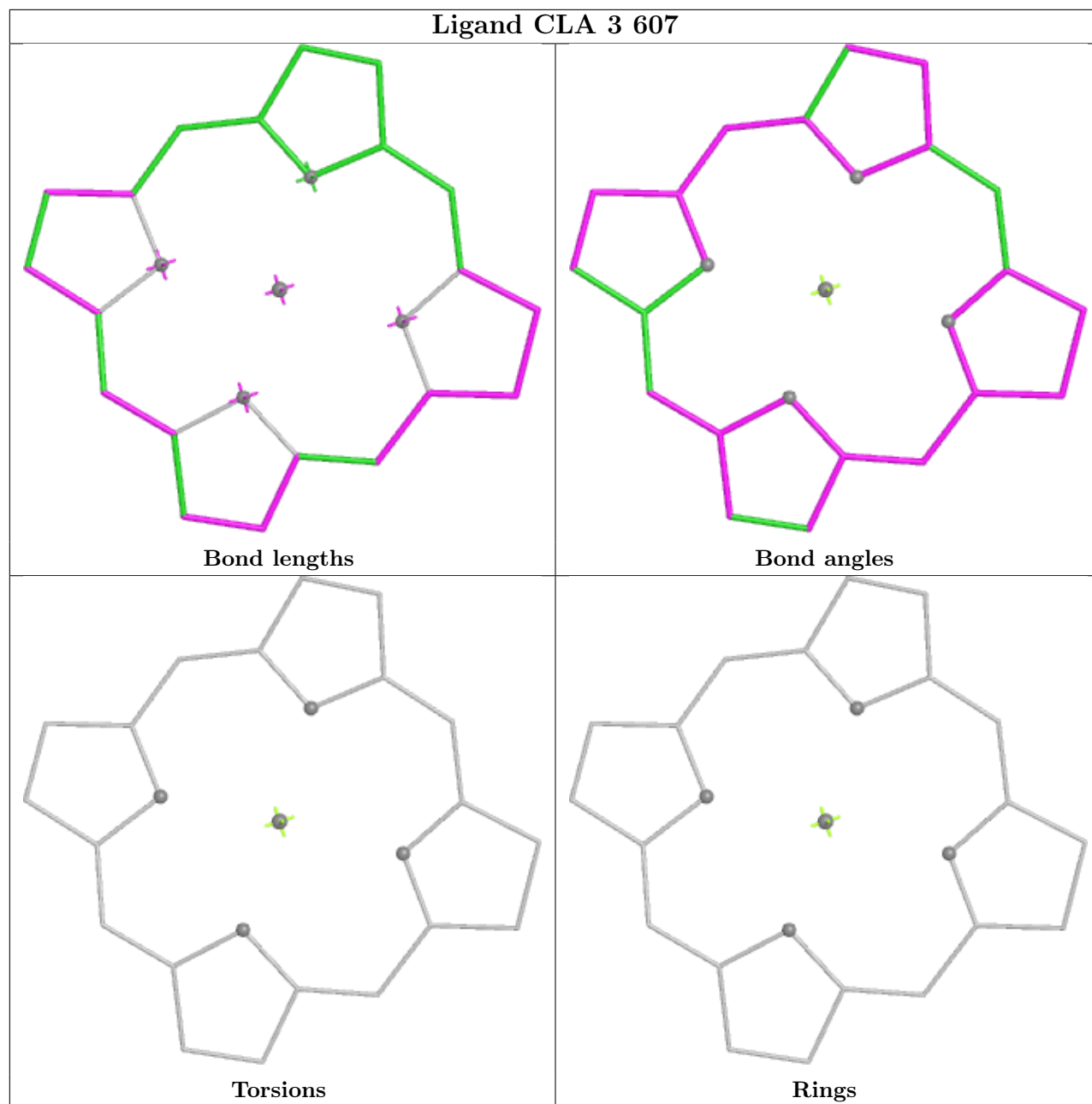
Rings



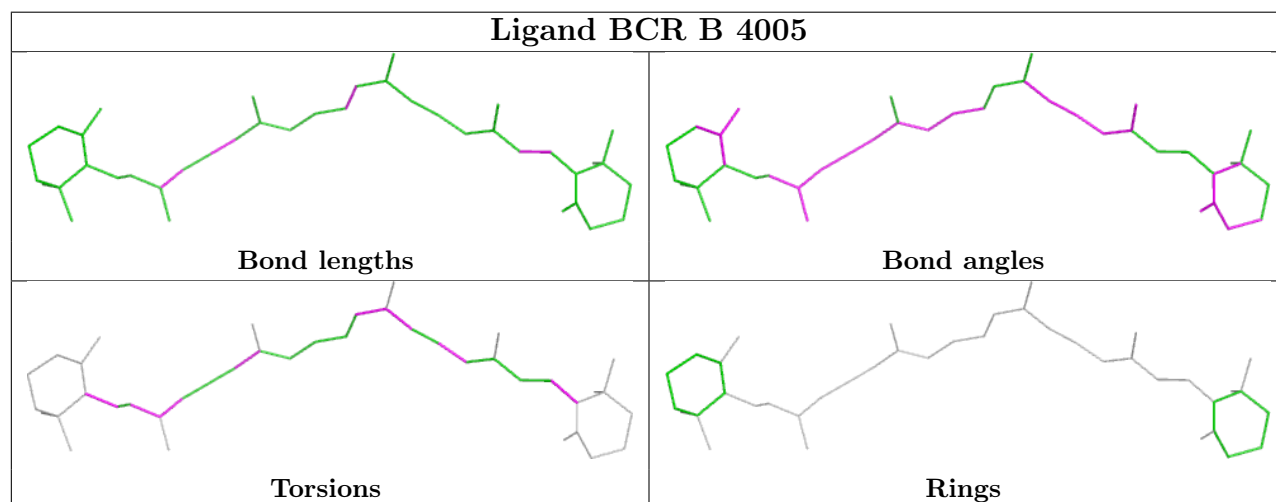




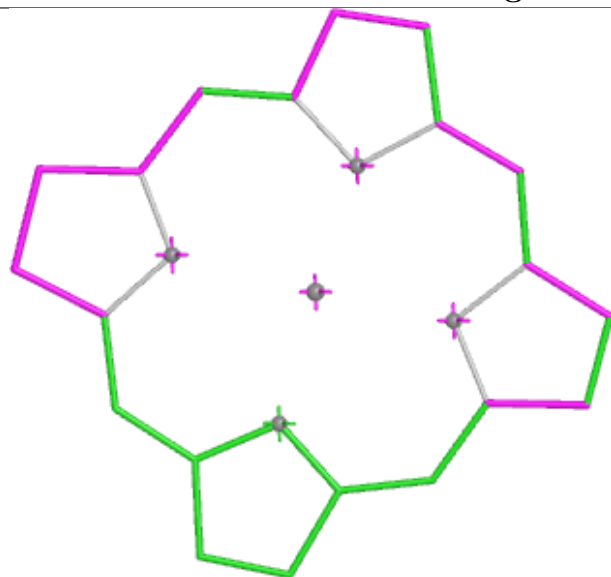
Ligand CLA 3 607



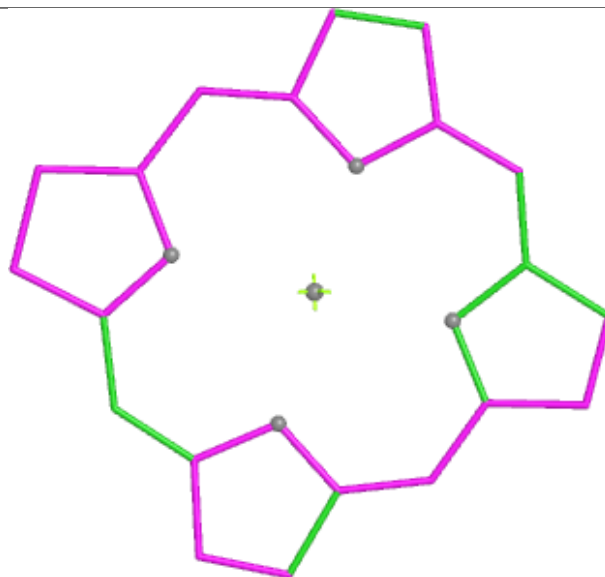
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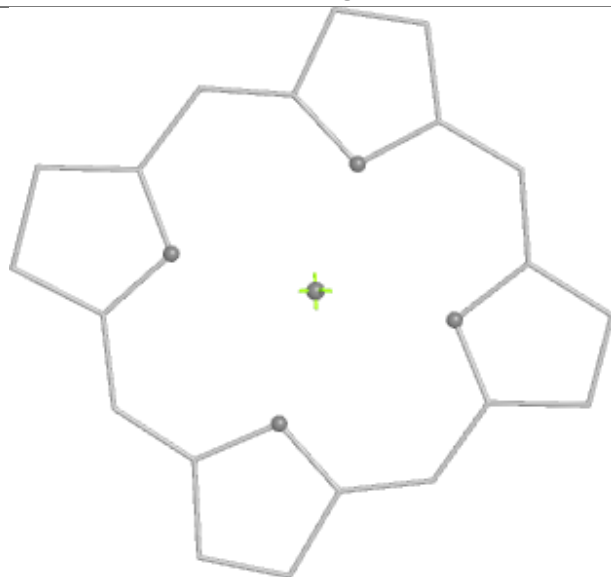
Ligand CLA A 1139



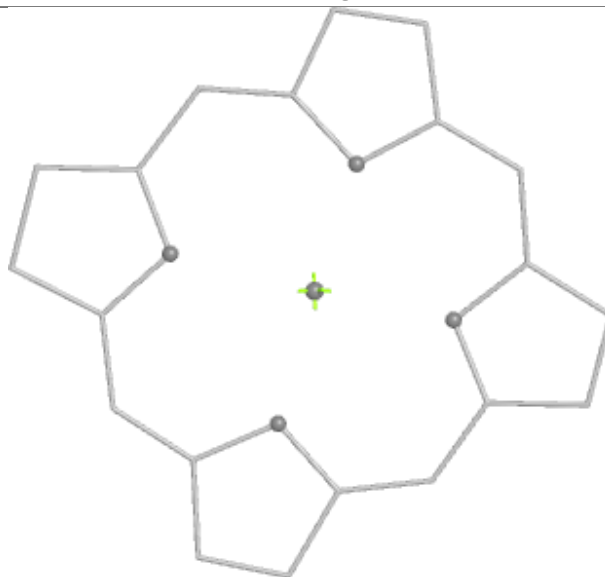
Bond lengths



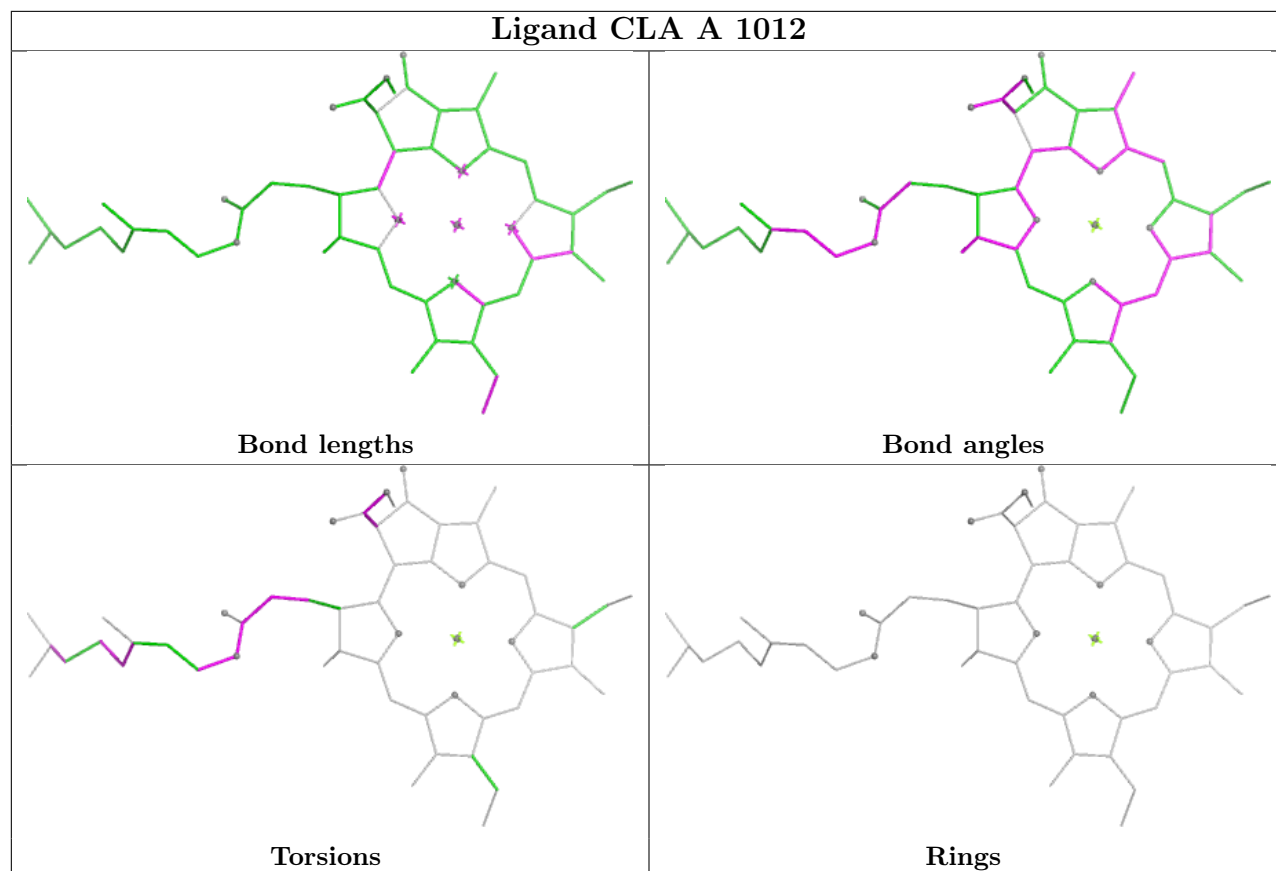
Bond angles



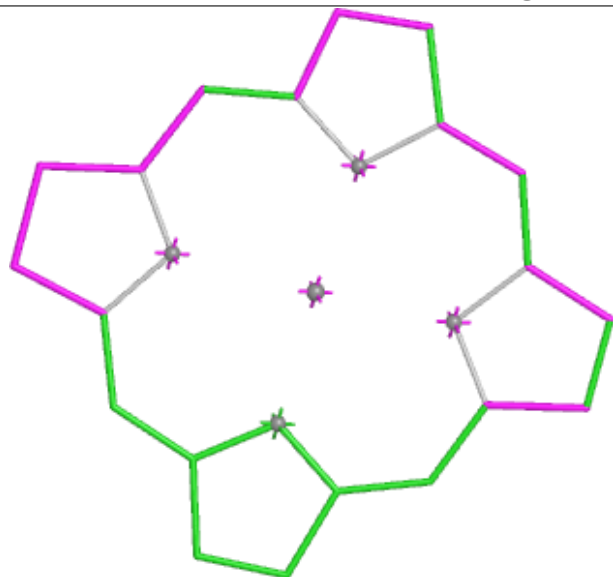
Torsions



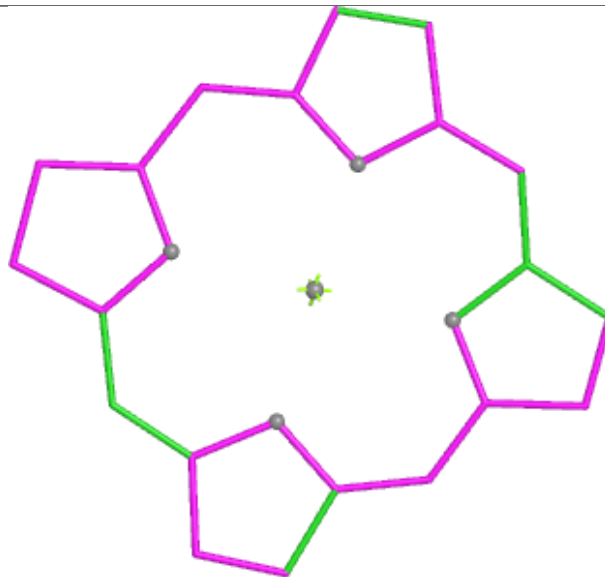
Rings



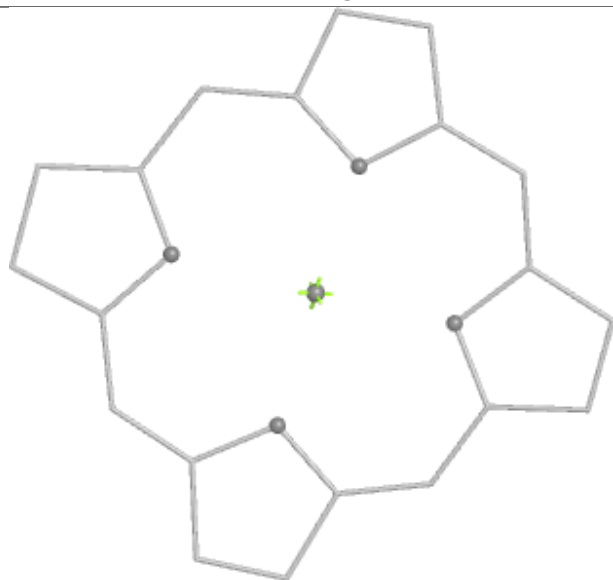
Ligand CLA 2 612



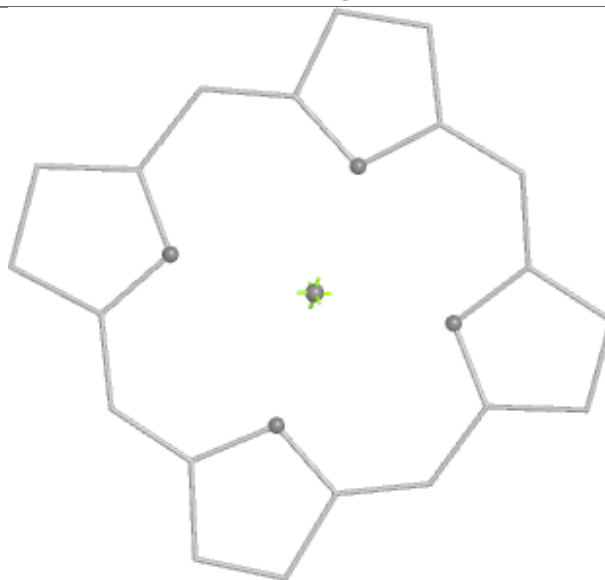
Bond lengths



Bond angles

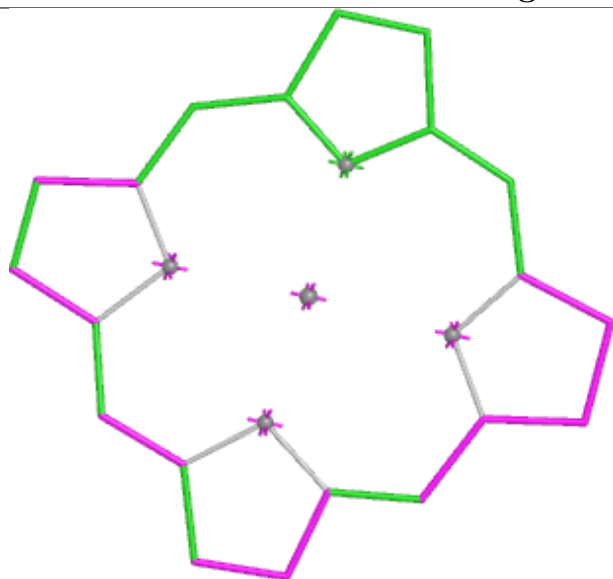


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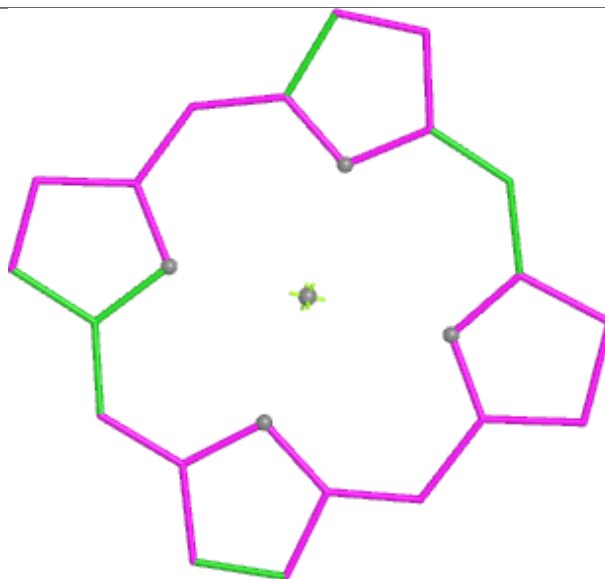


Rings

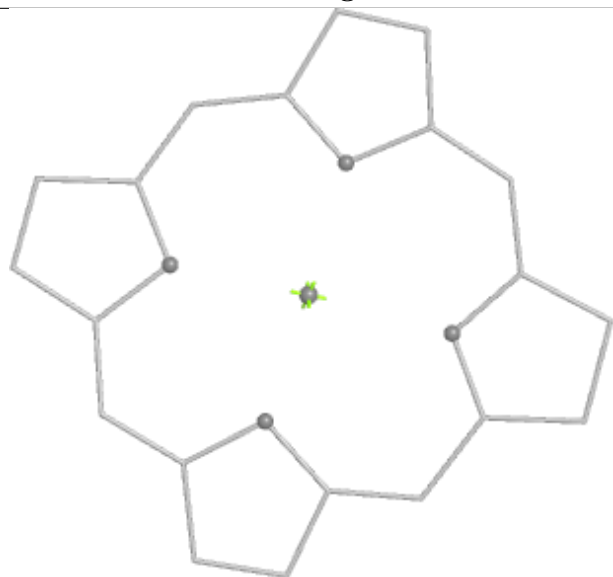
Ligand CLA 4 615



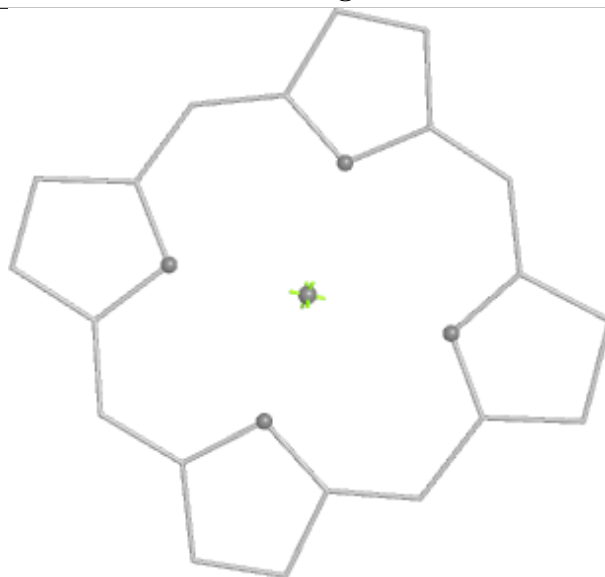
Bond lengths



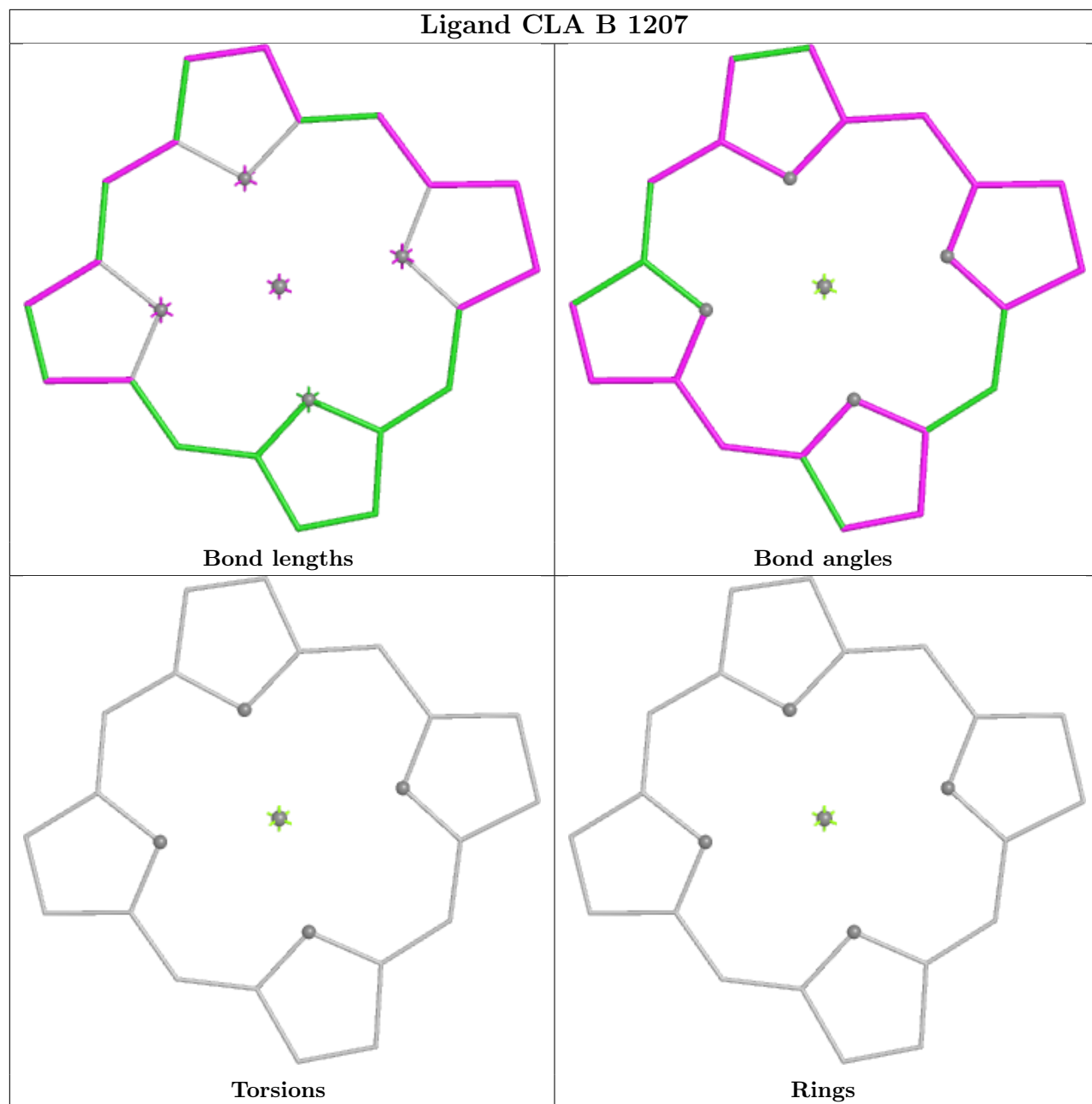
Bond angles

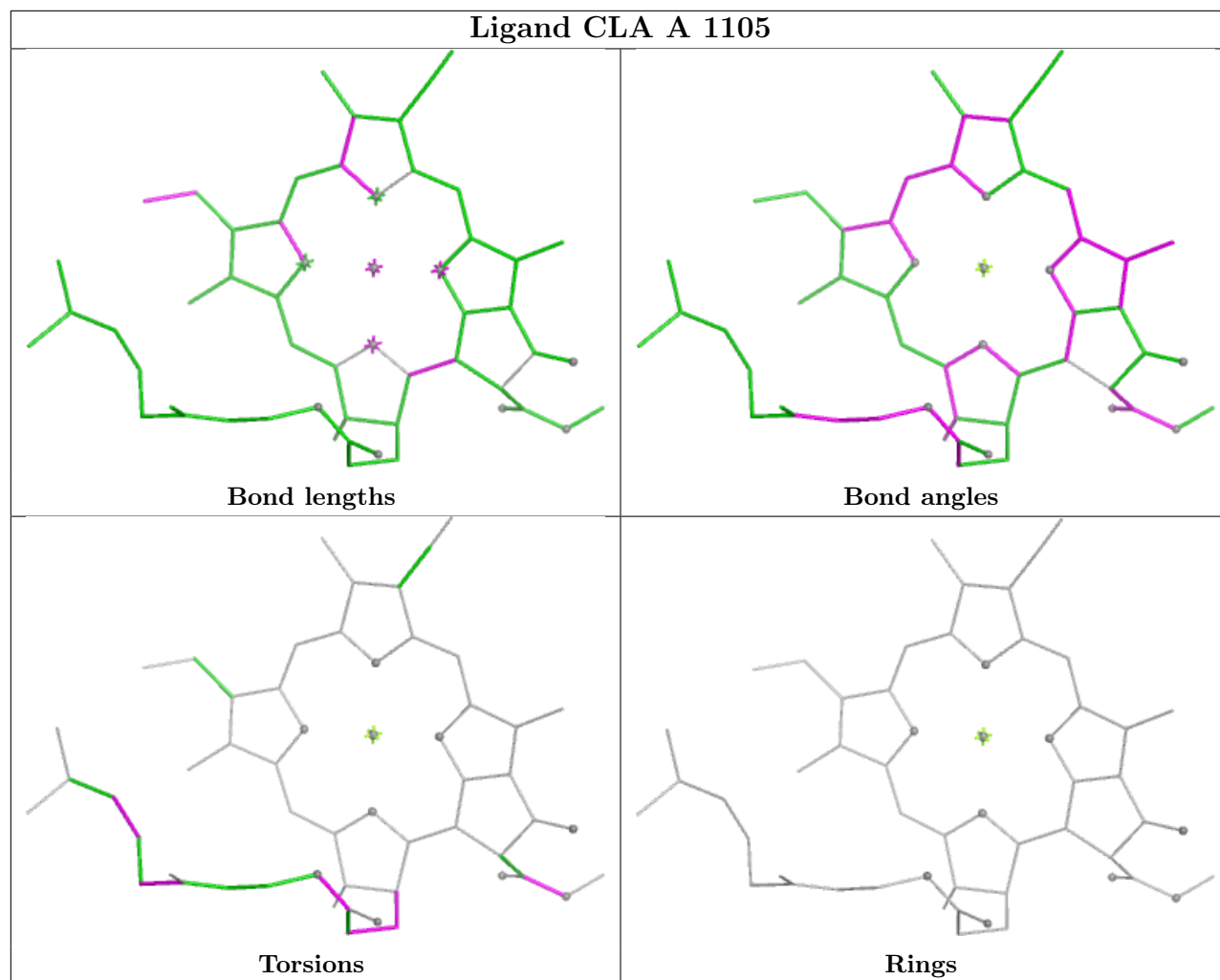


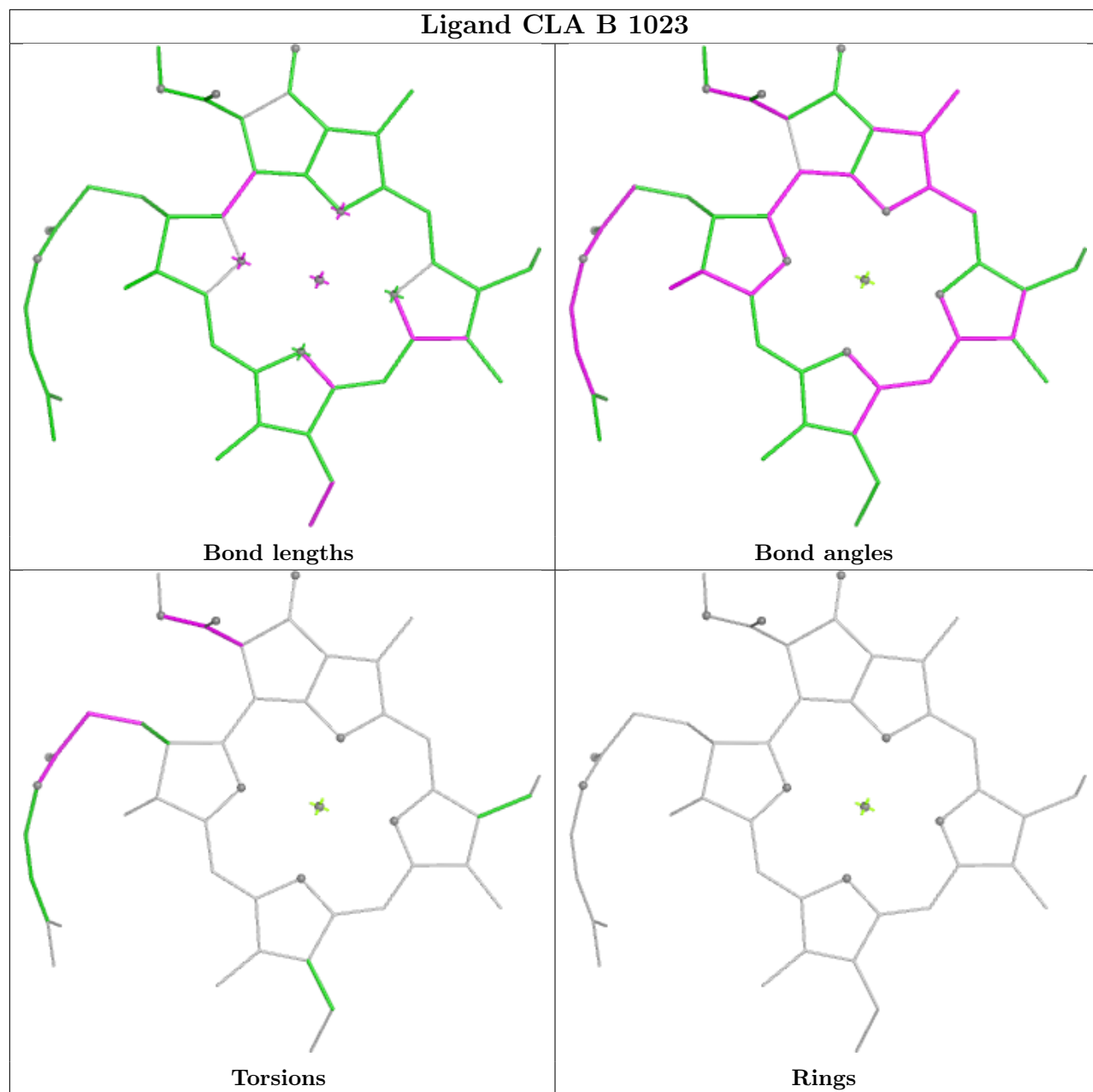
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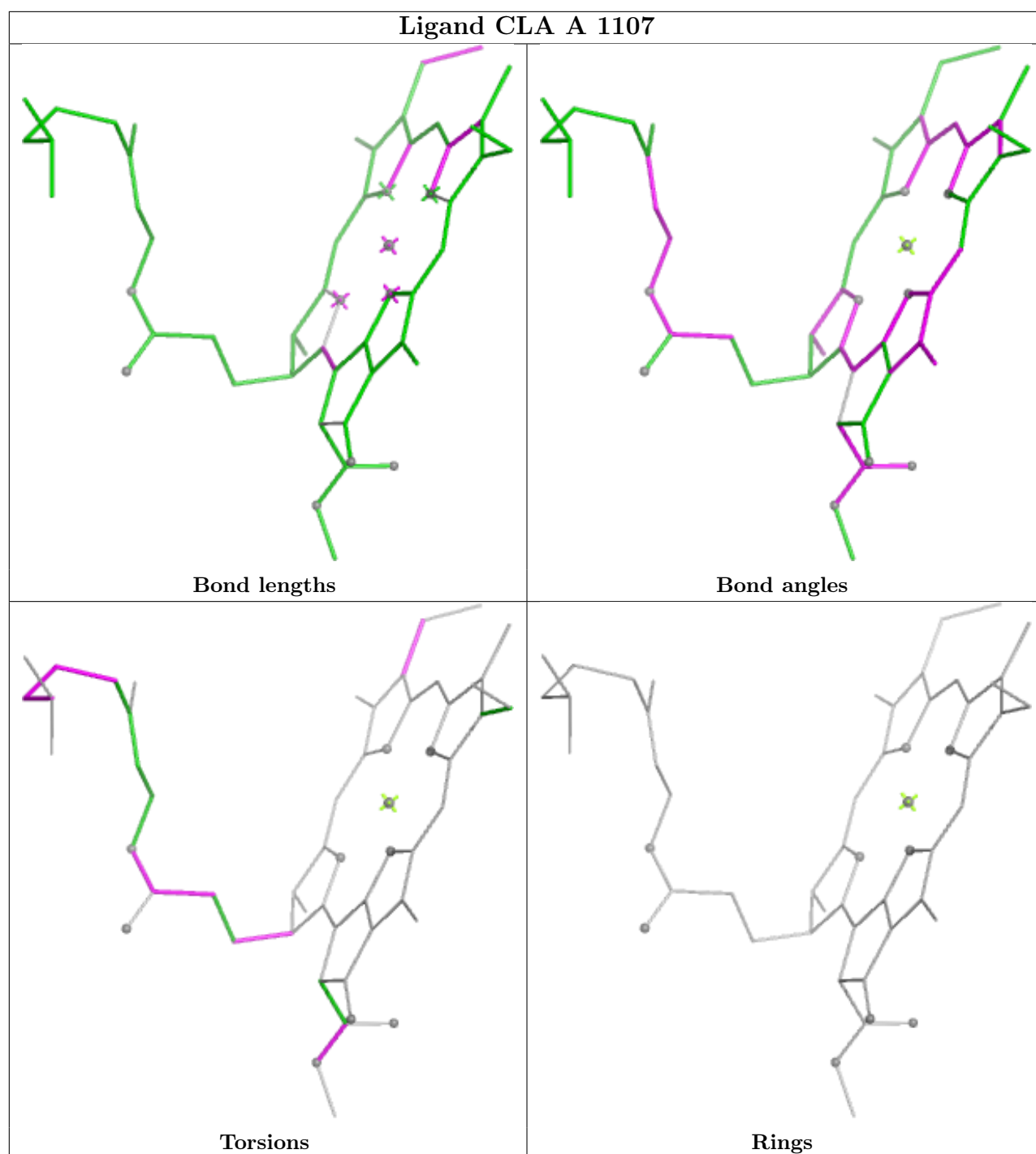


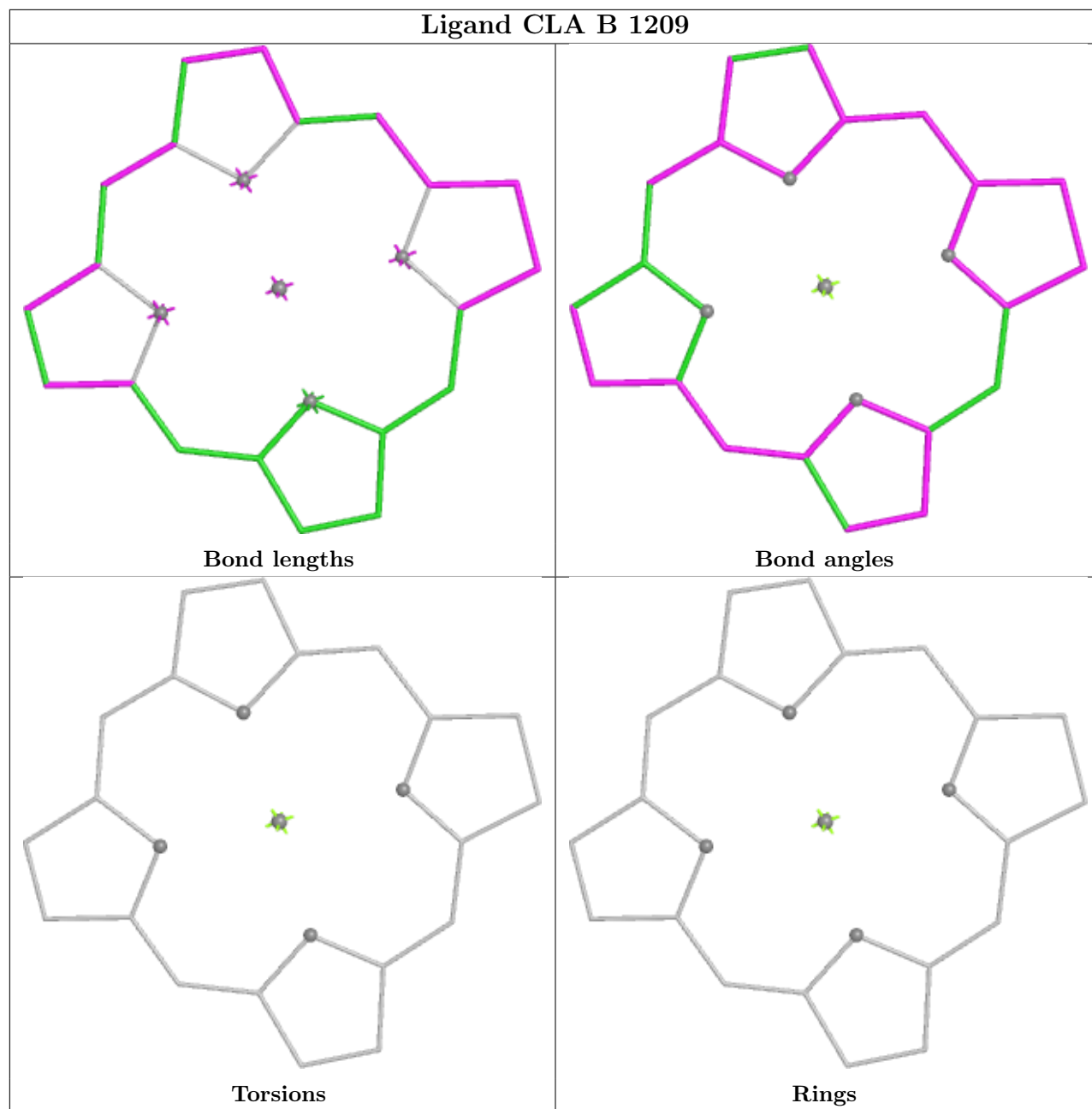
Rings



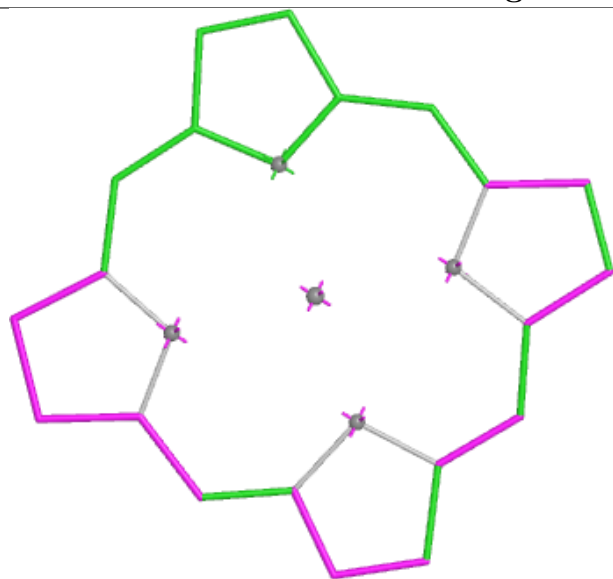




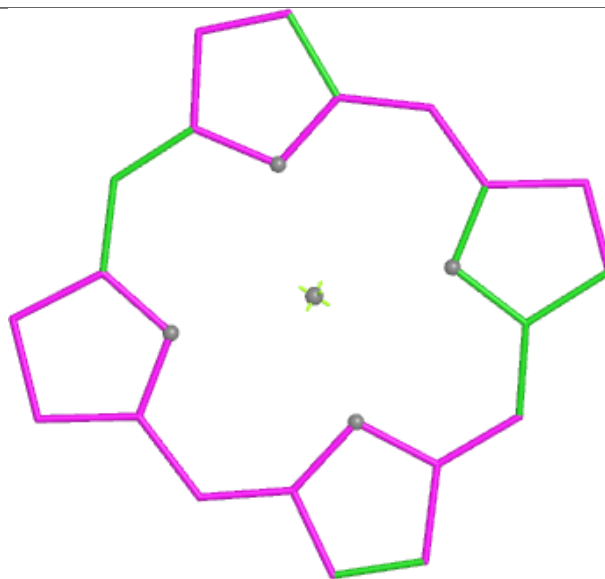




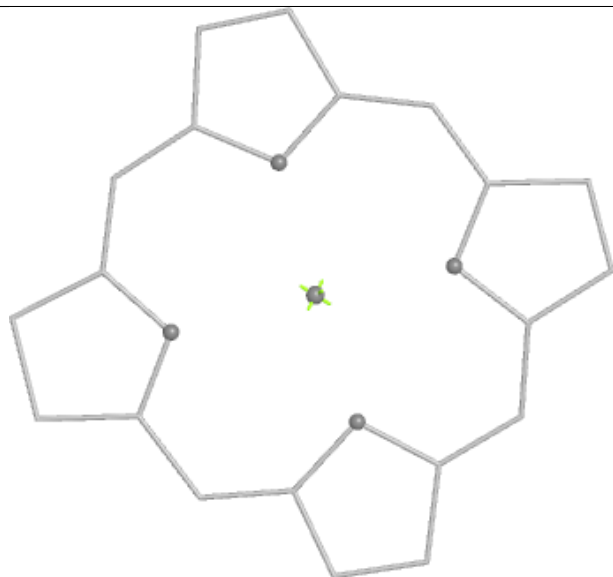
Ligand CLA B 1221



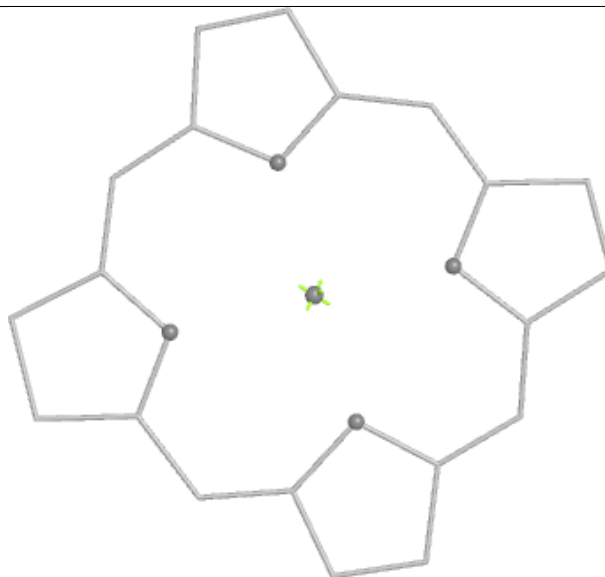
Bond lengths



Bond angles



Torsions



Rings

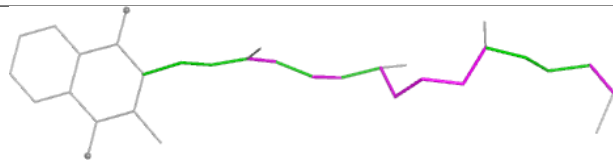
Ligand PQN A 2001



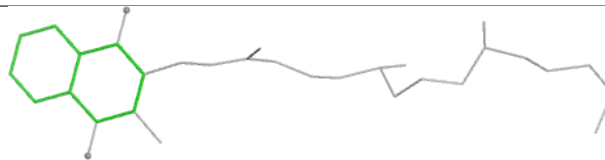
Bond lengths



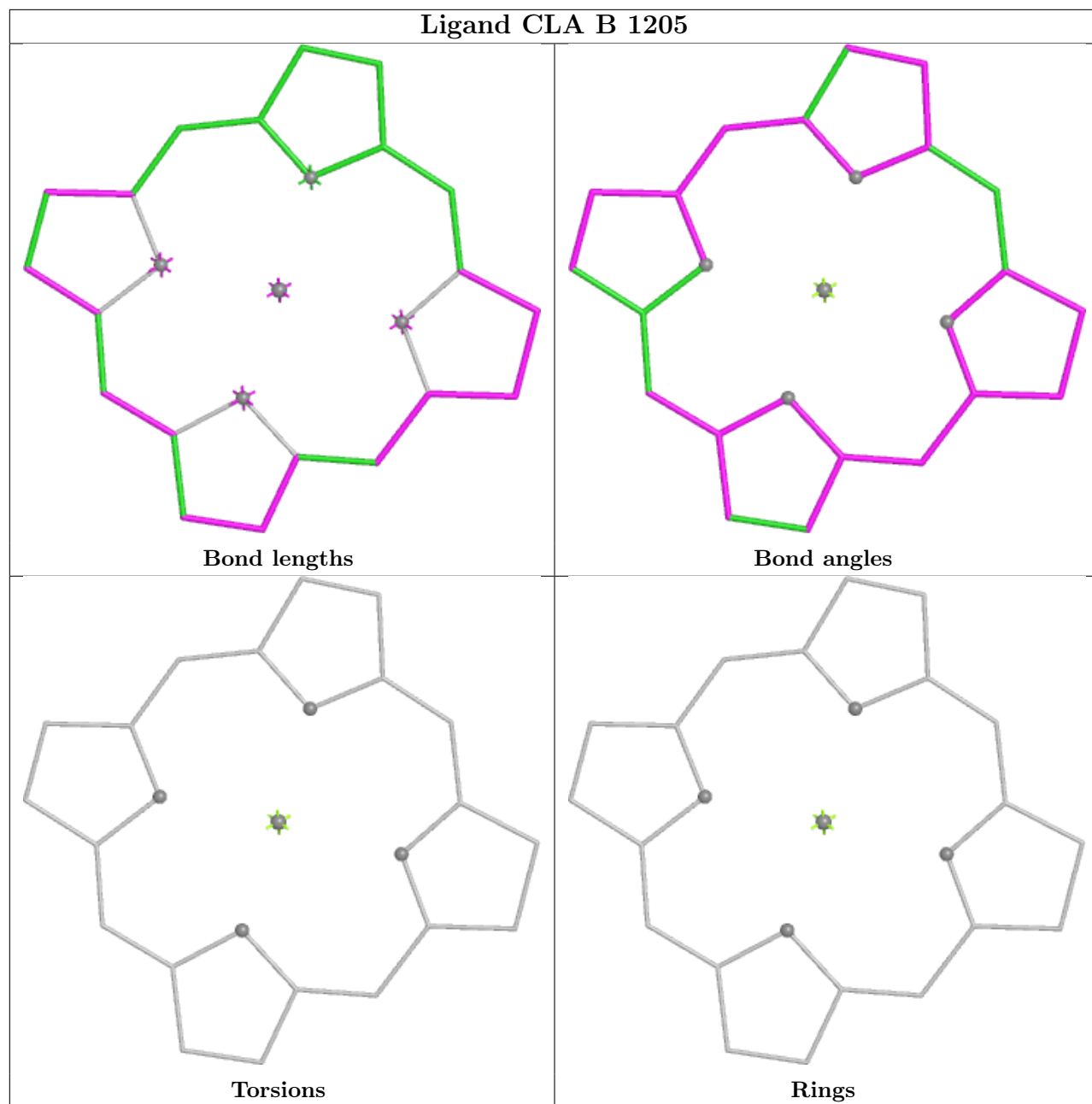
Bond angles

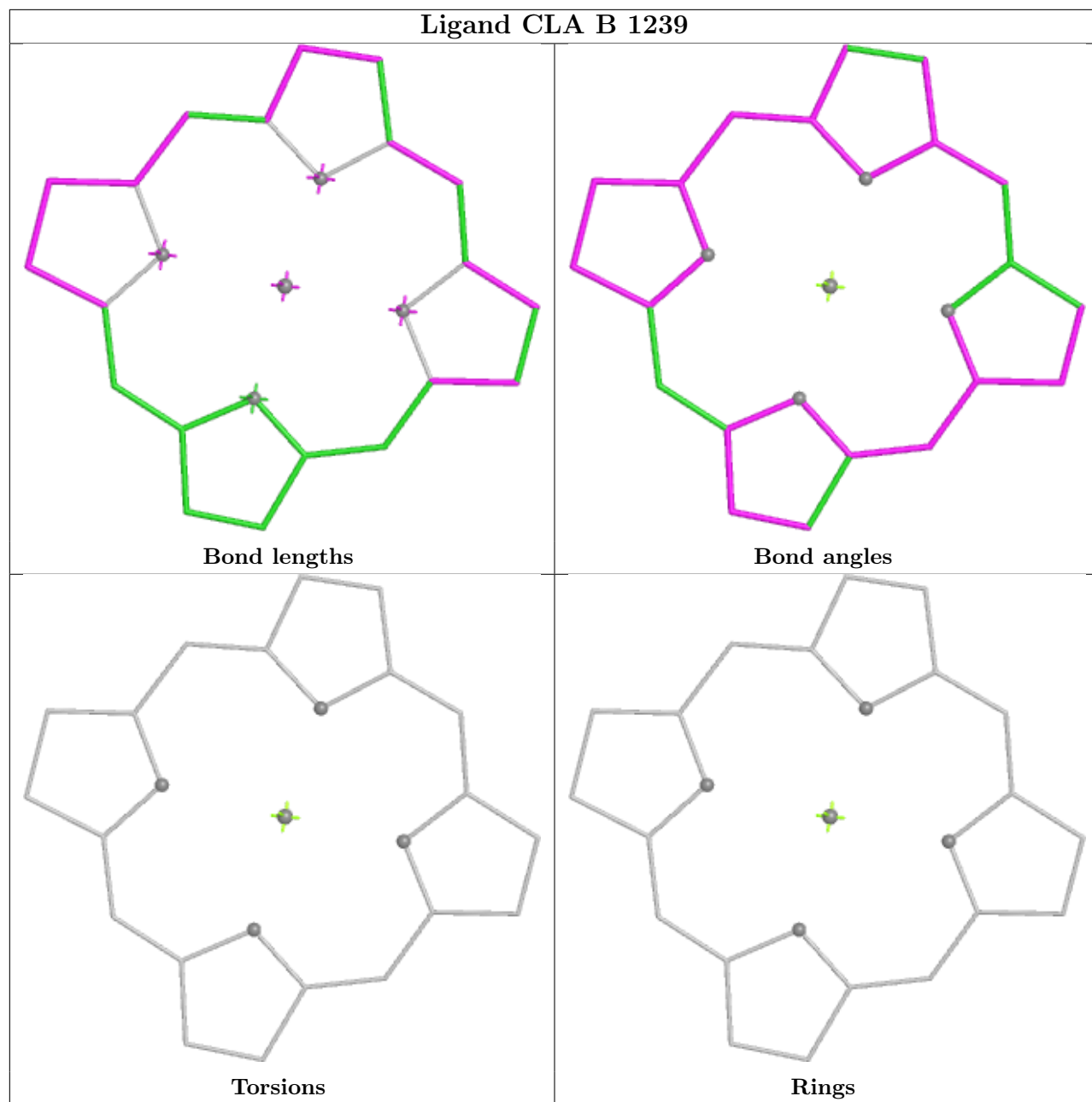


Torsions

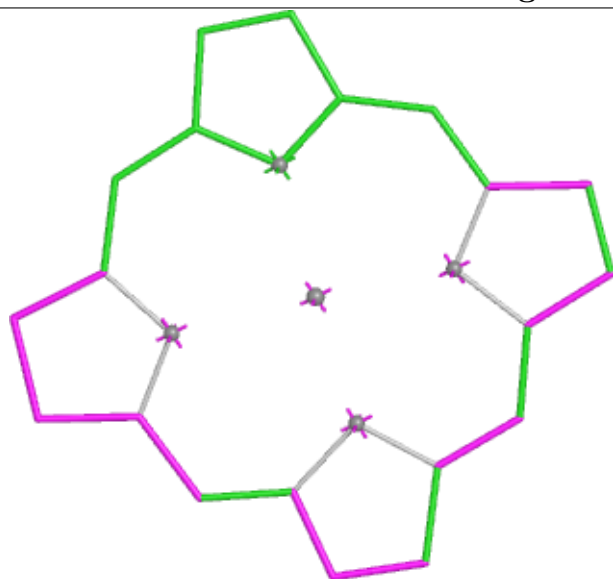


Rings

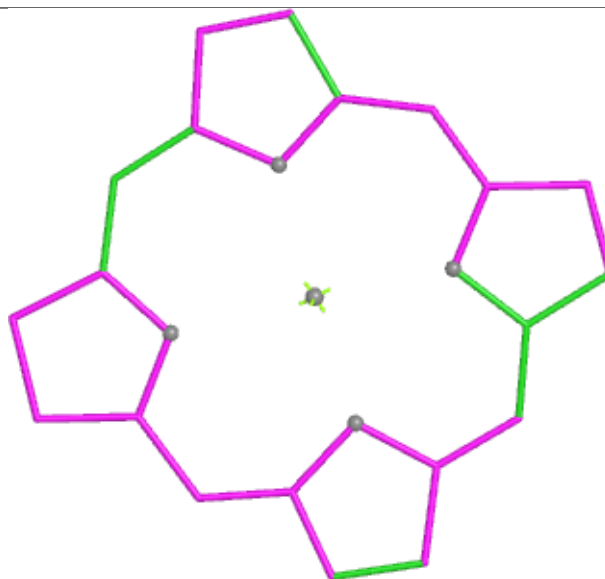




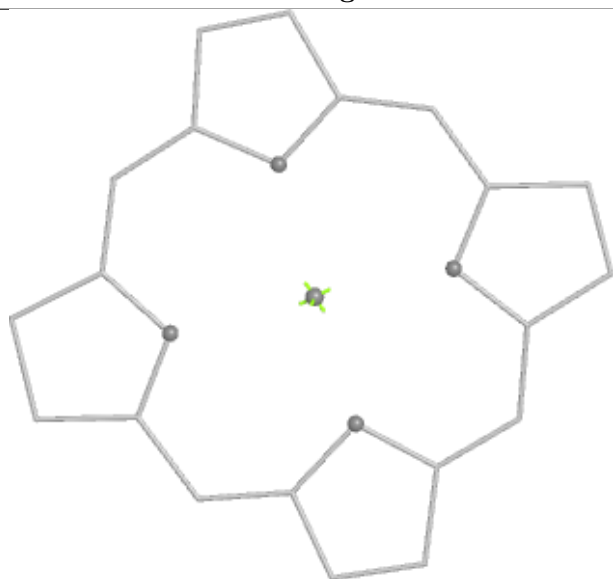
Ligand CLA 3 603



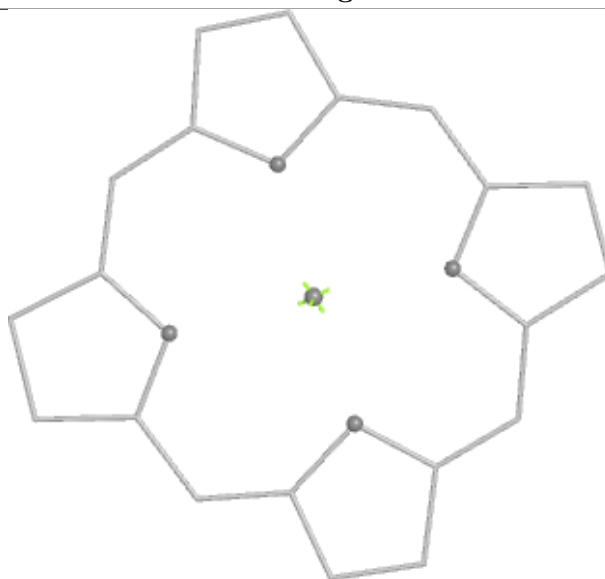
Bond lengths



Bond angles

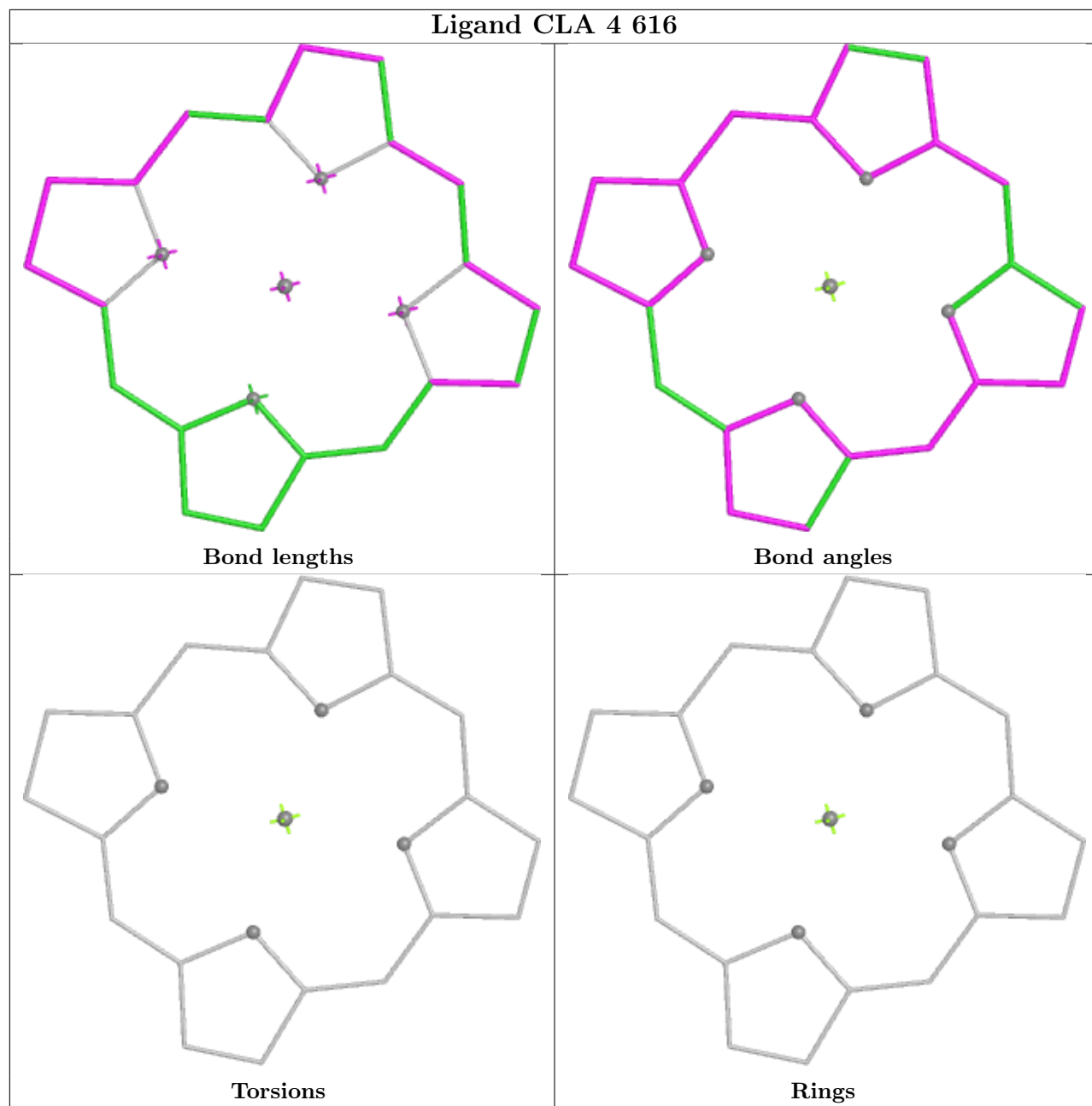


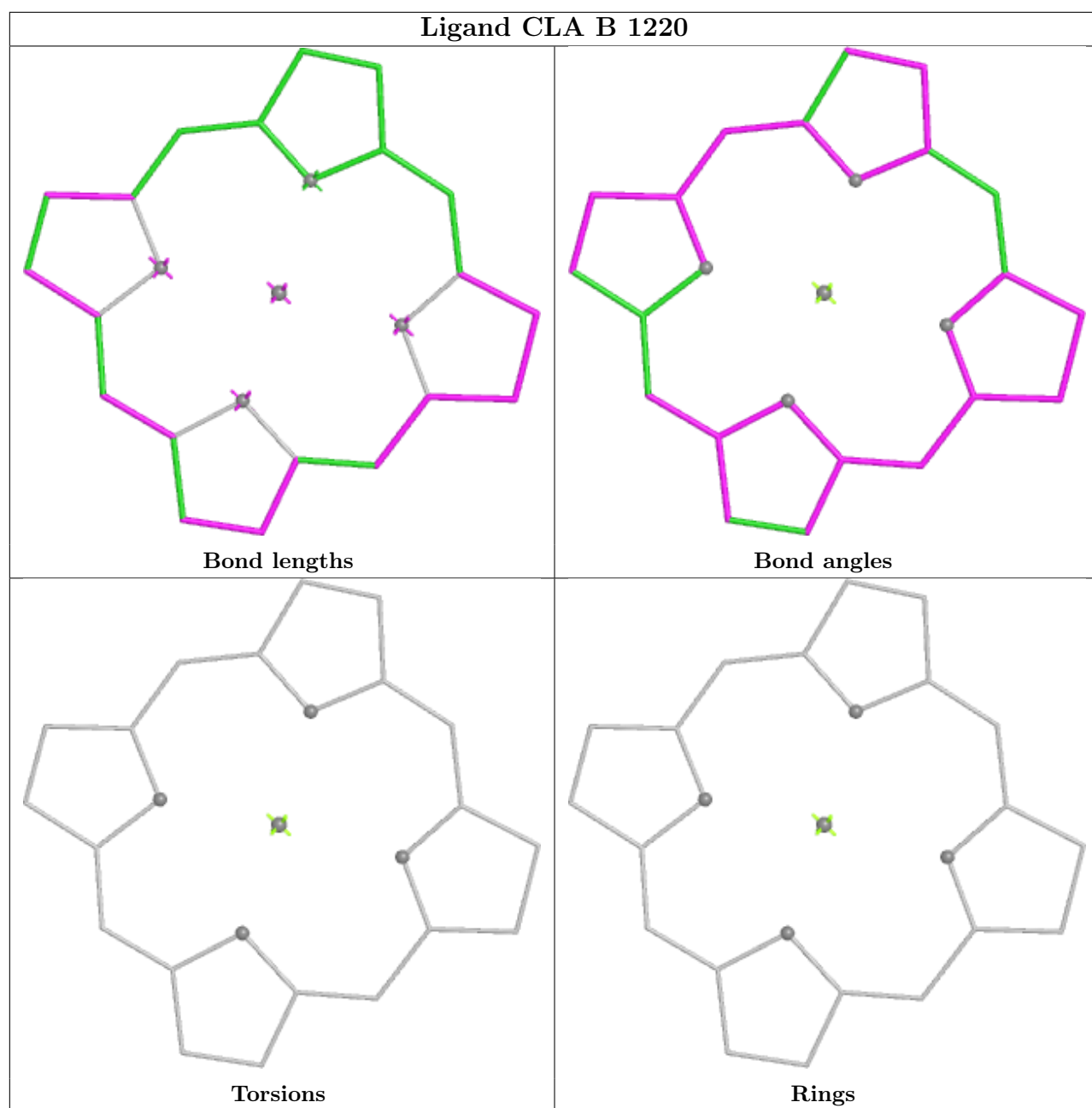
Torsions

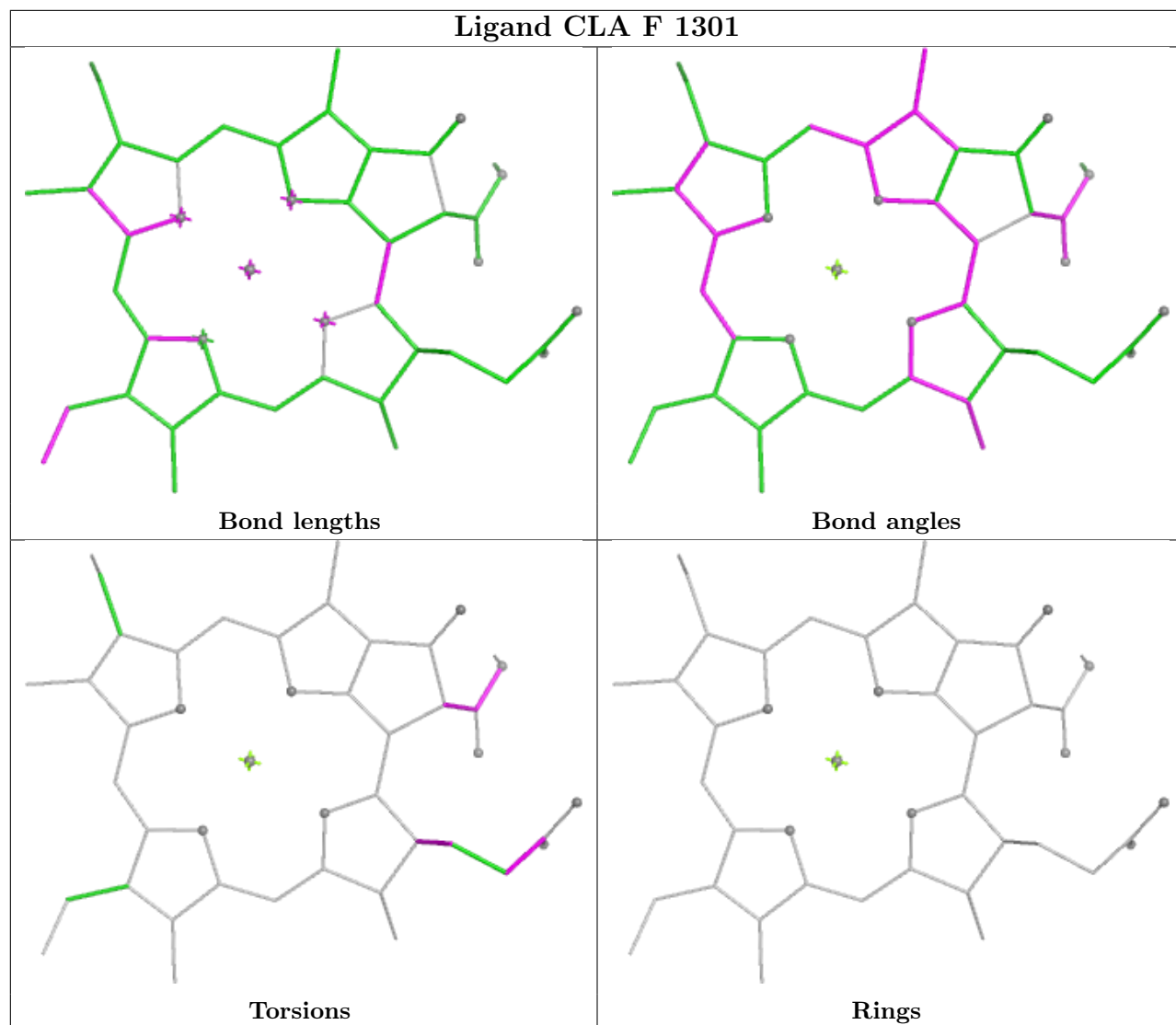


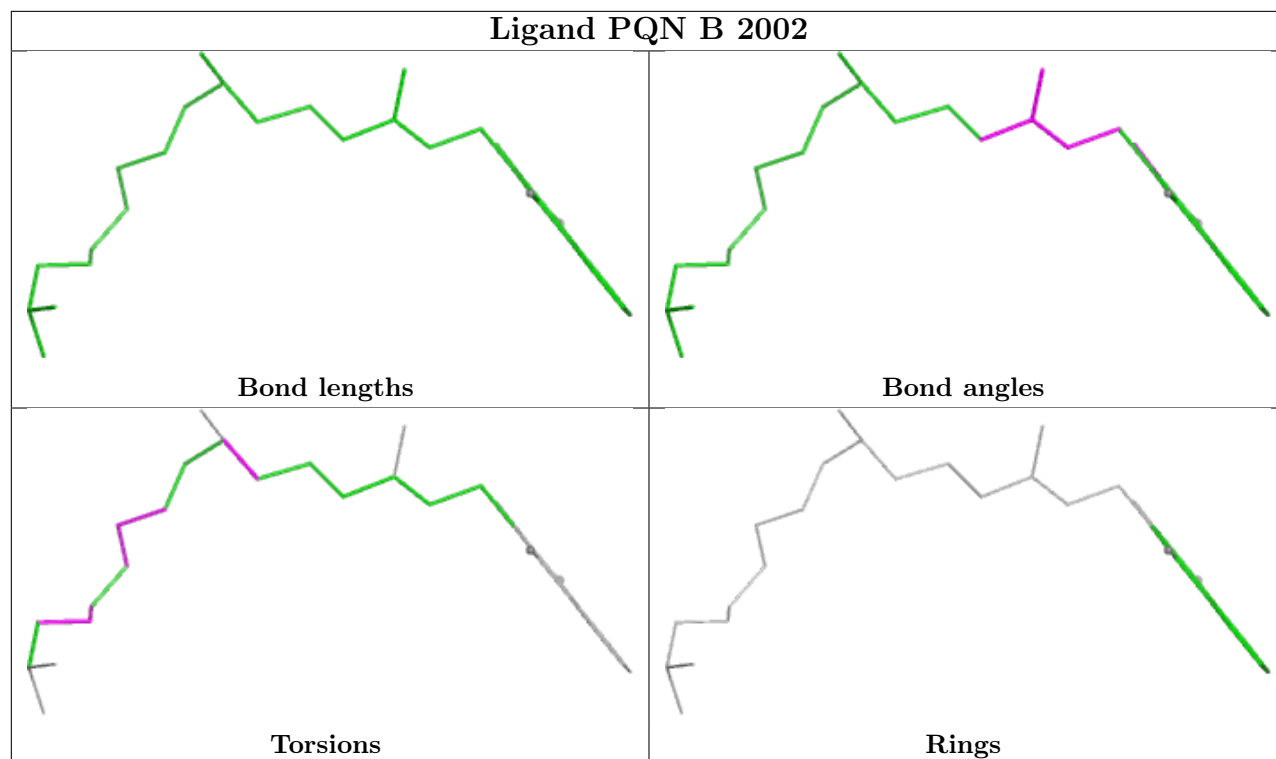
Rings

Ligand CLA 4 616

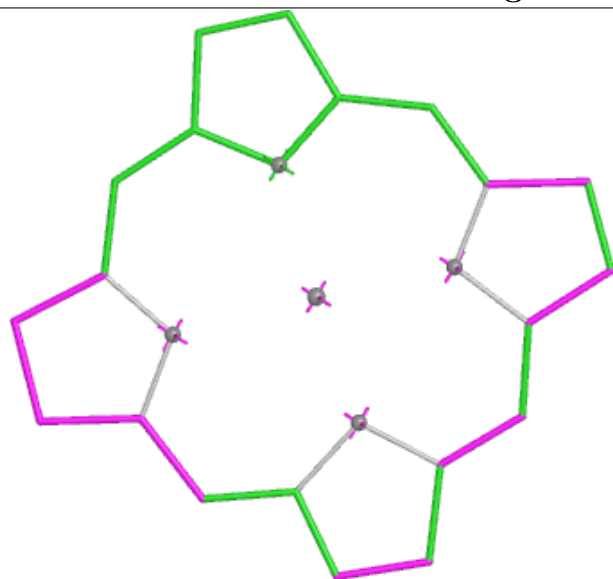




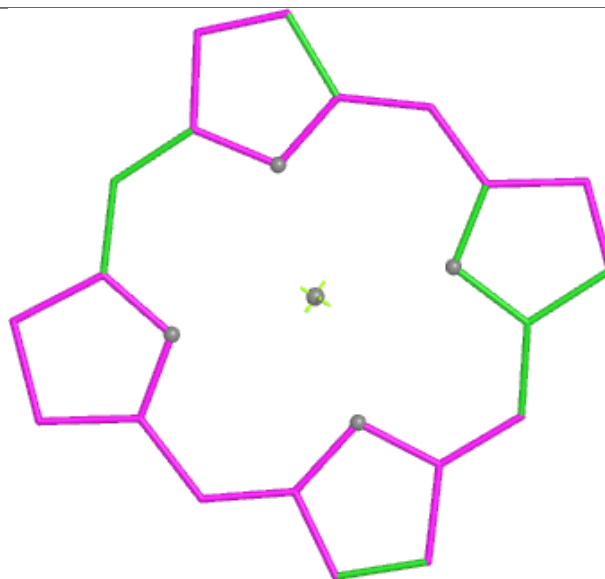




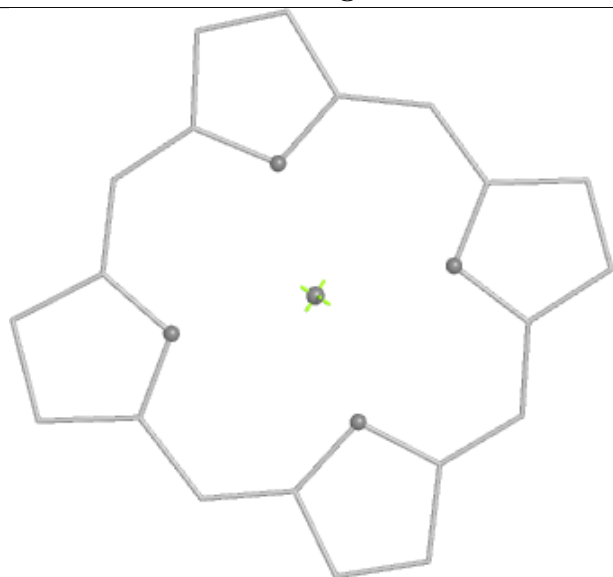
Ligand CLA A 1127



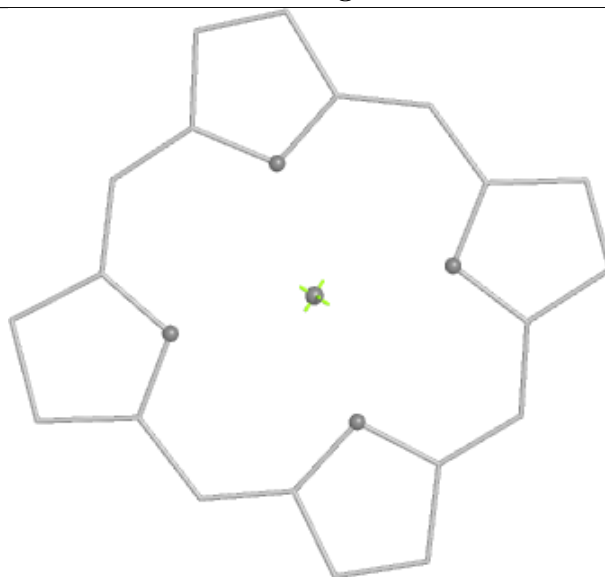
Bond lengths



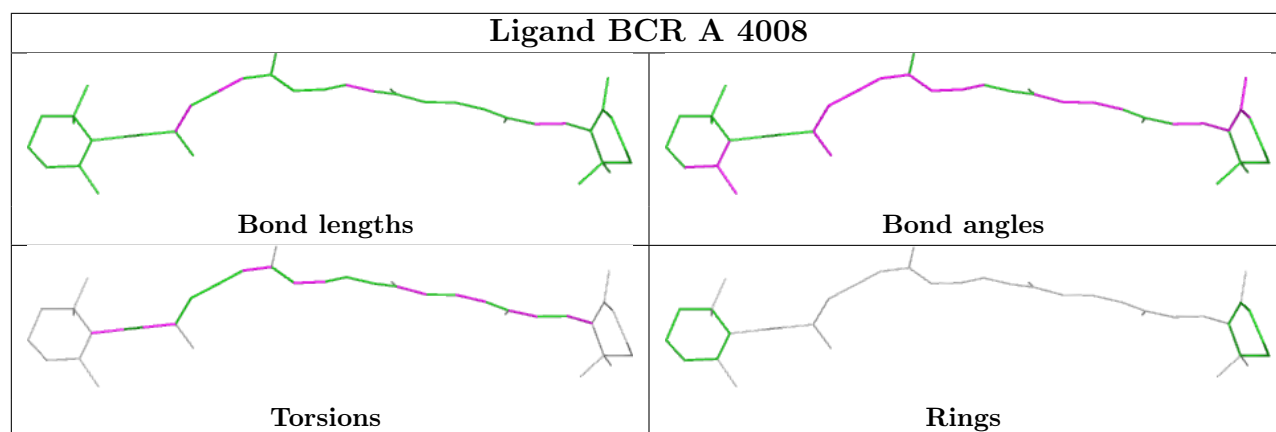
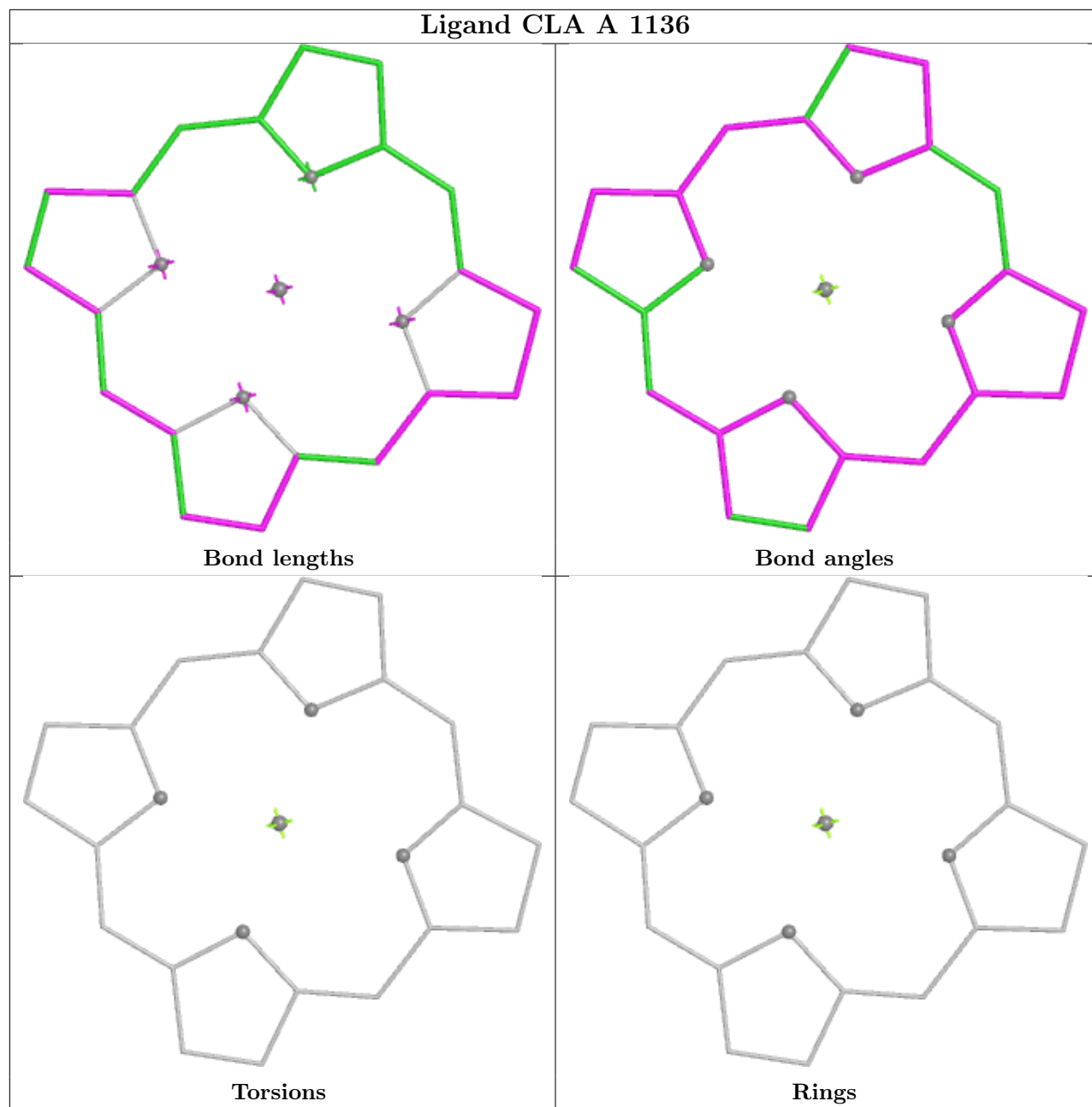
Bond angles



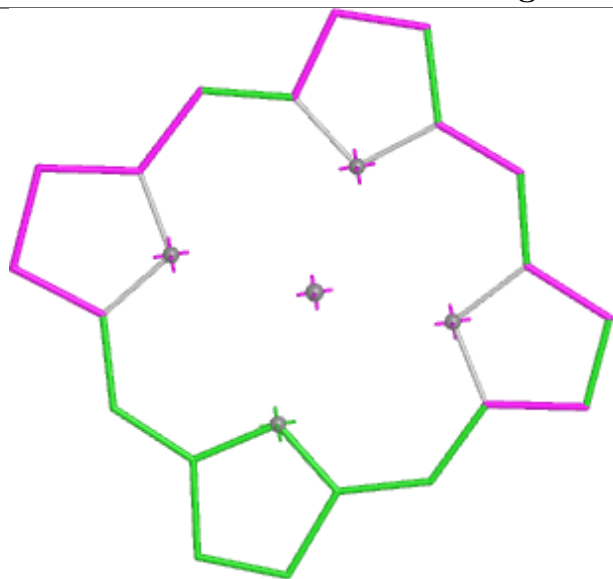
Torsions



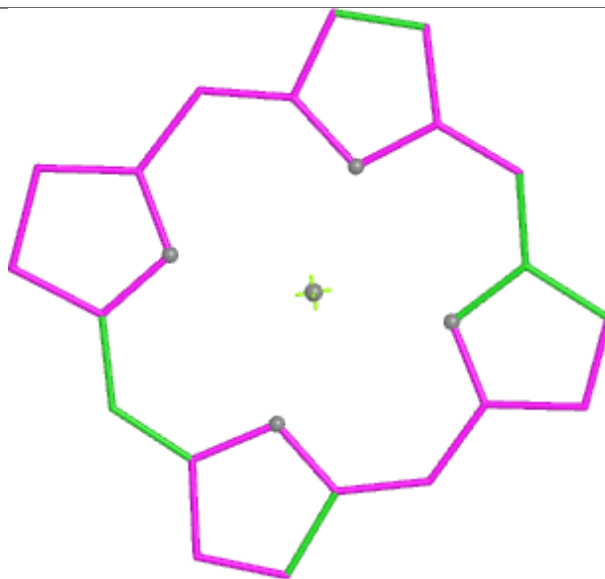
Rings



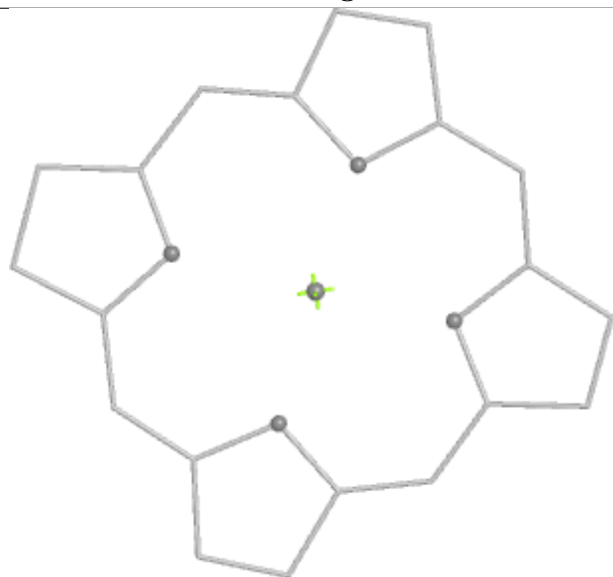
Ligand CLA 4 609



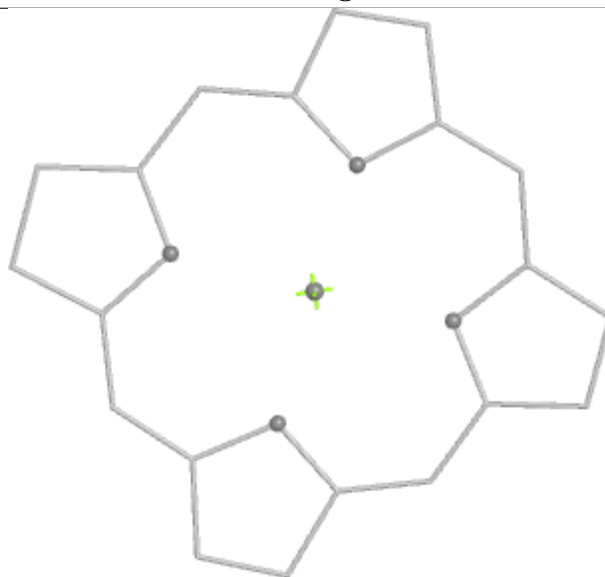
Bond lengths



Bond angles

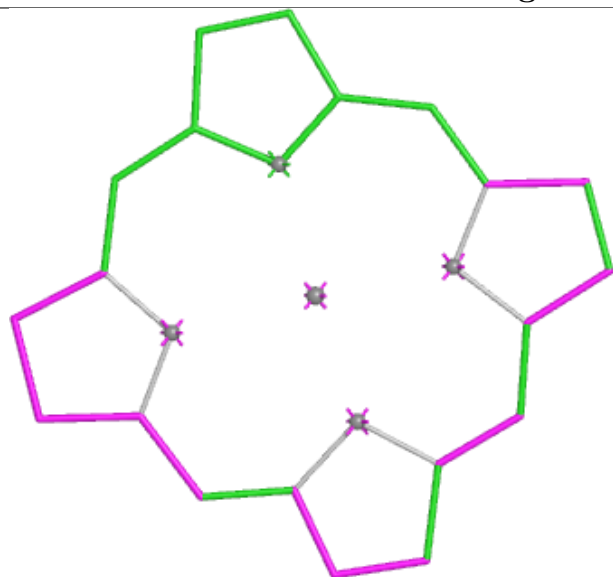


Torsions

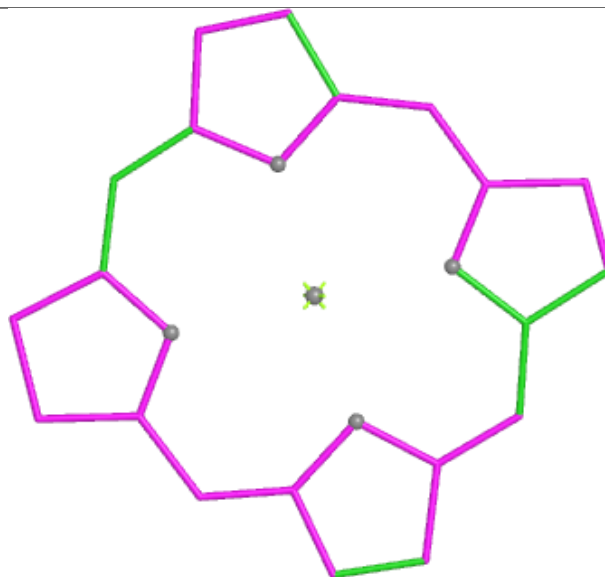


Rings

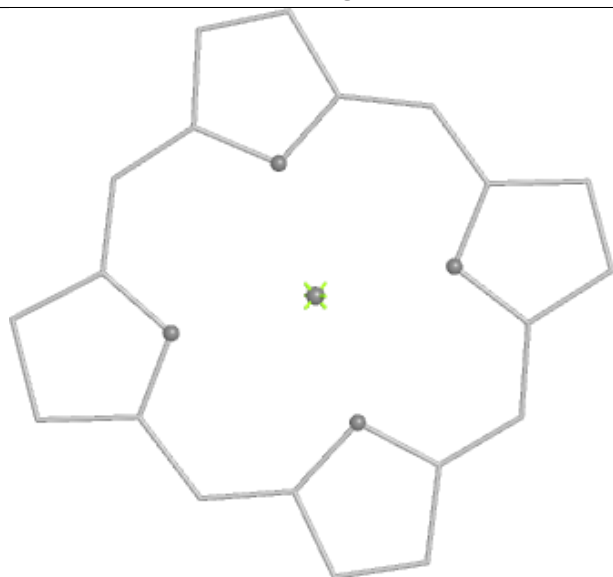
Ligand CLA 4 601



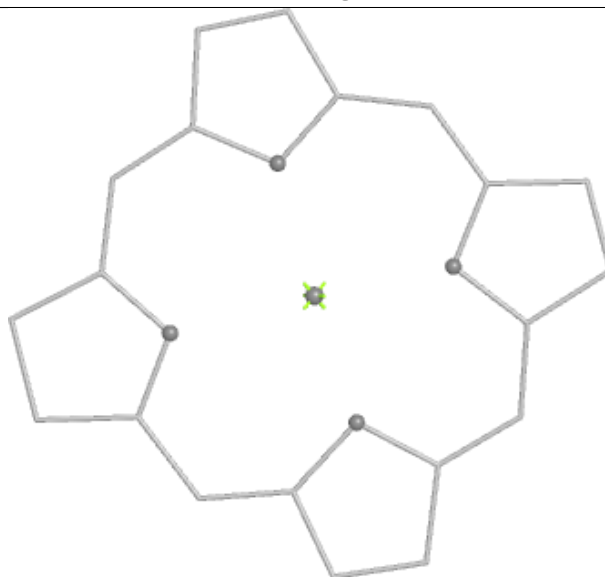
Bond lengths



Bond angles

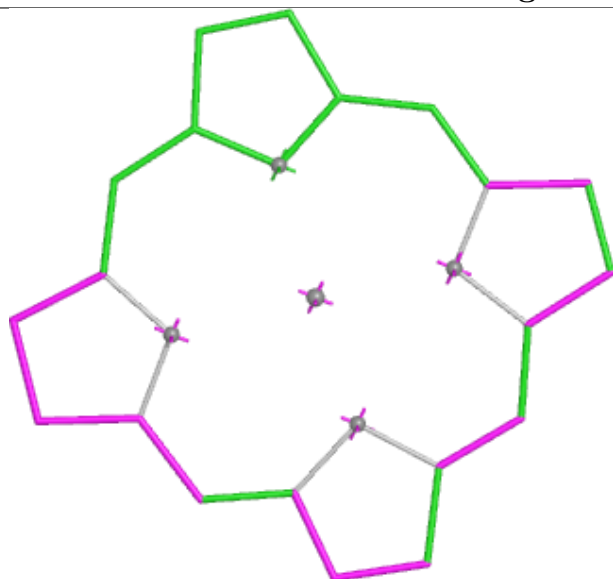


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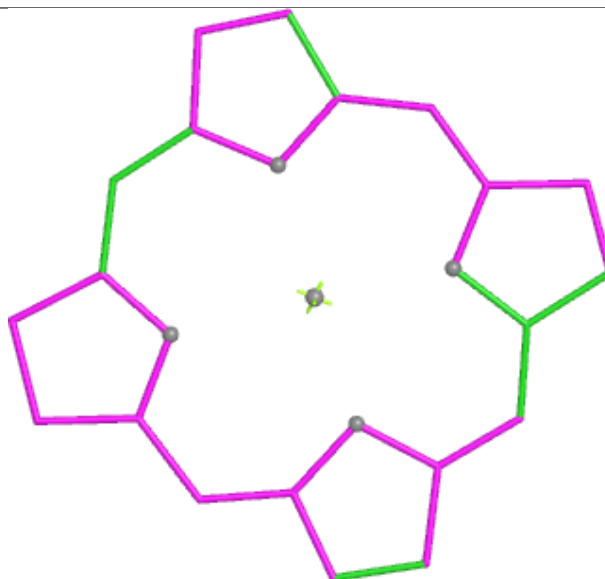


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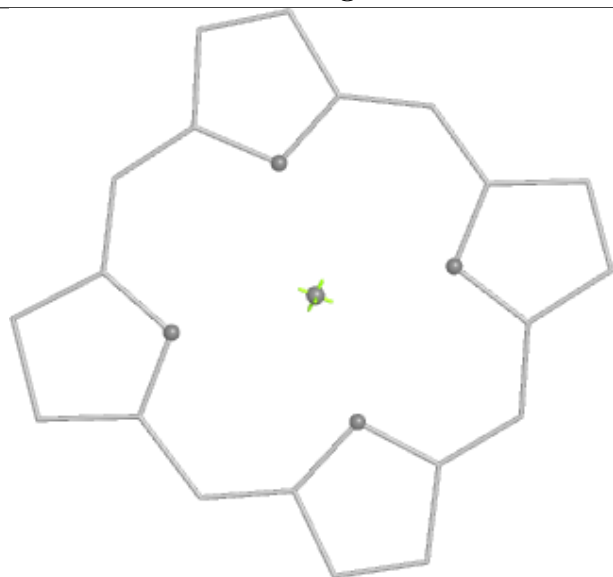
Ligand CLA 4 610



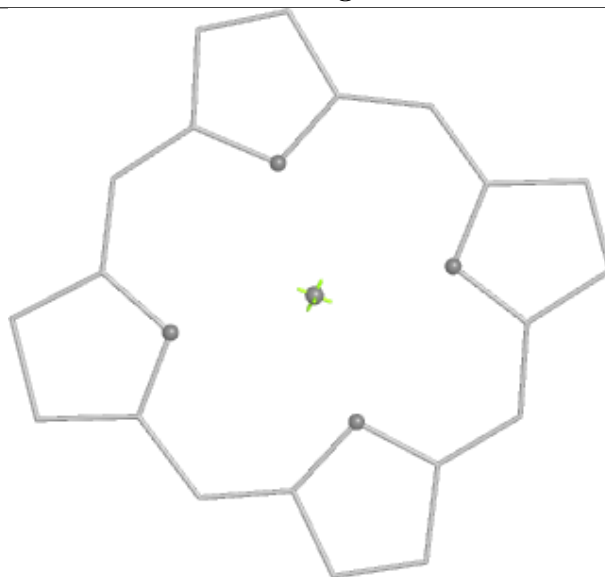
Bond lengths



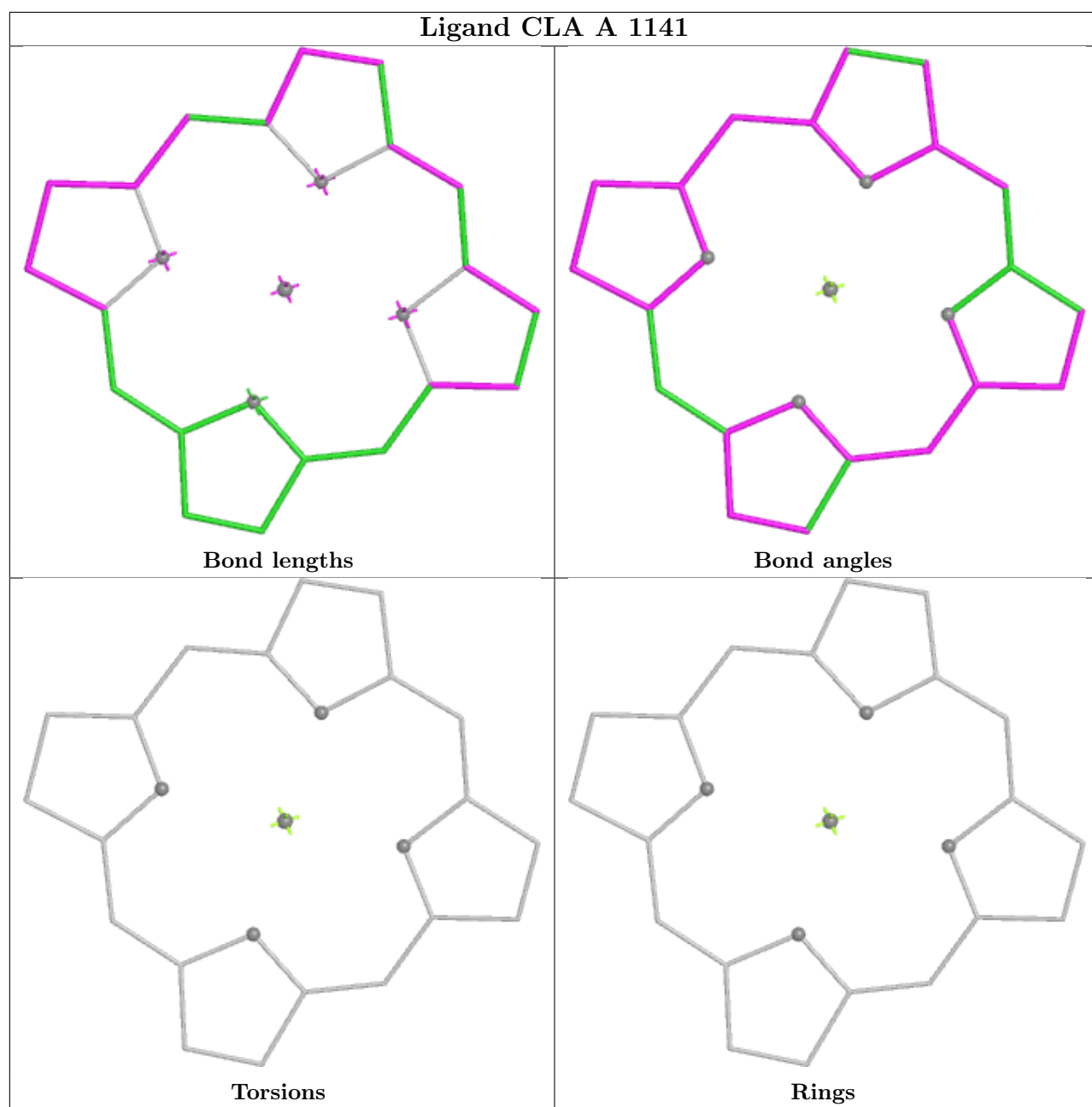
Bond angles



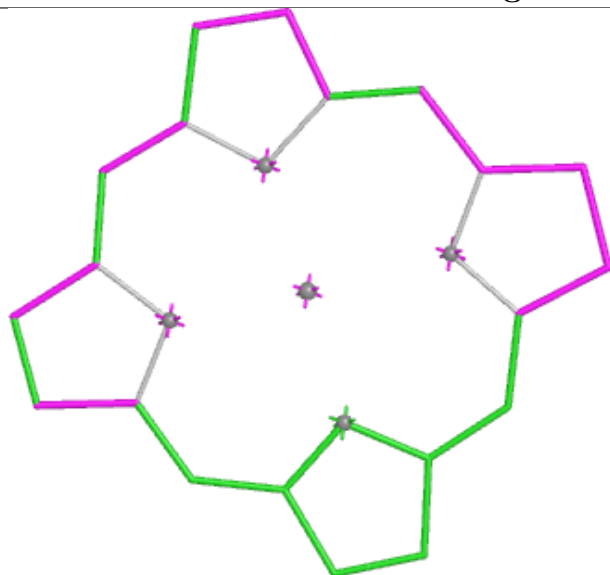
Torsions



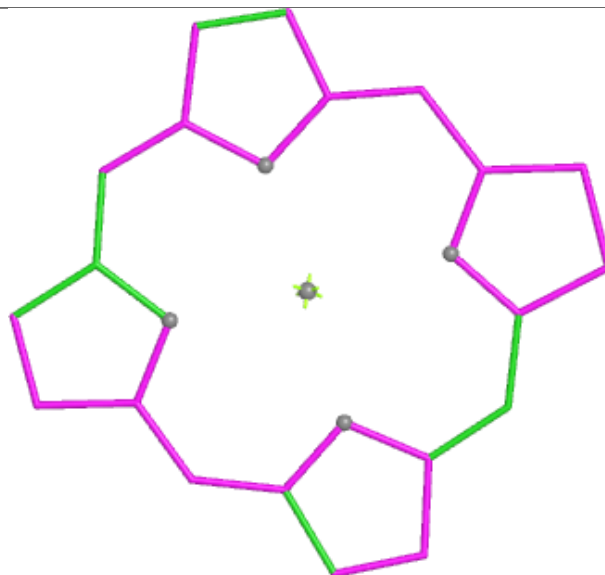
Rings



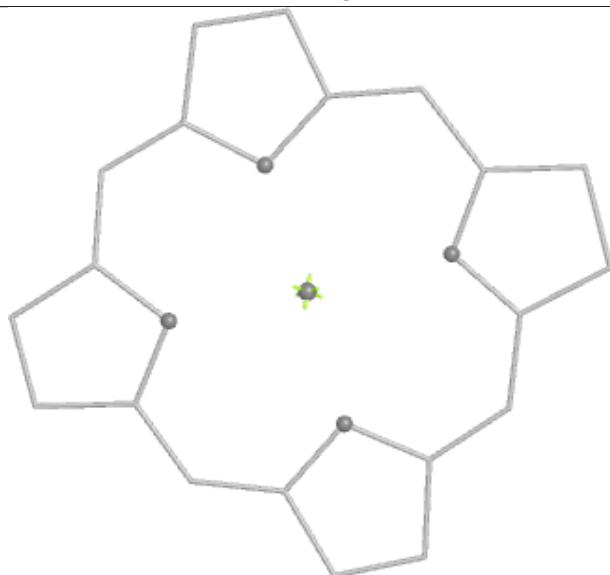
Ligand CLA A 1113



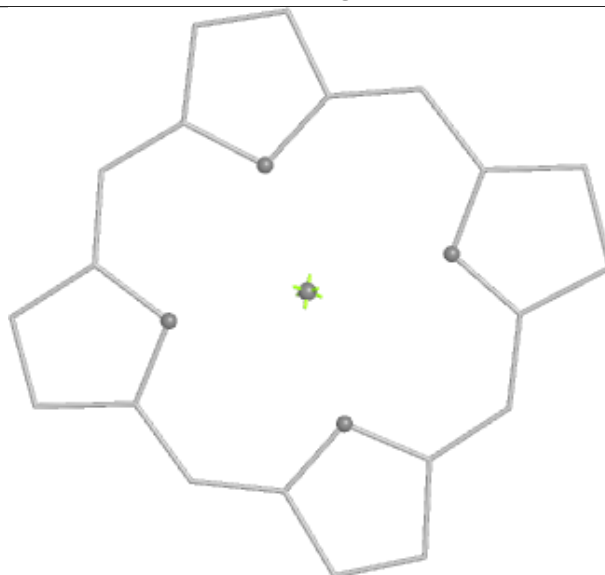
Bond lengths



Bond angles

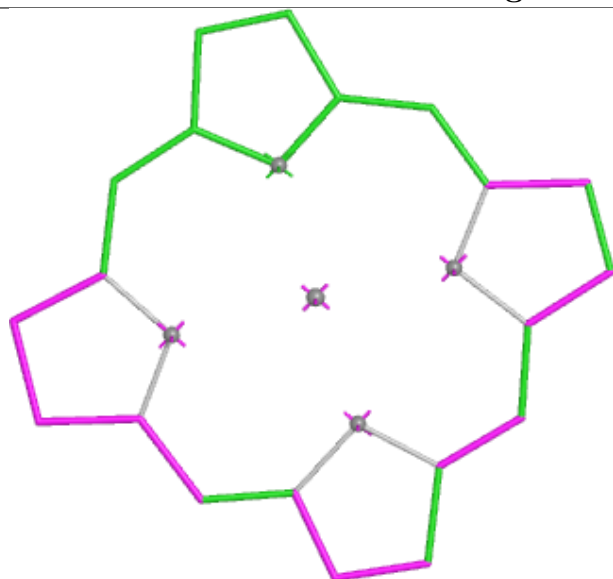


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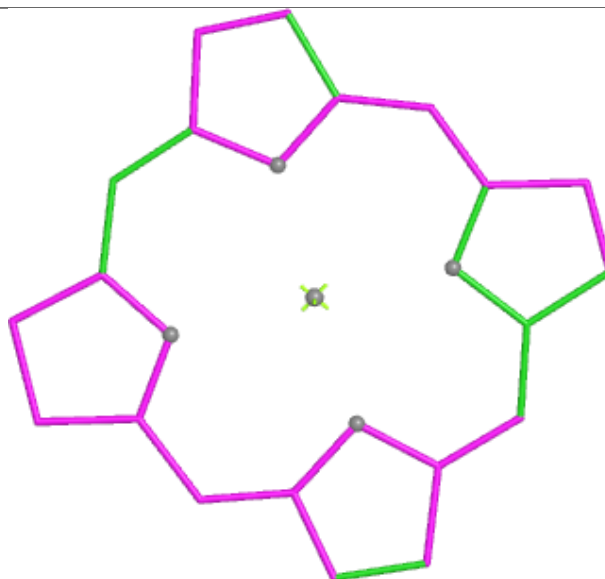


Rings

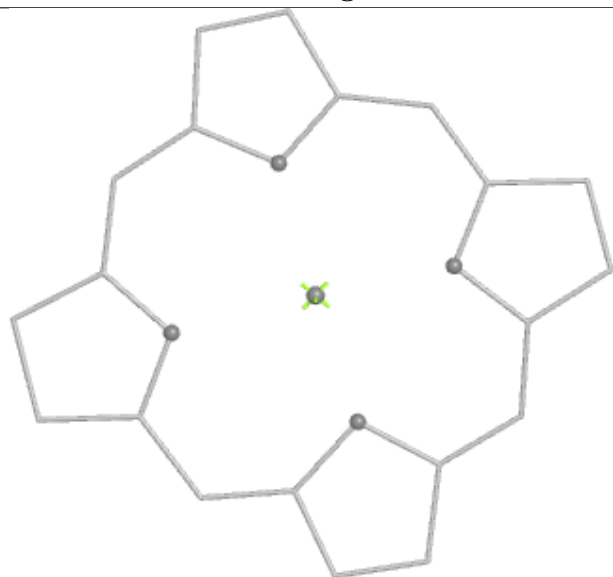
Ligand CLA B 1231



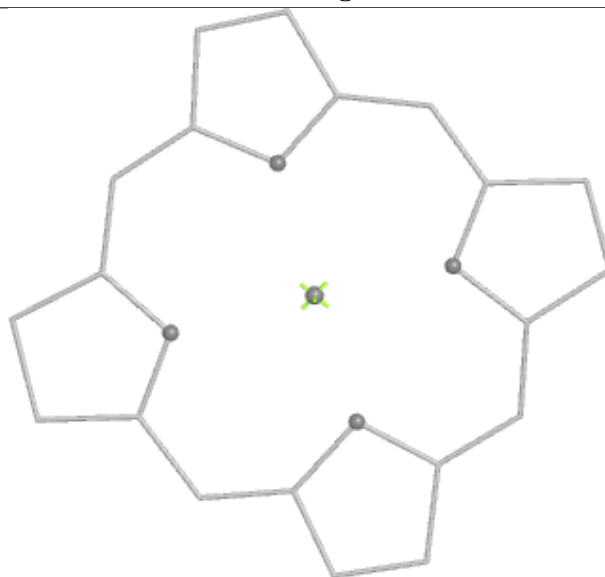
Bond lengths



Bond angles

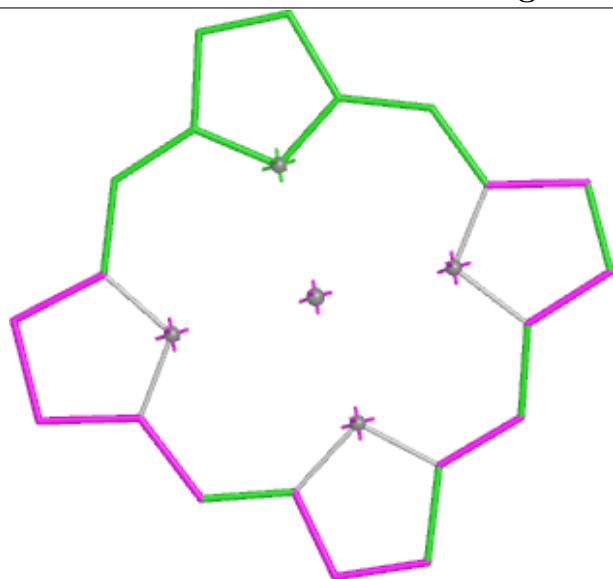


Torsions

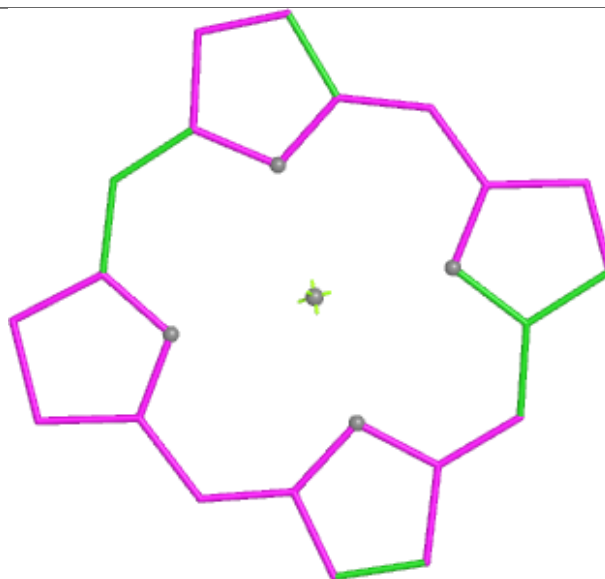


Rings

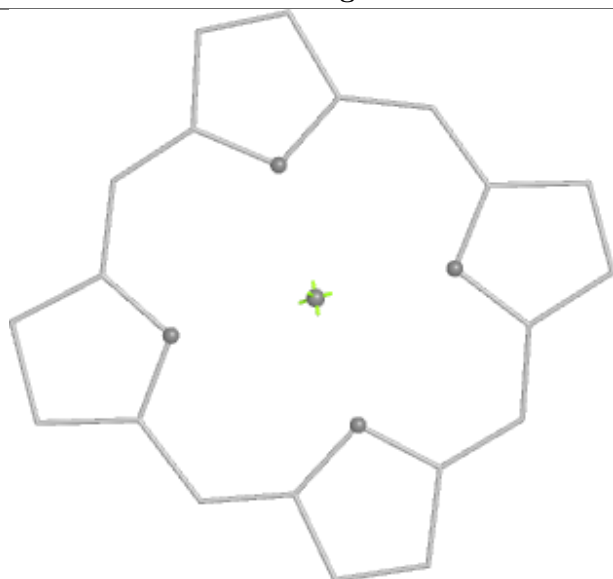
Ligand CLA 3 608



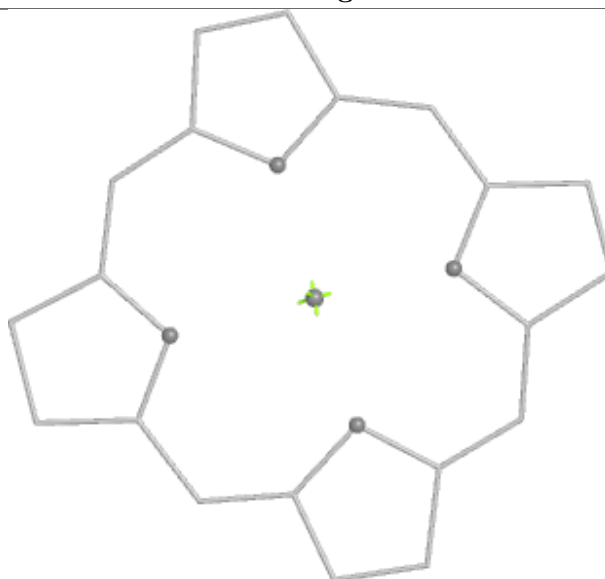
Bond lengths



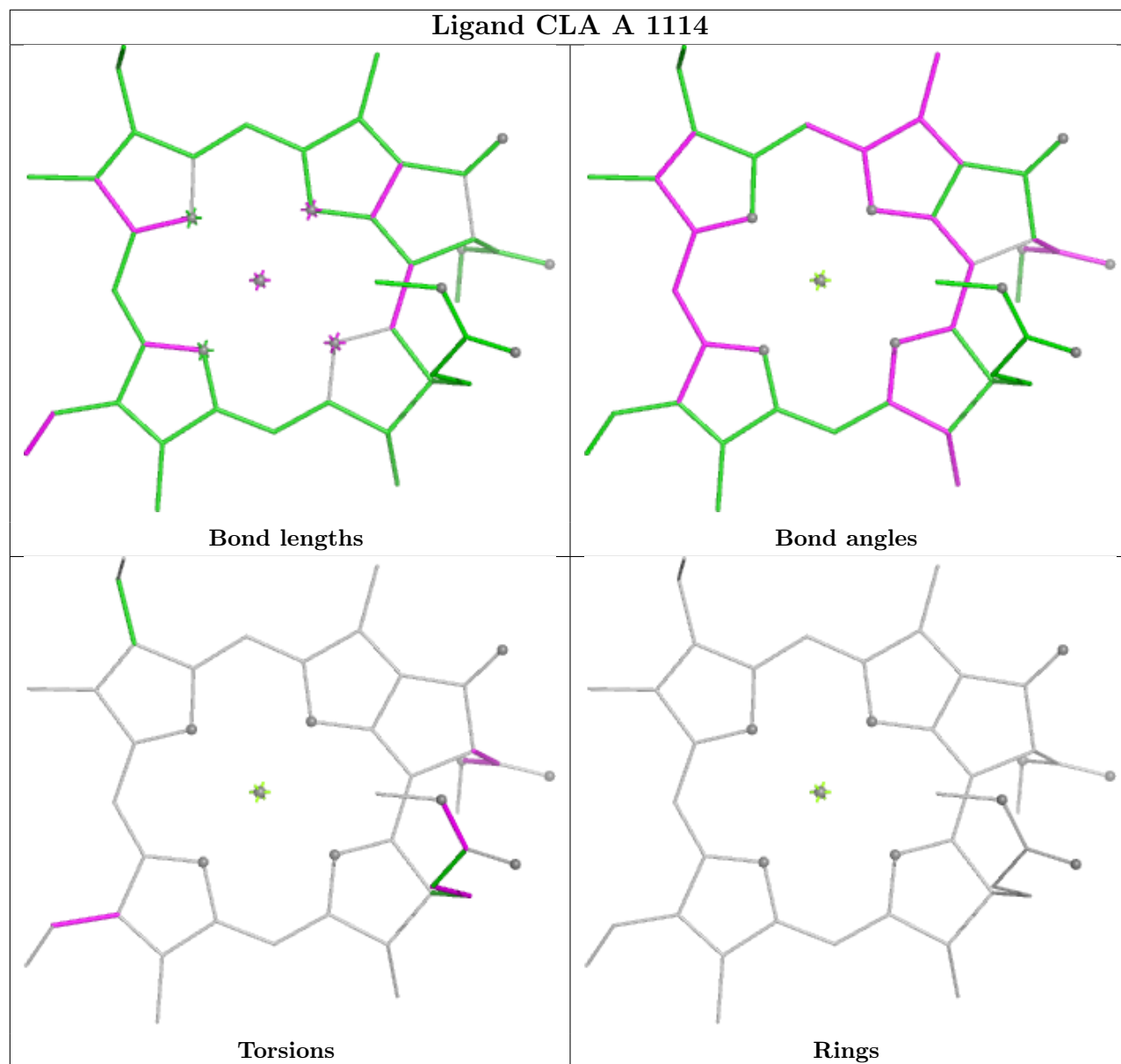
Bond angles



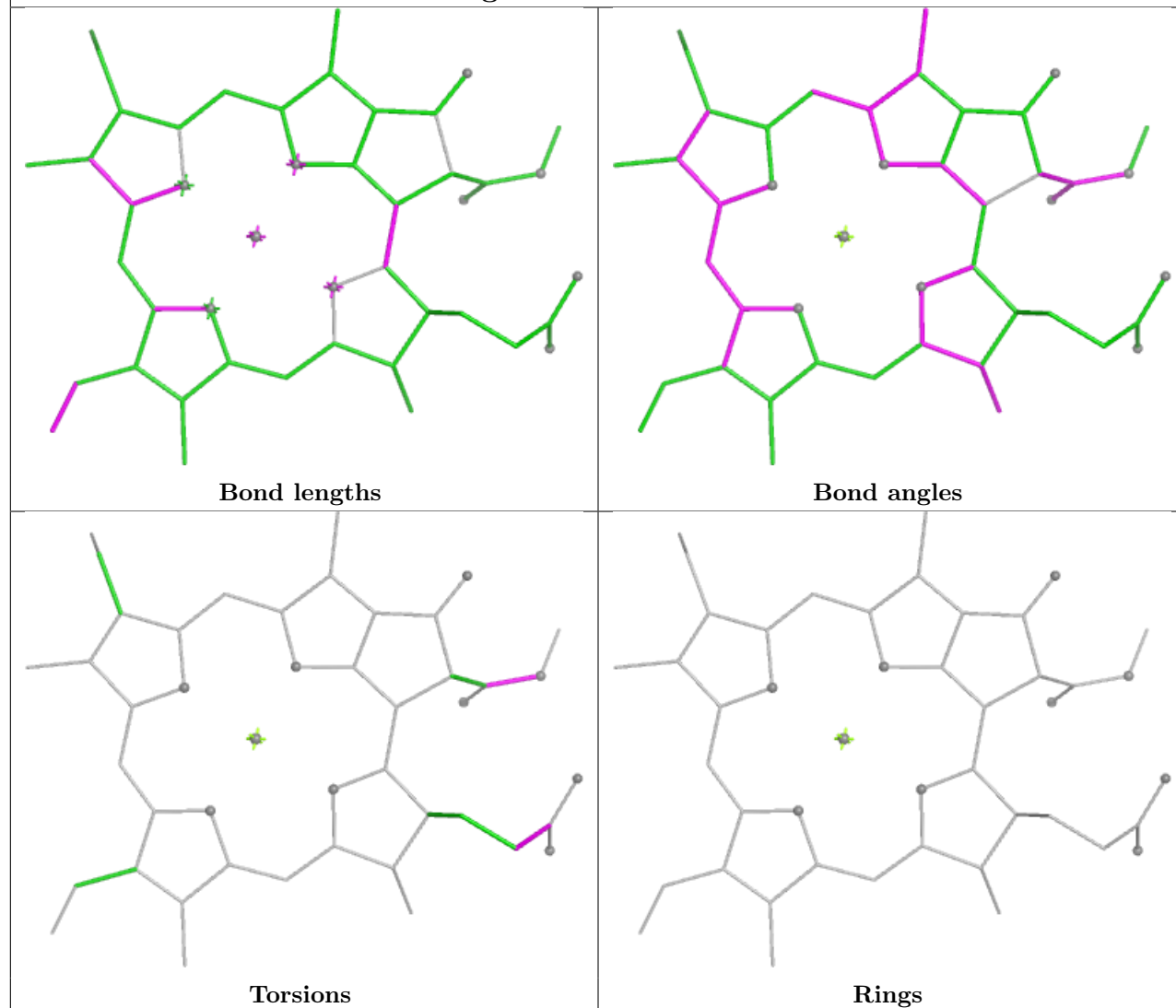
Torsions

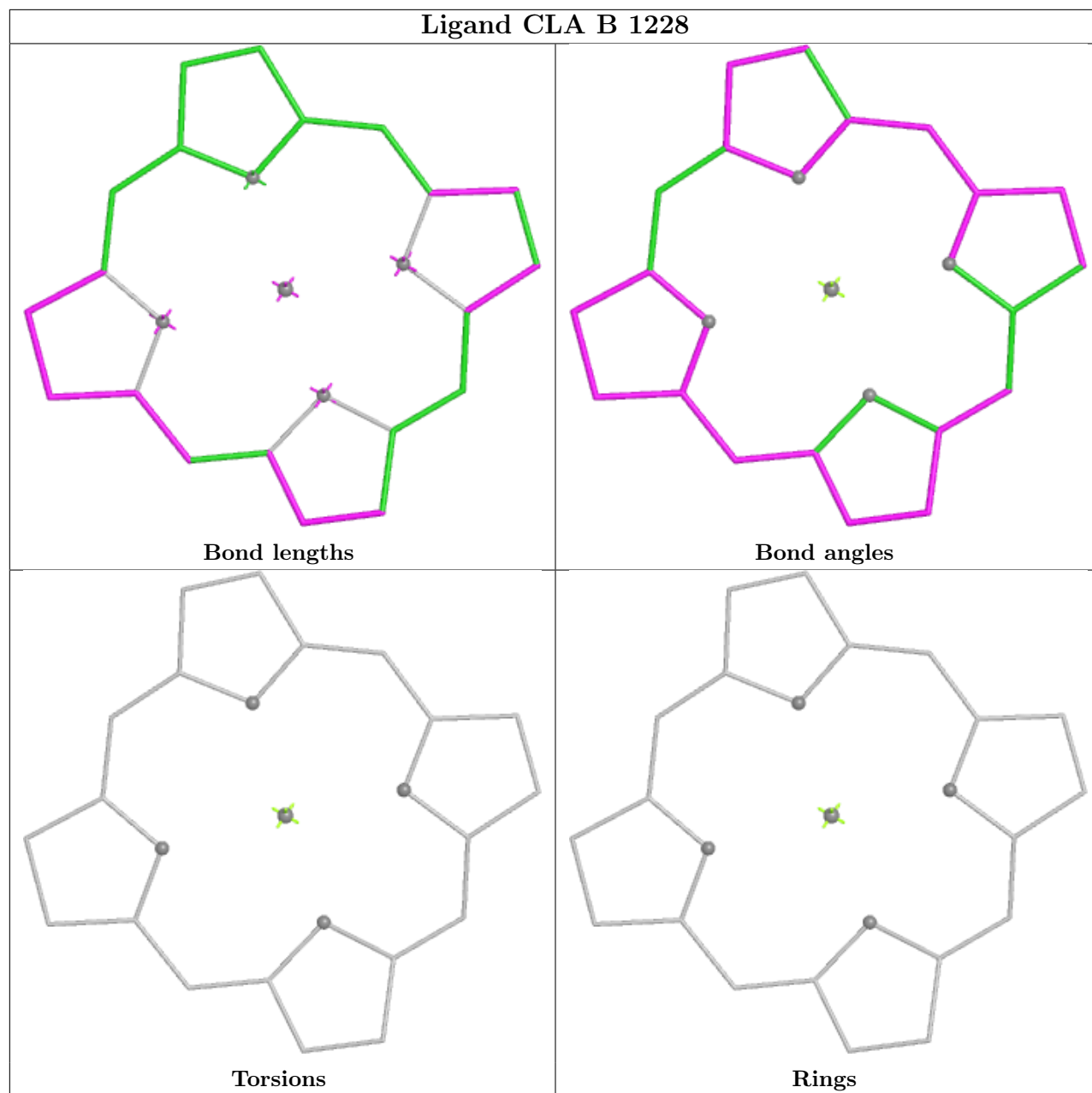


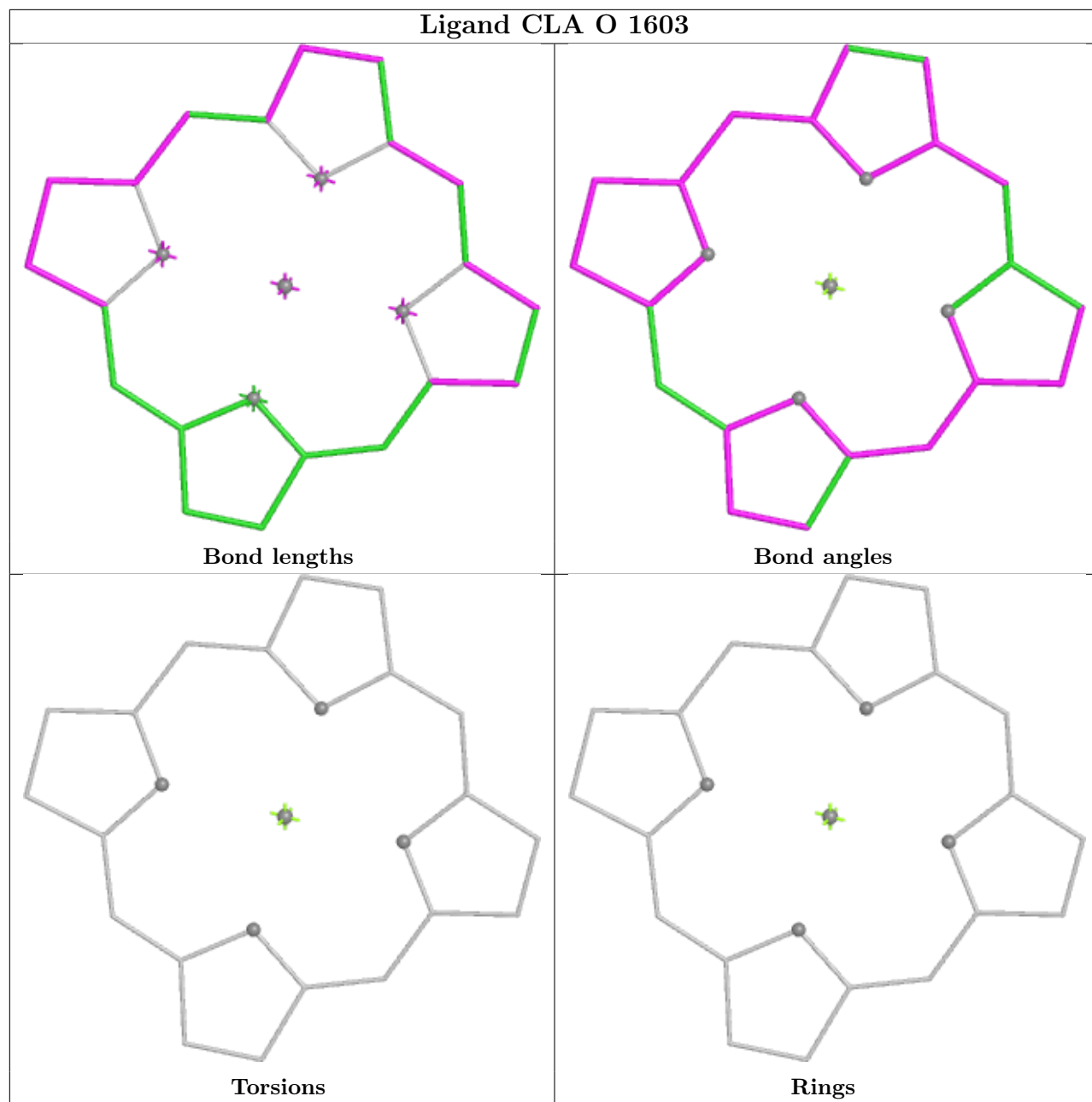
Rings



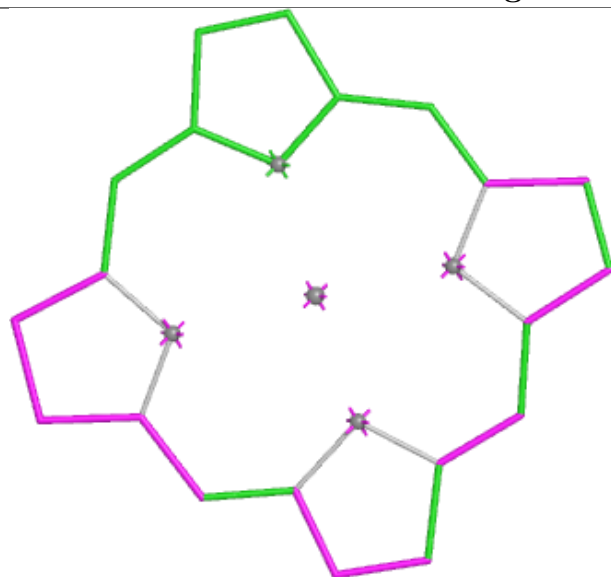
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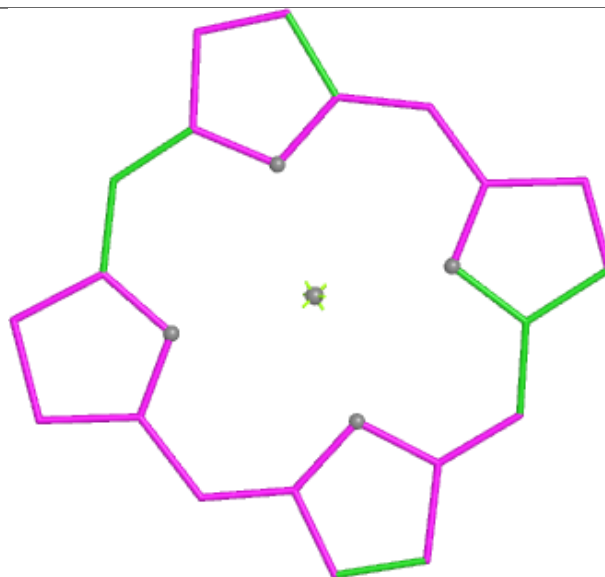




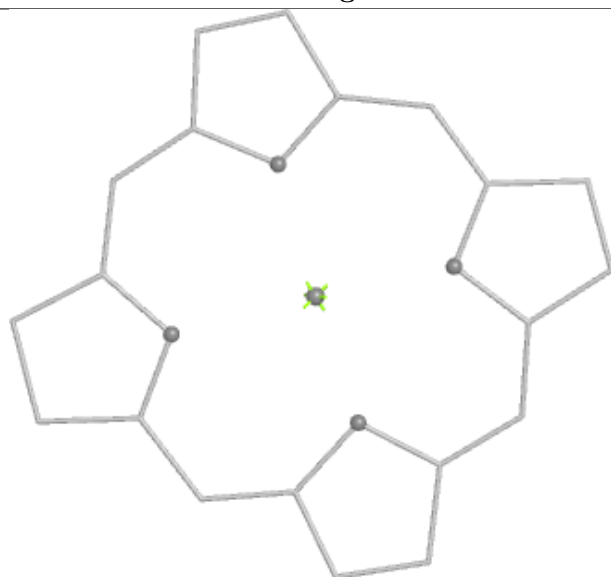
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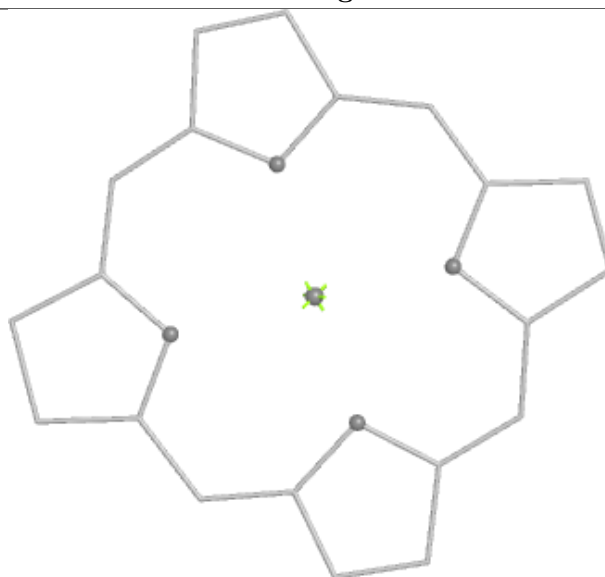
Bond lengths



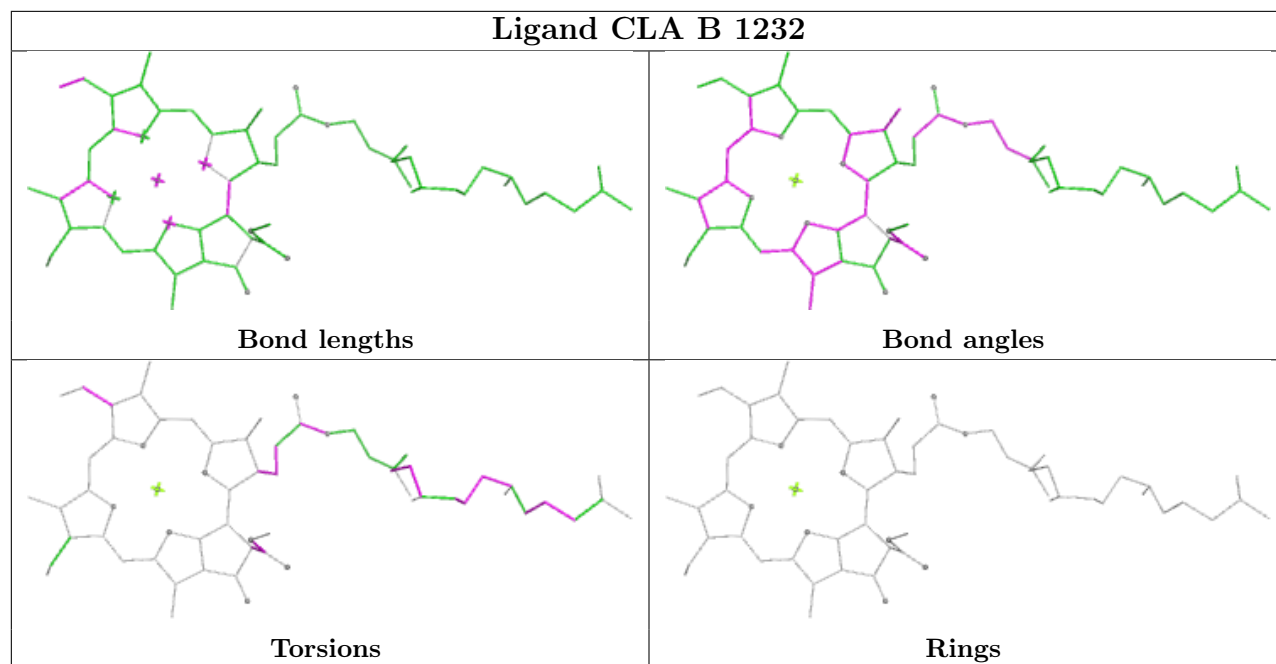
Bond angles

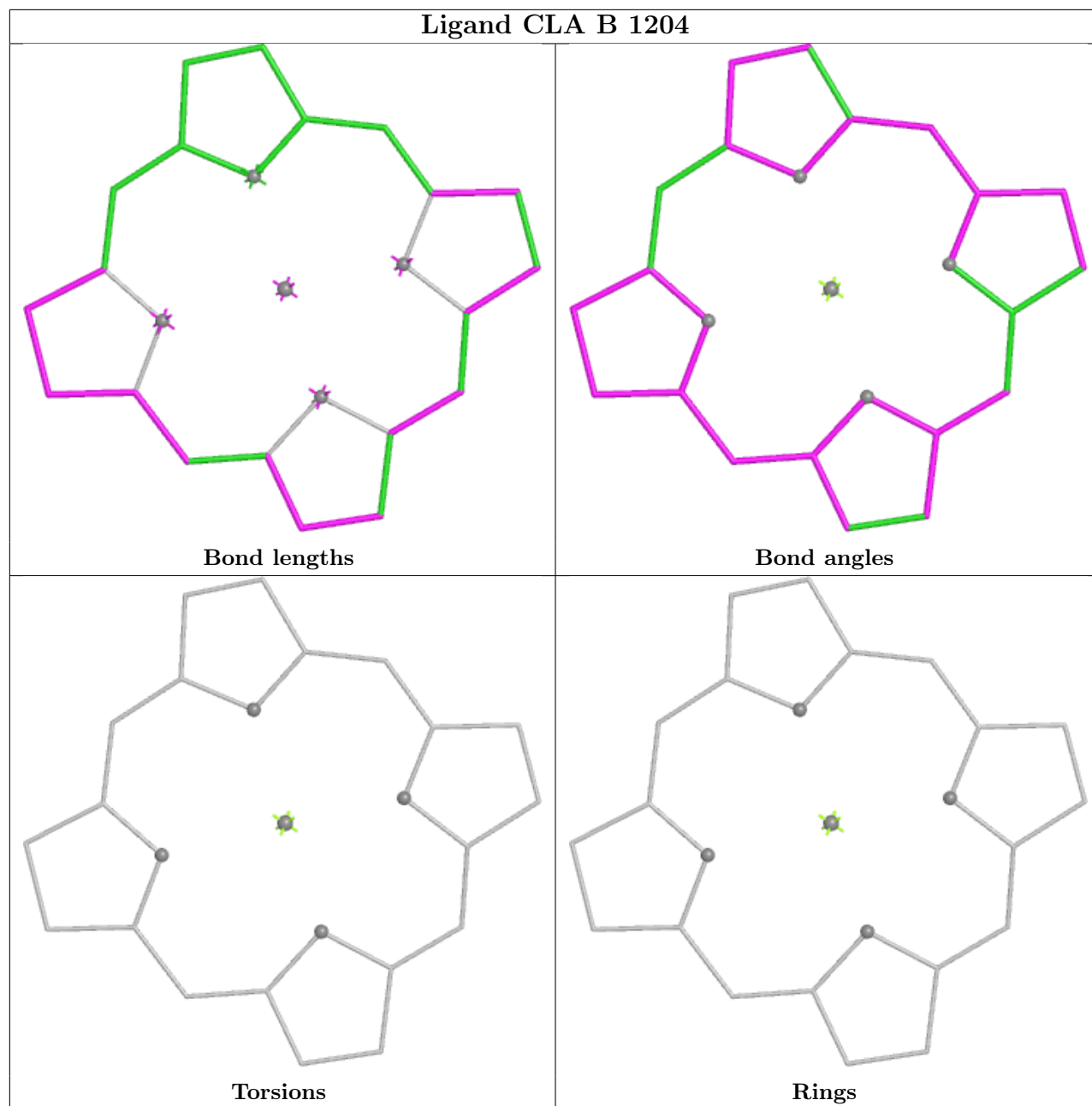


Torsions

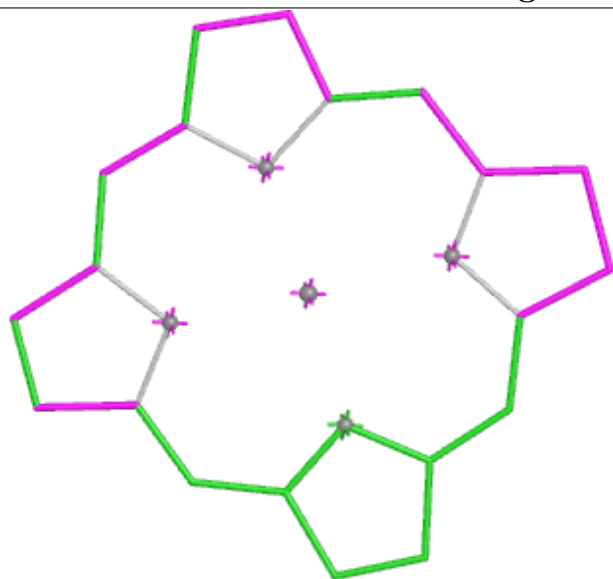


Rings

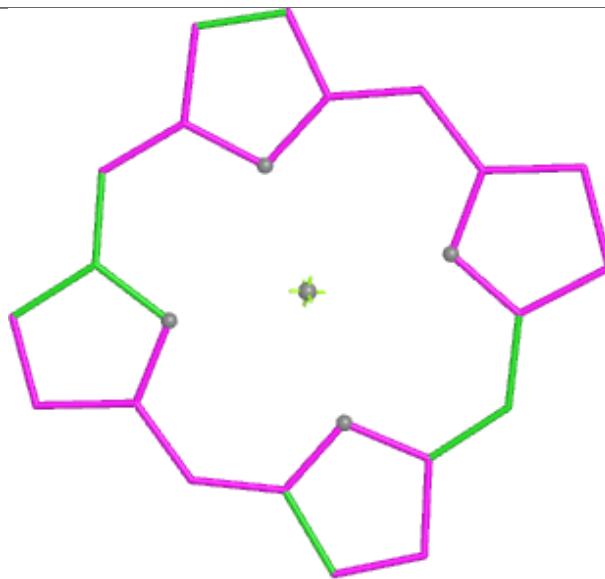




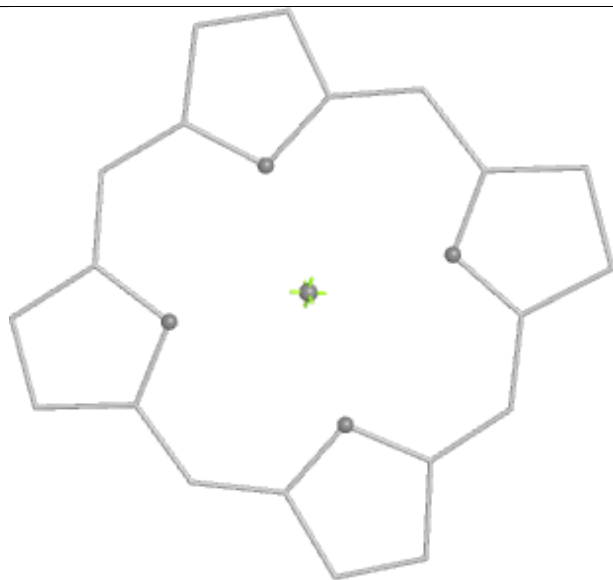
Ligand CLA 2 611



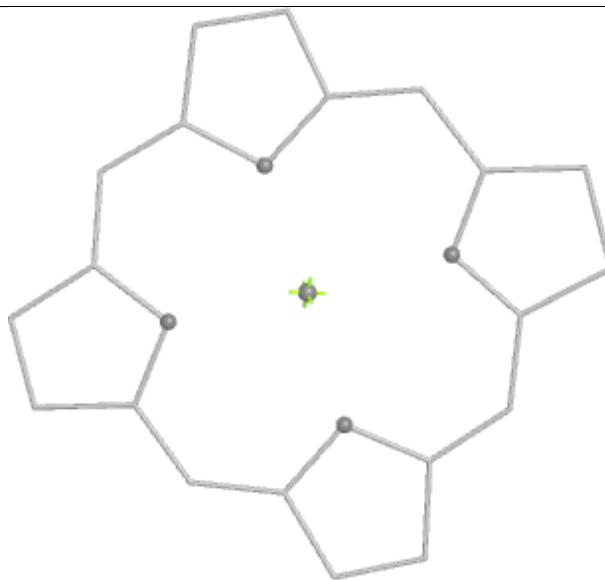
Bond lengths



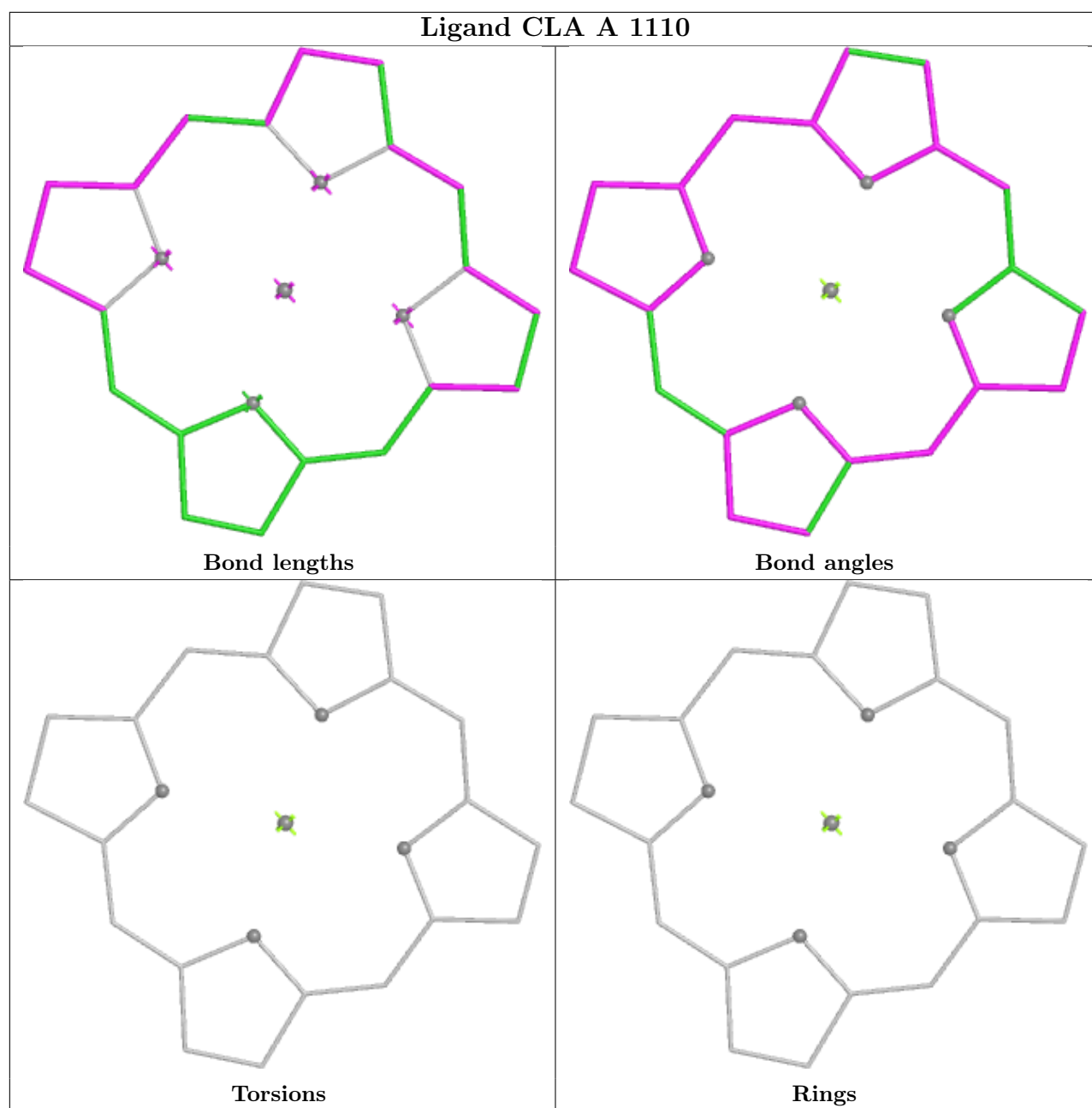
Bond angles



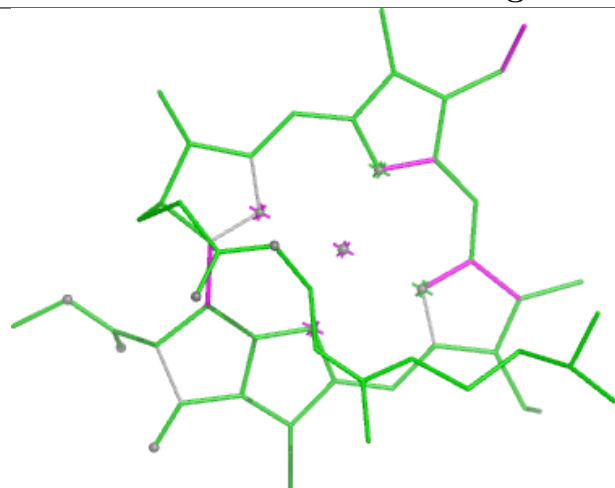
Torsions



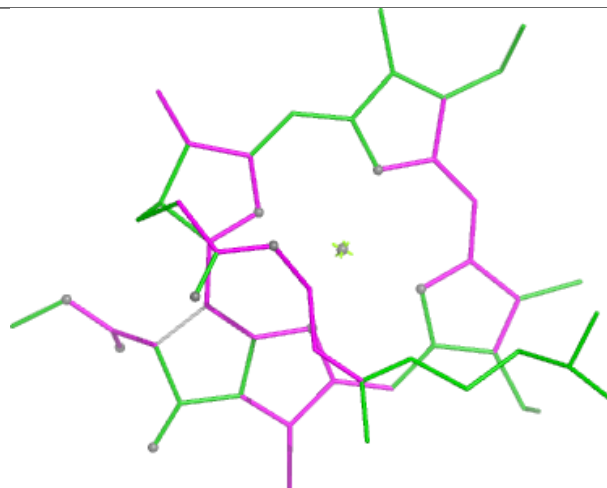
Rings



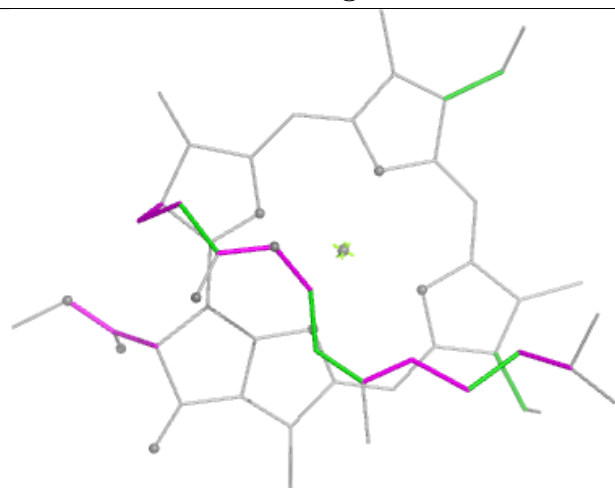
Ligand CLA A 1115



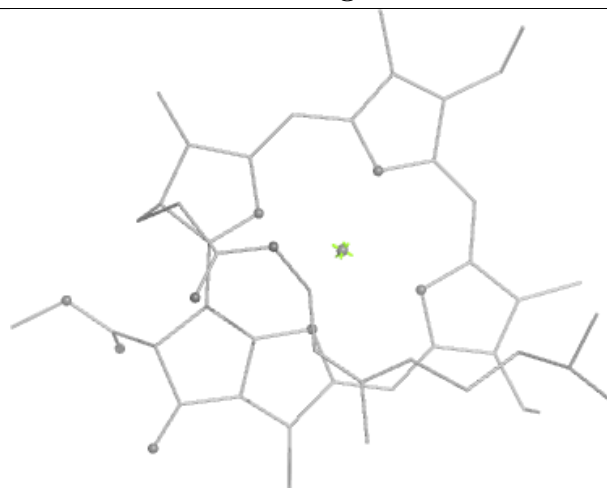
Bond lengths



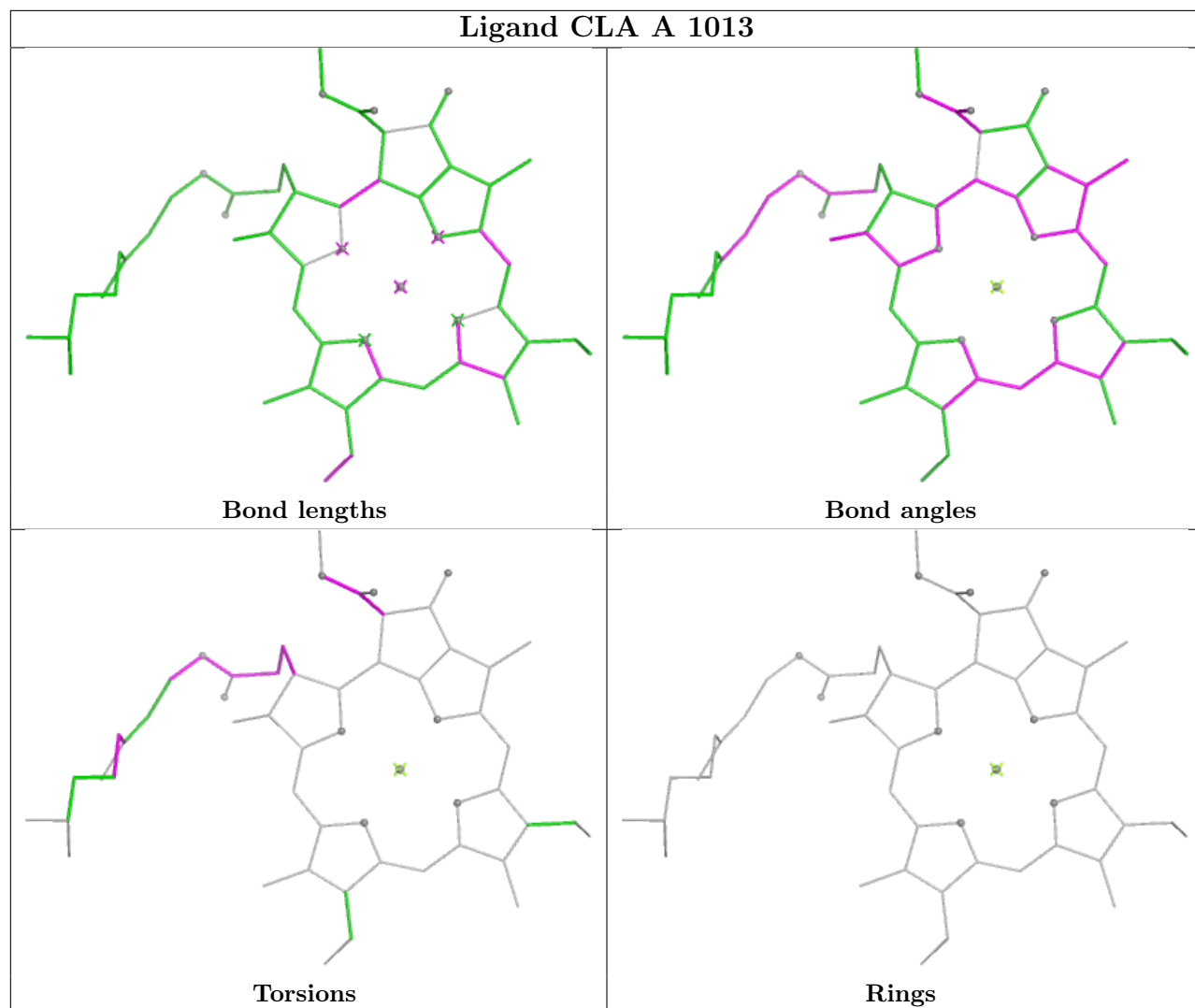
Bond angles



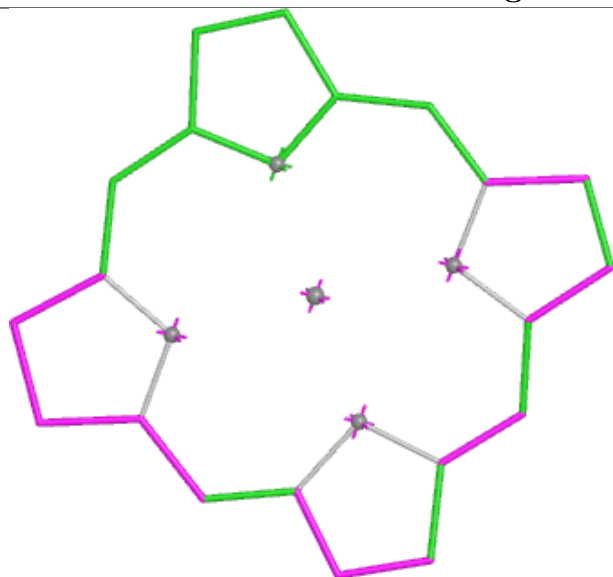
Torsions



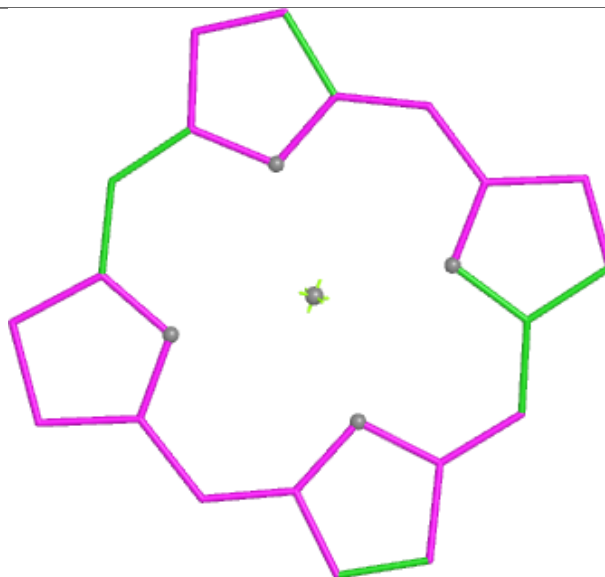
Rings



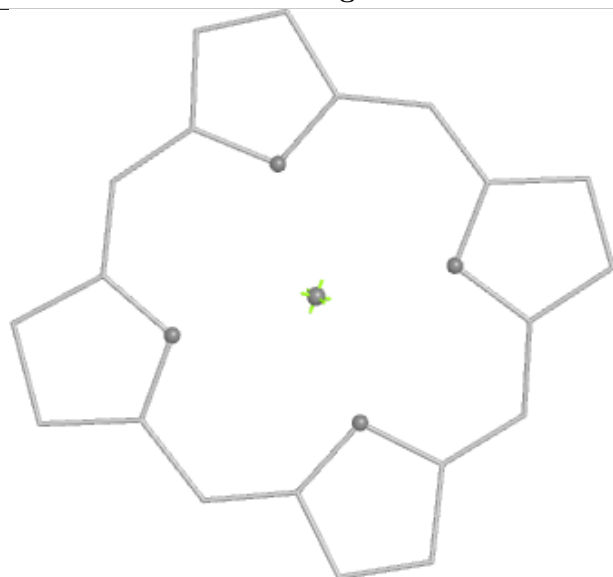
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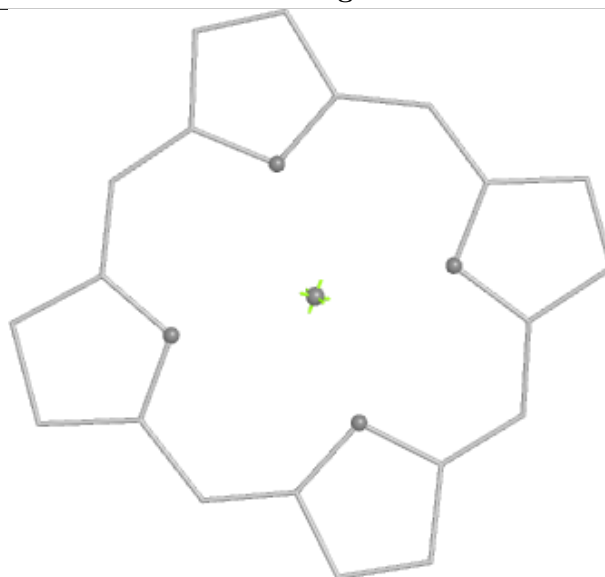
Bond lengths



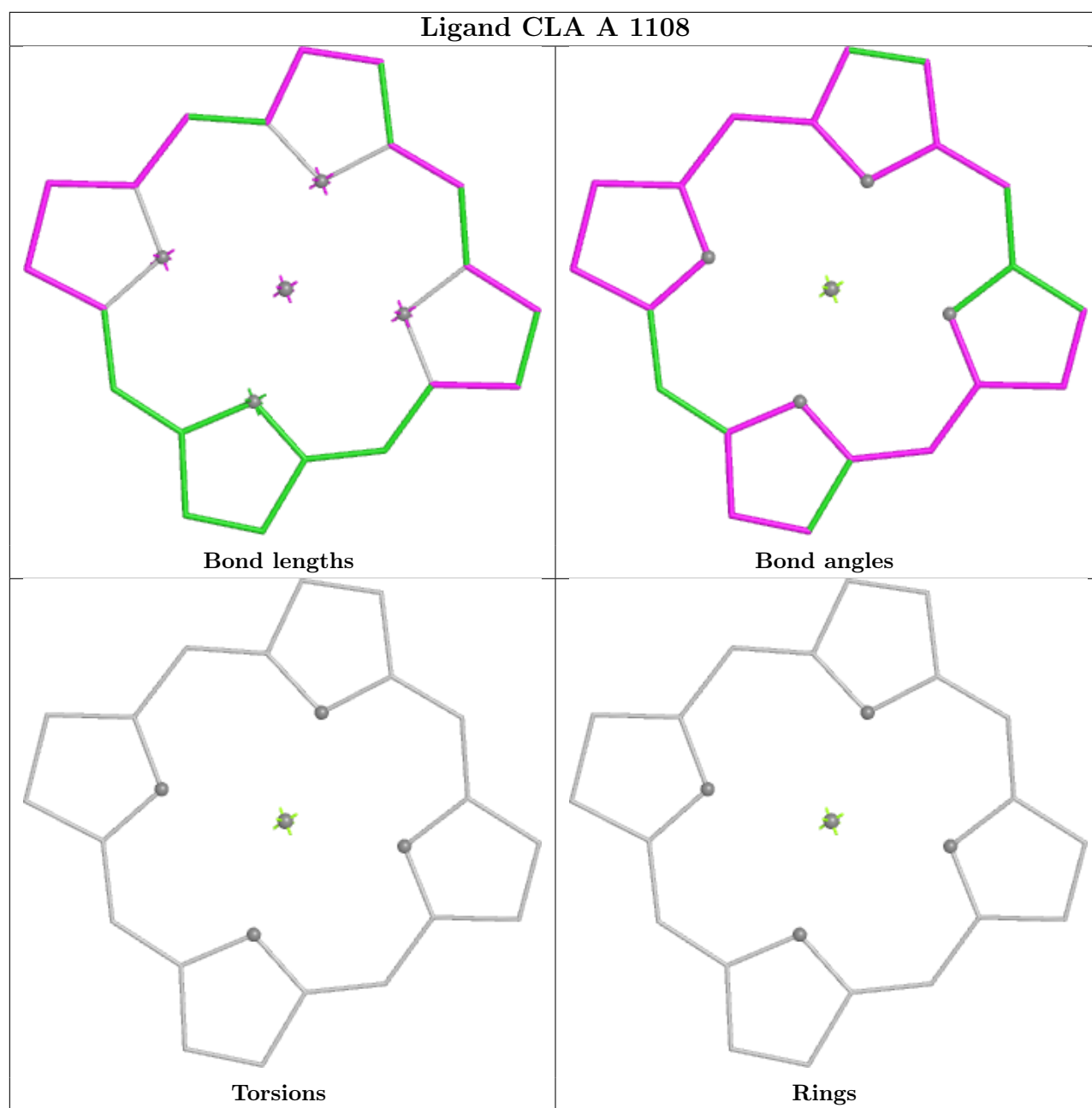
Bond angles

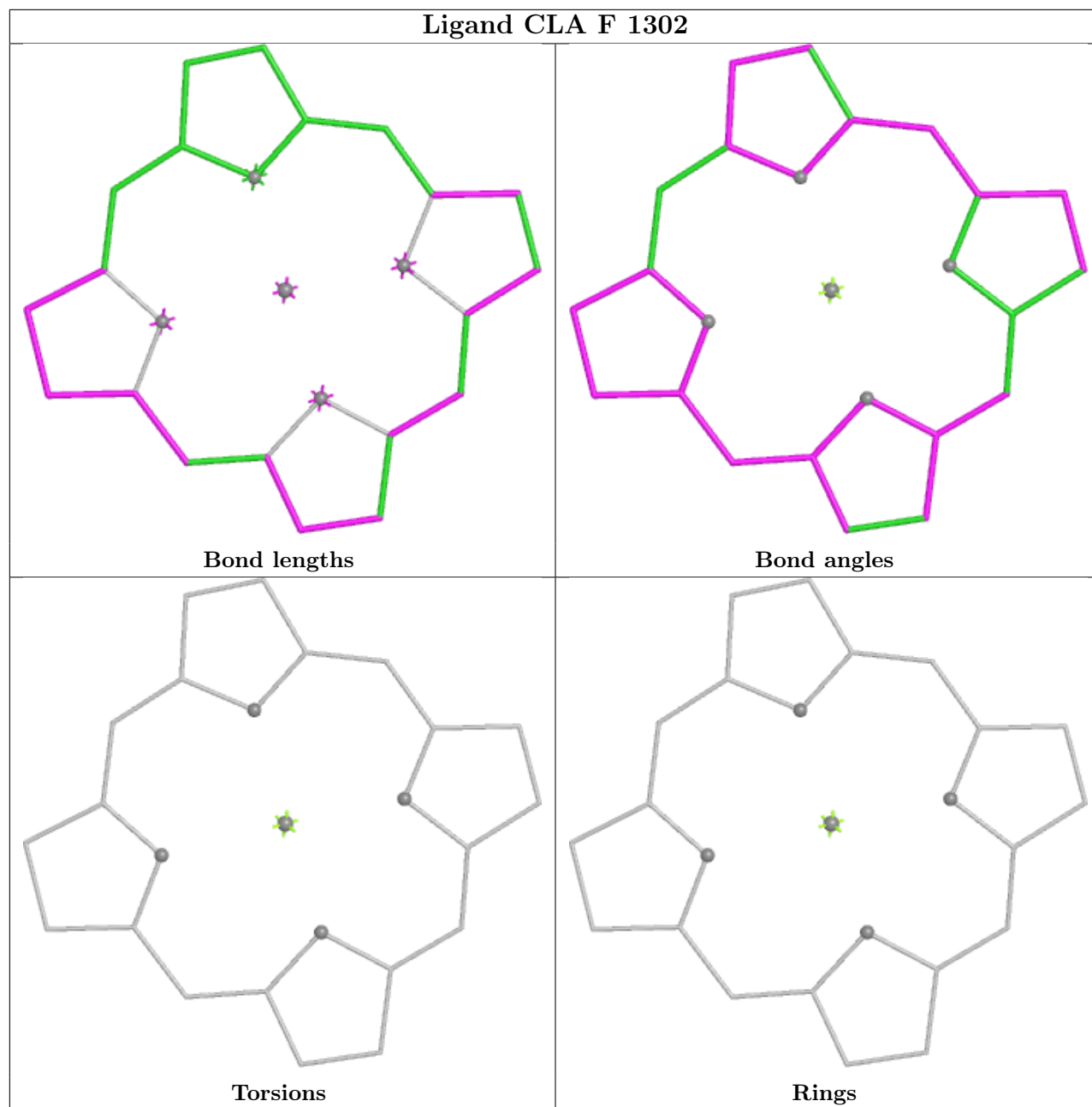


Torsions

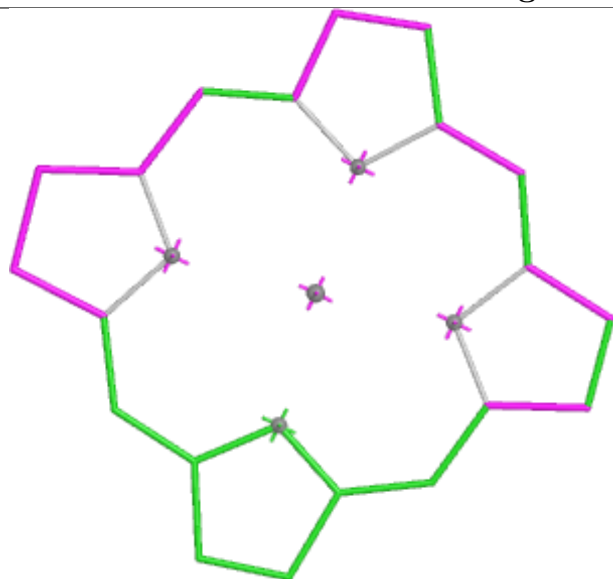


Rings

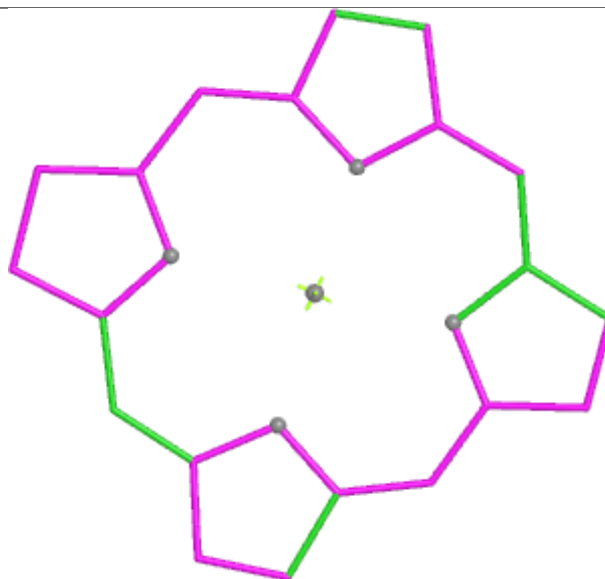




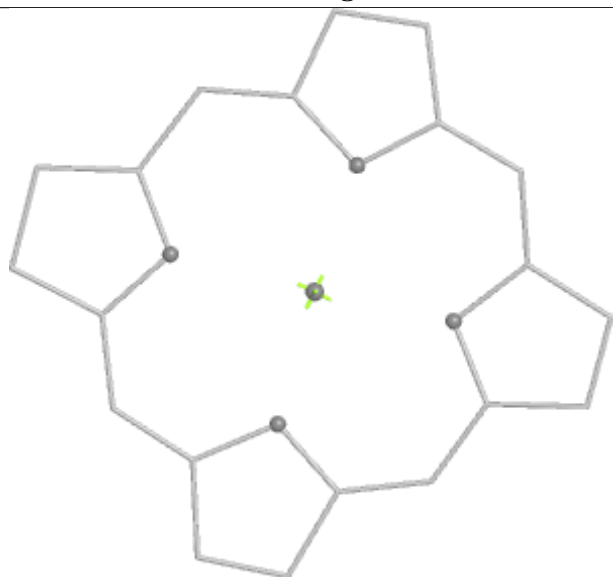
Ligand CLA 2 616



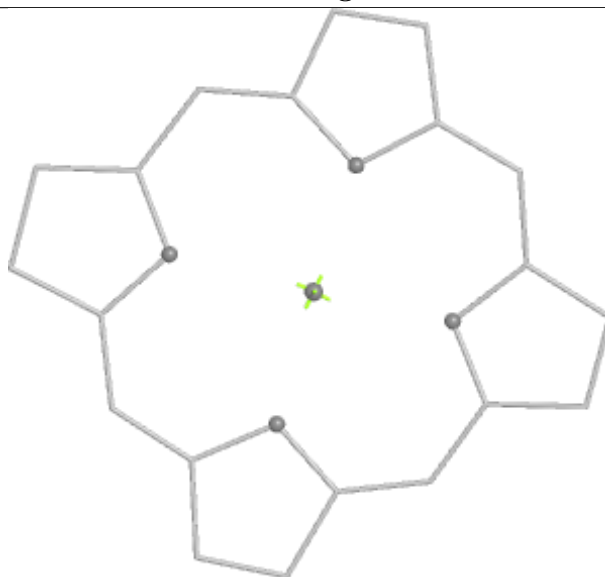
Bond lengths



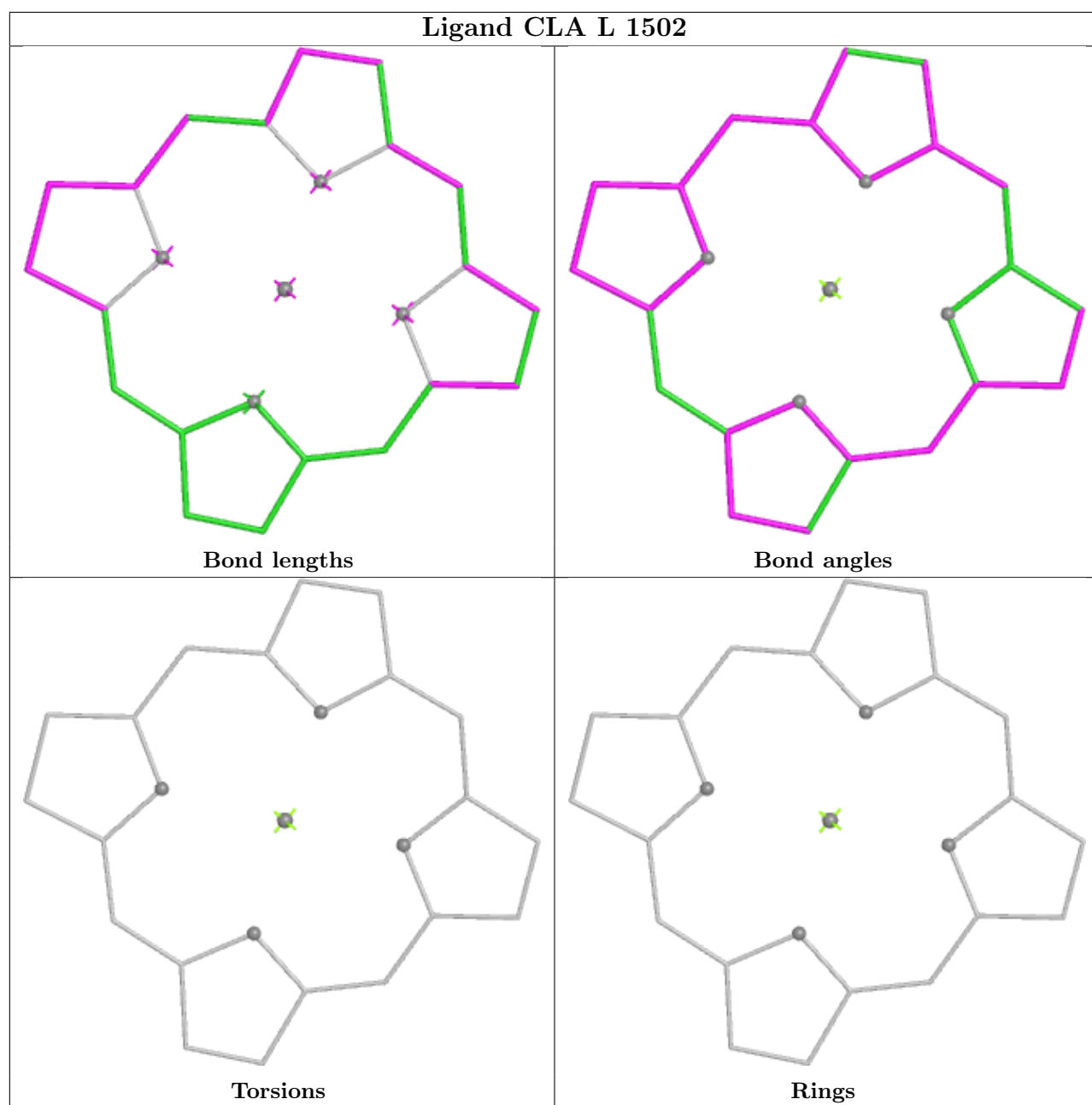
Bond angles



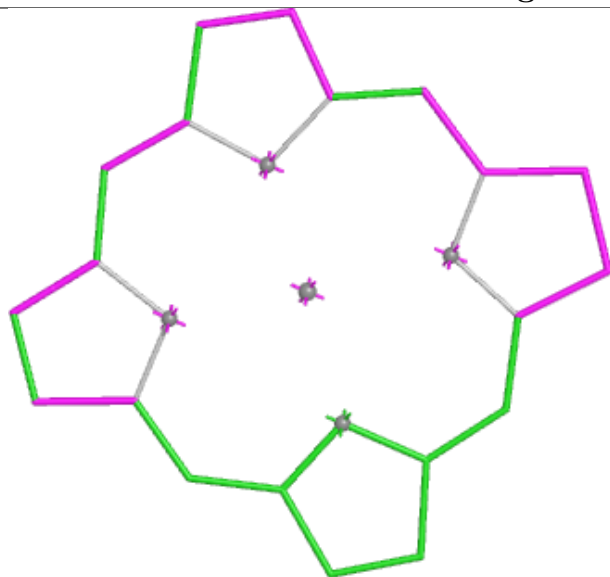
Torsions



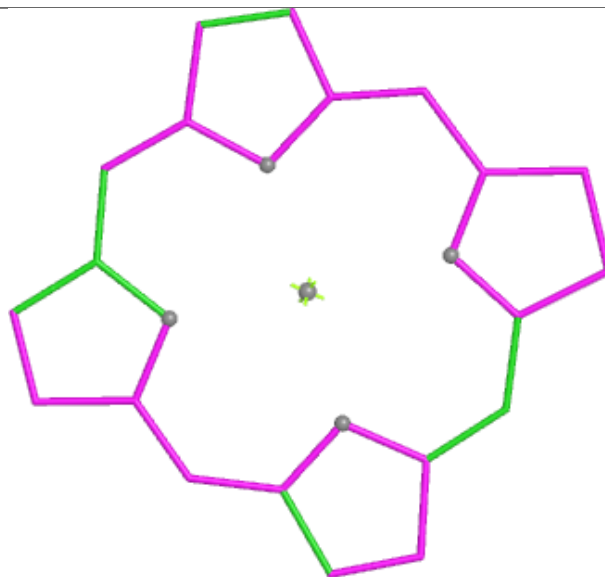
Rings



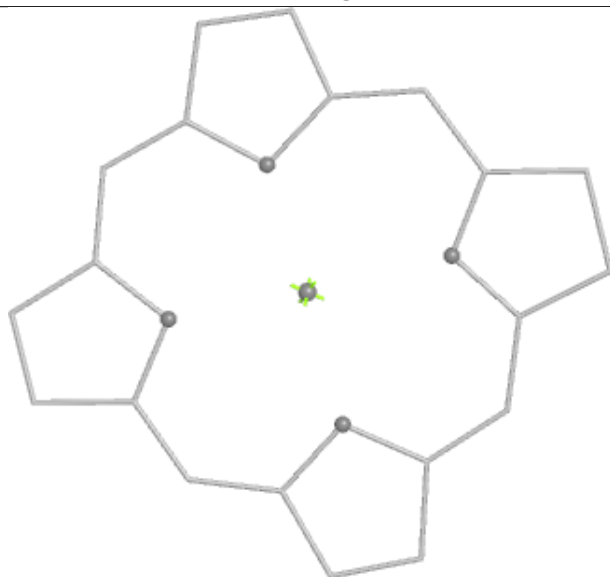
Ligand CLA 3 604



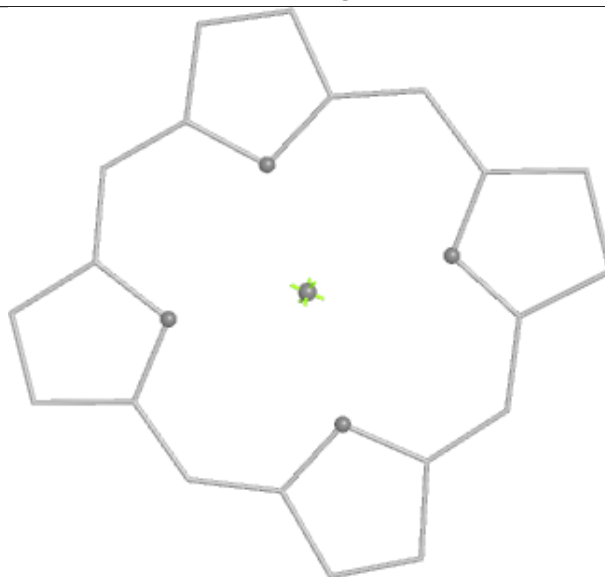
Bond lengths



Bond angles

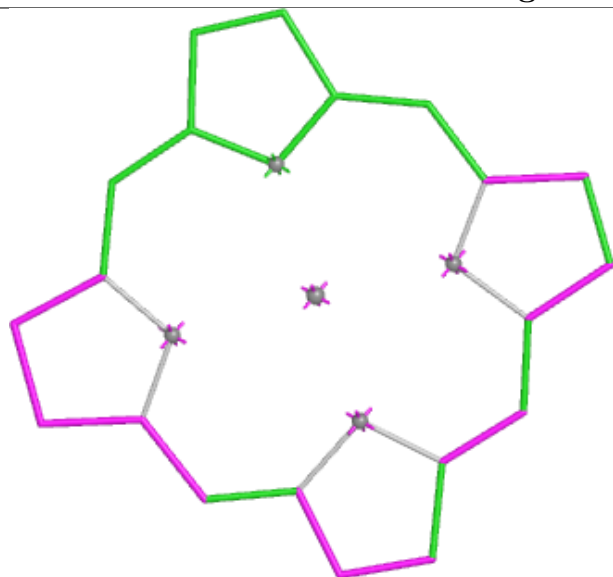


Torsions

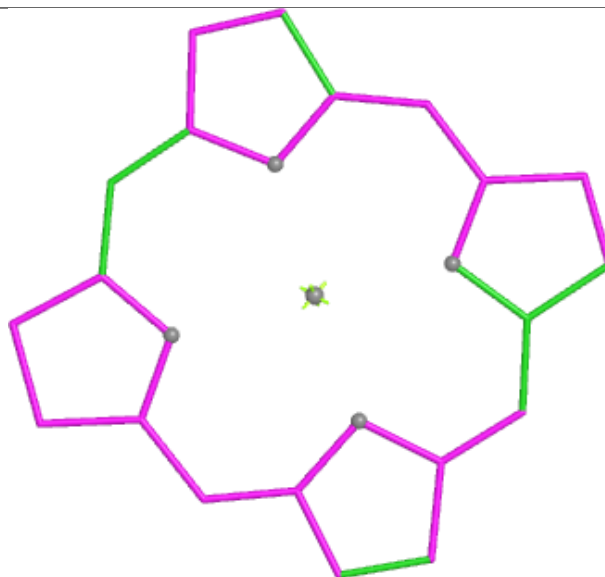


Rings

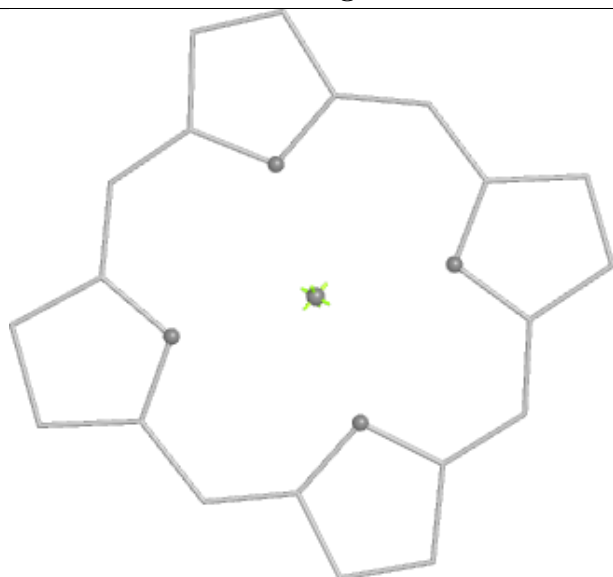
Ligand CLA 2 603



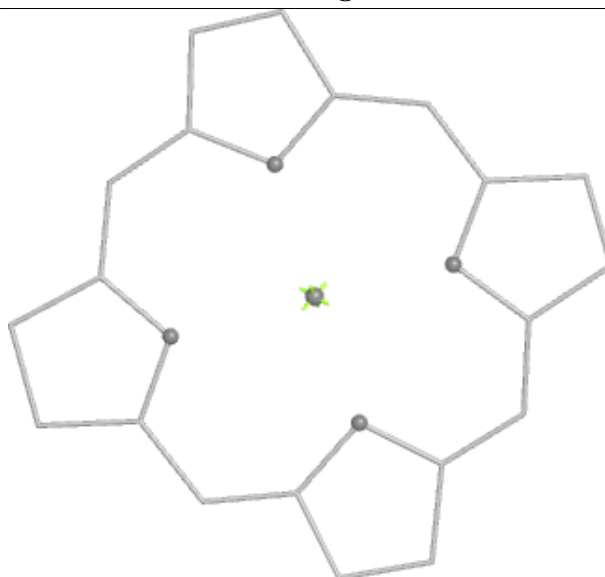
Bond lengths



Bond angles

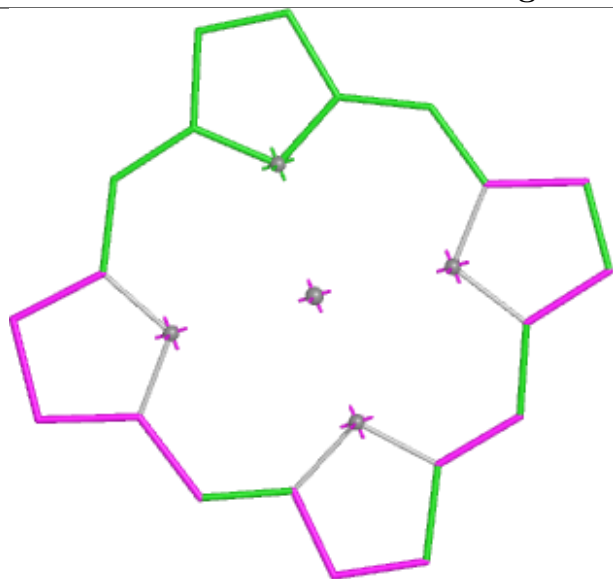


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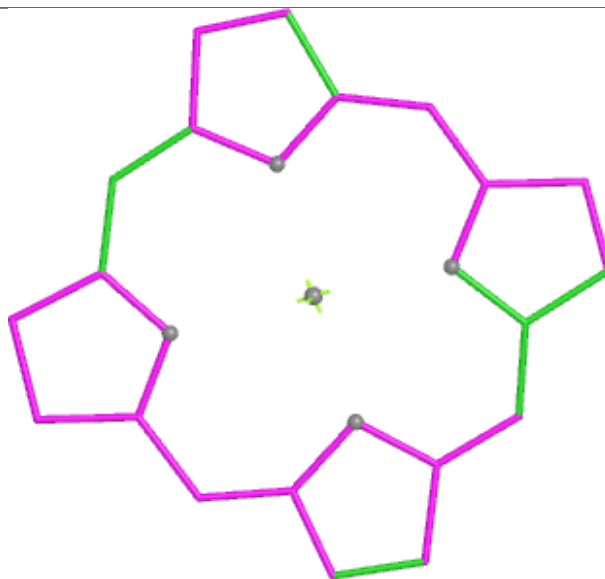


Rings

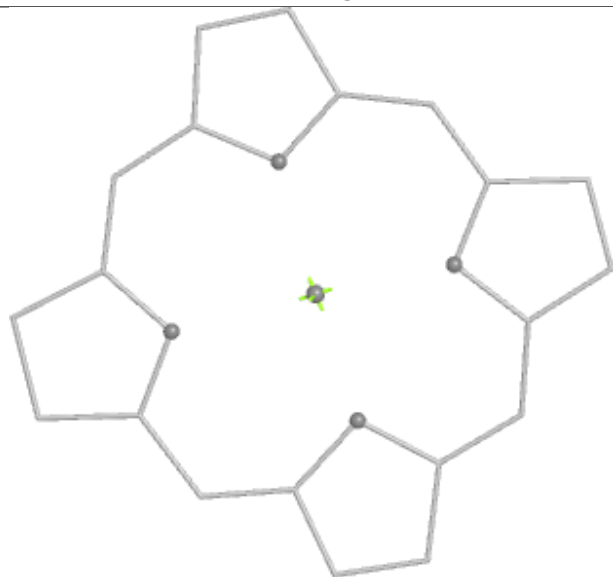
Ligand CLA 4 608



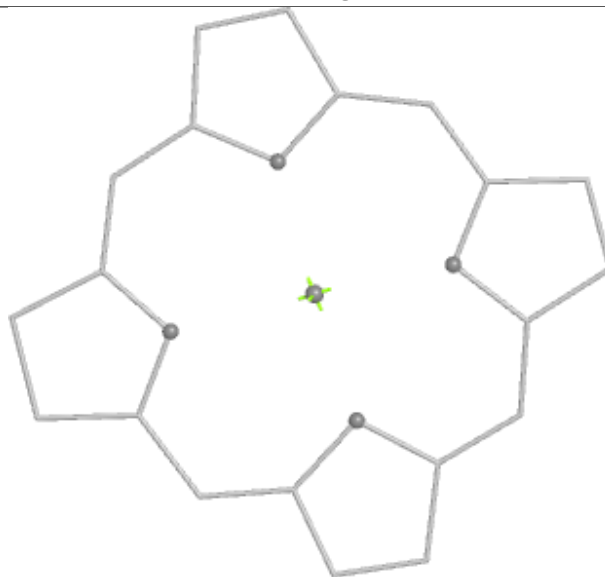
Bond lengths



Bond angles

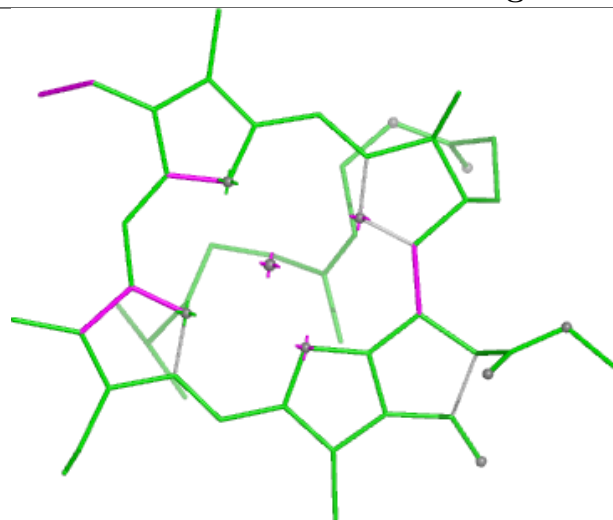


Torsions

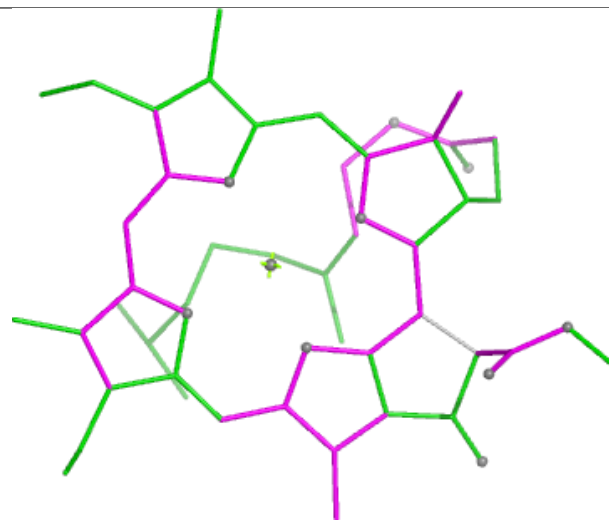


Rings

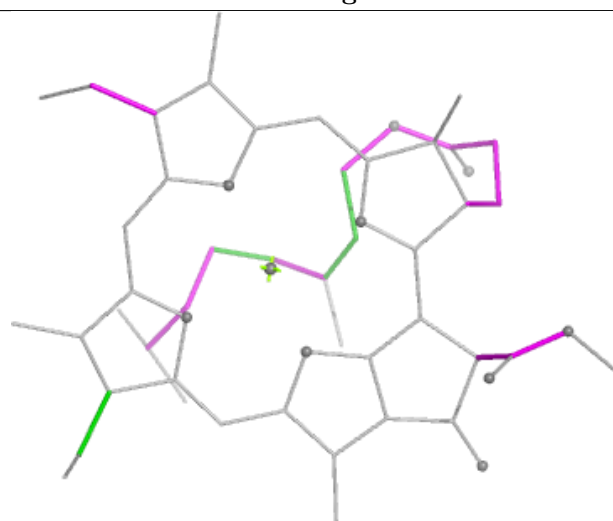
Ligand CLA A 1116



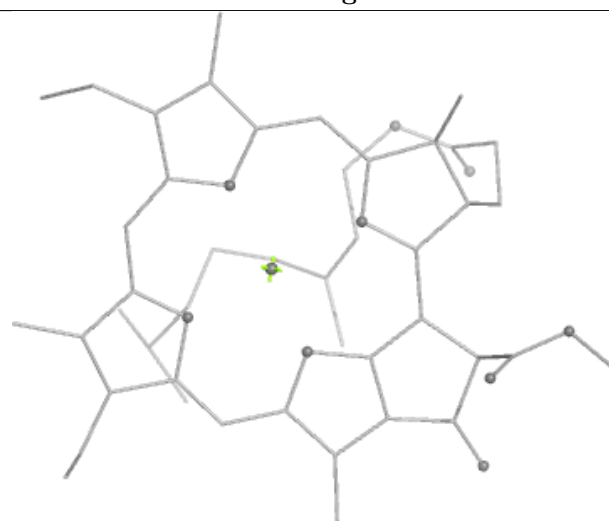
Bond lengths



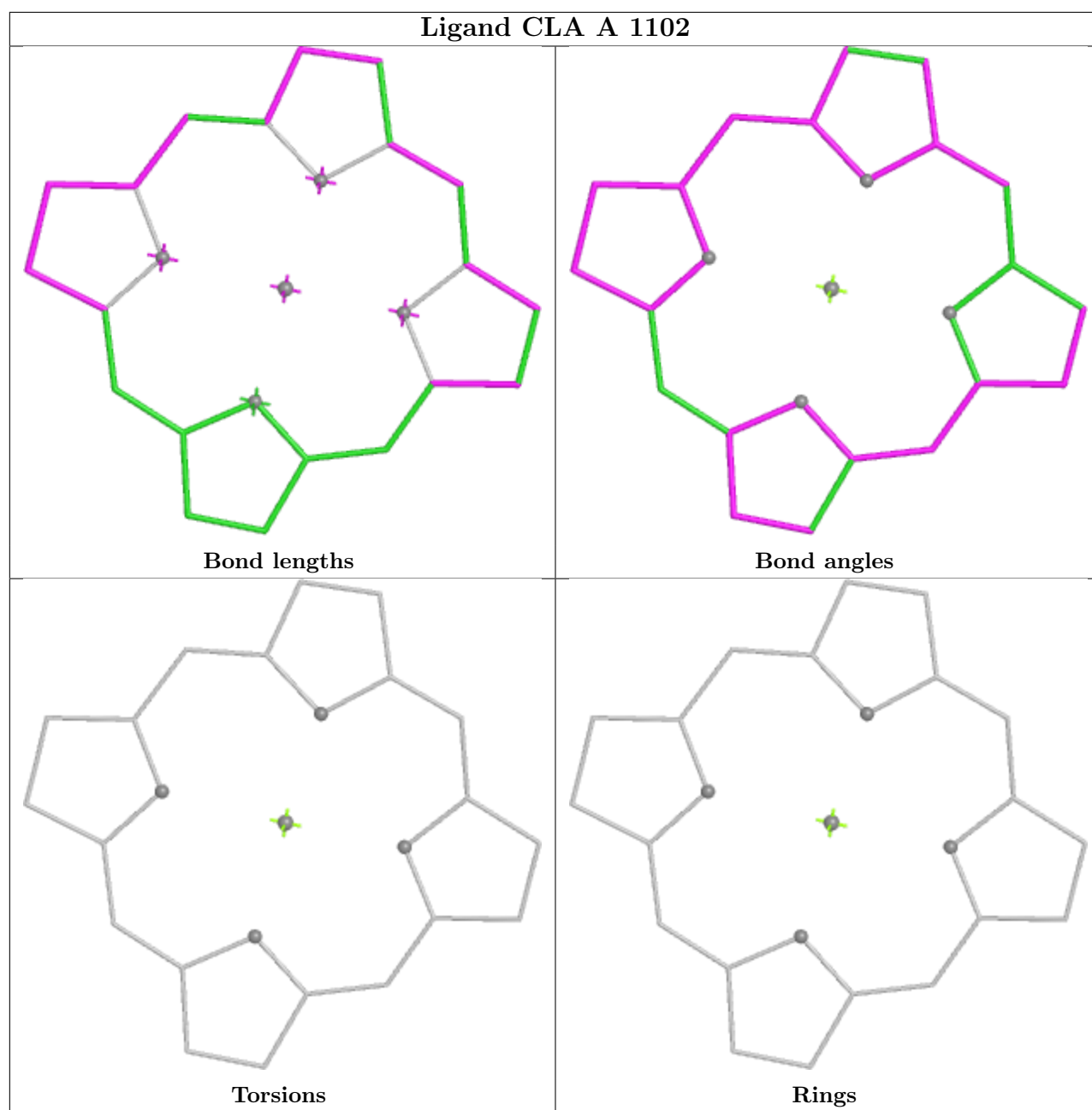
Bond angles

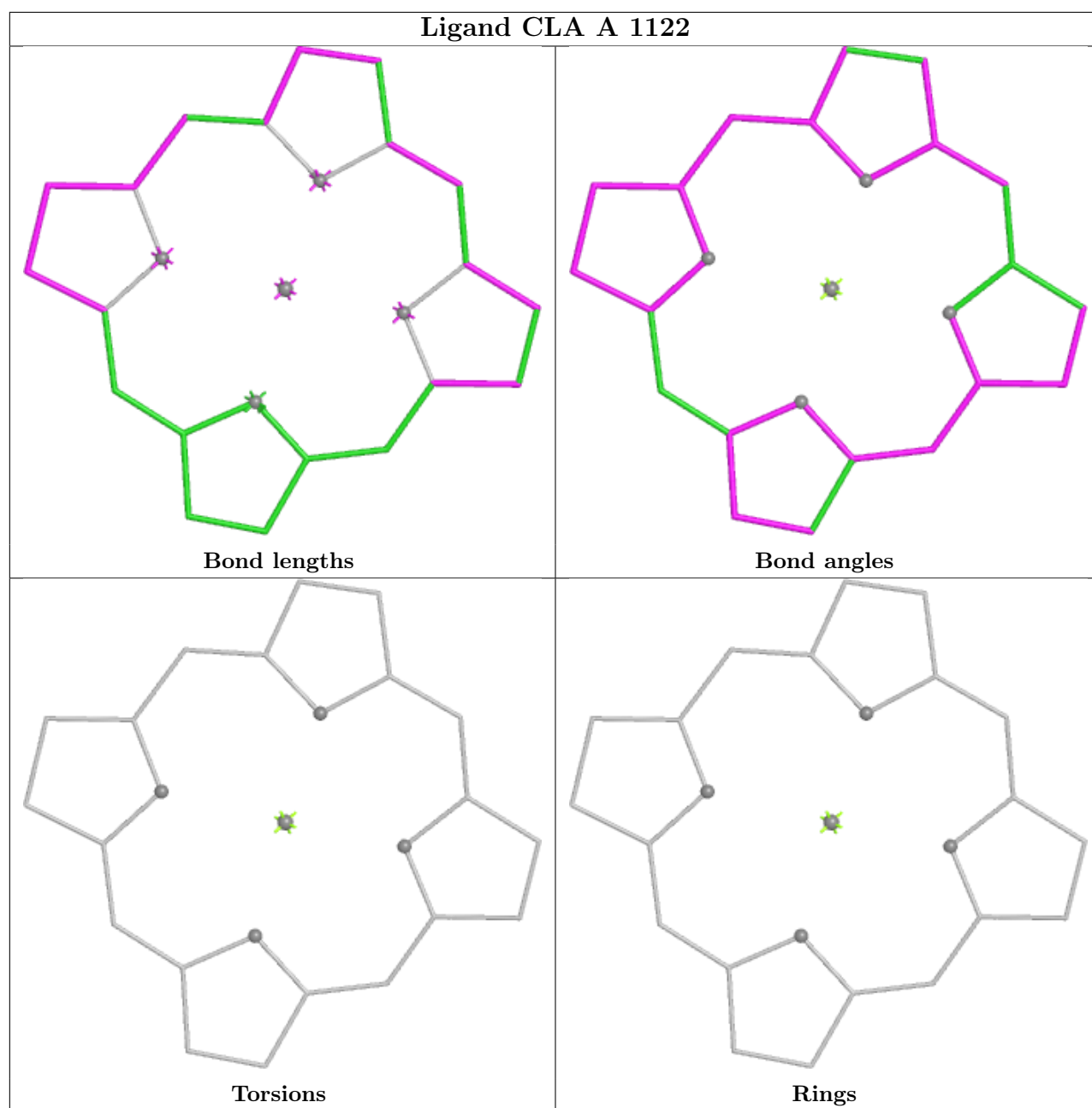


Torsions

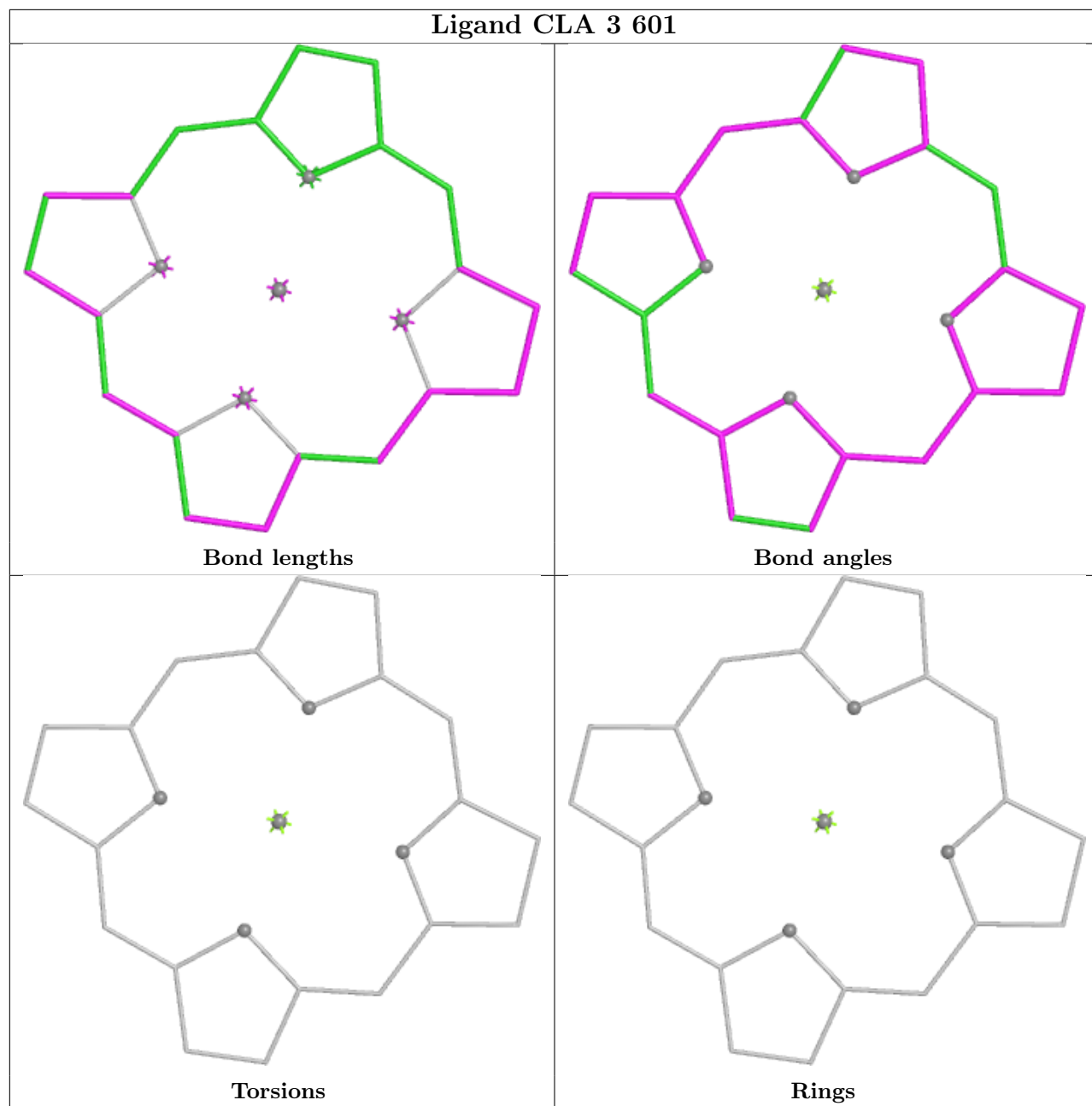


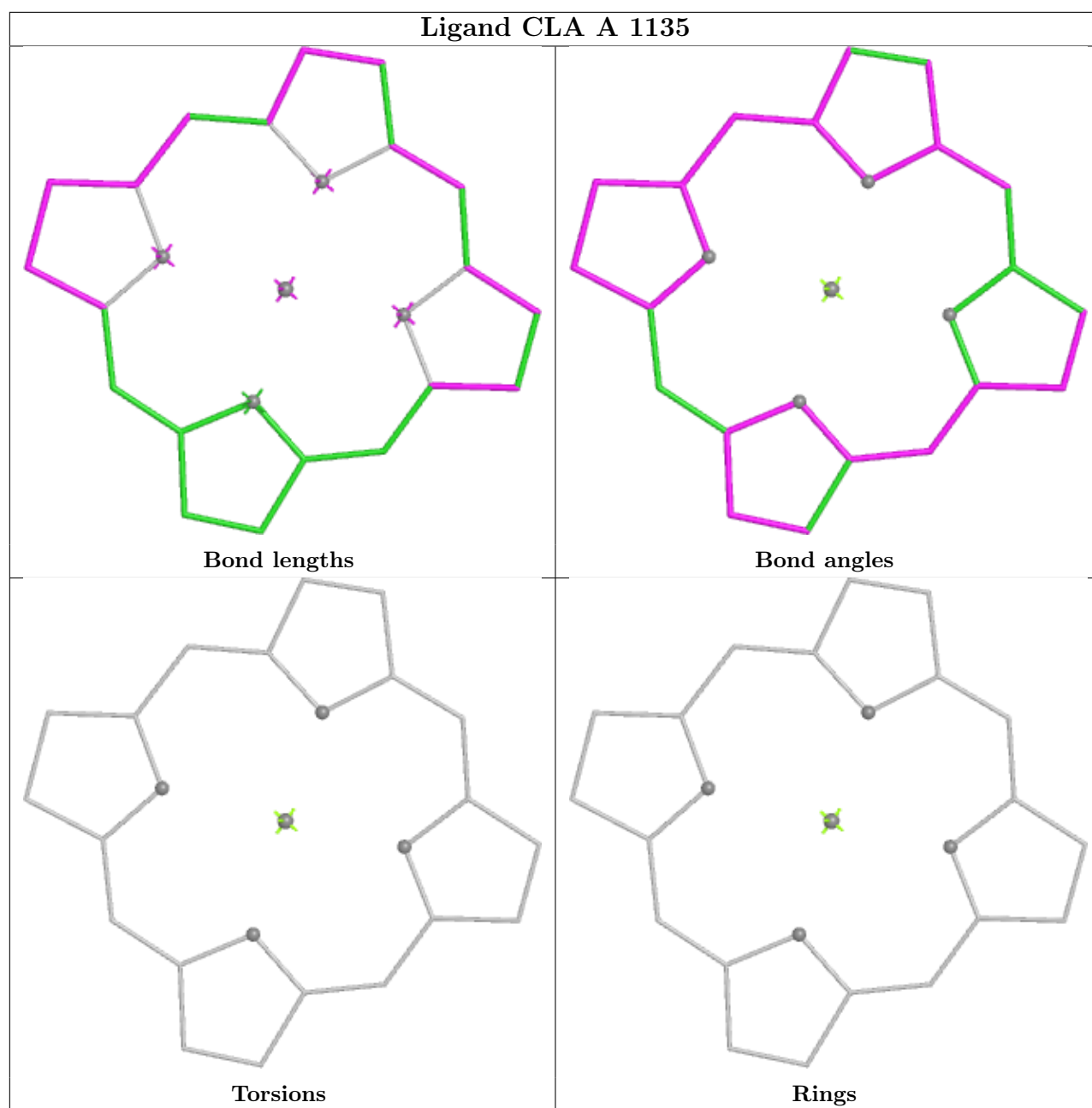
Rings



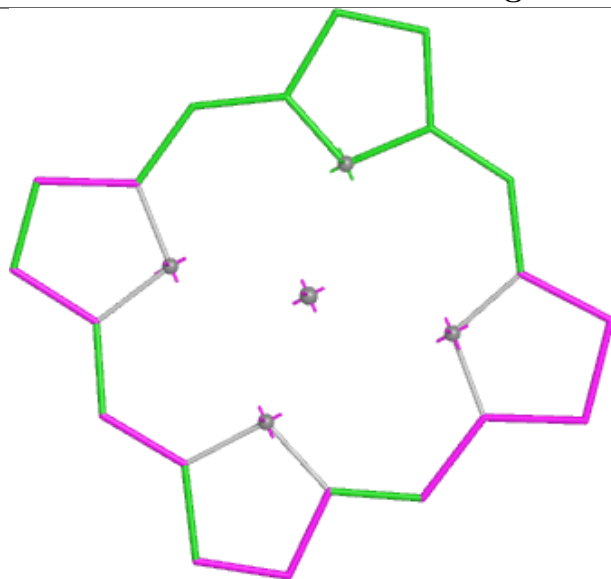


Ligand CLA 3 601

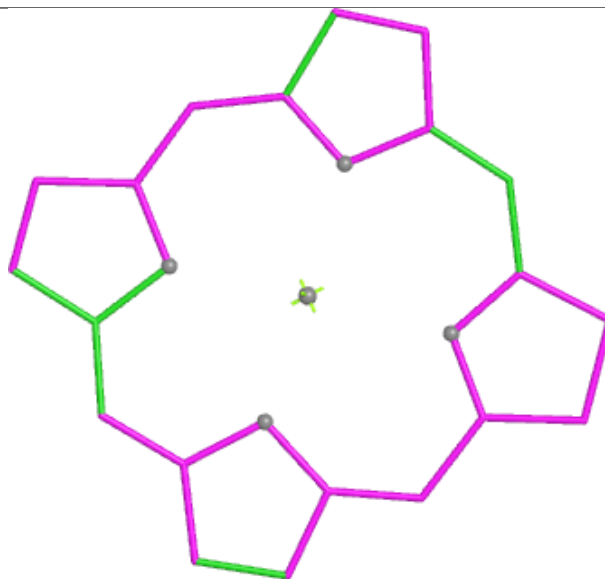




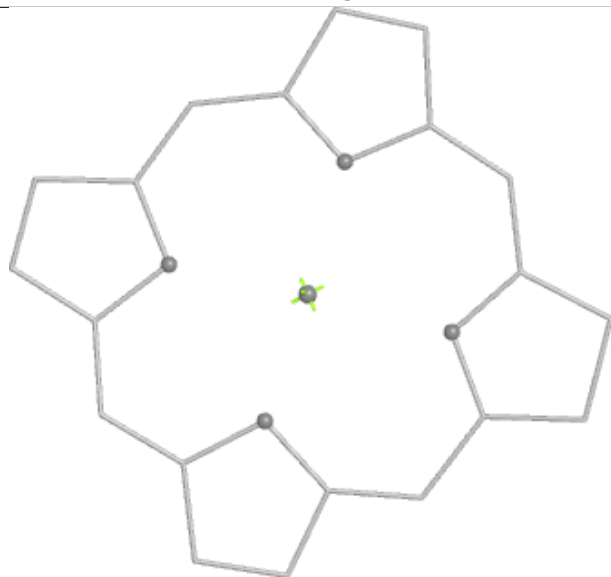
Ligand CLA A 1128



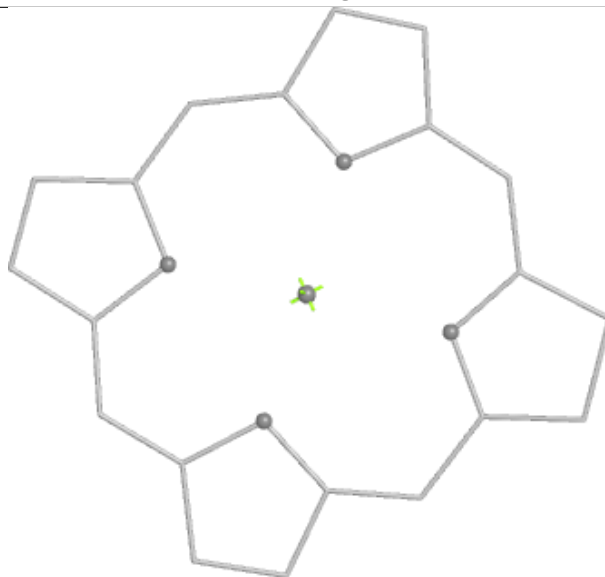
Bond lengths



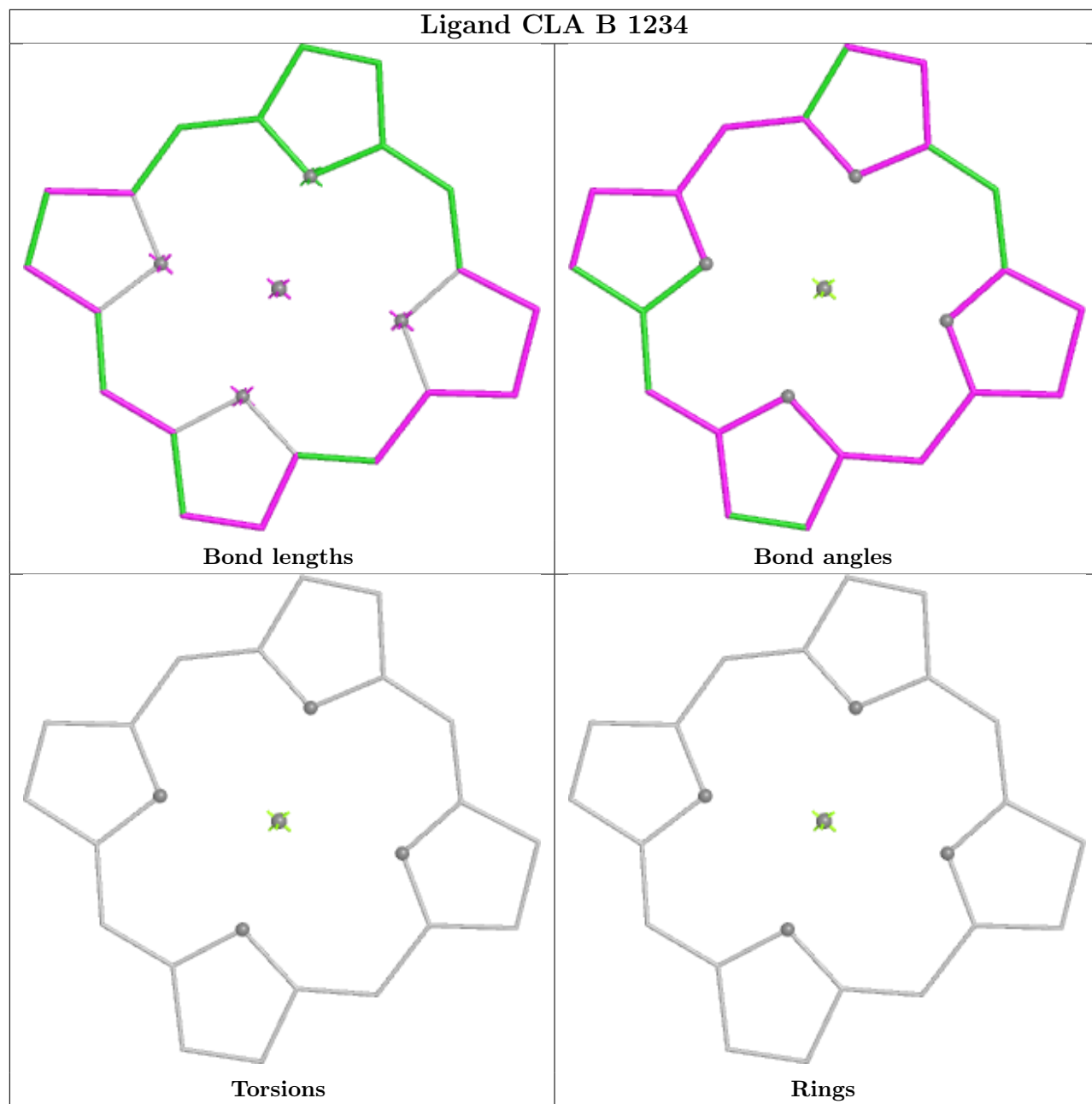
Bond angles

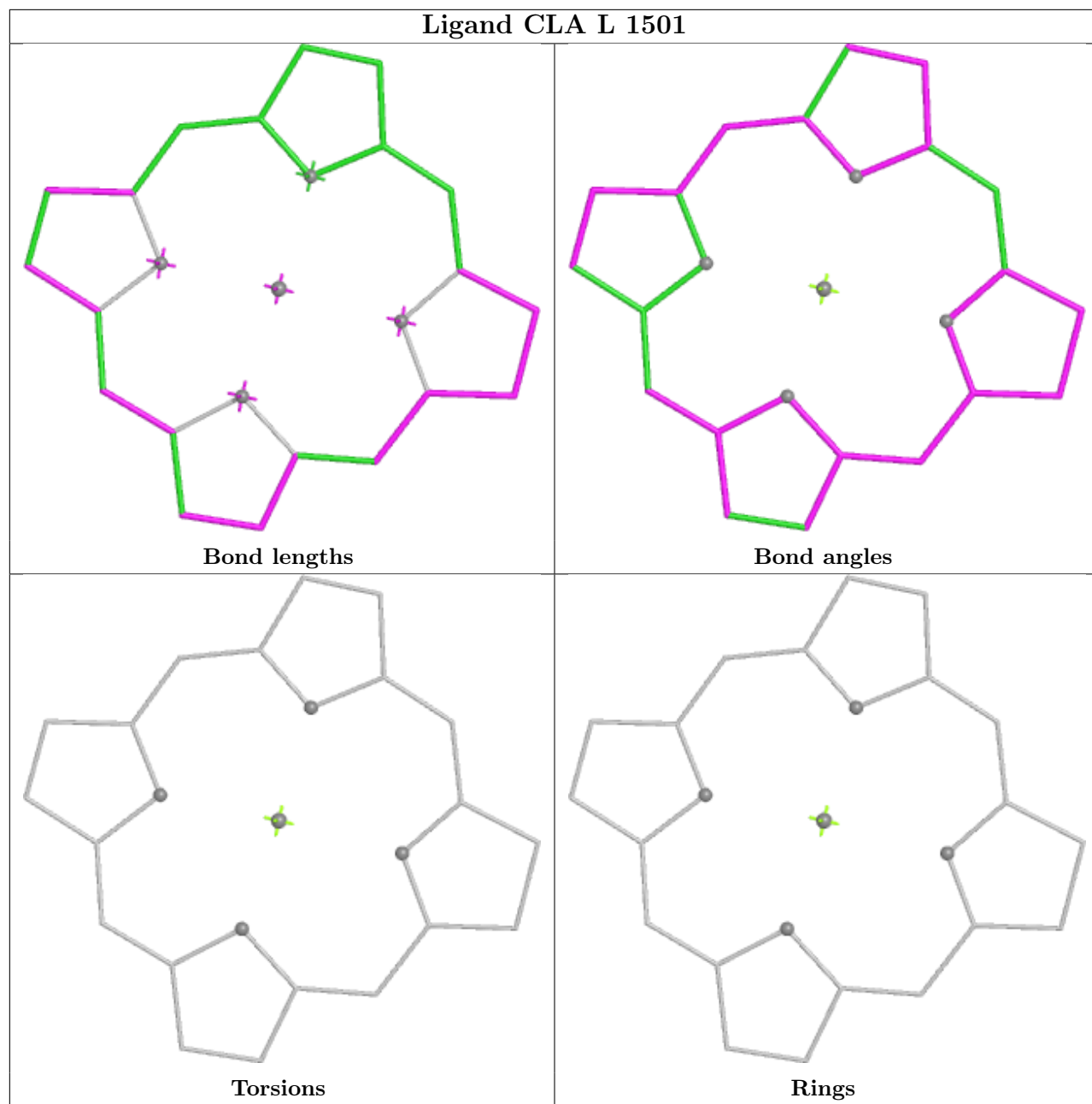


Torsions

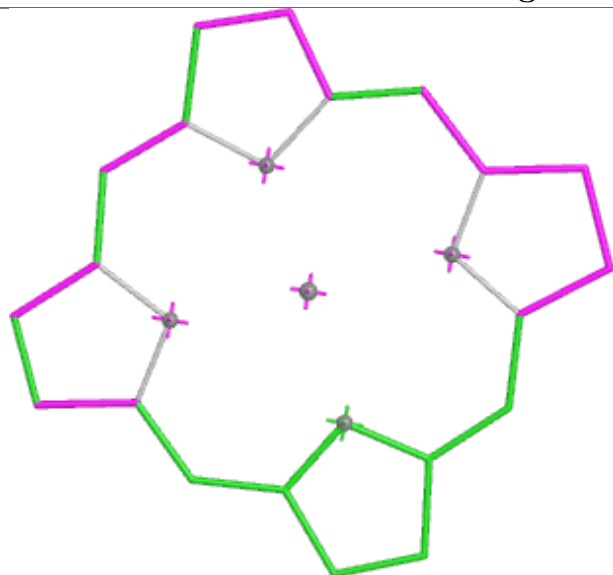


Rings

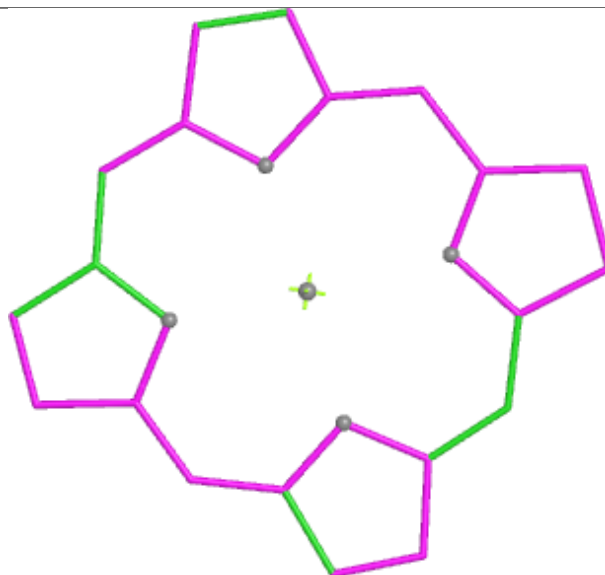




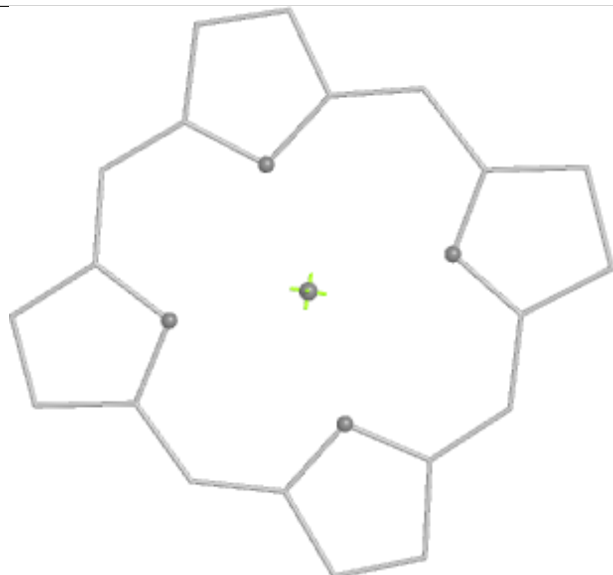
Ligand CLA 2 602



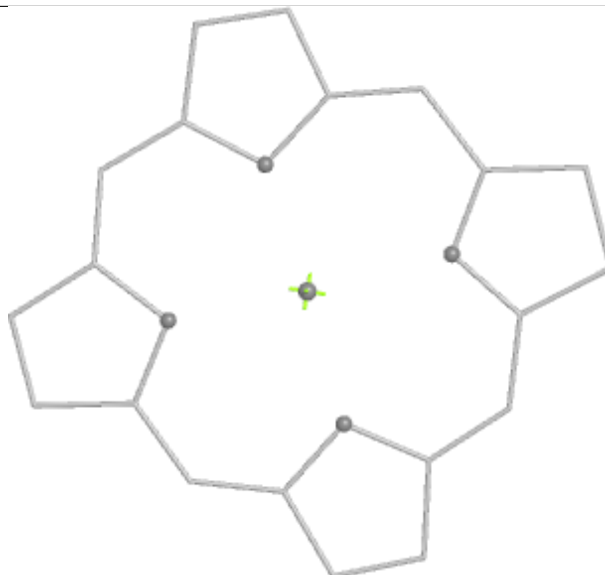
Bond lengths



Bond angles

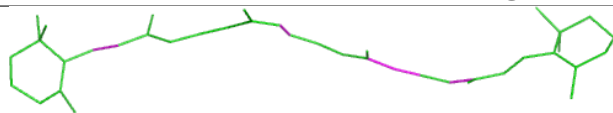


Torsions

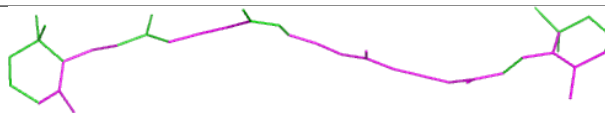


Rings

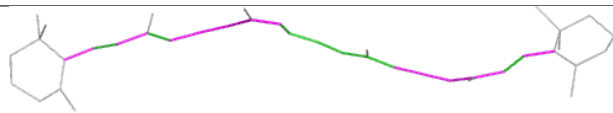
Ligand BCR A 4007



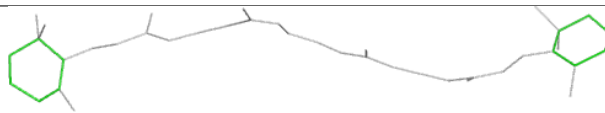
Bond lengths



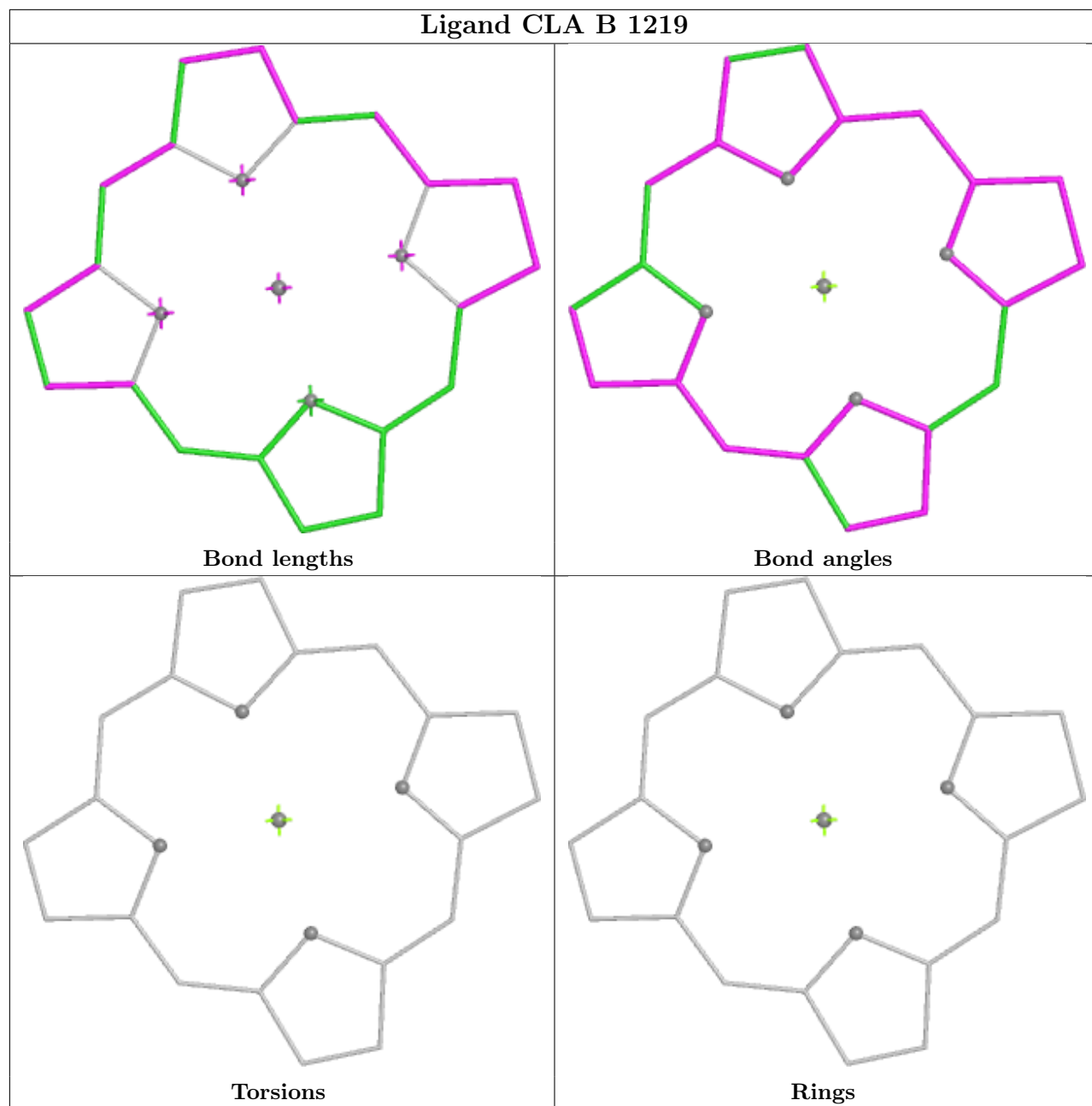
Bond angles

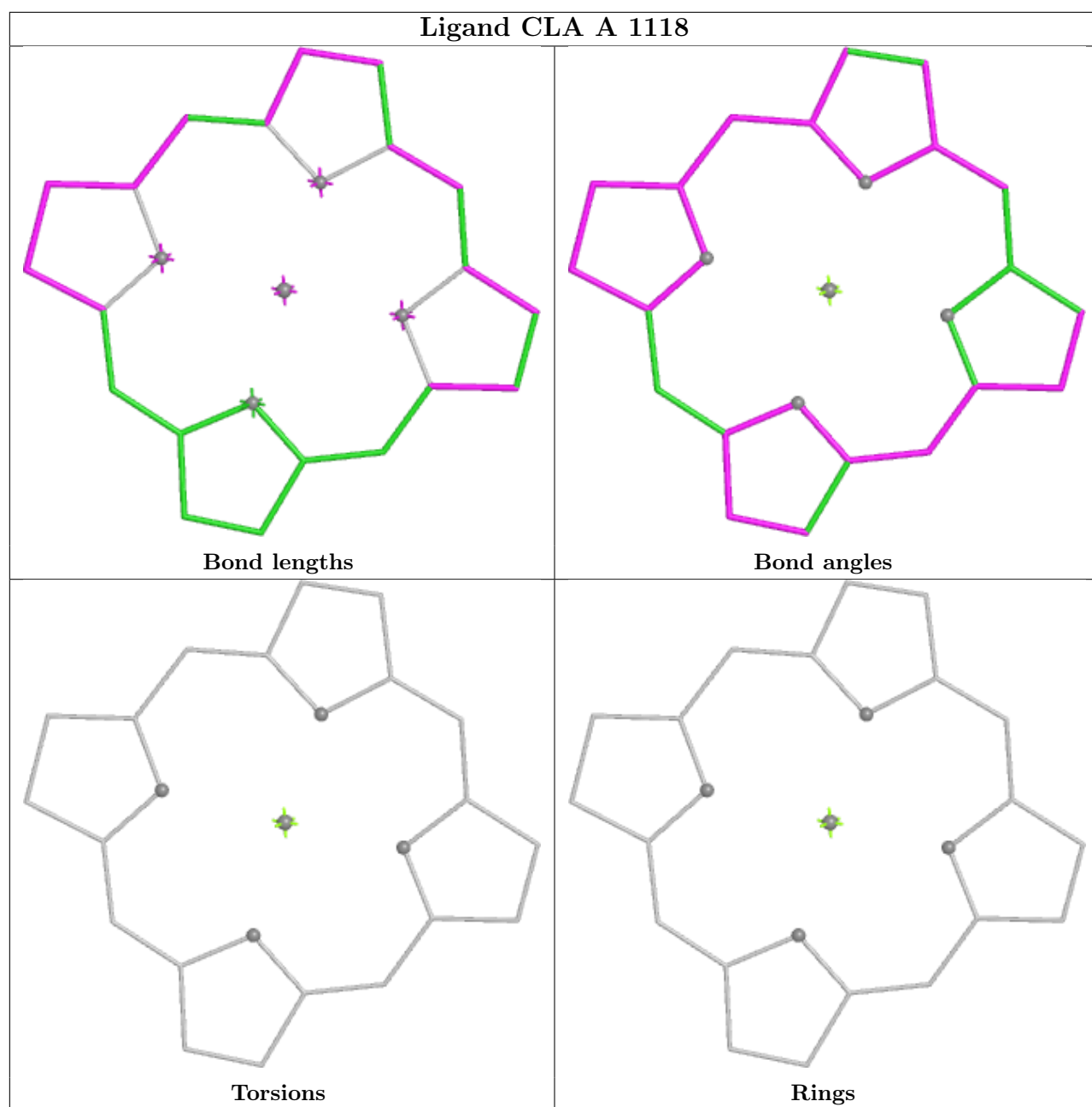


Torsions

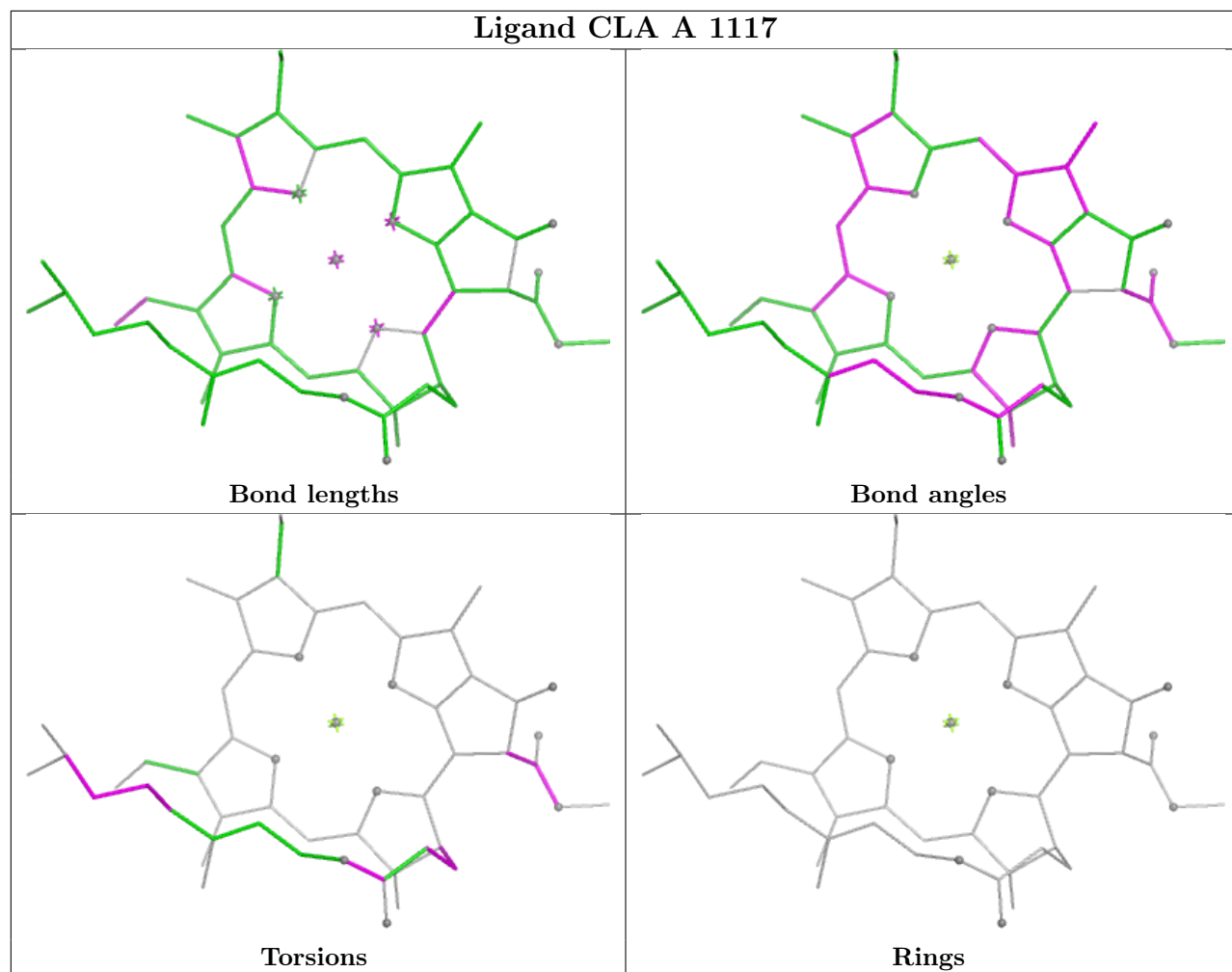


Rings

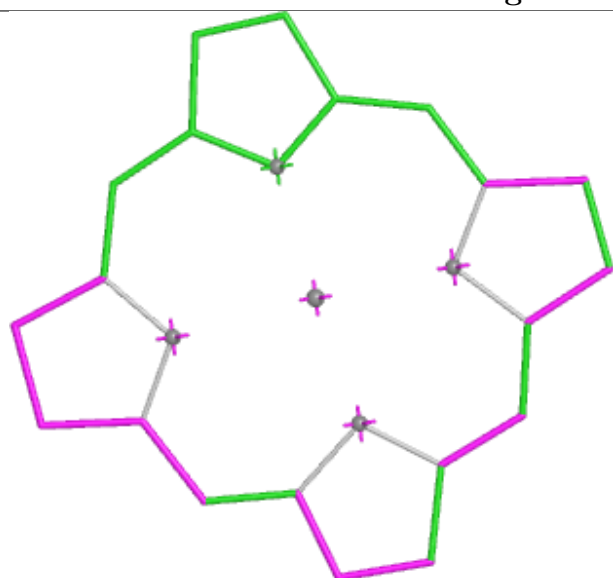




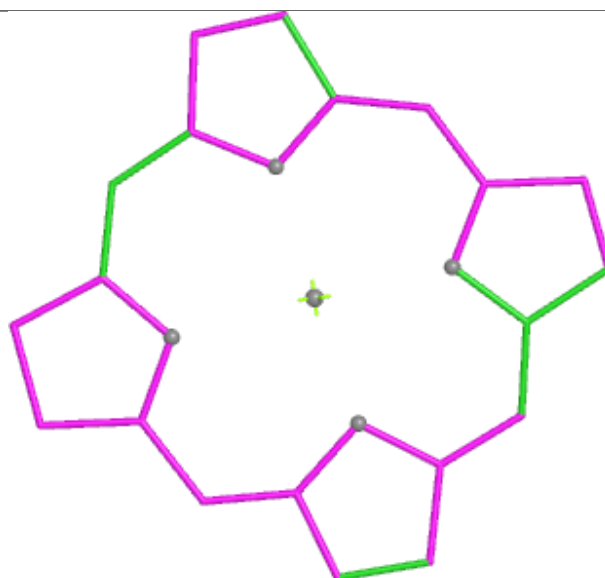
Ligand CLA A 1117



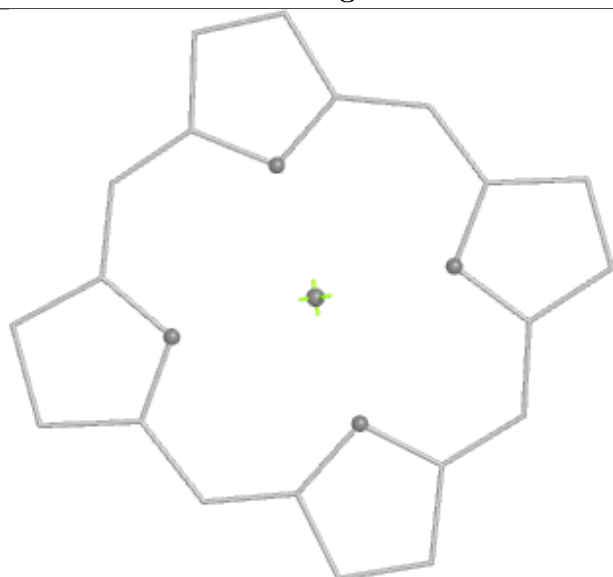
Ligand CLA A 1132



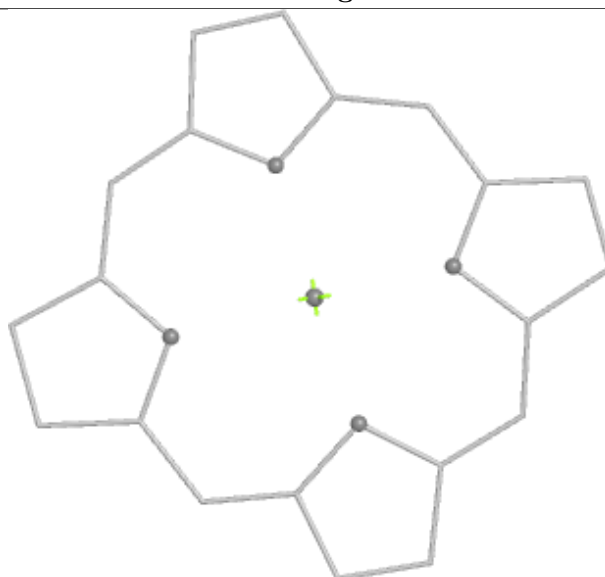
Bond lengths



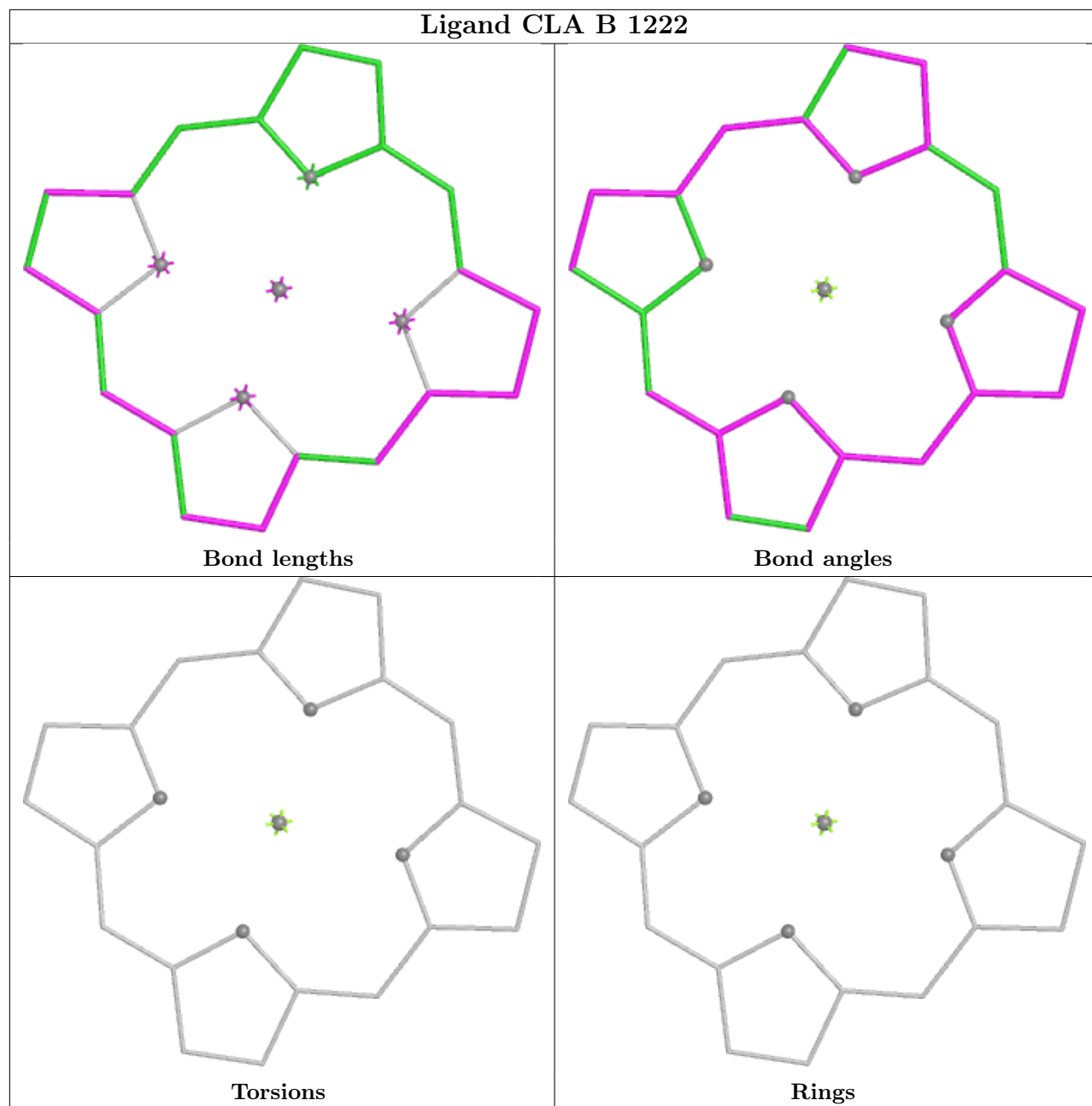
Bond angles



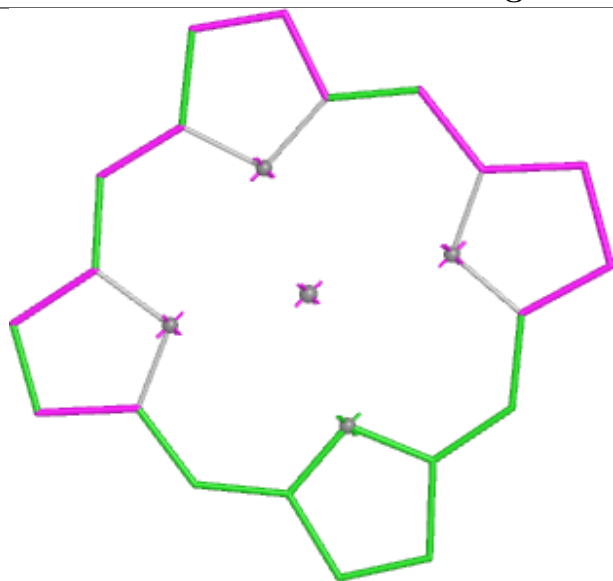
Torsions



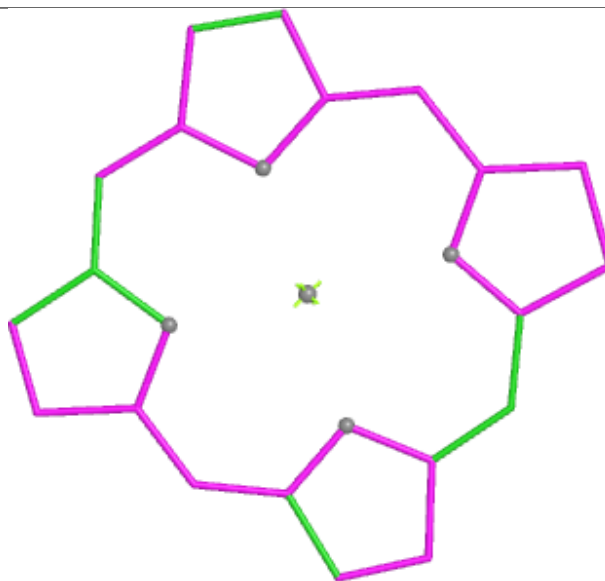
Rings



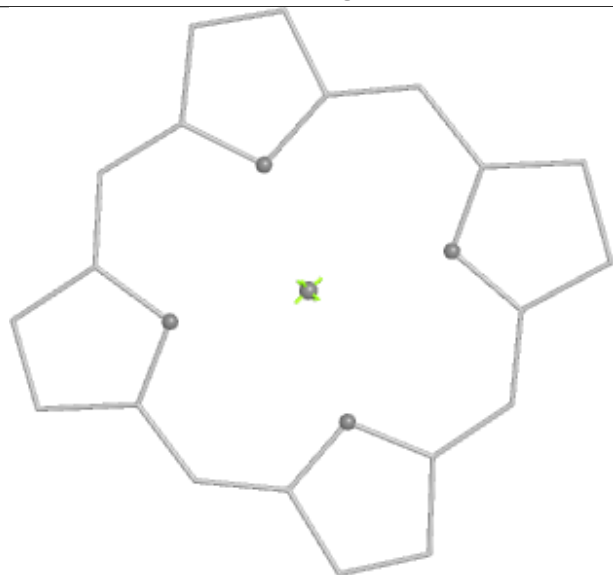
Ligand CLA B 1201



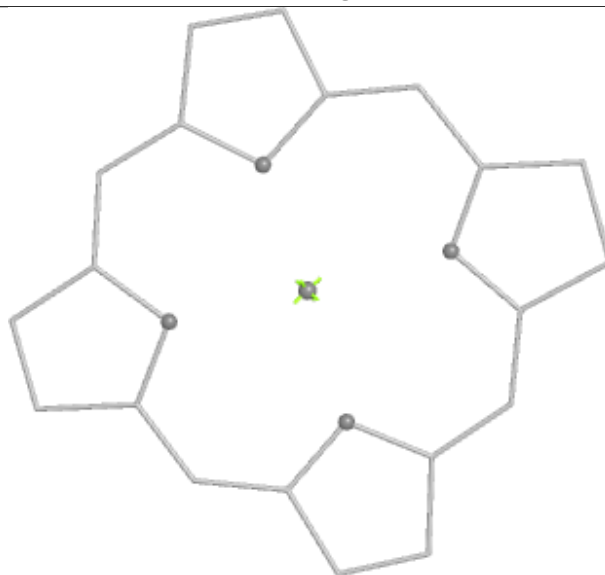
Bond lengths



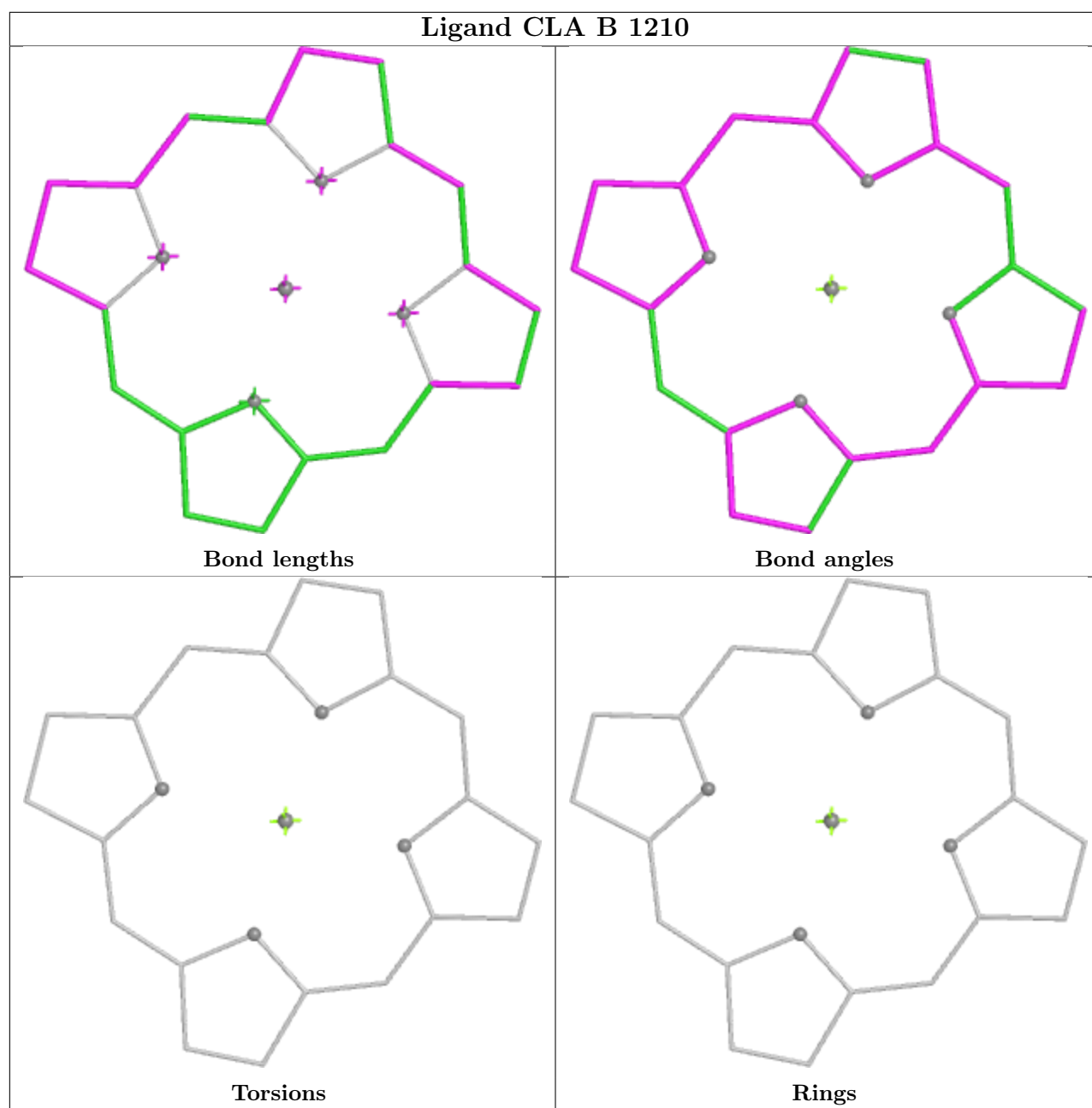
Bond angles



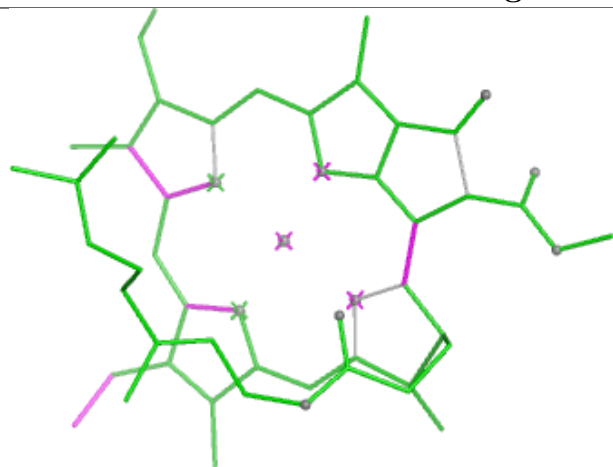
Torsions



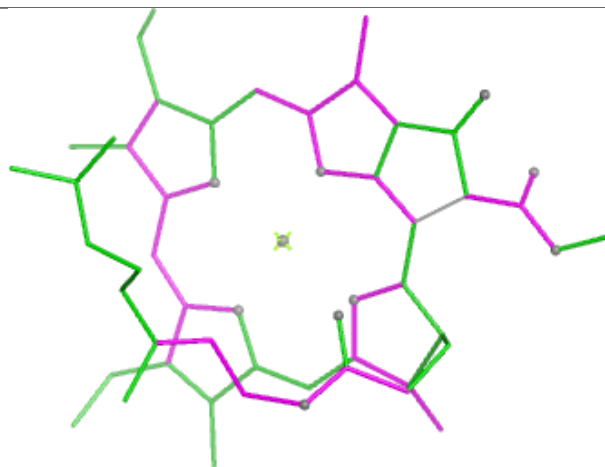
Rings



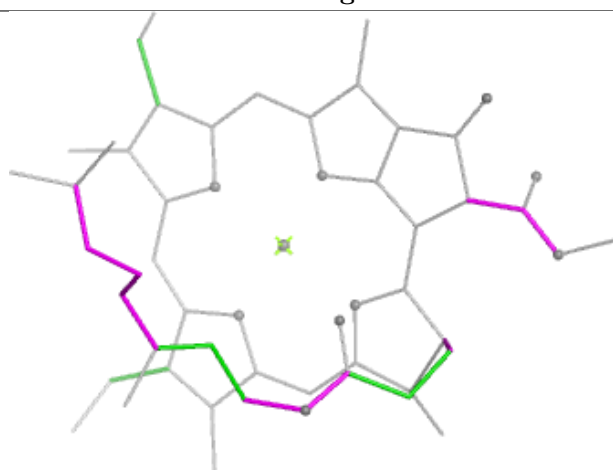
Ligand CLA A 1130



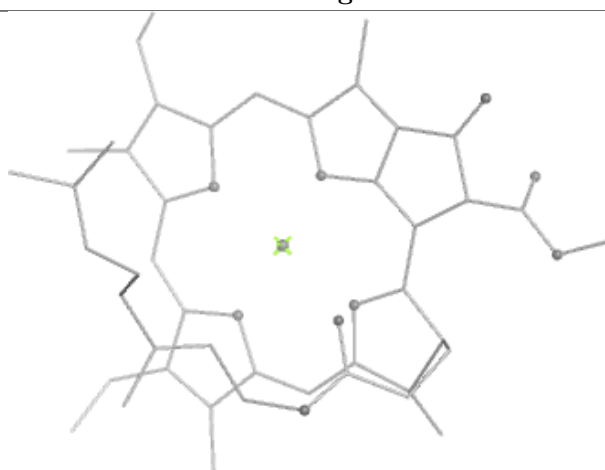
Bond lengths



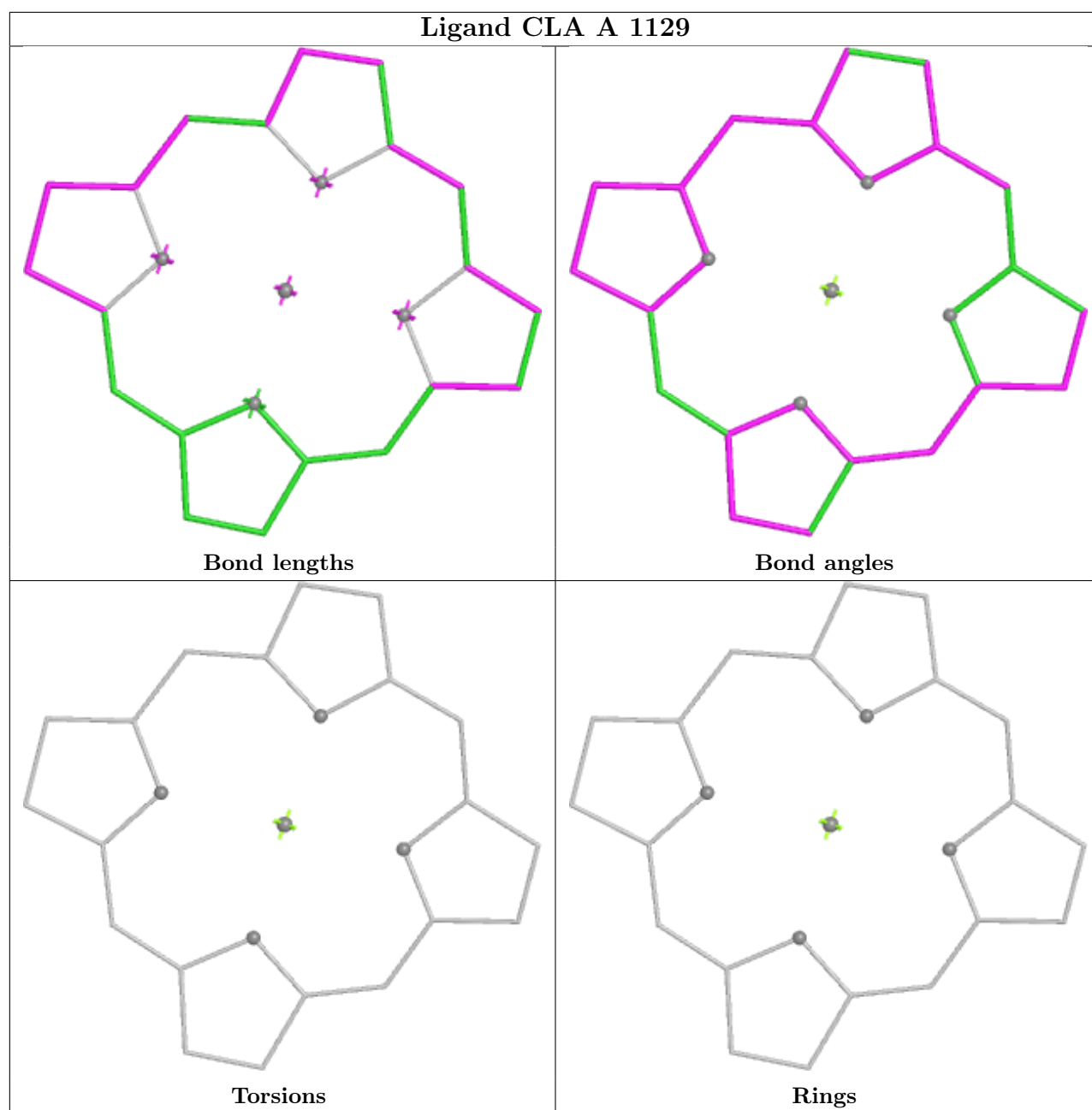
Bond angles

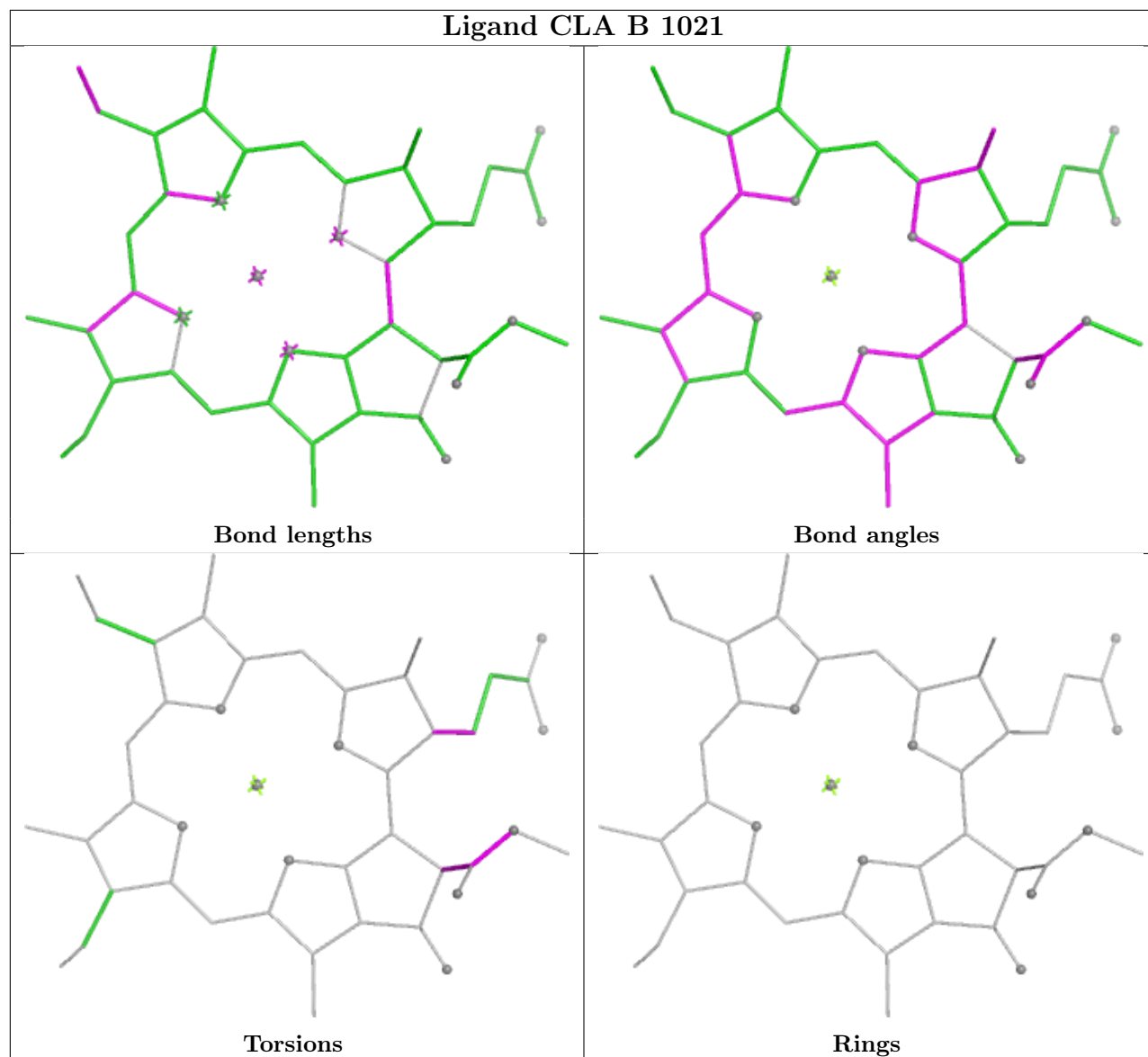


Torsions

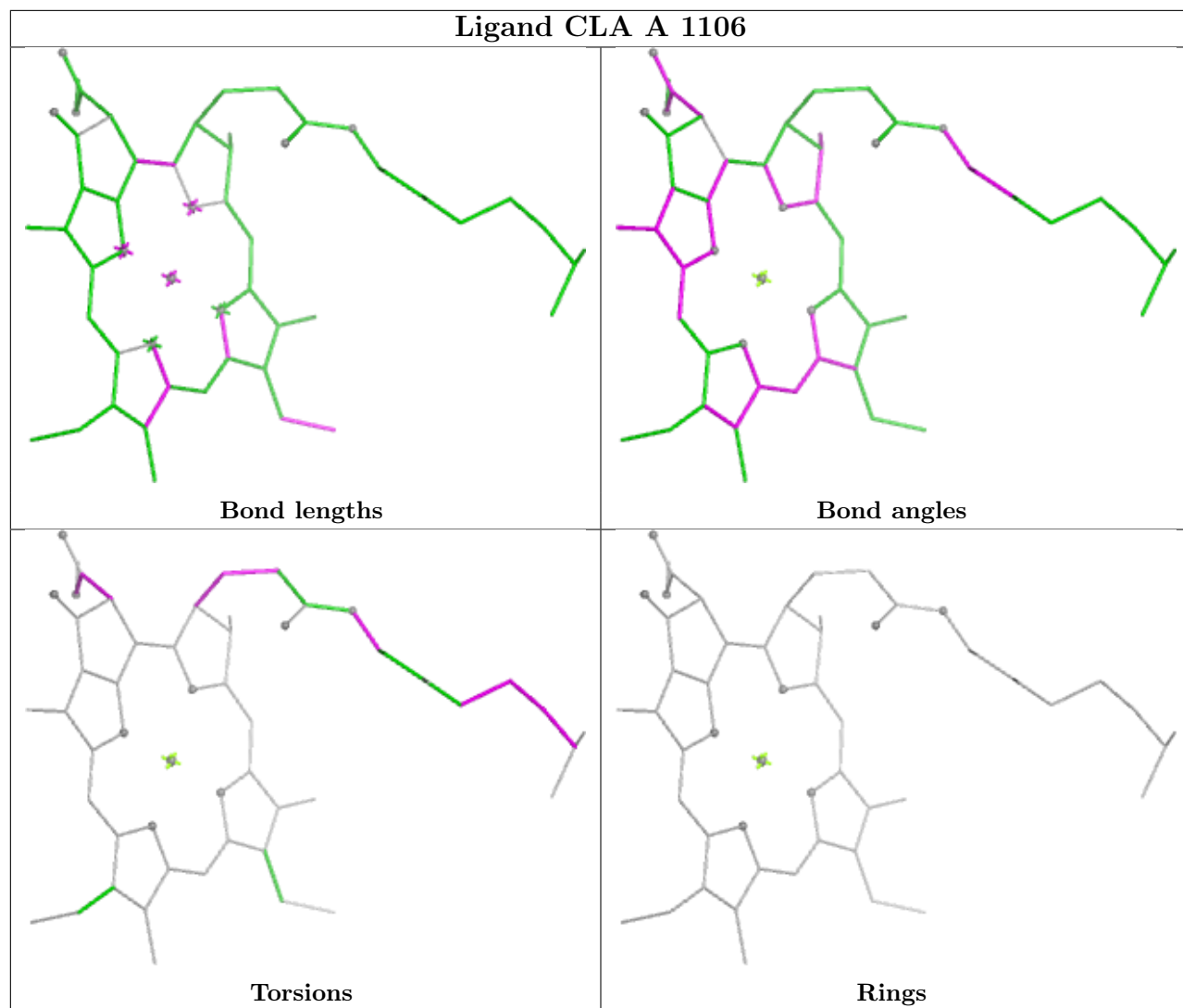


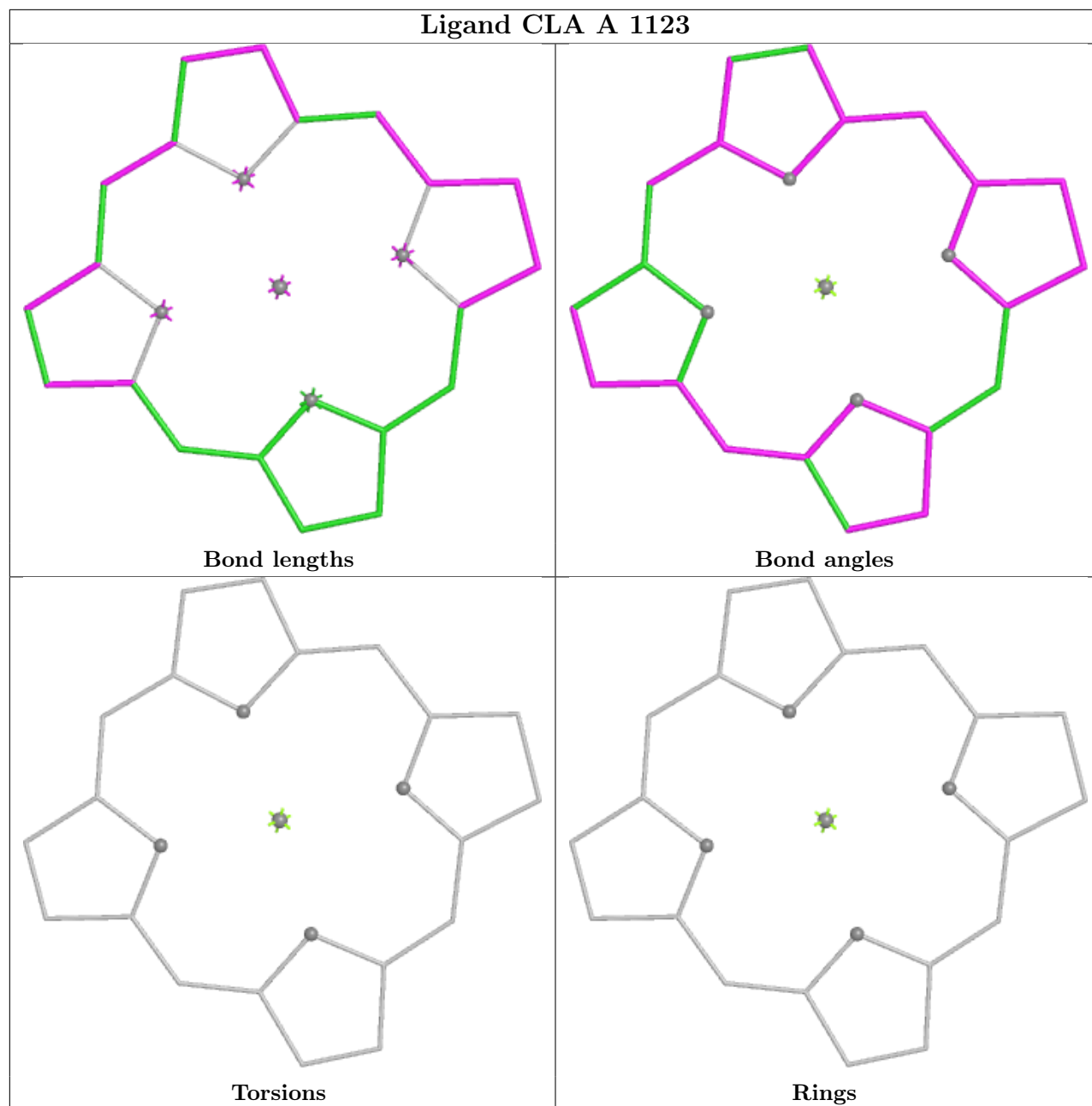
Rings

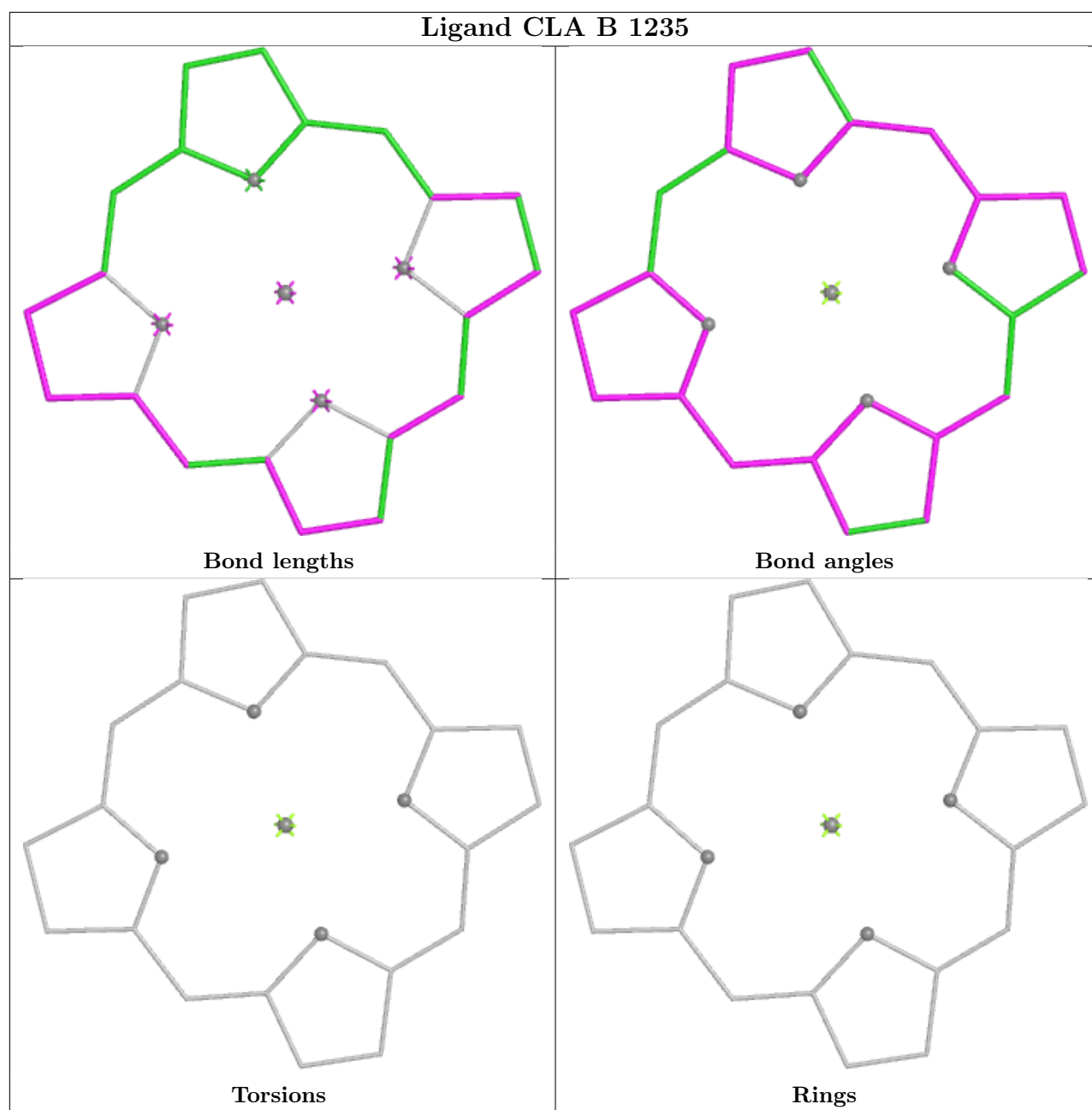




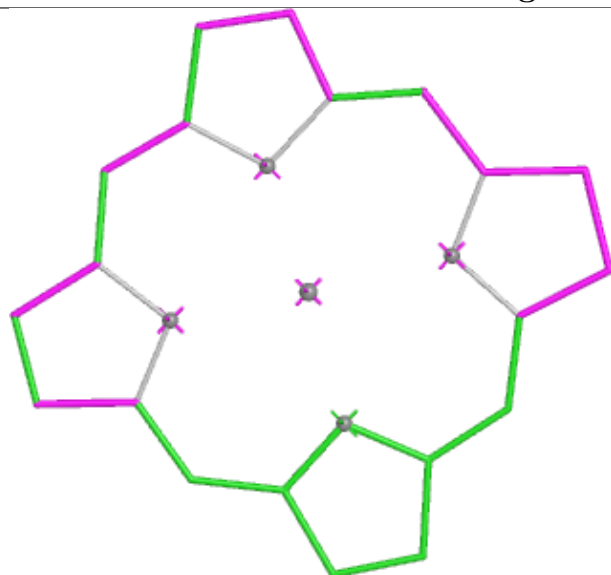
Ligand CLA A 1106



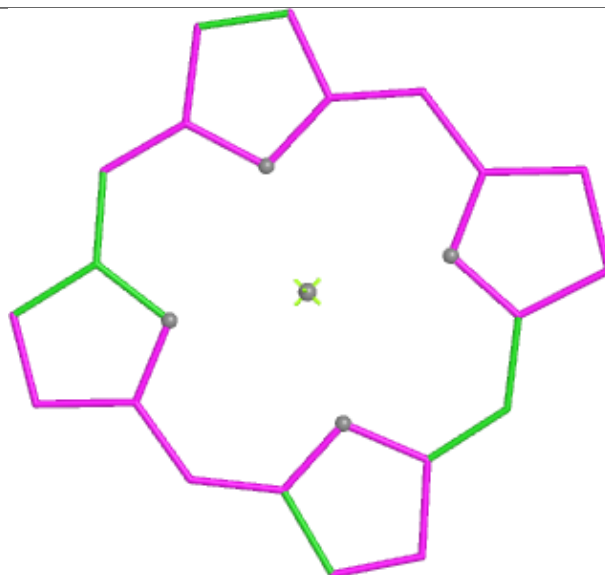




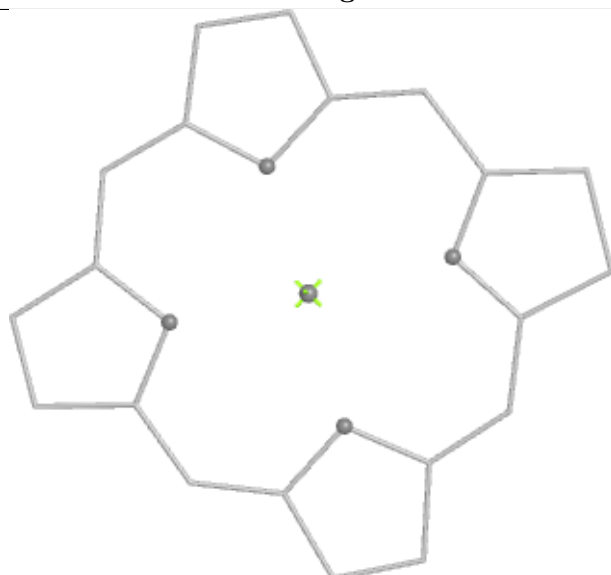
Ligand CLA 3 610



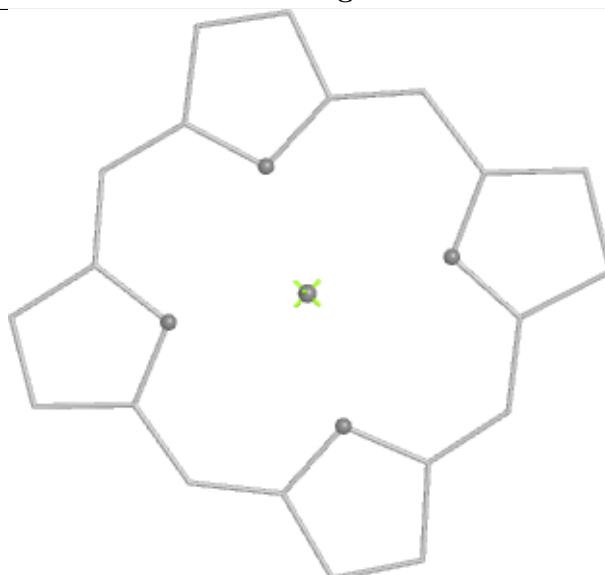
Bond lengths



Bond angles

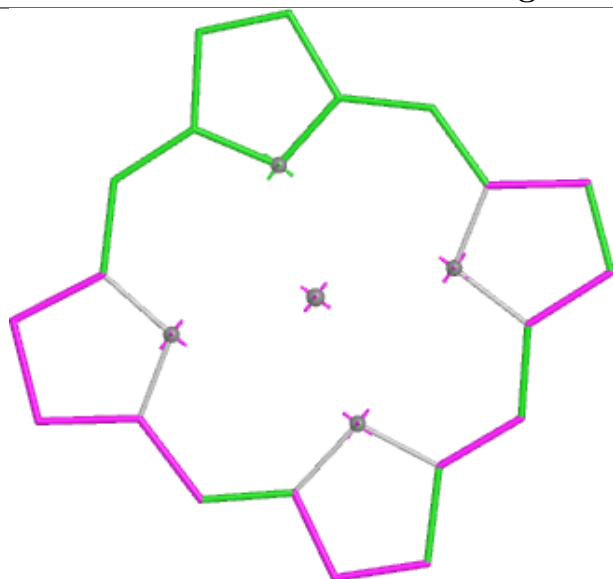


Torsions

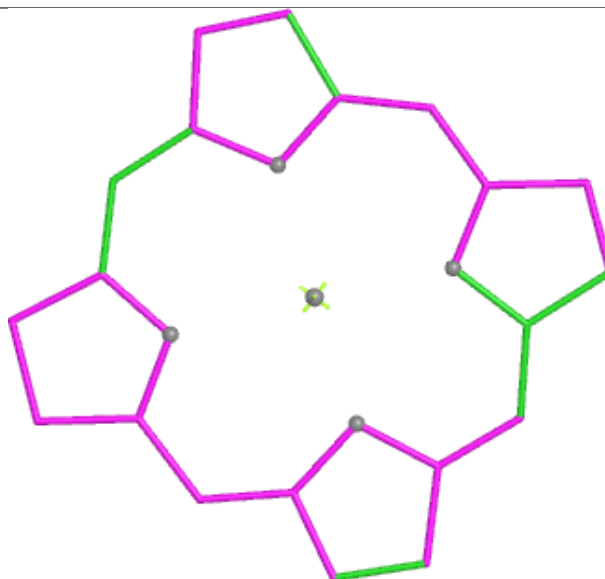


Rings

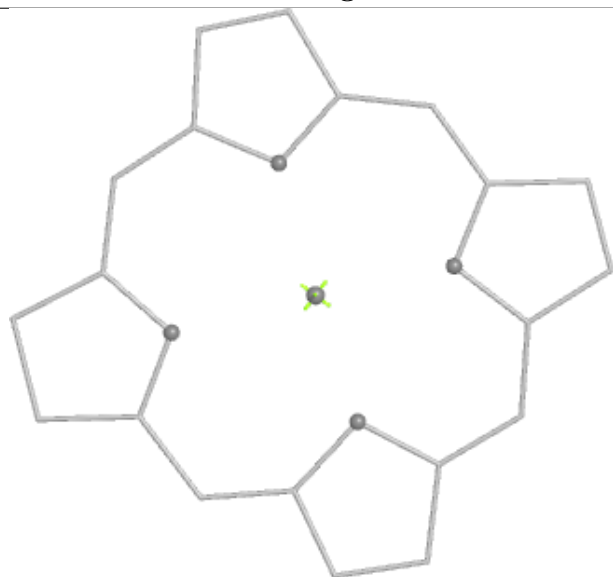
Ligand CLA 4 603



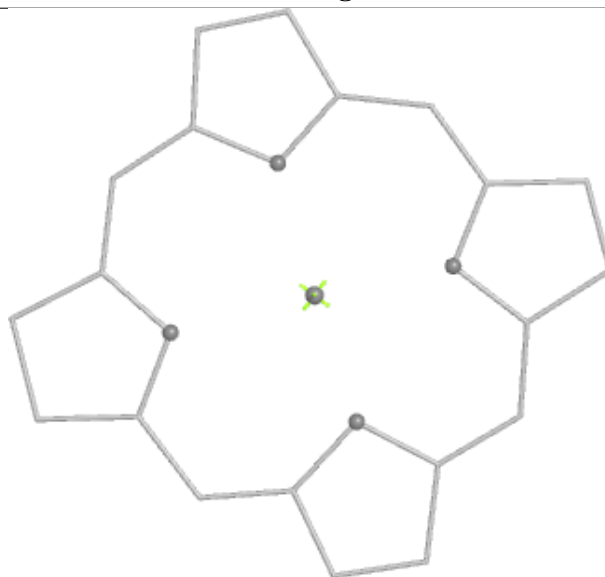
Bond lengths



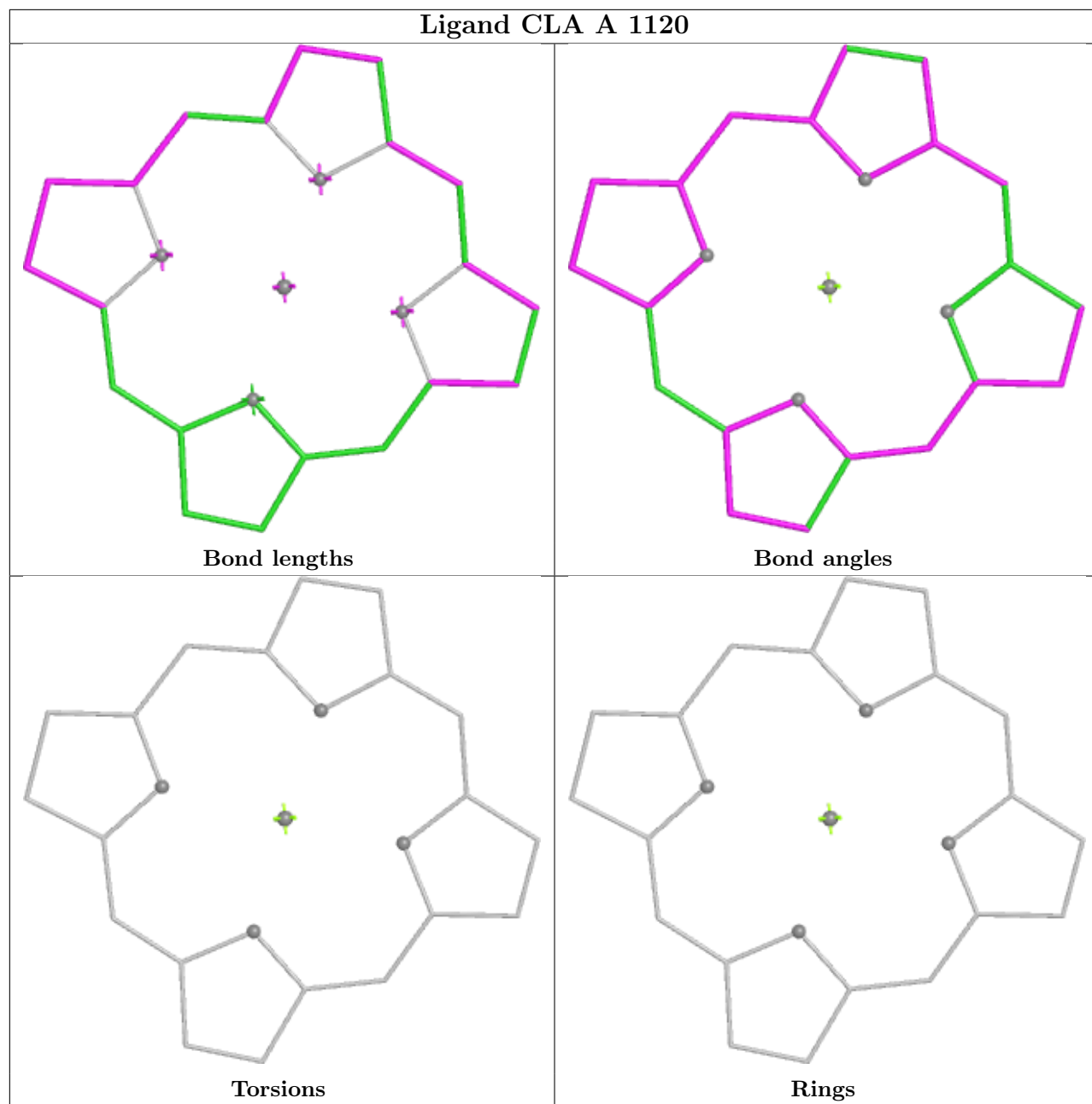
Bond angles

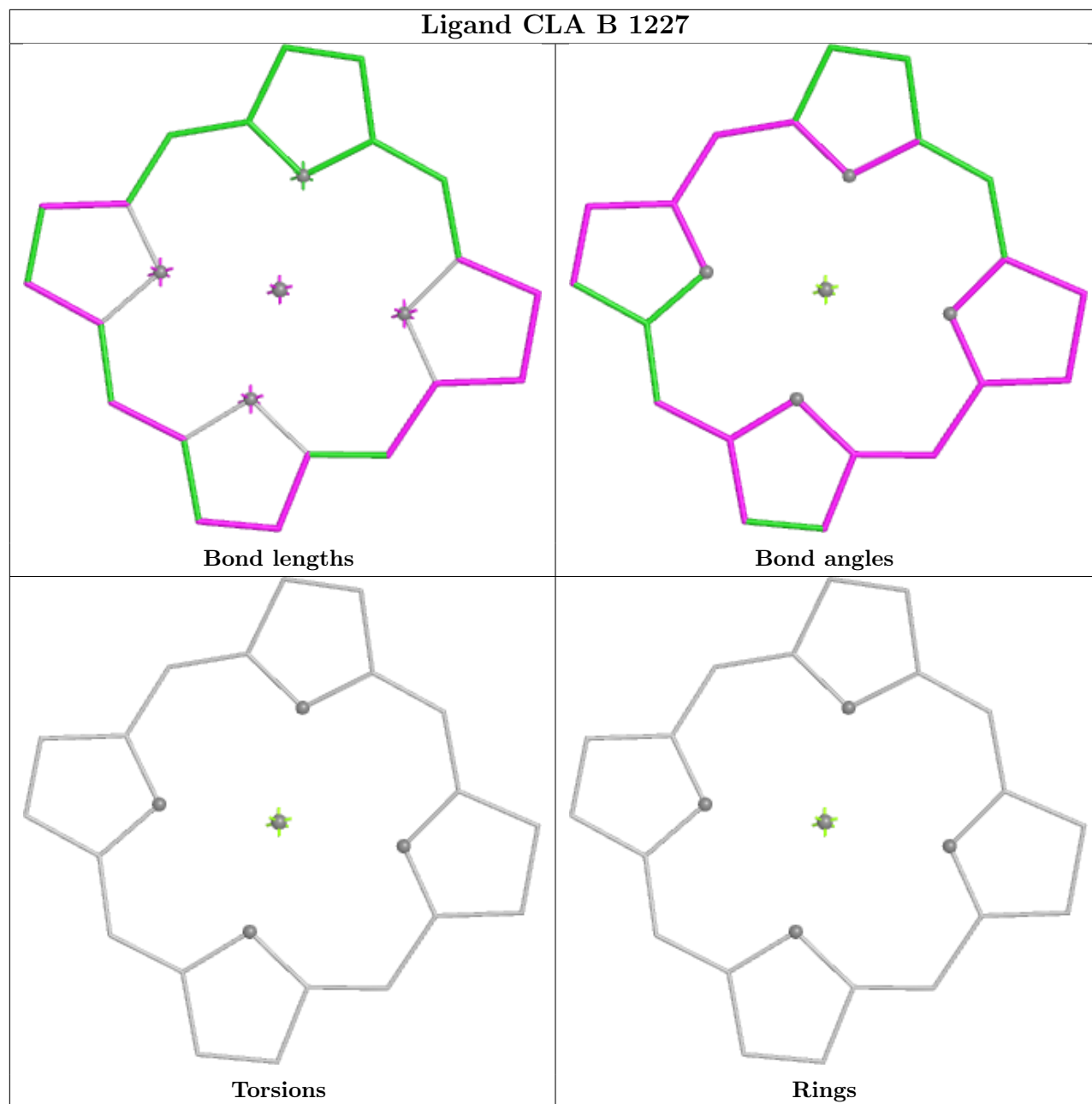


Torsions

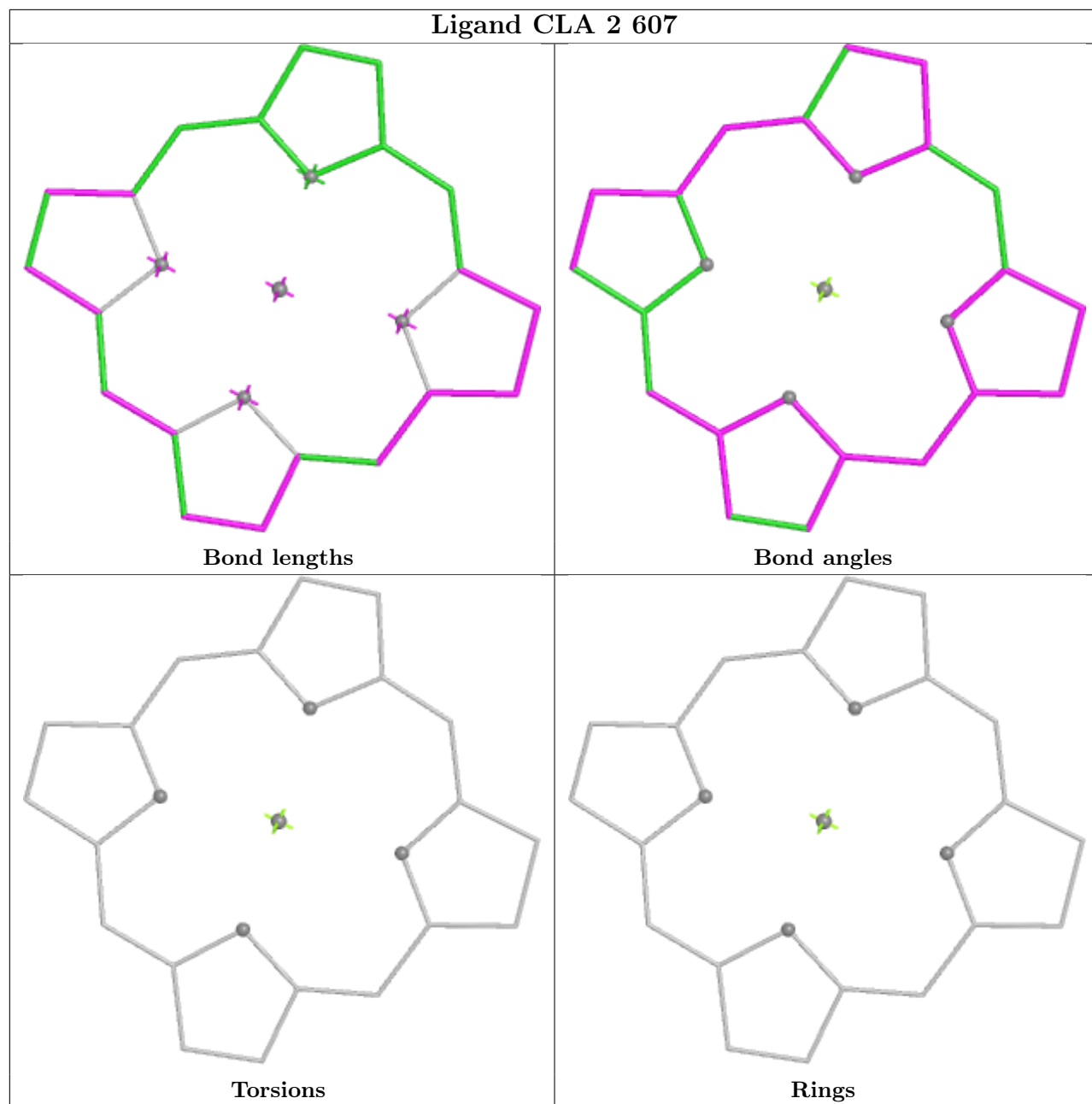


Rings

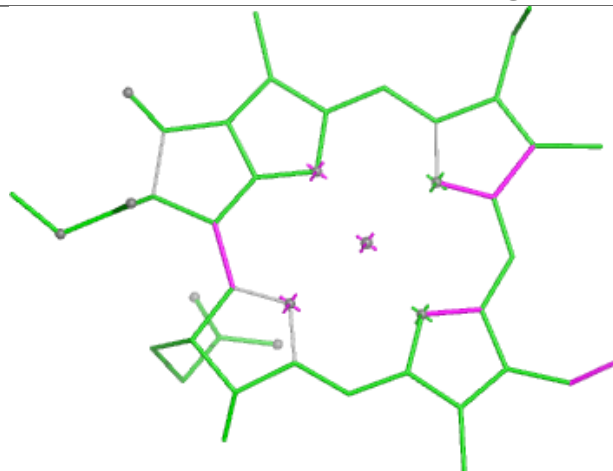




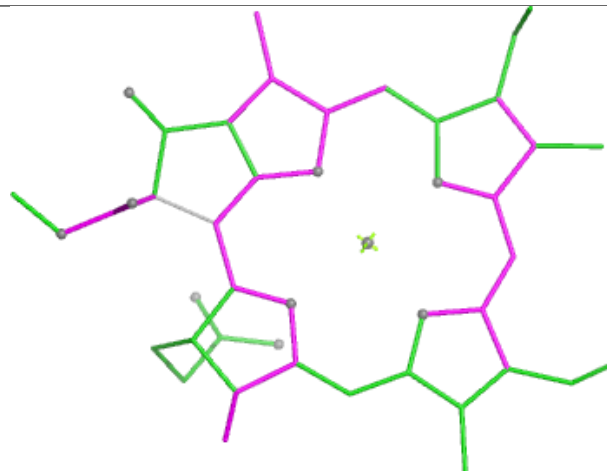
Ligand CLA 2 607



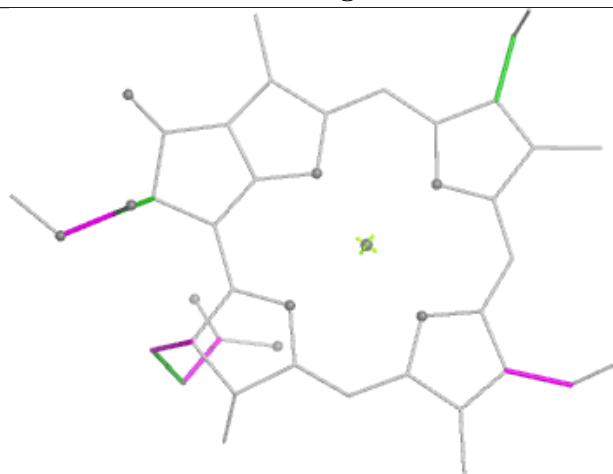
Ligand CLA A 1101



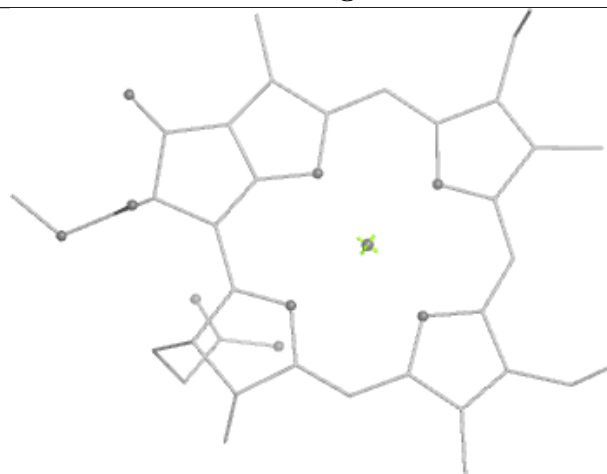
Bond lengths



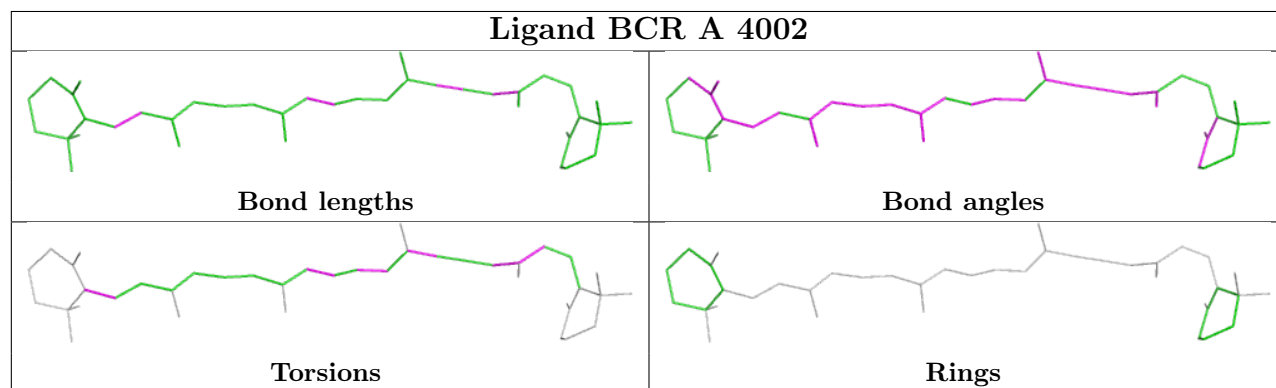
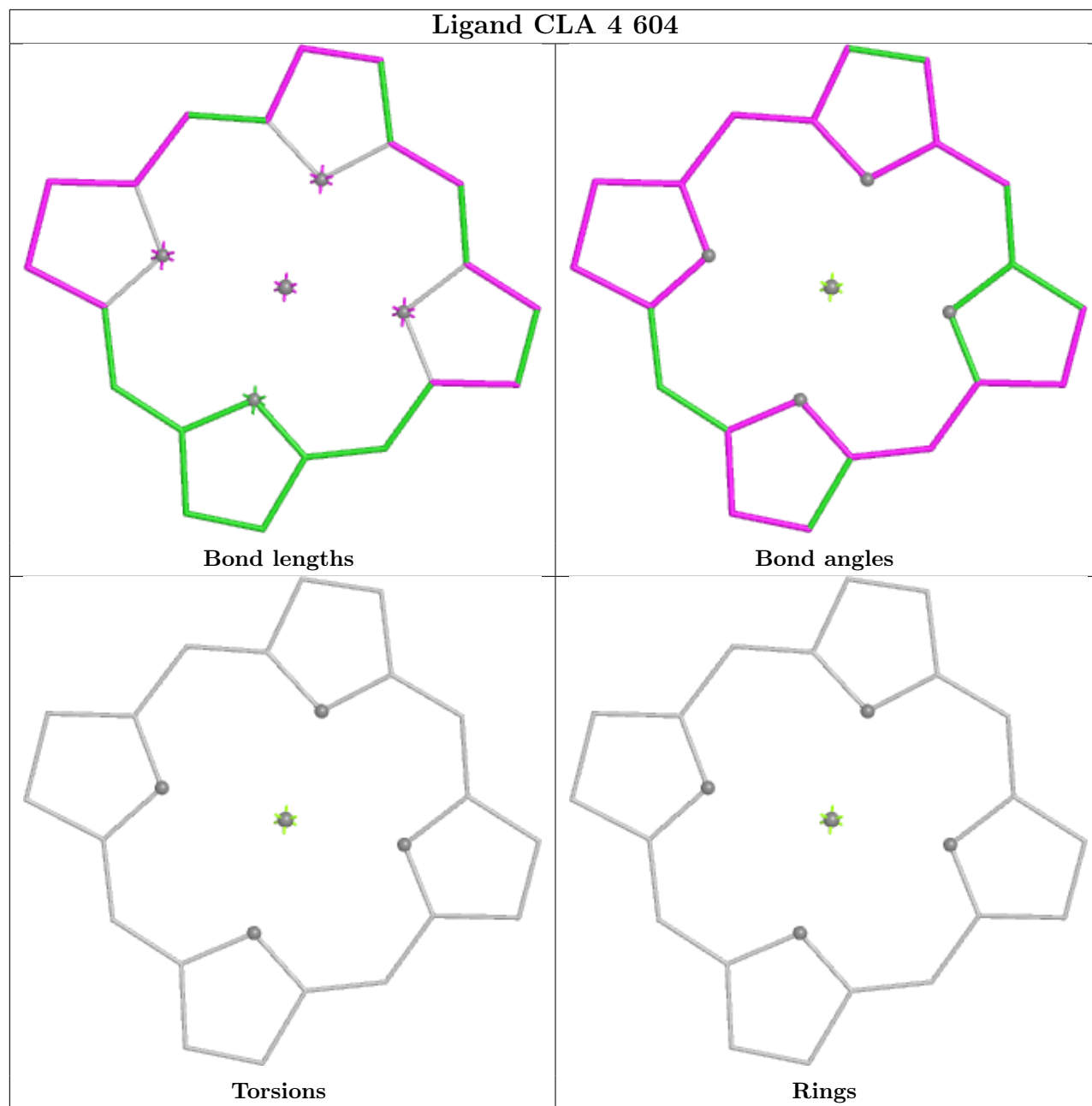
Bond angles



Torsions



Rings



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	2	144/222 (64%)	2.10	50 (34%) 1 2	118, 215, 376, 389	0
1	3	150/222 (67%)	1.77	45 (30%) 1 3	117, 198, 289, 310	0
2	4	116/214 (54%)	1.89	41 (35%) 1 2	169, 252, 362, 412	0
3	A	740/740 (100%)	1.62	189 (25%) 1 4	40, 129, 195, 255	0
4	B	725/725 (100%)	2.06	244 (33%) 1 2	101, 201, 318, 438	0
5	C	80/80 (100%)	2.67	36 (45%) 0 1	113, 162, 221, 292	0
6	D	124/124 (100%)	2.95	54 (43%) 0 1	132, 186, 251, 415	0
7	E	69/69 (100%)	3.20	21 (30%) 1 3	138, 189, 265, 445	0
8	F	153/155 (98%)	1.42	41 (26%) 1 3	117, 180, 248, 265	0
9	I	32/32 (100%)	1.52	9 (28%) 1 3	184, 254, 380, 425	0
10	J	38/38 (100%)	1.04	6 (15%) 5 9	88, 121, 212, 234	0
11	K	47/47 (100%)	1.01	8 (17%) 4 7	132, 172, 260, 291	0
12	L	140/140 (100%)	1.93	46 (32%) 1 2	156, 233, 383, 404	0
13	M	29/29 (100%)	0.87	2 (6%) 23 21	177, 247, 271, 276	0
14	O	98/98 (100%)	1.45	19 (19%) 3 6	212, 278, 405, 427	0
All	All	2685/2935 (91%)	1.89	811 (30%) 1 3	40, 183, 328, 445	0

The worst 5 of 811 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
7	E	30	SER	45.8
7	E	29	THR	38.4
6	D	107	ASN	33.8
7	E	31	LYS	31.9
4	B	130	ASN	26.2

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
15	CLA	3	603	25/65	-0.32	0.21	246,261,286,294	0
15	CLA	3	608	25/65	-0.16	0.26	298,335,354,361	0
15	CLA	B	1218	25/65	-0.03	0.18	300,335,347,356	0
15	CLA	B	1227	25/65	0.09	0.28	211,262,292,303	0
15	CLA	3	607	25/65	0.28	0.17	213,230,253,258	0
15	CLA	O	1603	25/65	0.33	0.15	179,204,218,223	0
15	CLA	2	606	25/65	0.34	0.20	191,219,239,244	0
15	CLA	B	1217	25/65	0.36	0.20	231,256,273,279	0
15	CLA	3	611	25/65	0.39	0.24	118,182,201,208	0
15	CLA	2	601	25/65	0.41	0.21	164,206,231,233	0
15	CLA	4	611	25/65	0.41	0.14	216,237,248,253	0
15	CLA	4	601	25/65	0.42	0.18	182,213,243,269	0
15	CLA	4	602	25/65	0.45	0.34	496,534,558,558	0
15	CLA	B	1209	25/65	0.45	0.24	235,264,283,284	0
15	CLA	O	1602	25/65	0.46	0.26	303,330,344,350	0
15	CLA	2	611	25/65	0.48	0.24	183,236,260,270	0
15	CLA	4	604	25/65	0.49	0.26	156,208,225,230	0
15	CLA	2	613	25/65	0.49	0.20	182,222,233,242	0
15	CLA	2	616	25/65	0.53	0.26	150,192,224,226	0
15	CLA	2	608	25/65	0.53	0.16	188,210,232,242	0
15	CLA	2	615	25/65	0.53	0.16	232,276,300,304	0
15	CLA	B	1232	65/65	0.55	0.13	128,185,220,230	0
15	CLA	B	1208	25/65	0.58	0.17	203,267,283,288	0
15	CLA	4	608	25/65	0.58	0.29	343,352,370,376	0
15	CLA	O	1601	25/65	0.59	0.24	333,342,346,354	0
15	CLA	4	616	25/65	0.60	0.16	189,214,233,237	0
15	CLA	4	610	25/65	0.60	0.24	157,182,206,213	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
15	CLA	2	602	25/65	0.61	0.14	132,169,184,193	0
15	CLA	3	602	25/65	0.62	0.15	135,182,210,216	0
15	CLA	B	1219	25/65	0.63	0.14	159,177,201,218	0
15	CLA	4	615	25/65	0.63	0.28	236,276,298,305	0
15	CLA	3	614	25/65	0.63	0.20	104,155,182,201	0
15	CLA	B	1212	25/65	0.64	0.27	184,204,223,230	0
16	PQN	B	2002	33/33	0.64	0.29	126,151,167,174	0
15	CLA	B	1223	25/65	0.65	0.28	233,265,282,284	0
15	CLA	B	1216	25/65	0.65	0.24	337,368,376,377	0
15	CLA	B	1210	25/65	0.65	0.16	227,262,274,291	0
15	CLA	L	1501	25/65	0.65	0.15	151,182,196,207	0
15	CLA	2	614	25/65	0.66	0.23	181,245,252,253	0
18	BCR	A	4008	40/40	0.66	0.40	48,114,172,181	0
18	BCR	A	4007	40/40	0.67	0.31	60,129,164,195	0
15	CLA	L	1502	25/65	0.67	0.24	146,181,197,213	0
15	CLA	2	603	25/65	0.68	0.18	157,184,202,206	0
15	CLA	B	1221	25/65	0.68	0.30	178,214,233,234	0
15	CLA	B	1231	25/65	0.68	0.27	247,265,279,286	0
15	CLA	3	601	25/65	0.69	0.15	144,196,210,234	0
18	BCR	I	4018	40/40	0.69	0.28	82,148,219,223	0
15	CLA	4	609	25/65	0.70	0.25	252,286,299,301	0
15	CLA	B	1204	25/65	0.70	0.26	259,286,298,310	0
15	CLA	2	607	25/65	0.70	0.18	159,202,220,235	0
15	CLA	4	603	25/65	0.71	0.15	103,149,175,192	0
15	CLA	B	1236	45/65	0.71	0.29	123,190,211,222	0
15	CLA	K	1402	25/65	0.71	0.21	139,167,192,202	0
15	CLA	3	604	25/65	0.73	0.18	189,234,254,266	0
15	CLA	A	1109	25/65	0.73	0.16	55,102,136,154	0
18	BCR	A	4017	40/40	0.73	0.33	86,164,194,202	0
15	CLA	2	610	25/65	0.73	0.17	164,216,237,243	0
15	CLA	K	1401	25/65	0.74	0.16	151,187,207,218	0
15	CLA	3	606	25/65	0.76	0.15	172,210,242,250	0
15	CLA	3	612	25/65	0.76	0.20	163,188,205,220	0
15	CLA	A	1120	25/65	0.76	0.22	109,183,229,234	0
15	CLA	B	1214	25/65	0.77	0.36	274,296,313,326	0
15	CLA	L	1503	25/65	0.78	0.21	237,249,262,268	0
15	CLA	A	1112	25/65	0.78	0.20	97,124,135,141	0
15	CLA	B	1021	45/65	0.78	0.28	114,149,172,191	0
15	CLA	2	604	25/65	0.79	0.21	139,163,200,206	0
15	CLA	A	1137	25/65	0.79	0.24	71,135,157,165	0
15	CLA	4	606	25/65	0.79	0.17	161,216,236,250	0
15	CLA	B	1238	25/65	0.79	0.16	103,134,162,167	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
15	CLA	F	1302	25/65	0.79	0.17	186,229,263,264	0
15	CLA	B	1203	25/65	0.79	0.27	100,156,175,184	0
15	CLA	A	1119	25/65	0.79	0.22	110,152,178,187	0
18	BCR	A	4011	40/40	0.79	0.33	51,112,139,162	0
15	CLA	B	1207	25/65	0.79	0.17	262,286,303,307	0
18	BCR	B	4008	40/40	0.79	0.38	172,230,254,261	0
15	CLA	B	1228	25/65	0.79	0.16	132,186,206,213	0
15	CLA	A	1121	25/65	0.80	0.20	105,146,174,178	0
15	CLA	4	612	25/65	0.80	0.17	87,127,149,161	0
15	CLA	A	1138	25/65	0.80	0.21	107,137,164,202	0
15	CLA	A	1116	55/65	0.80	0.26	42,90,116,124	0
16	PQN	A	2001	33/33	0.81	0.24	36,100,136,159	0
15	CLA	B	1235	25/65	0.81	0.17	105,137,154,160	0
18	BCR	A	4002	40/40	0.82	0.24	29,93,126,132	0
15	CLA	F	1301	45/65	0.82	0.23	96,146,168,177	0
15	CLA	B	1220	25/65	0.82	0.17	197,228,243,255	0
15	CLA	A	1123	25/65	0.82	0.23	90,121,141,147	0
15	CLA	A	1103	55/65	0.82	0.25	48,92,121,124	0
18	BCR	B	4005	40/40	0.82	0.29	90,132,165,170	0
15	CLA	A	1114	46/65	0.82	0.18	44,120,152,168	0
15	CLA	A	1101	45/65	0.82	0.24	62,120,151,173	0
15	CLA	A	1105	55/65	0.83	0.21	39,125,150,190	0
15	CLA	B	1023	50/65	0.83	0.23	88,147,172,183	0
15	CLA	J	1302	50/65	0.83	0.18	88,178,204,225	0
15	CLA	A	1131	45/65	0.84	0.20	57,87,101,121	0
15	CLA	B	1226	55/65	0.84	0.29	72,163,196,199	0
15	CLA	A	1111	25/65	0.84	0.17	62,104,123,138	0
15	CLA	A	1012	55/65	0.84	0.25	67,145,178,191	0
15	CLA	A	1141	25/65	0.84	0.15	145,178,193,196	0
15	CLA	A	1125	25/65	0.84	0.20	14,51,82,84	0
15	CLA	B	1230	47/65	0.85	0.18	84,129,151,175	0
15	CLA	A	1115	55/65	0.85	0.14	77,115,144,156	0
15	CLA	A	1128	25/65	0.85	0.16	46,72,86,89	0
15	CLA	2	605	25/65	0.85	0.13	88,123,137,147	0
15	CLA	B	1225	50/65	0.85	0.26	89,228,243,267	0
15	CLA	A	1134	25/65	0.85	0.16	96,146,167,169	0
15	CLA	A	1135	25/65	0.85	0.20	101,119,157,168	0
15	CLA	B	1201	25/65	0.85	0.18	139,156,172,175	0
15	CLA	B	1229	50/65	0.85	0.17	105,140,167,180	0
15	CLA	A	1130	55/65	0.86	0.23	121,209,233,235	0
15	CLA	2	612	25/65	0.86	0.22	142,175,184,189	0
15	CLA	B	1234	25/65	0.86	0.26	228,248,256,260	0

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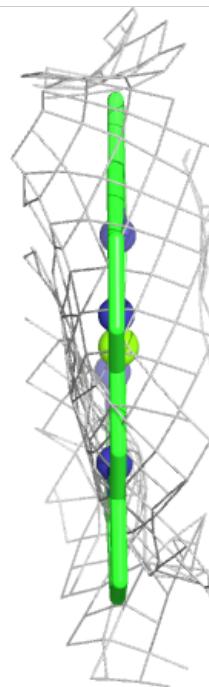
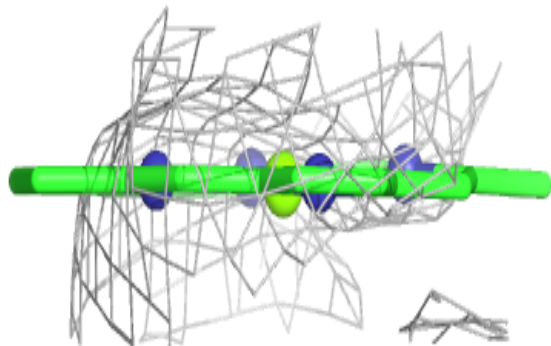
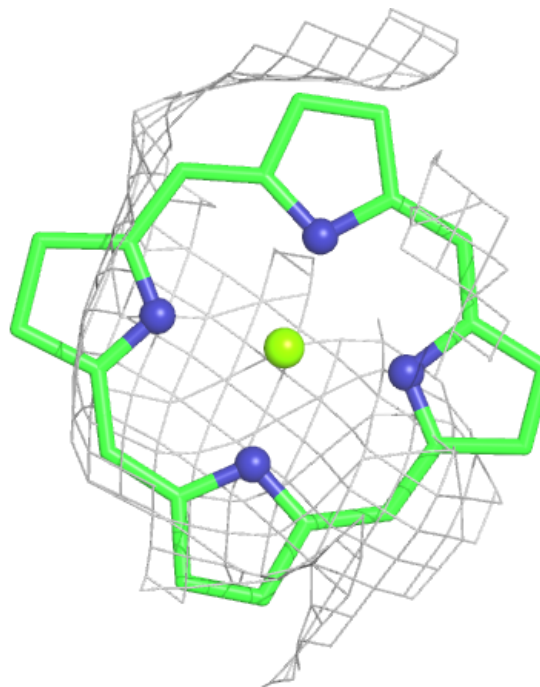
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
15	CLA	A	1133	25/65	0.86	0.18	127,167,194,209	0
15	CLA	B	1202	25/65	0.86	0.21	128,158,167,172	0
15	CLA	B	1237	55/65	0.86	0.19	82,150,181,203	0
15	CLA	A	1118	25/65	0.86	0.28	155,183,211,214	0
15	CLA	A	1011	50/65	0.87	0.28	98,141,159,202	0
15	CLA	B	1022	25/65	0.87	0.20	106,141,159,178	0
15	CLA	A	1107	55/65	0.87	0.20	55,115,172,216	0
15	CLA	A	1129	25/65	0.87	0.24	142,179,197,200	0
15	CLA	A	1108	25/65	0.87	0.19	45,123,143,151	0
15	CLA	B	1215	25/65	0.87	0.17	134,189,204,215	0
15	CLA	A	1113	25/65	0.87	0.14	86,119,141,149	0
15	CLA	A	1139	25/65	0.87	0.20	91,143,148,161	0
15	CLA	B	1239	25/65	0.87	0.17	131,149,167,170	0
15	CLA	A	1132	25/65	0.87	0.17	69,121,152,153	0
15	CLA	A	1122	25/65	0.88	0.13	52,112,129,135	0
15	CLA	A	1102	25/65	0.88	0.19	58,103,120,128	0
15	CLA	A	1110	25/65	0.88	0.19	139,192,211,225	0
15	CLA	A	1127	25/65	0.88	0.15	0,57,91,97	0
15	CLA	A	1013	55/65	0.88	0.23	45,141,172,184	0
15	CLA	A	1104	55/65	0.88	0.20	41,85,120,133	0
15	CLA	4	605	25/65	0.89	0.15	105,126,145,154	0
15	CLA	A	1117	55/65	0.89	0.27	12,113,142,154	0
15	CLA	B	1222	25/65	0.89	0.25	204,224,242,243	0
15	CLA	A	1124	25/65	0.89	0.16	50,82,106,122	0
15	CLA	B	1224	55/65	0.89	0.34	174,218,261,270	0
15	CLA	3	610	25/65	0.89	0.13	144,167,182,195	0
15	CLA	B	1211	25/65	0.89	0.14	166,183,201,217	0
15	CLA	B	1206	25/65	0.89	0.19	148,173,194,203	0
15	CLA	A	1106	55/65	0.91	0.23	61,117,147,168	0
15	CLA	B	1205	25/65	0.92	0.17	260,280,296,302	0
15	CLA	A	1136	25/65	0.92	0.24	87,161,186,206	0
15	CLA	A	1126	55/65	0.92	0.23	26,91,120,129	0
15	CLA	A	1140	25/65	0.93	0.17	68,92,127,132	0
17	SF4	C	3003	8/8	0.94	0.21	117,158,186,198	0
17	SF4	C	3002	8/8	0.95	0.15	137,166,186,216	0
17	SF4	A	3001	8/8	0.95	0.14	145,192,216,219	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

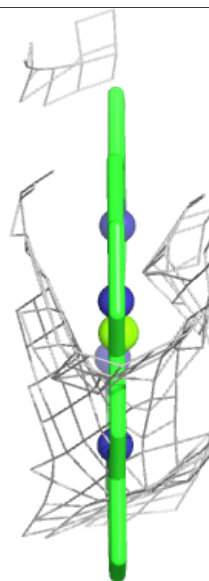
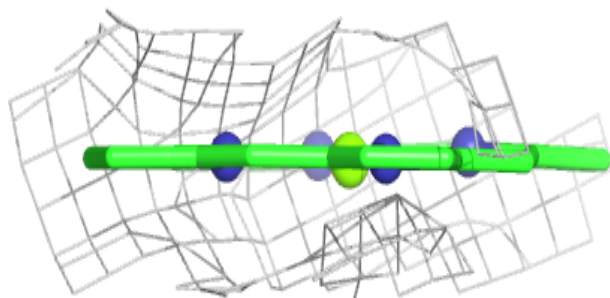
Electron density around CLA 3 603:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



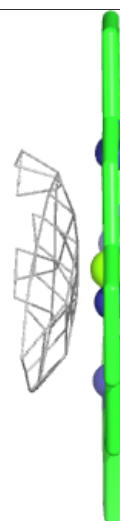
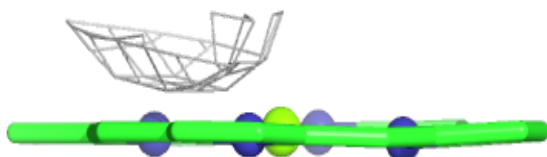
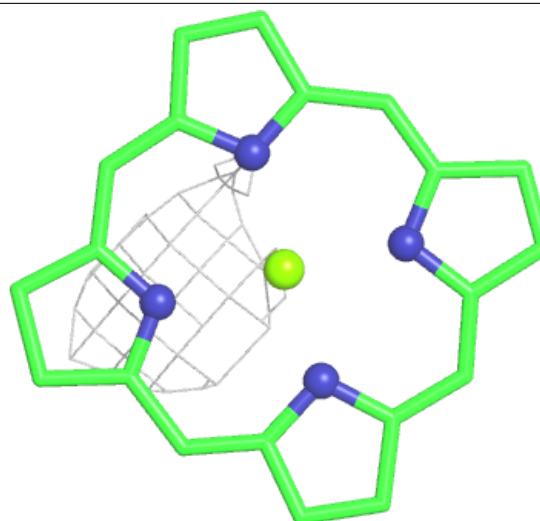
Electron density around CLA 3 608:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



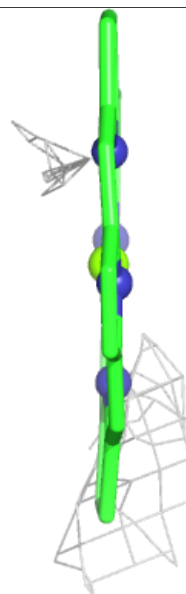
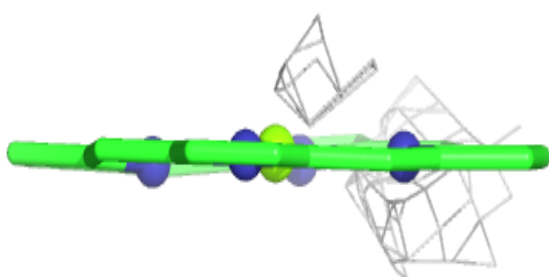
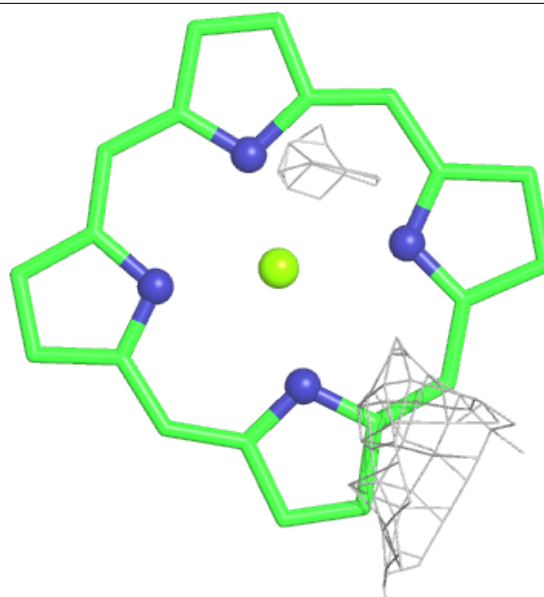
Electron density around CLA B 1218:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



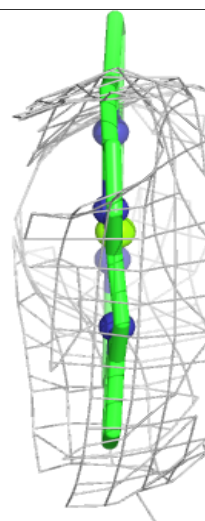
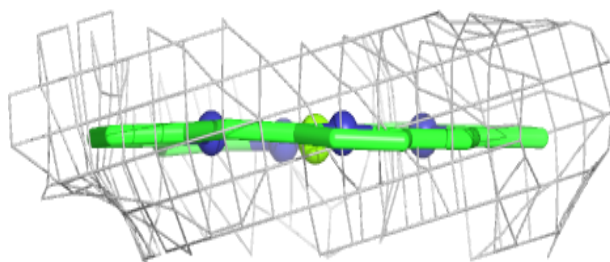
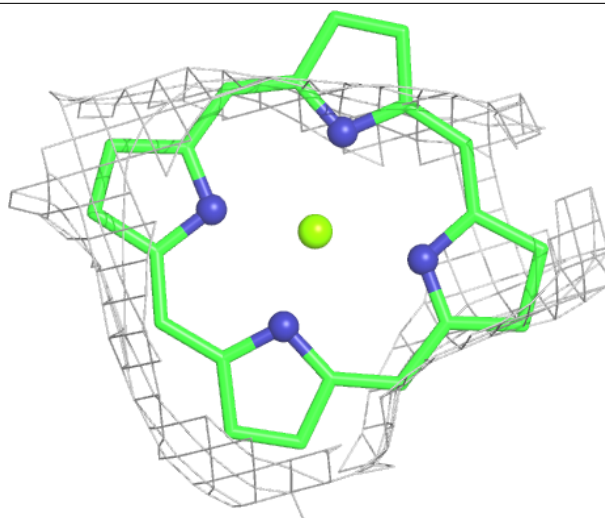
Electron density around CLA B 1227:

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and green (positive)



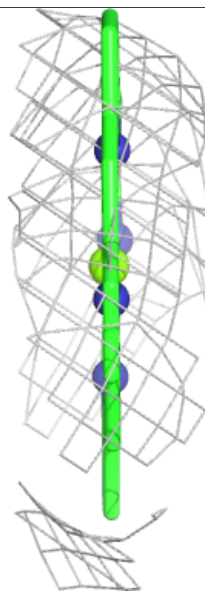
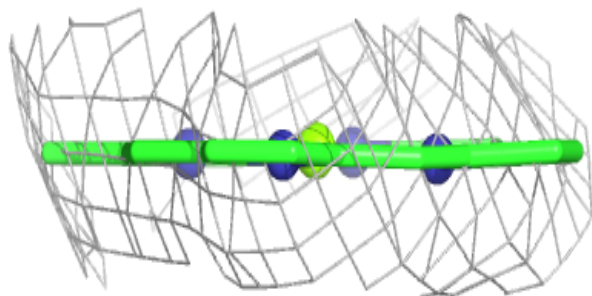
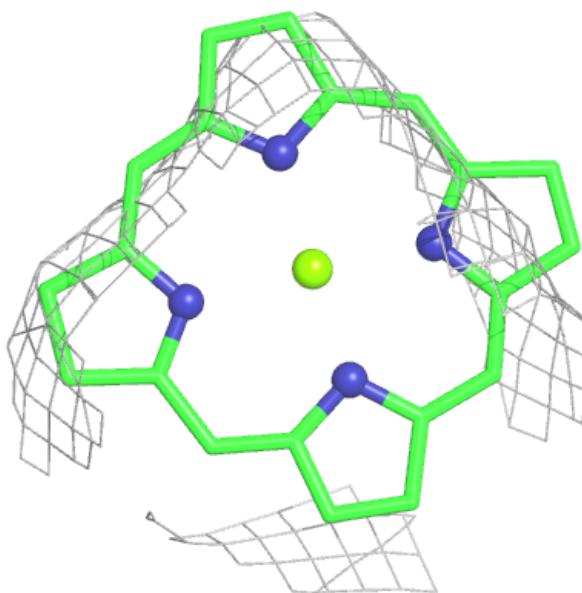
Electron density around CLA 3 607:

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and green (positive)



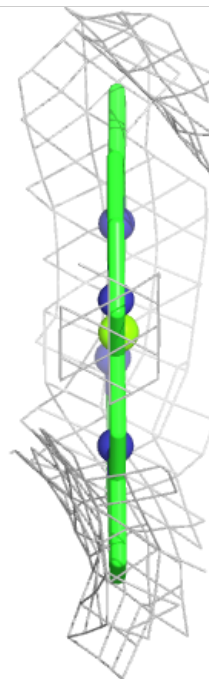
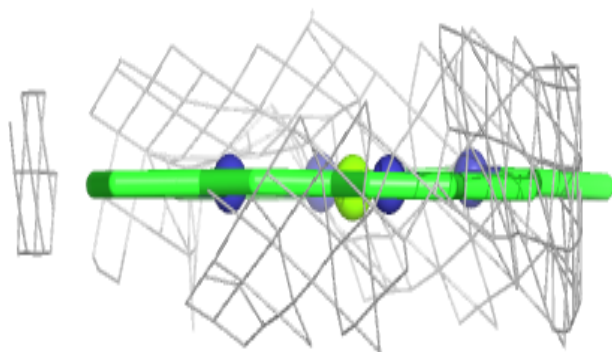
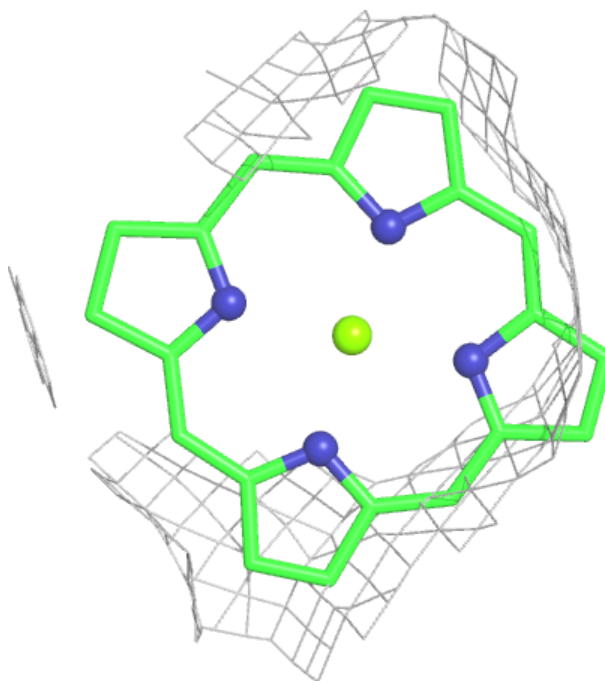
Electron density around CLA O 1603:

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and green (positive)



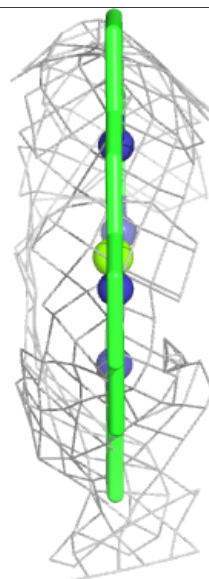
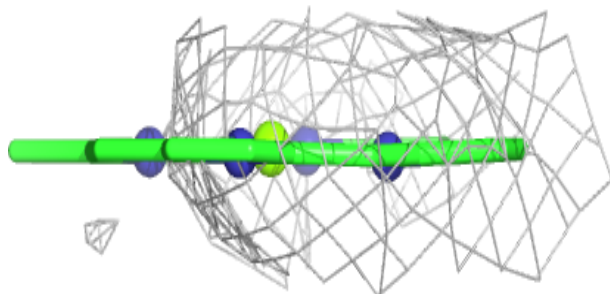
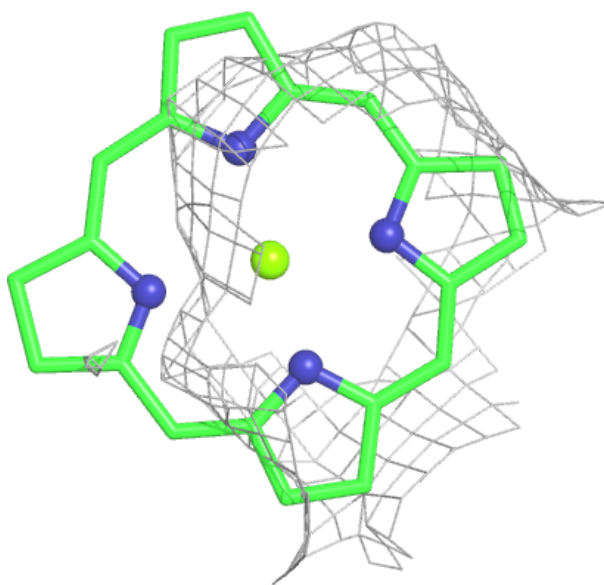
Electron density around CLA 2 606:

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and green (positive)



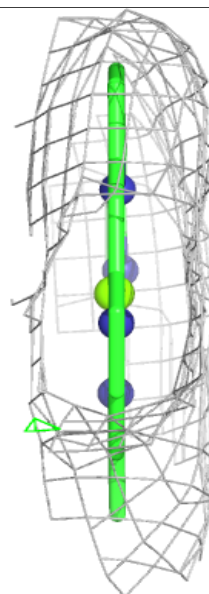
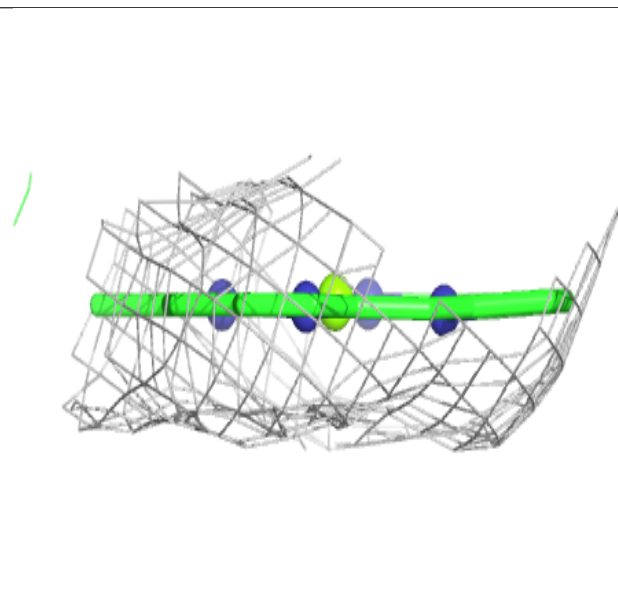
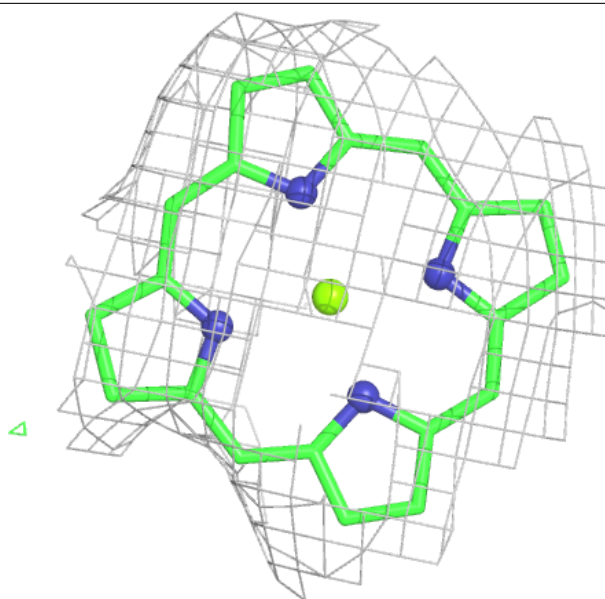
Electron density around CLA B 1217:

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and green (positive)



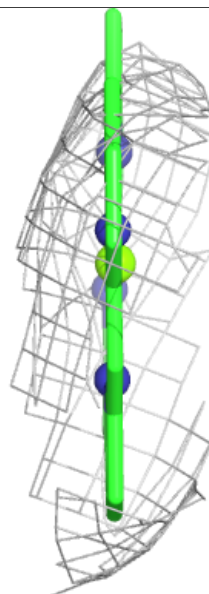
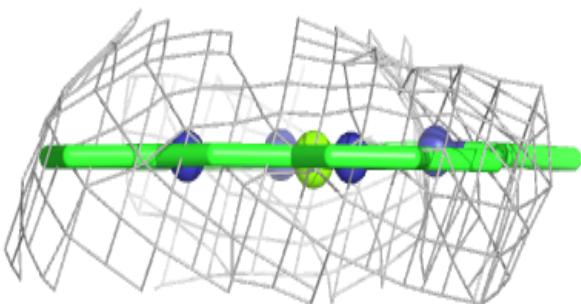
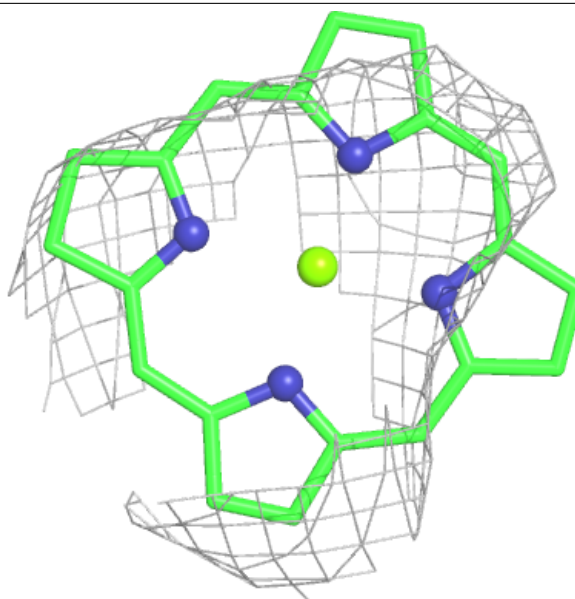
Electron density around CLA 3 611:

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and green (positive)



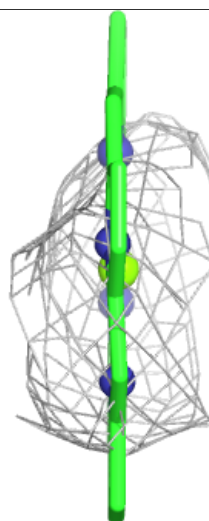
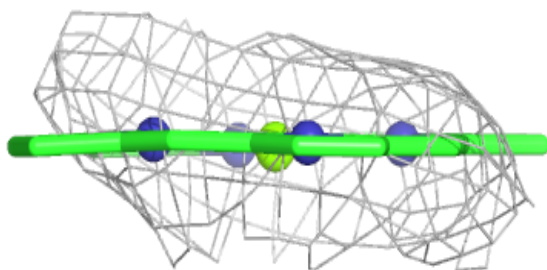
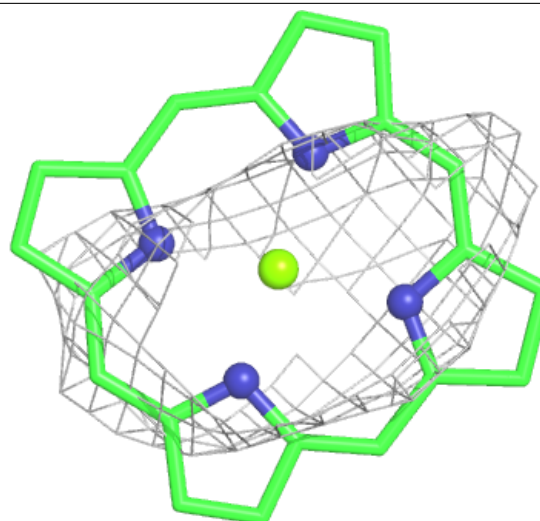
Electron density around CLA 2 601:

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and green (positive)



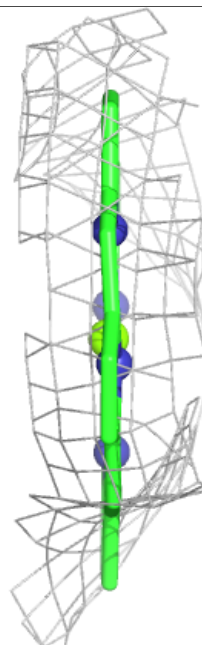
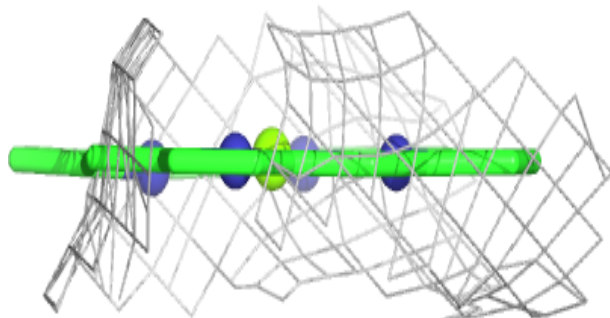
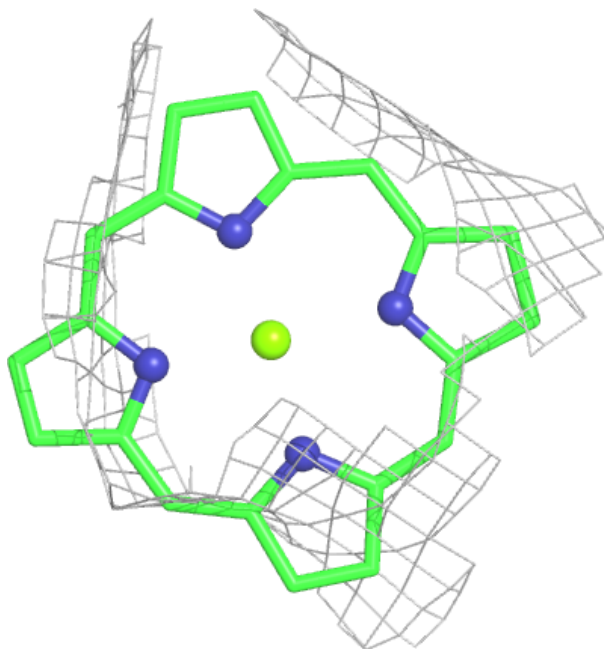
Electron density around CLA 4 611:

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and green (positive)



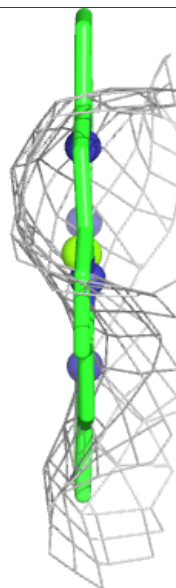
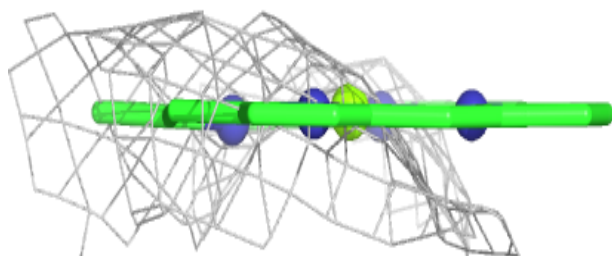
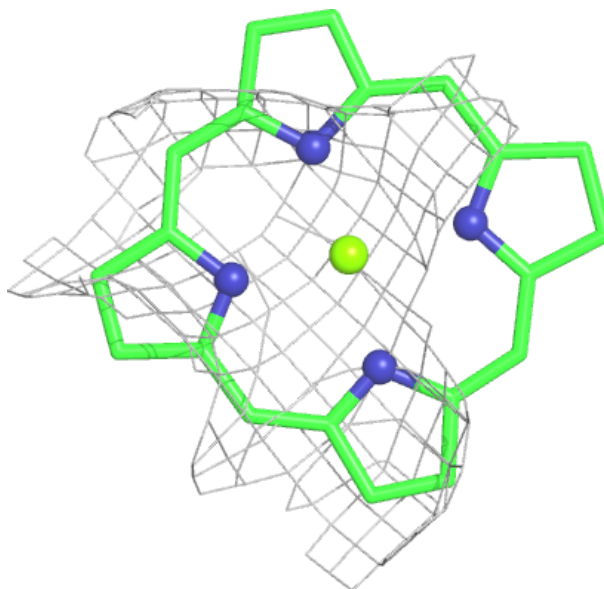
Electron density around CLA 4 601:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



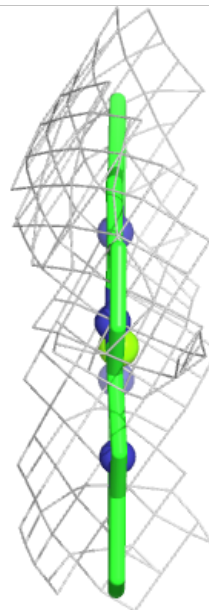
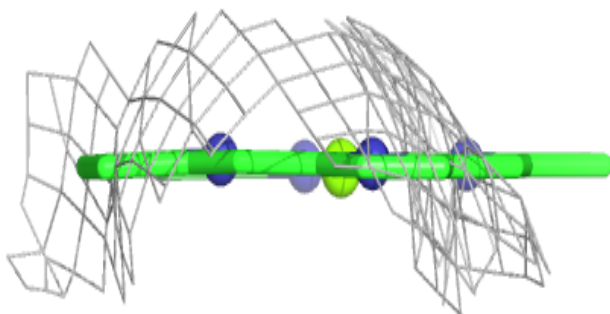
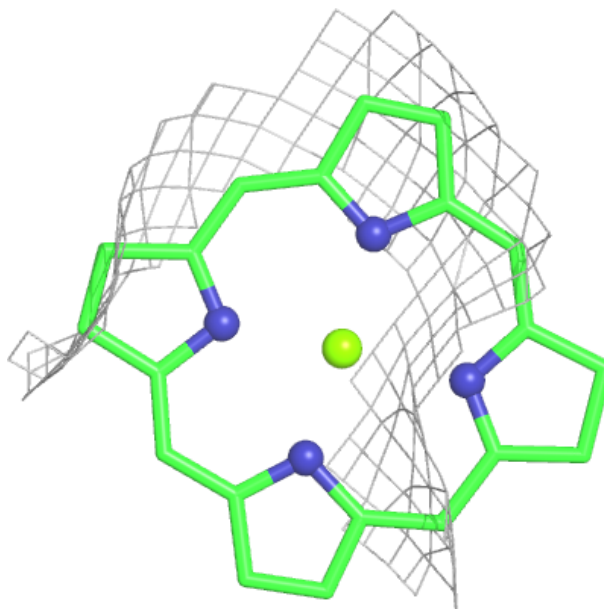
Electron density around CLA 4 602:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



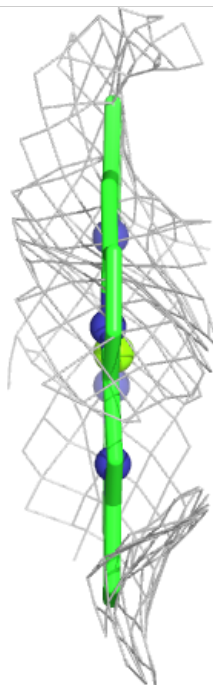
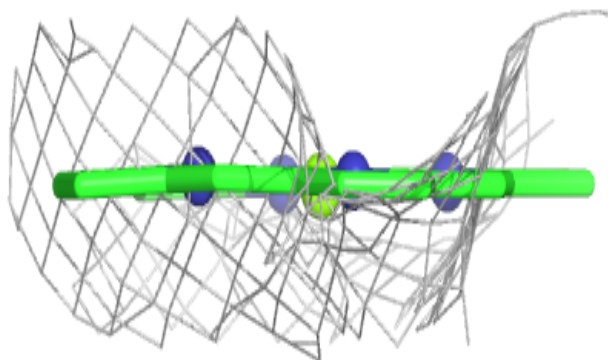
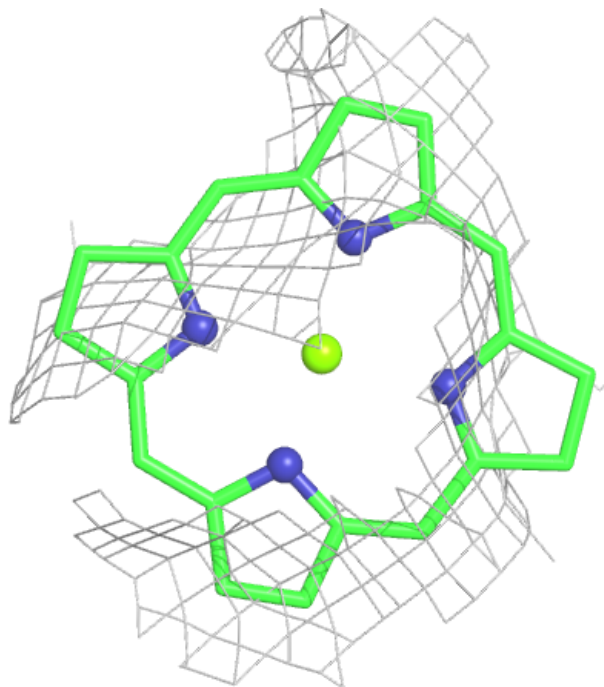
Electron density around CLA B 1209:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



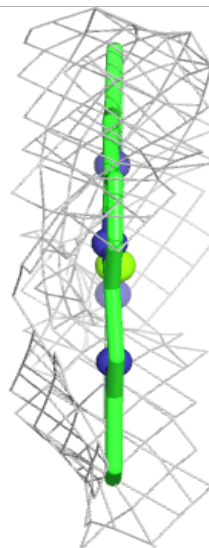
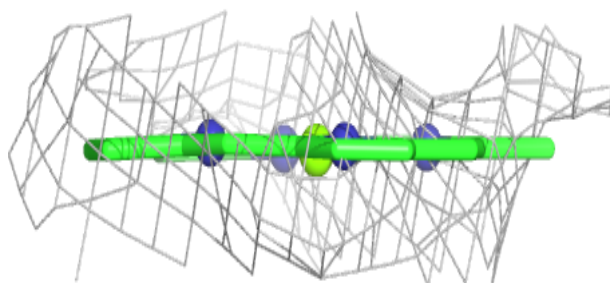
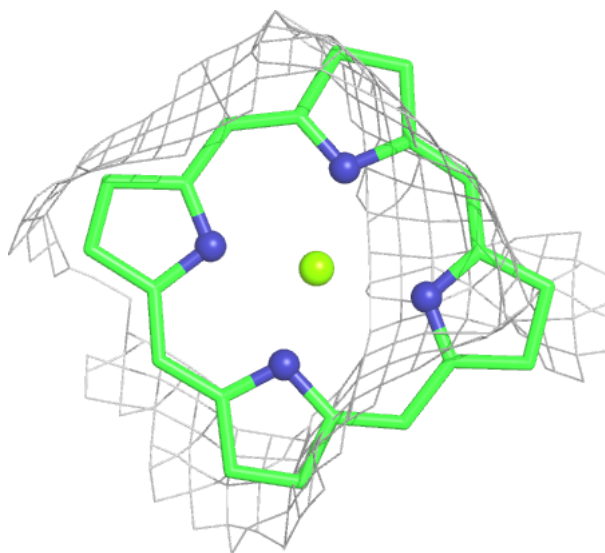
Electron density around CLA O 1602:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



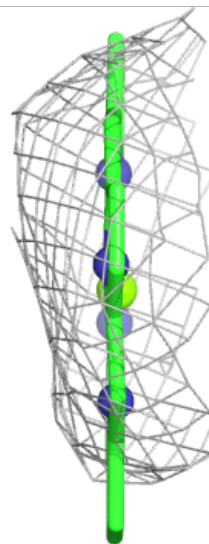
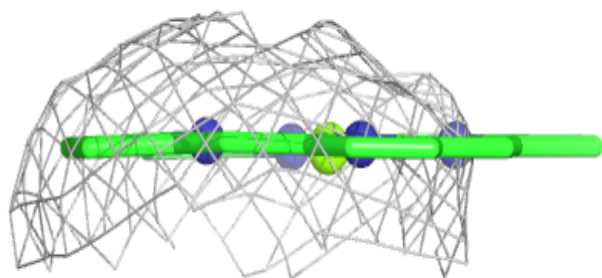
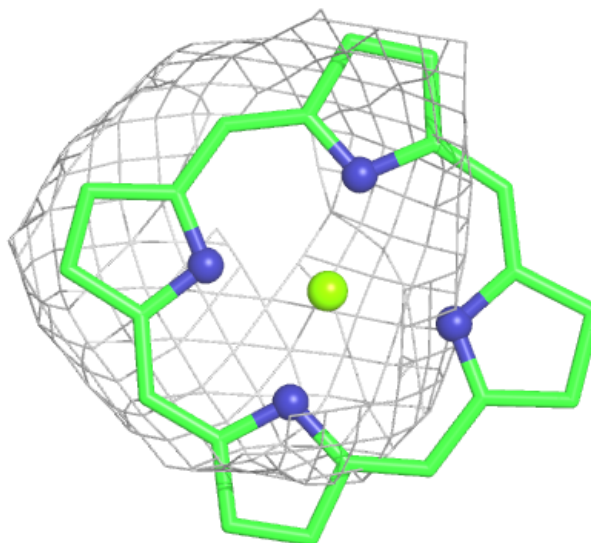
Electron density around CLA 2 611:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



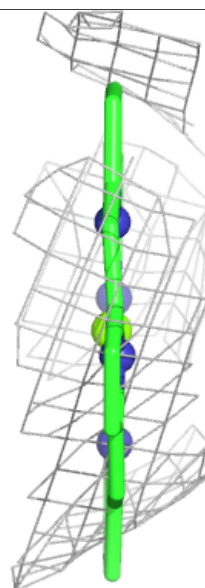
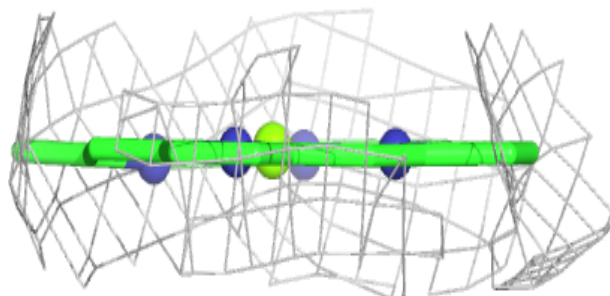
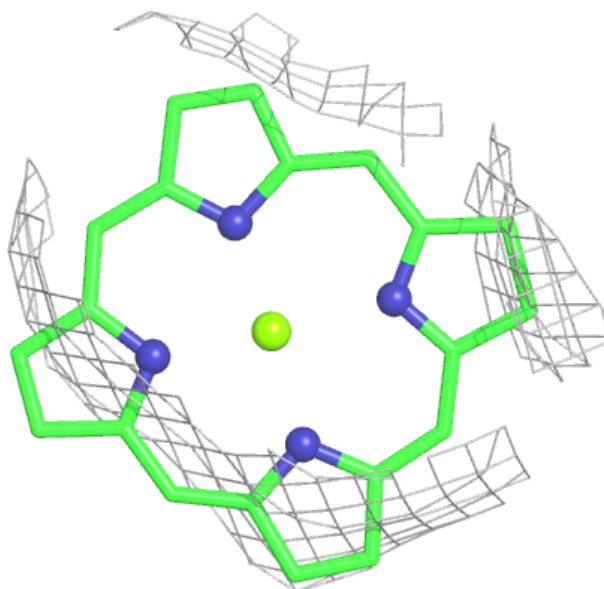
Electron density around CLA 4 604:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



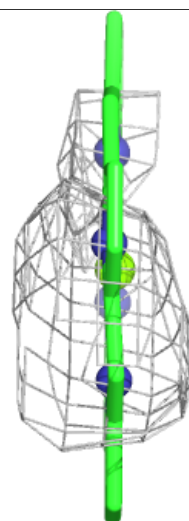
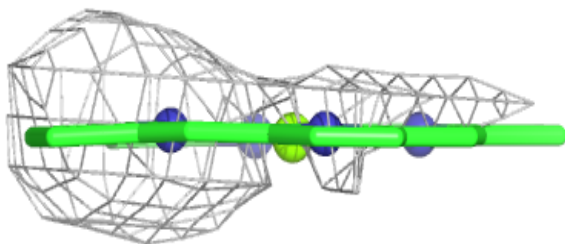
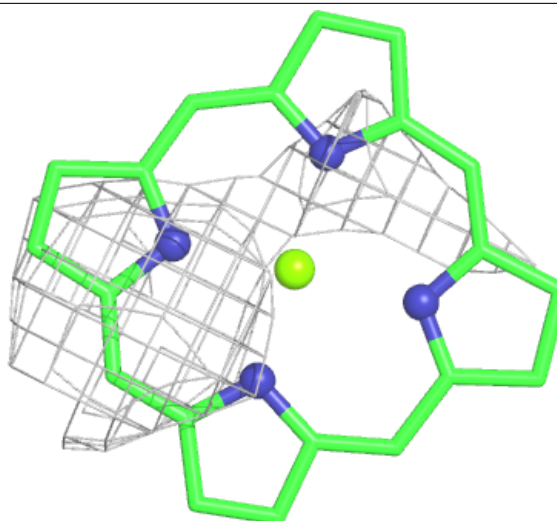
Electron density around CLA 2 613:

2mF_o-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



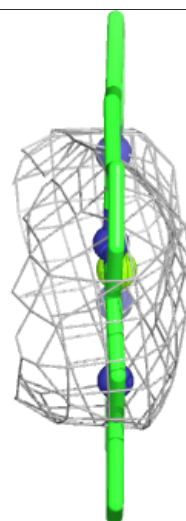
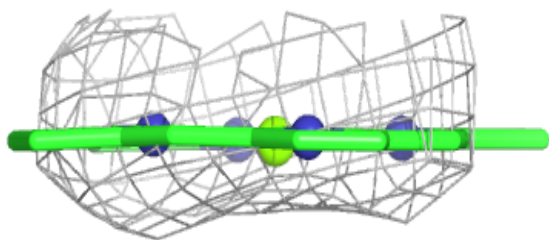
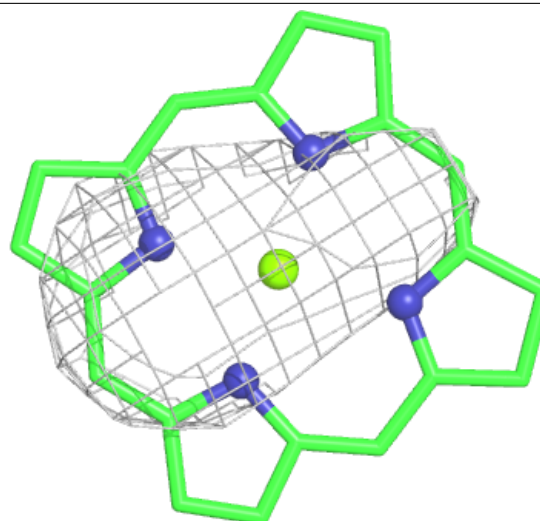
Electron density around CLA 2 616:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



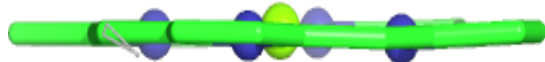
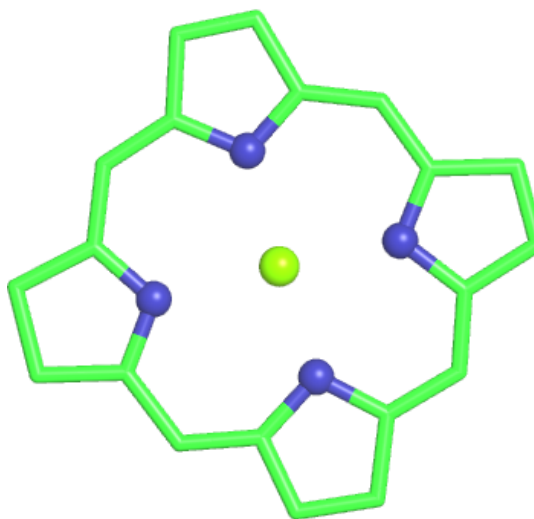
Electron density around CLA 2 608:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



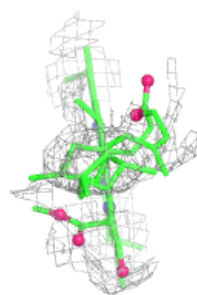
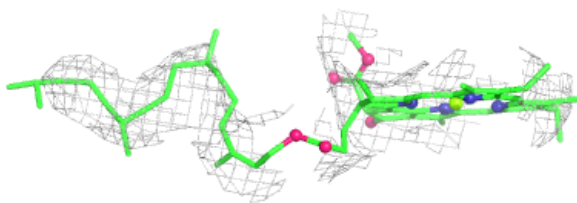
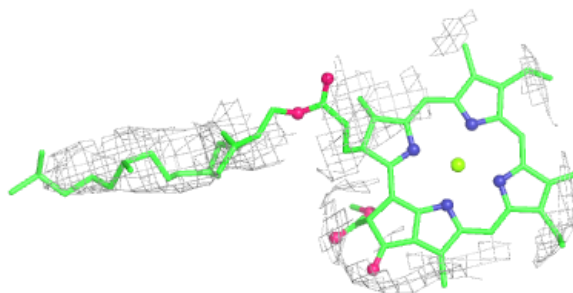
Electron density around CLA 2 615:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



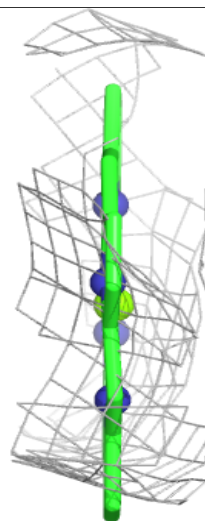
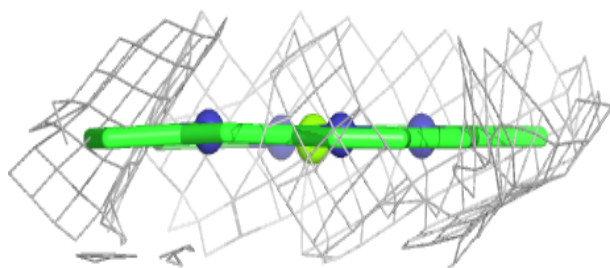
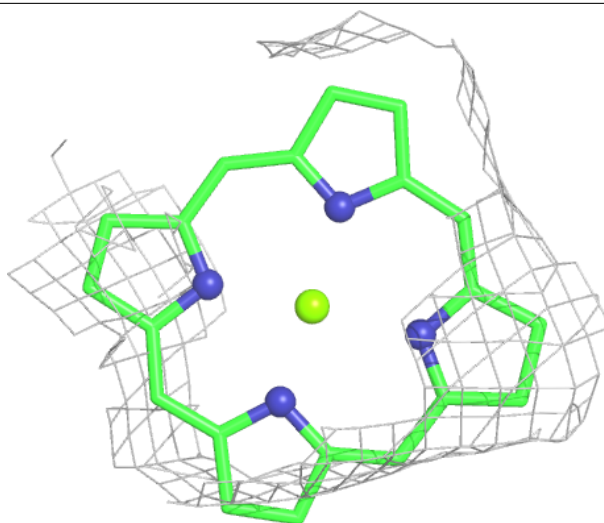
Electron density around CLA B 1232:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)



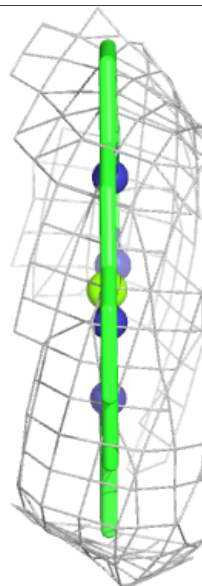
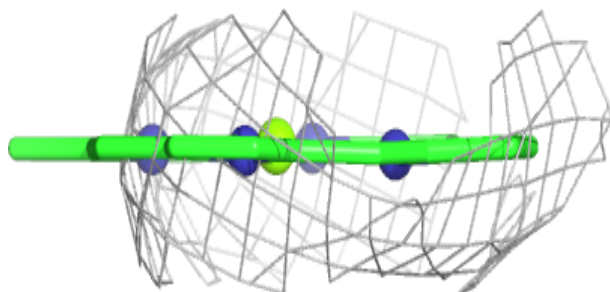
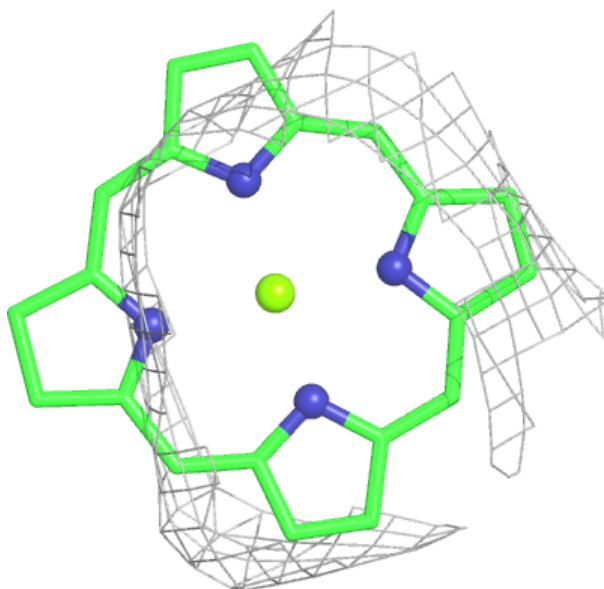
Electron density around CLA B 1208:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



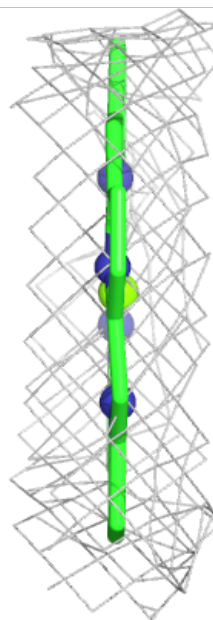
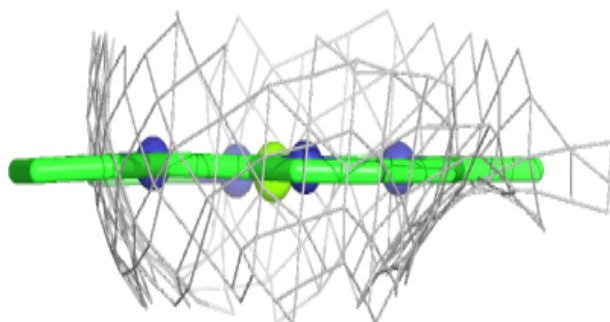
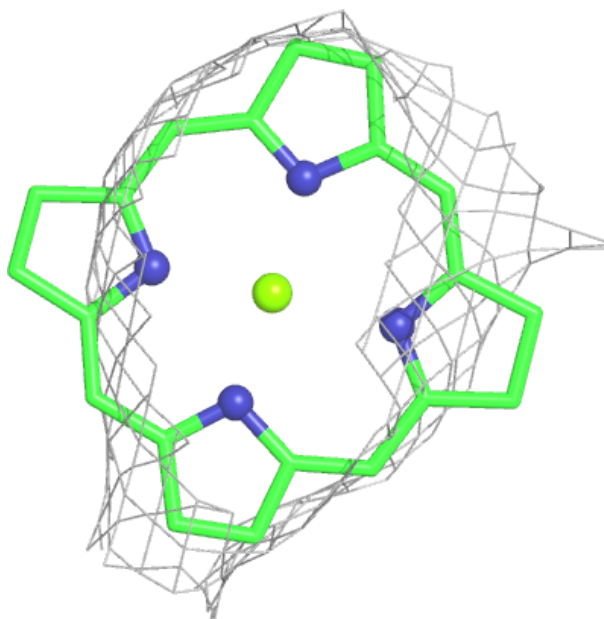
Electron density around CLA 4 608:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



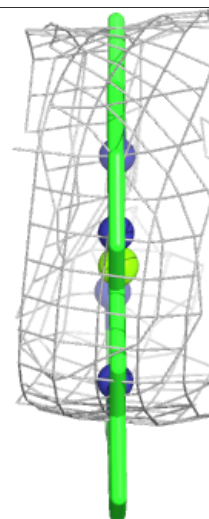
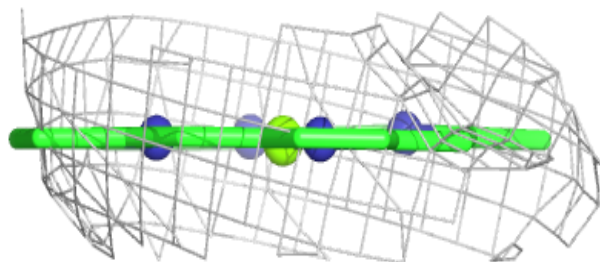
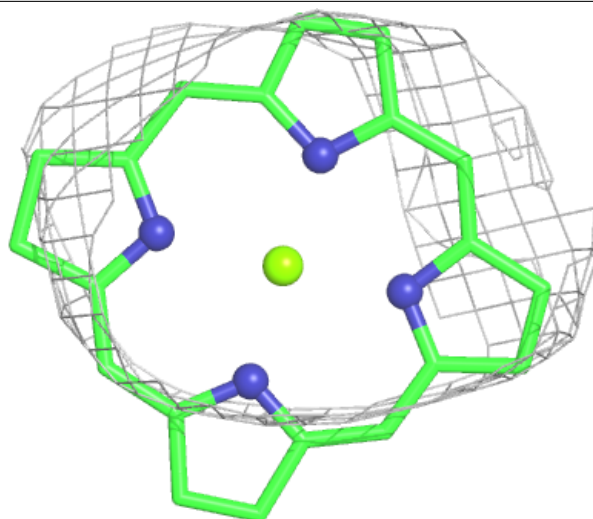
Electron density around CLA O 1601:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



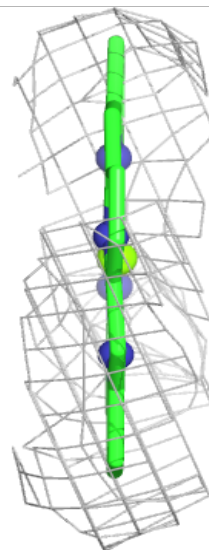
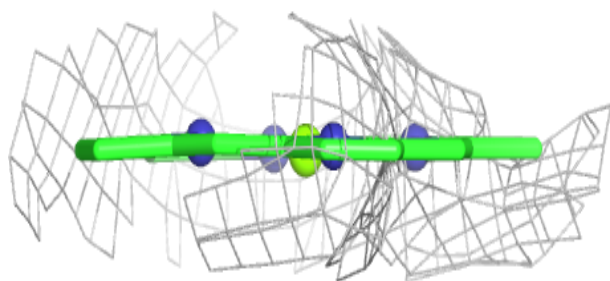
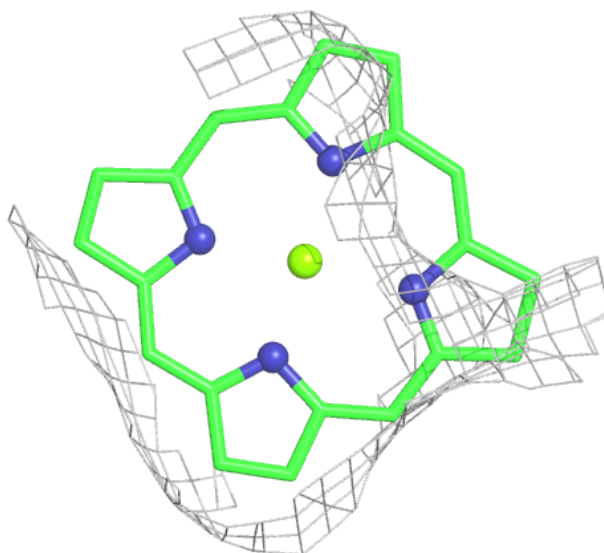
Electron density around CLA 4 616:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



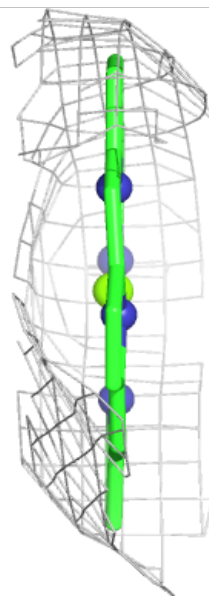
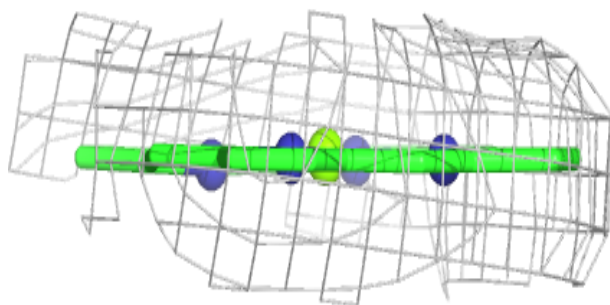
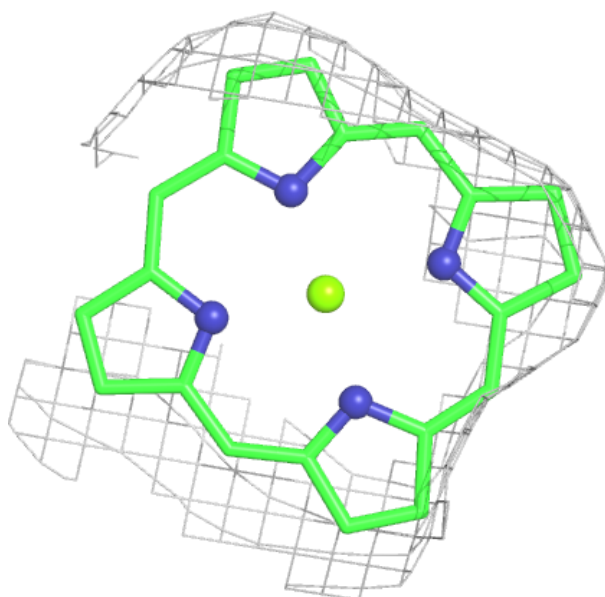
Electron density around CLA 4 610:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



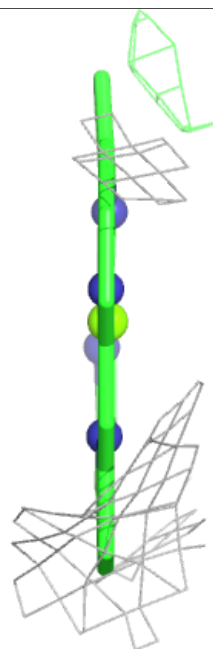
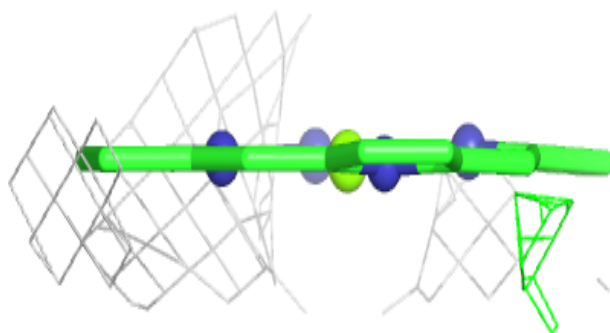
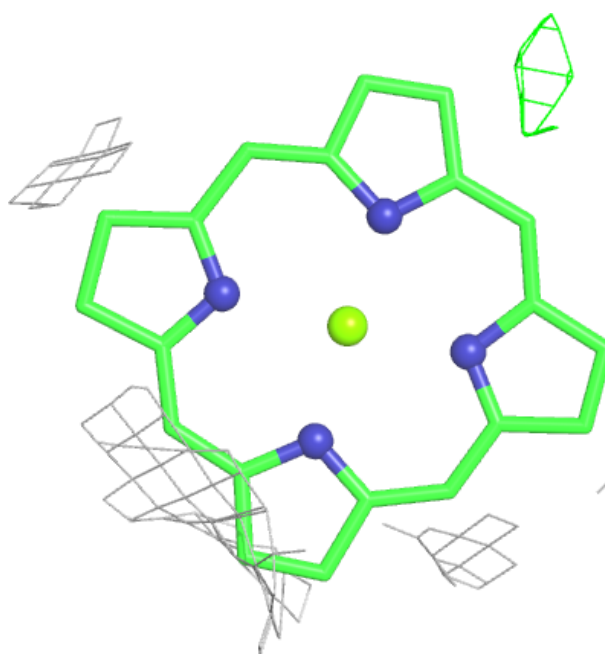
Electron density around CLA 2 602:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



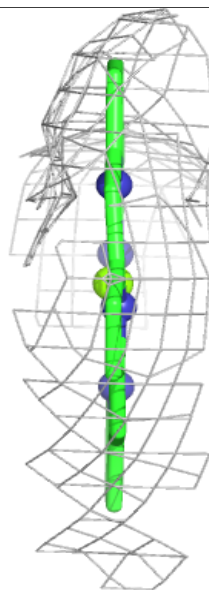
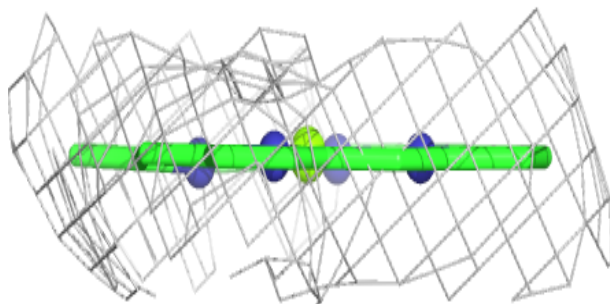
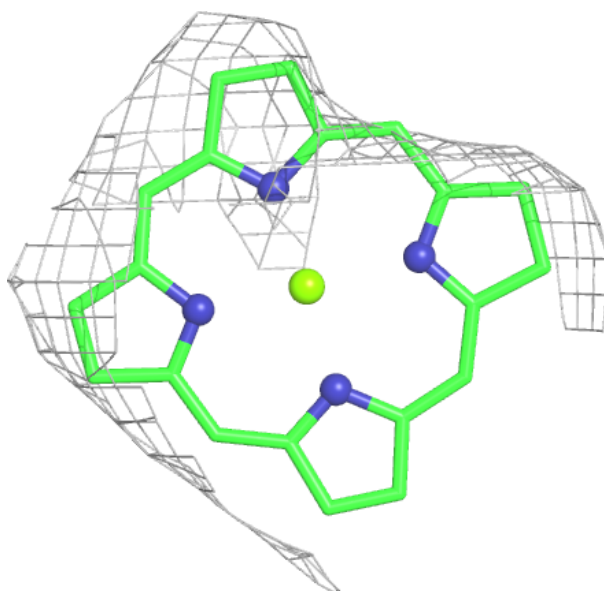
Electron density around CLA 3 602:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



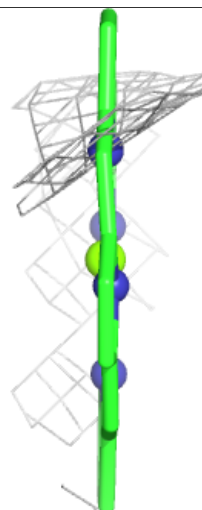
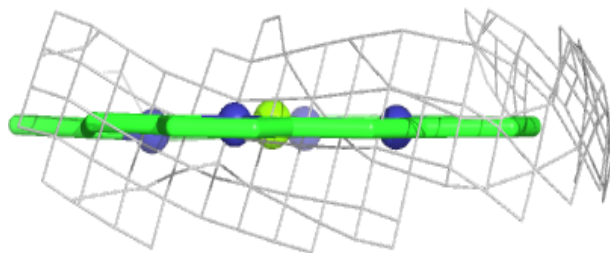
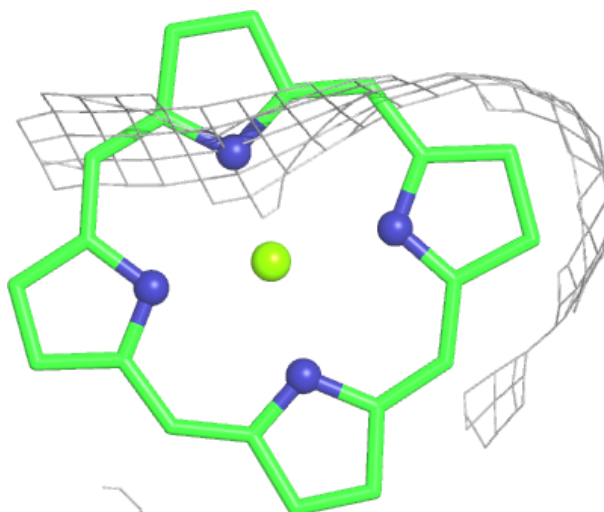
Electron density around CLA B 1219:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



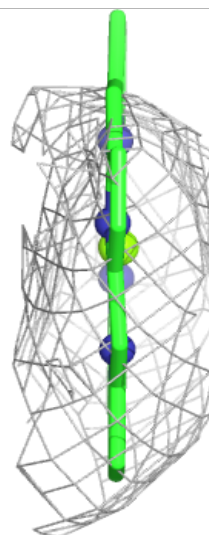
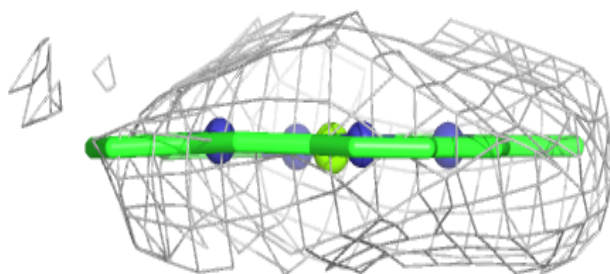
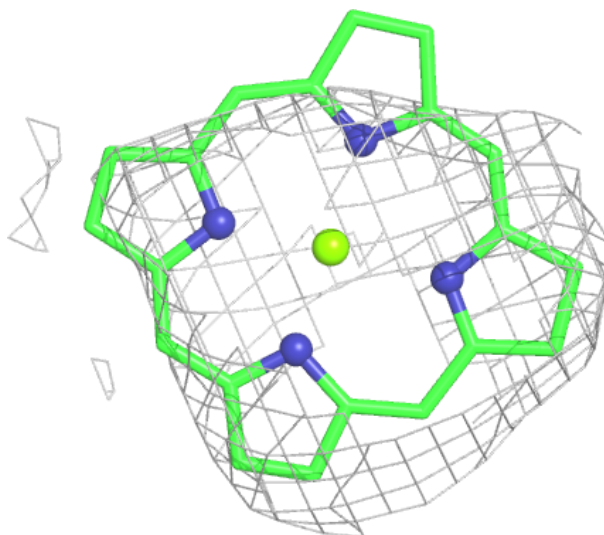
Electron density around CLA 4 615:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



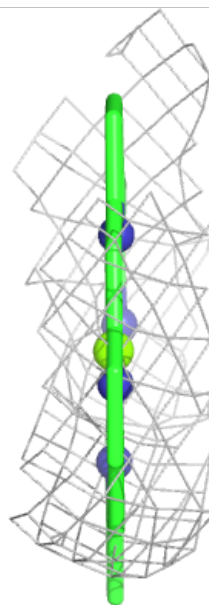
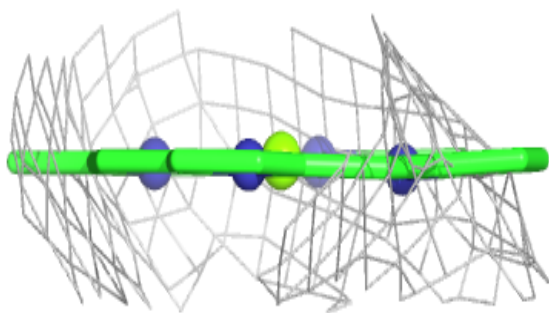
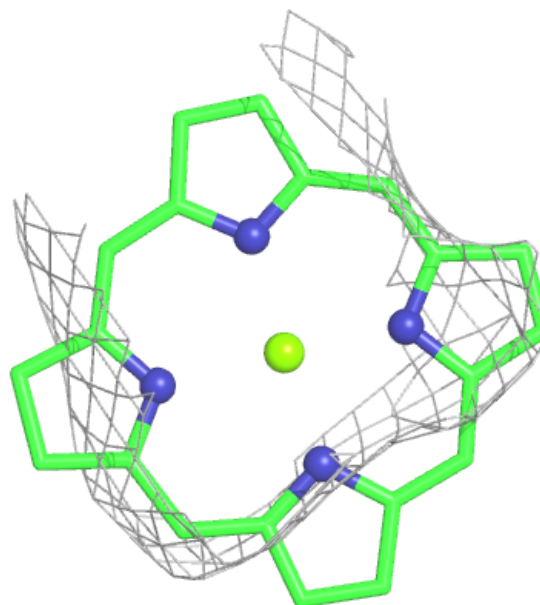
Electron density around CLA 3 614:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



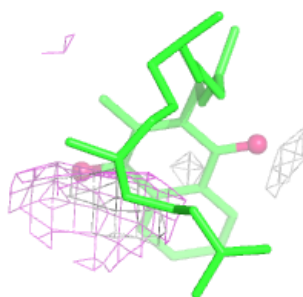
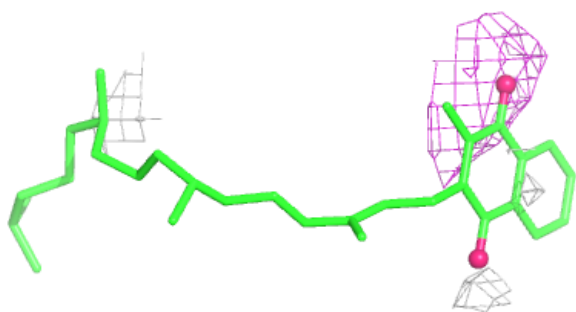
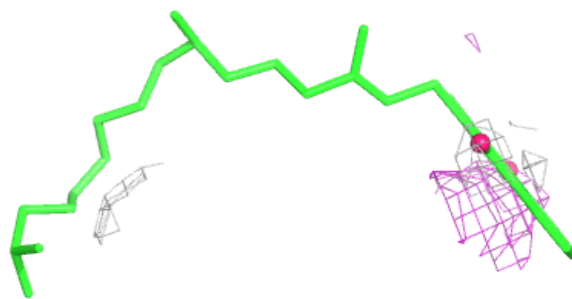
Electron density around CLA B 1212:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



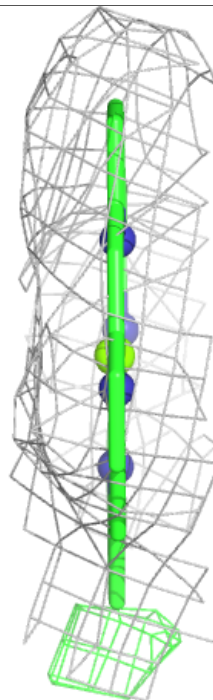
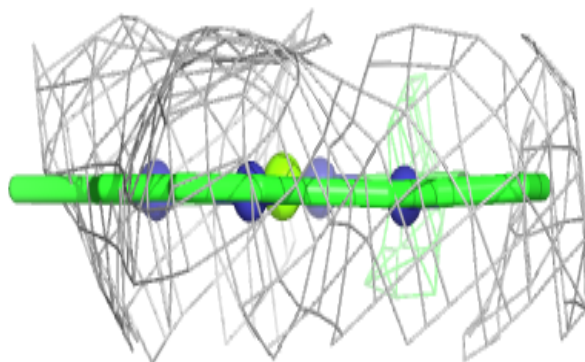
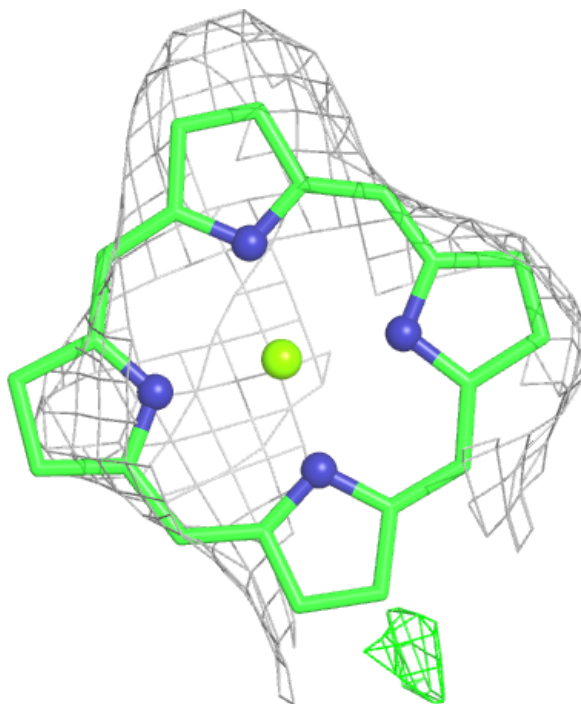
Electron density around PQN B 2002:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)



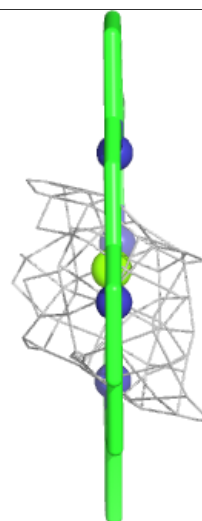
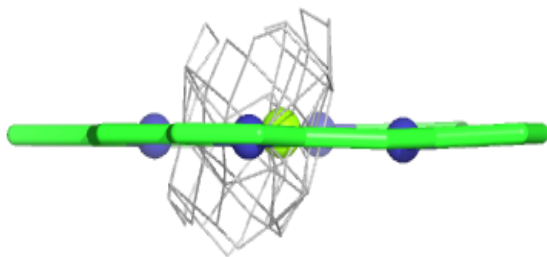
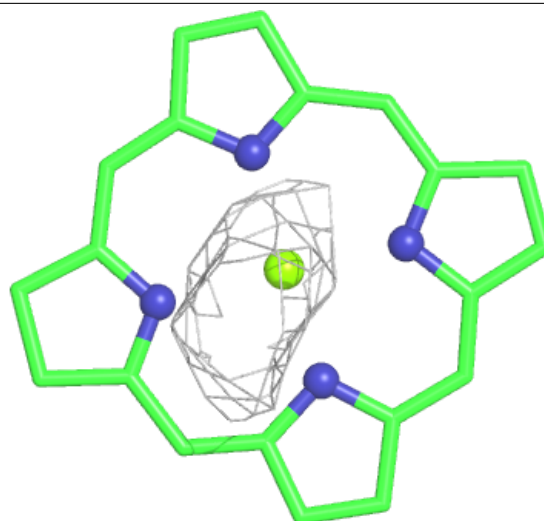
Electron density around CLA B 1223:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



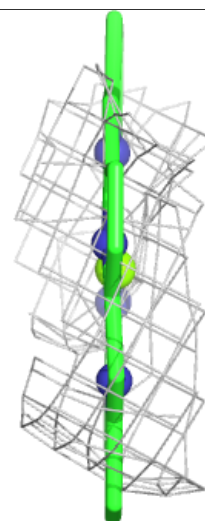
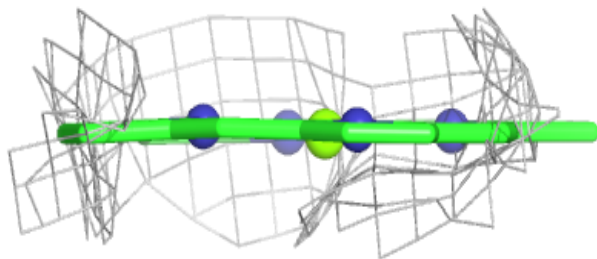
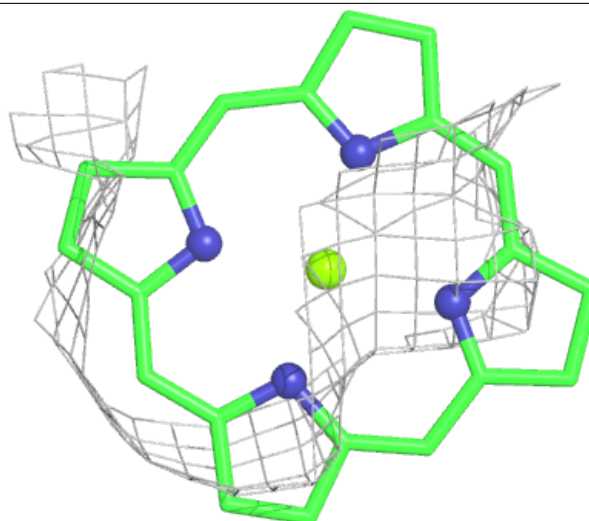
Electron density around CLA B 1216:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



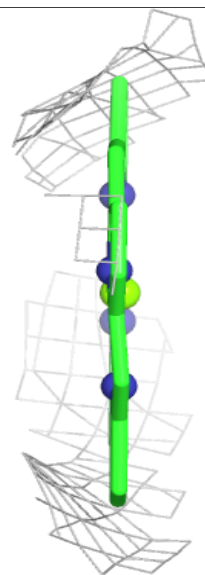
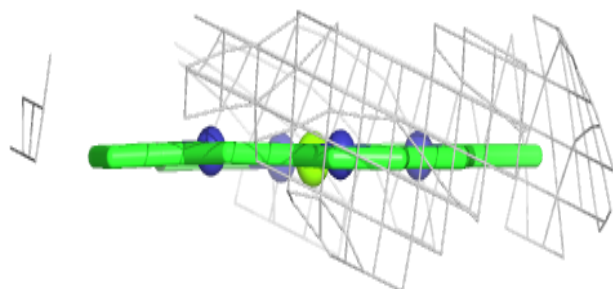
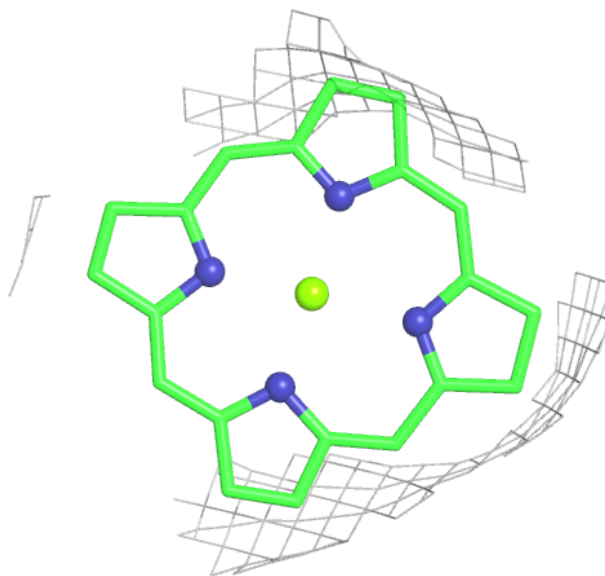
Electron density around CLA B 1210:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



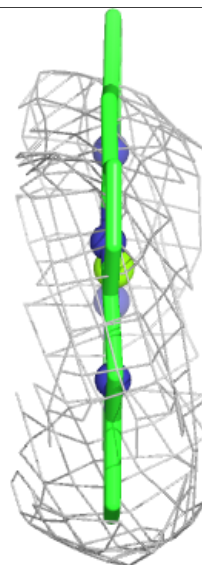
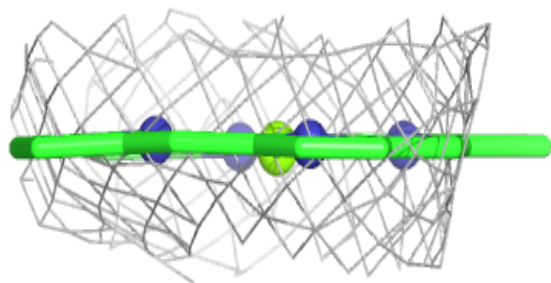
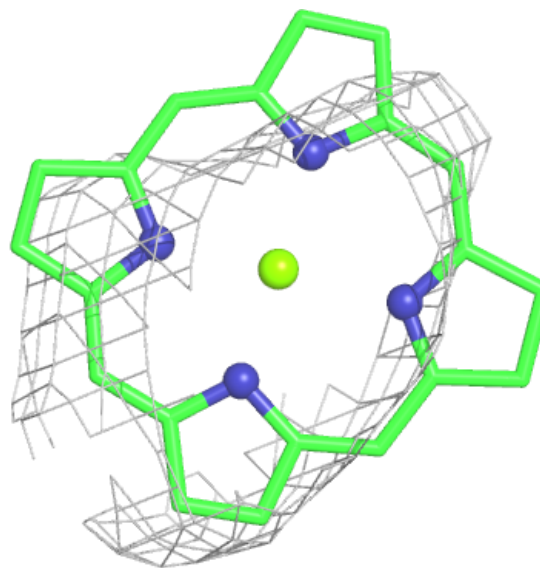
Electron density around CLA L 1501:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



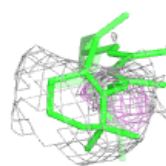
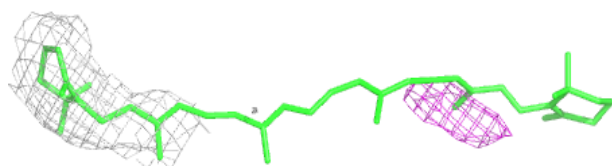
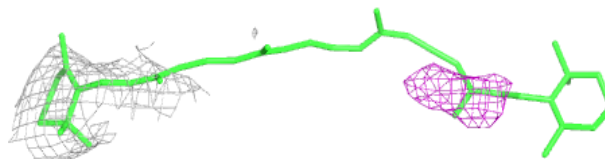
Electron density around CLA 2 614:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

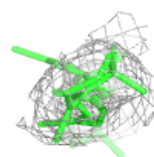
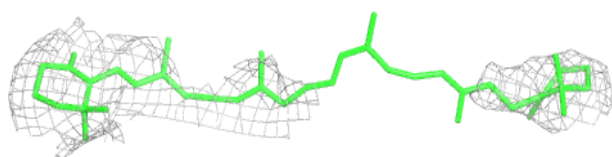
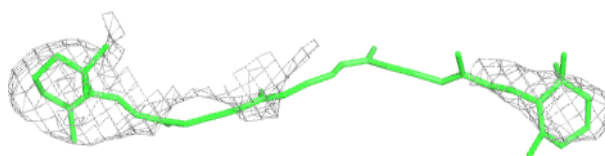


Electron density around BCR A 4008:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

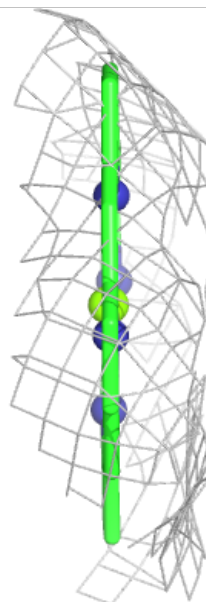
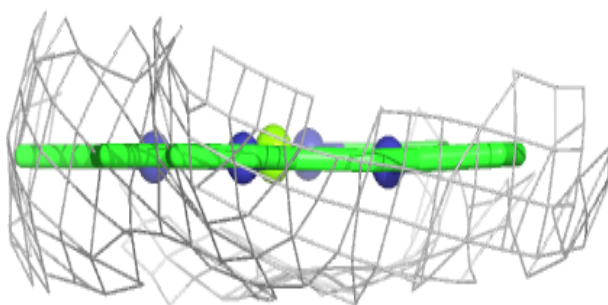
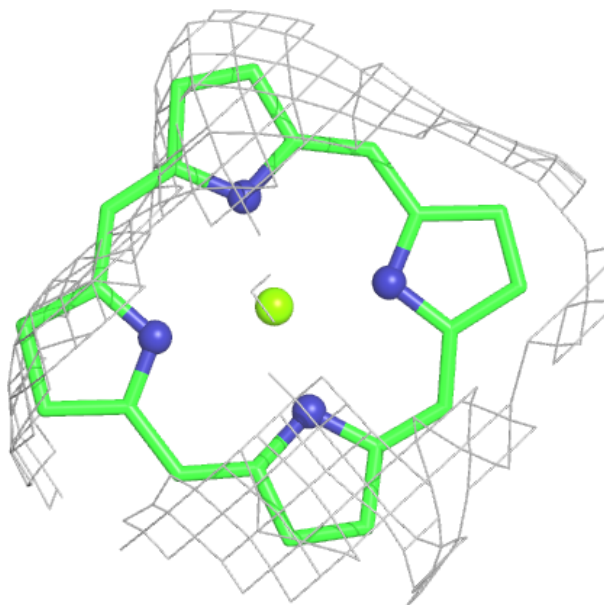
**Electron density around BCR A 4007:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



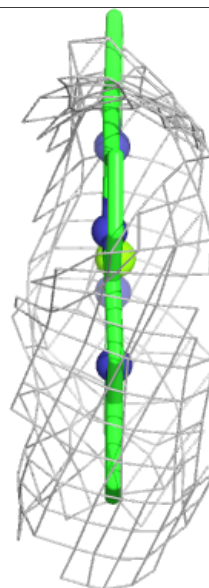
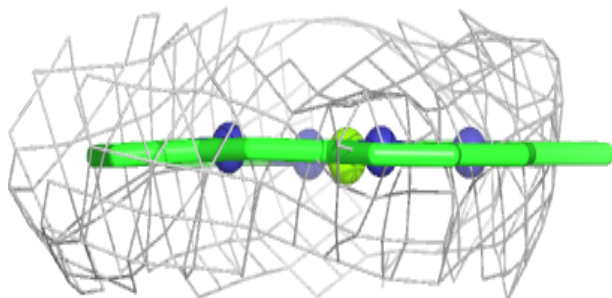
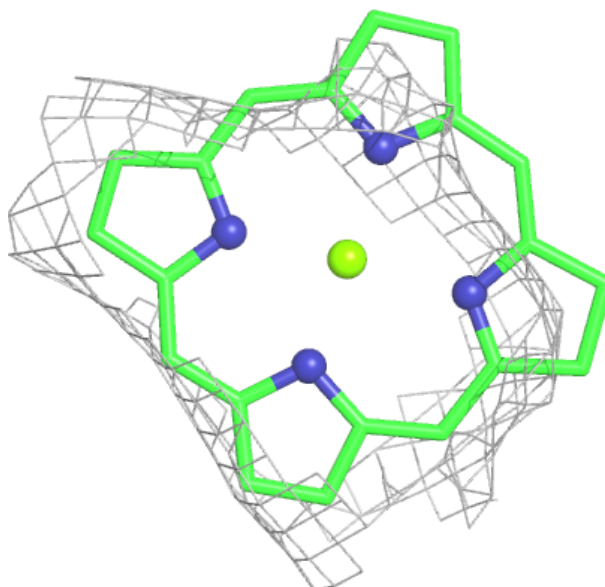
Electron density around CLA L 1502:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



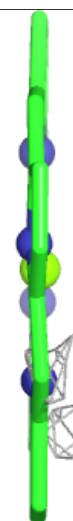
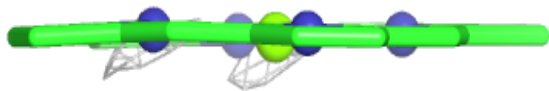
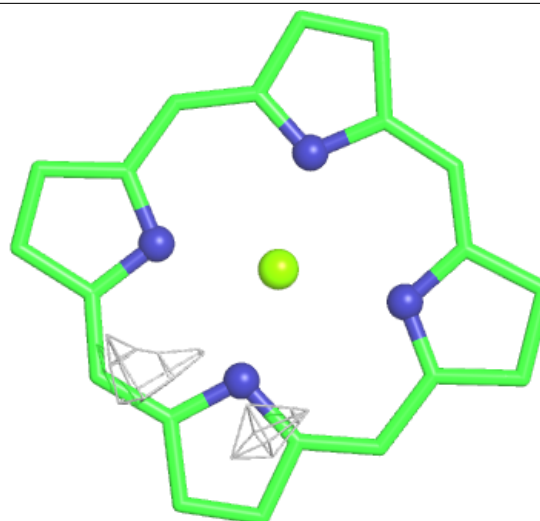
Electron density around CLA 2 603:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



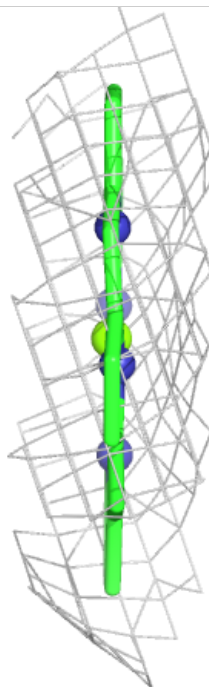
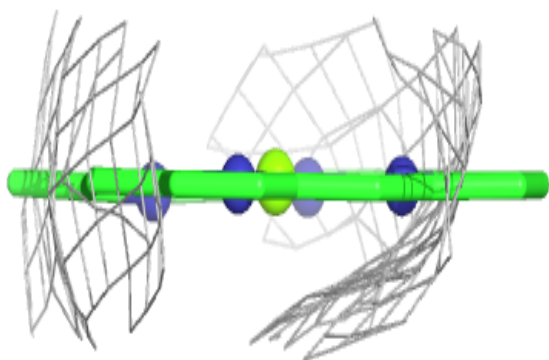
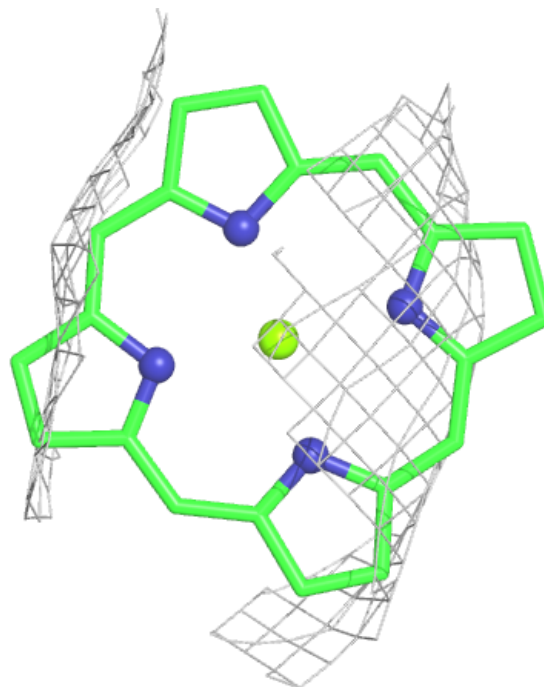
Electron density around CLA B 1221:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



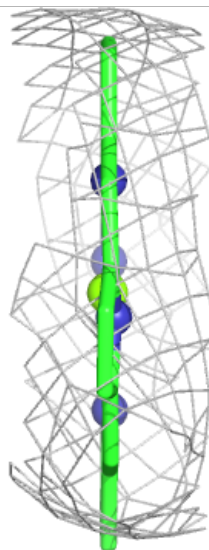
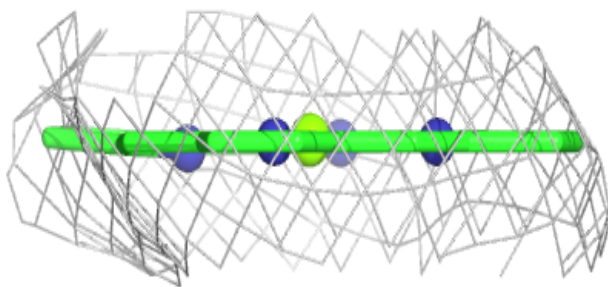
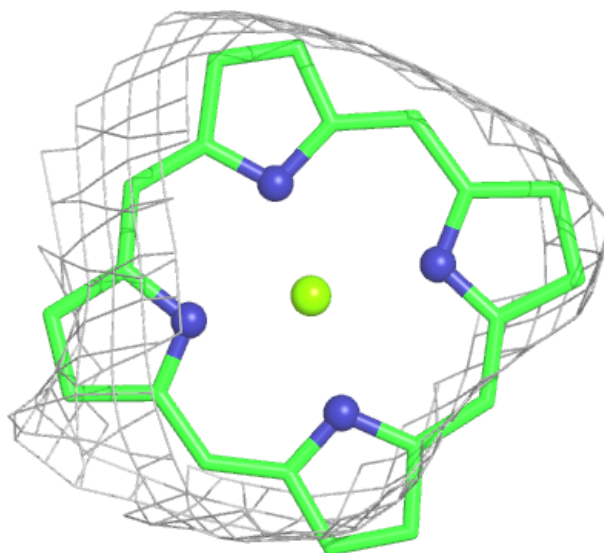
Electron density around CLA B 1231:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)



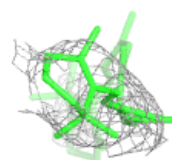
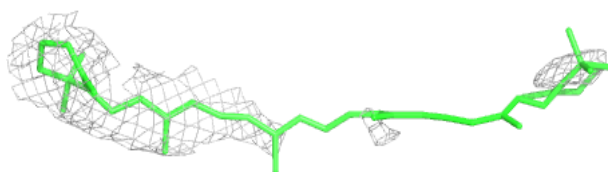
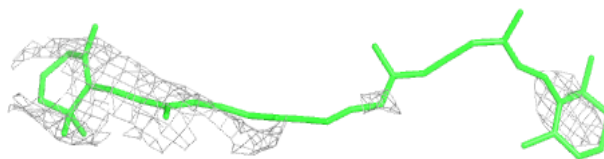
Electron density around CLA 3 601:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



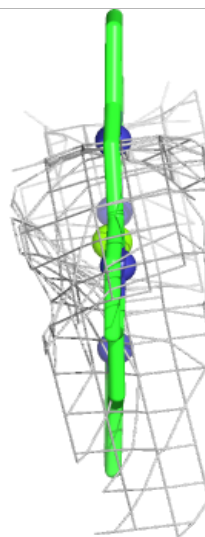
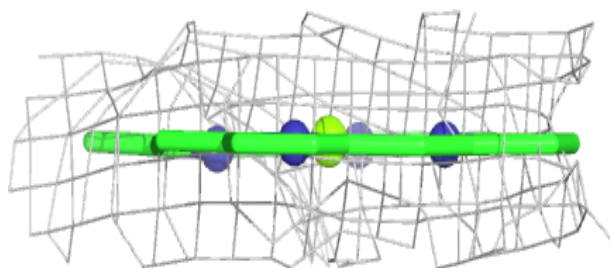
Electron density around BCR I 4018:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



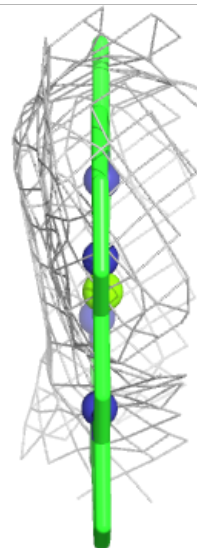
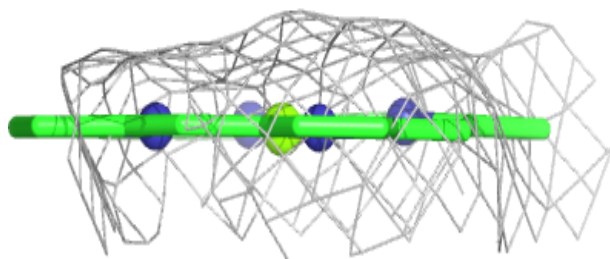
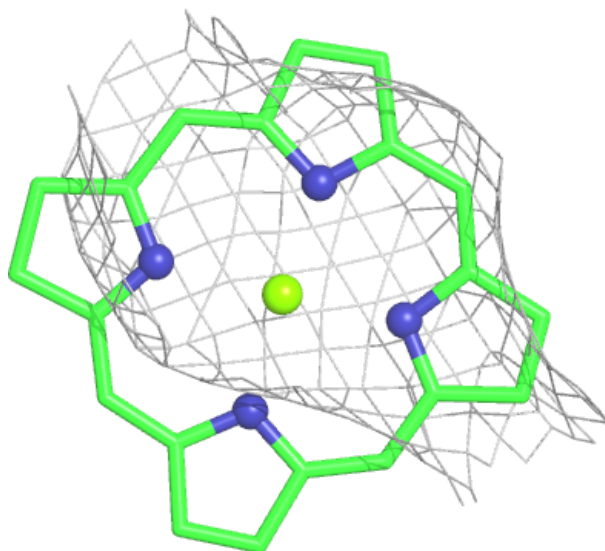
Electron density around CLA 4 609:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



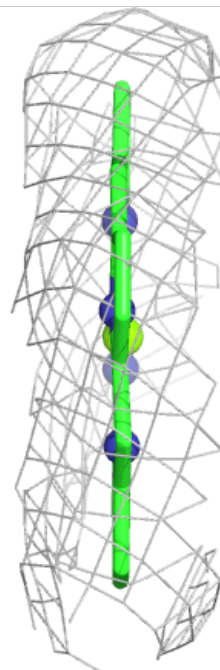
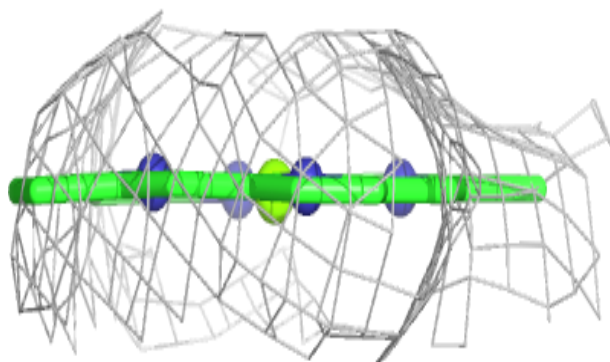
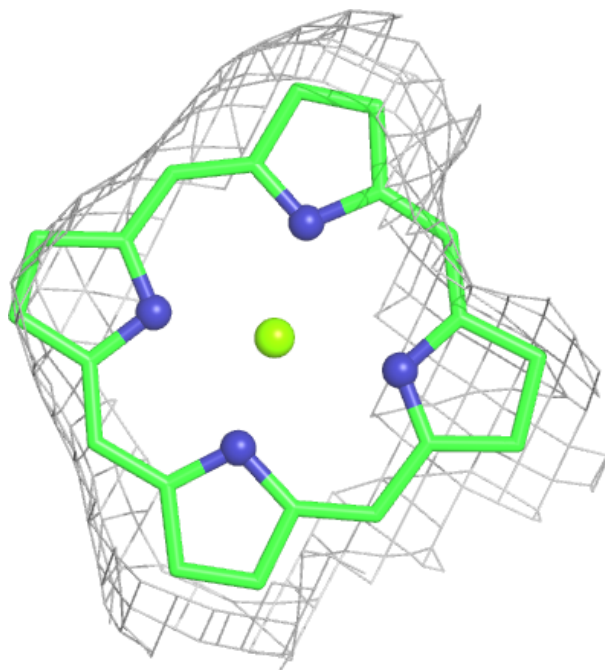
Electron density around CLA B 1204:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



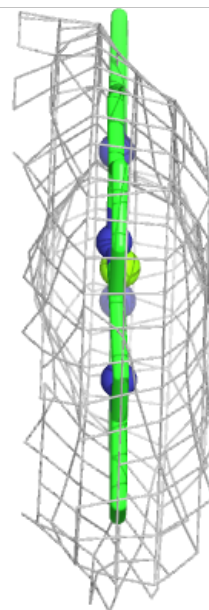
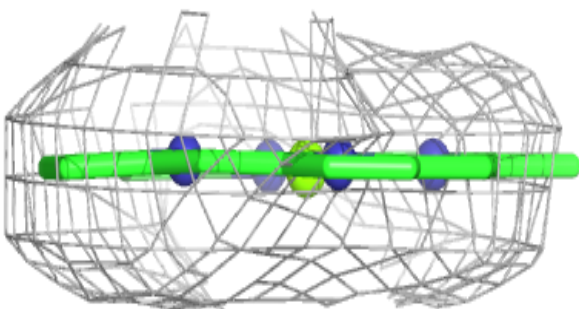
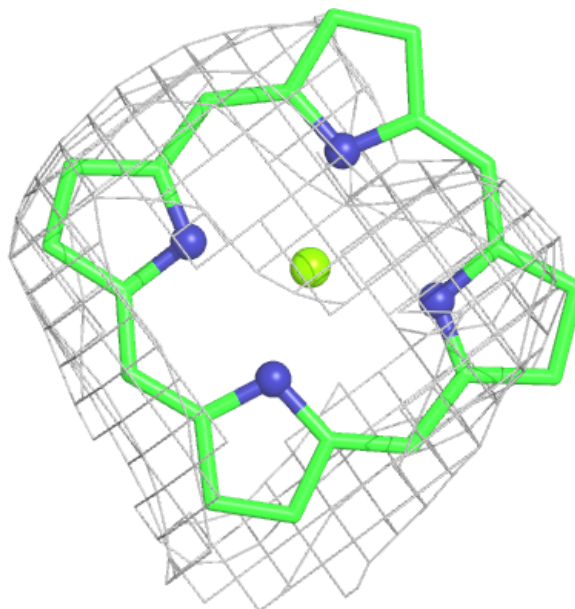
Electron density around CLA 2 607:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



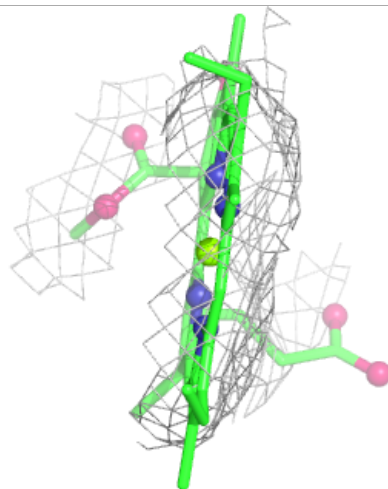
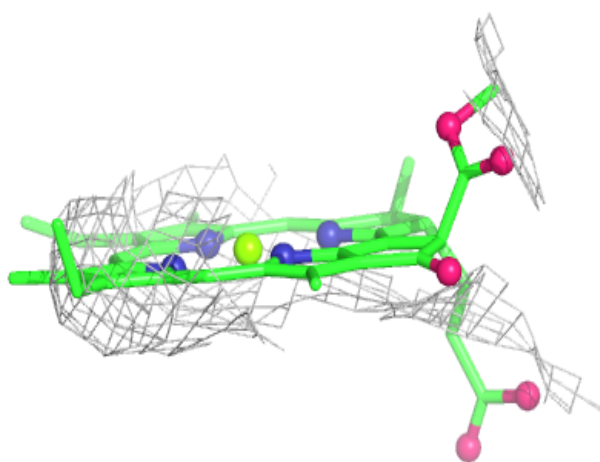
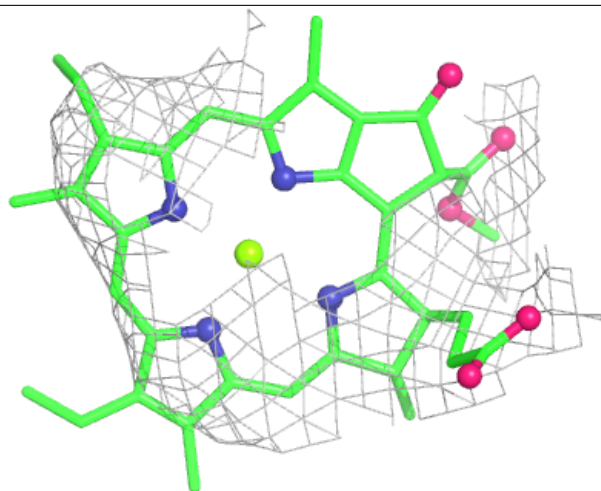
Electron density around CLA 4 603:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



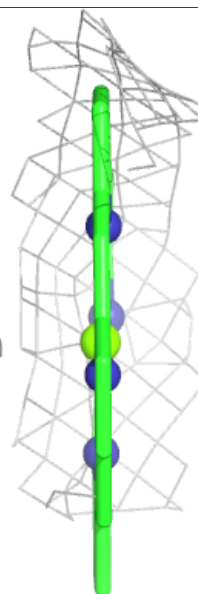
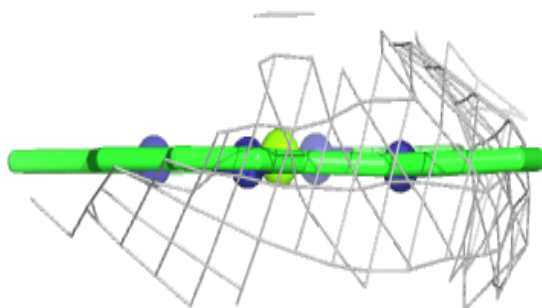
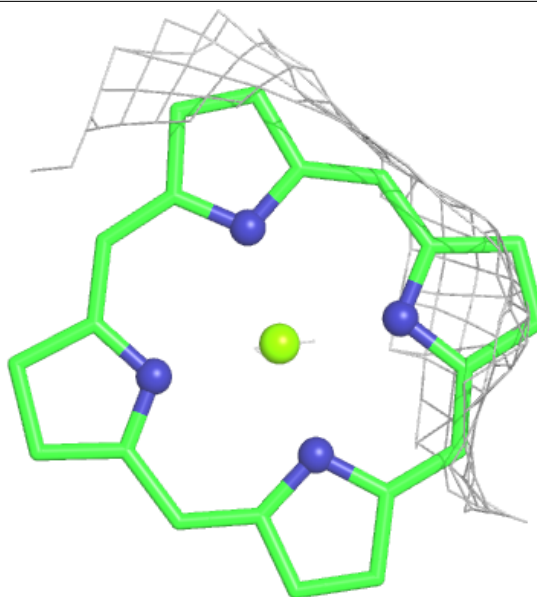
Electron density around CLA B 1236:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



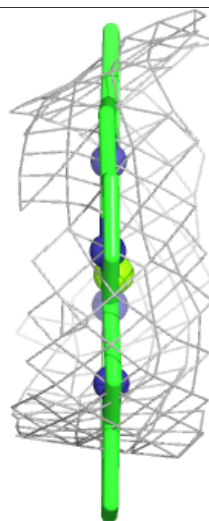
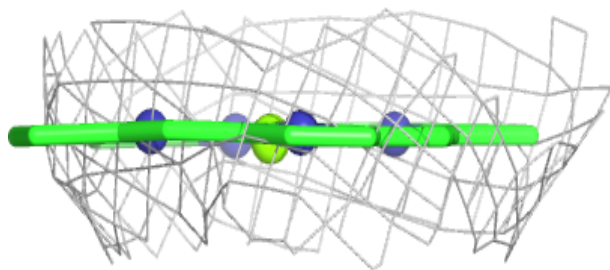
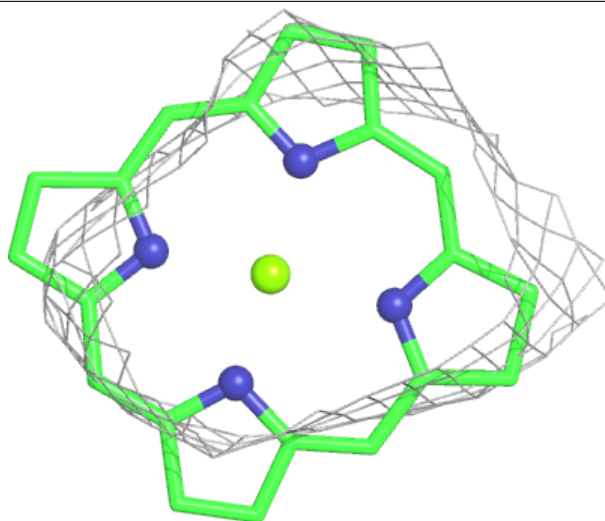
Electron density around CLA K 1402:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



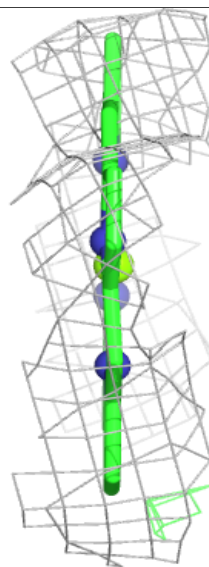
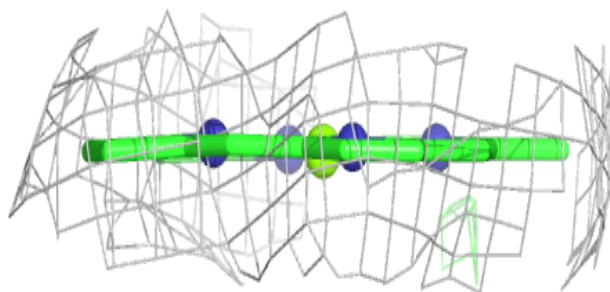
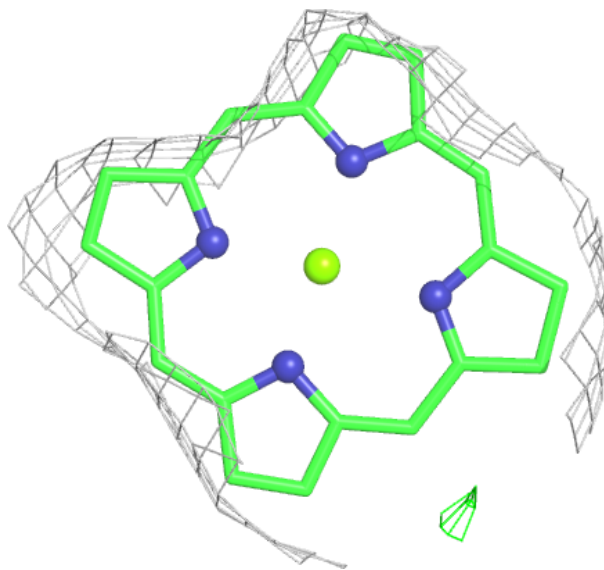
Electron density around CLA 3 604:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



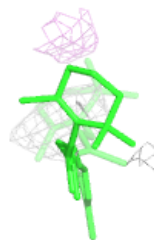
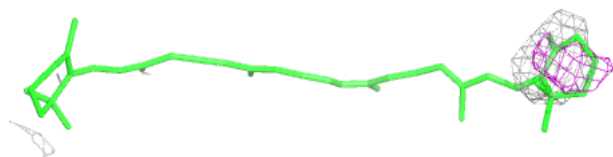
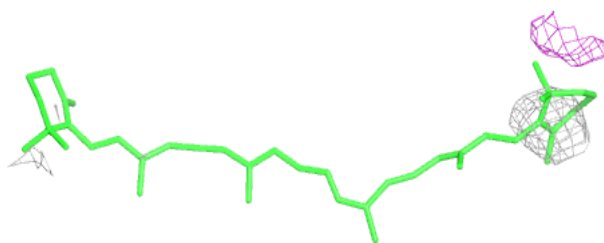
Electron density around CLA A 1109:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



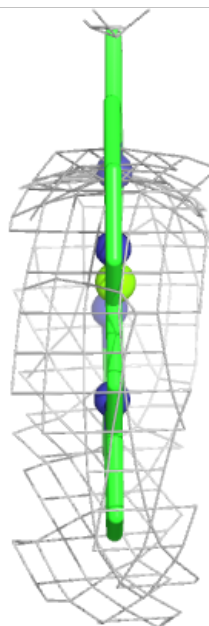
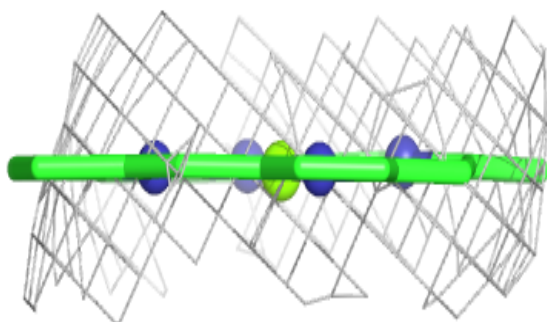
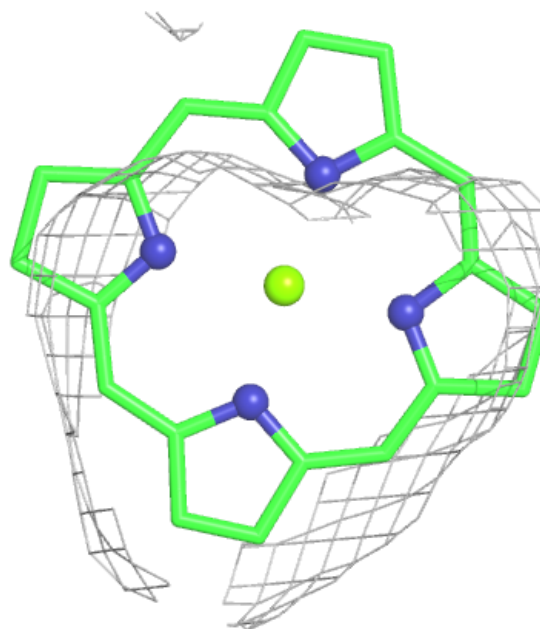
Electron density around BCR A 4017:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)



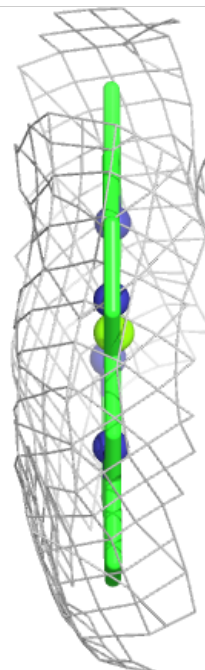
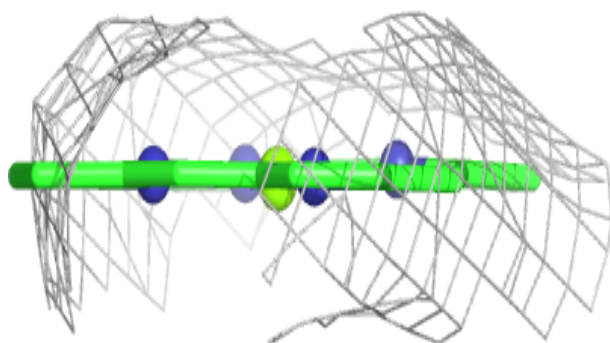
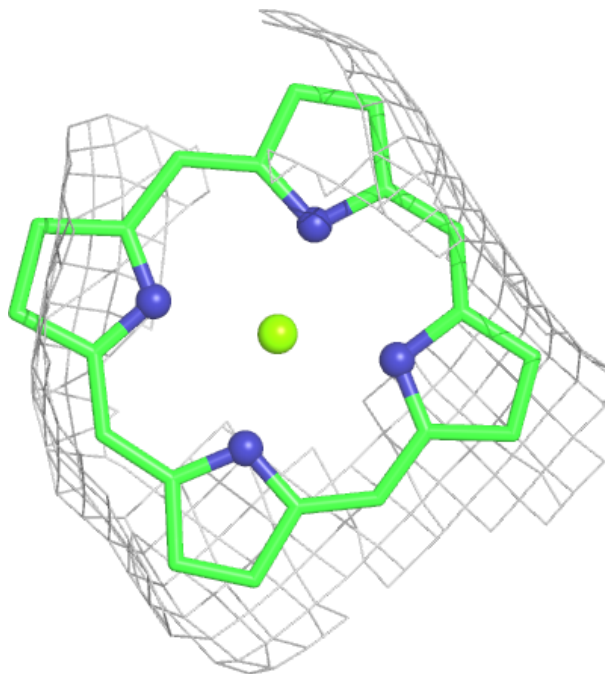
Electron density around CLA 2 610:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



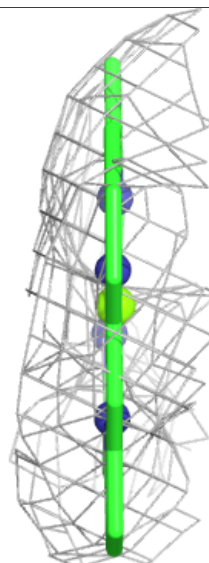
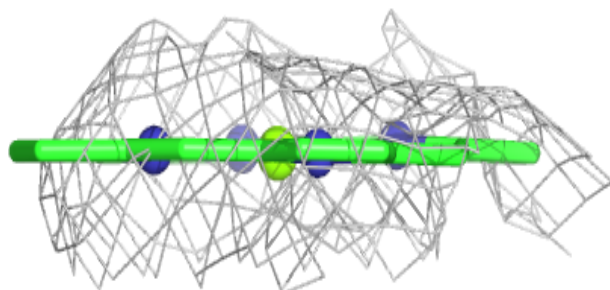
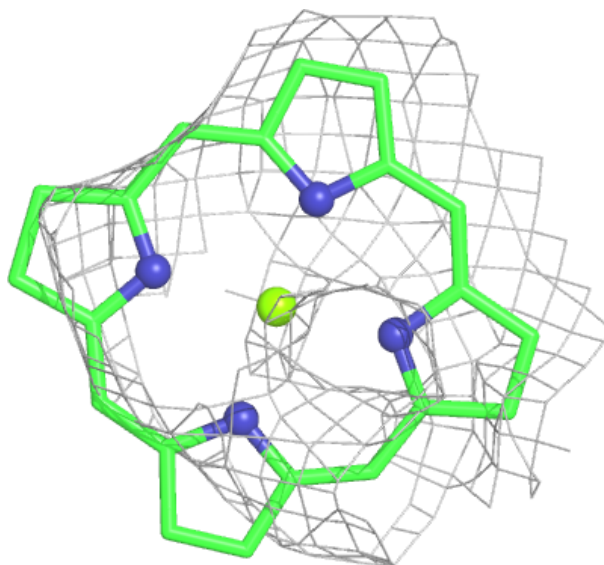
Electron density around CLA K 1401:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)



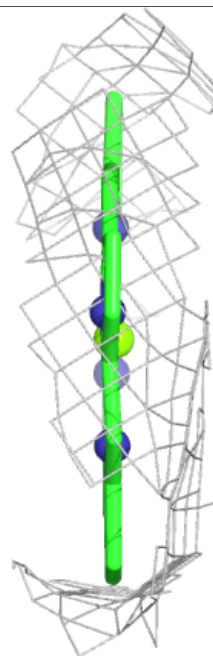
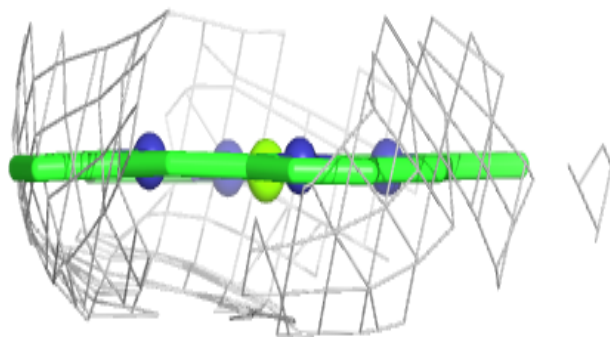
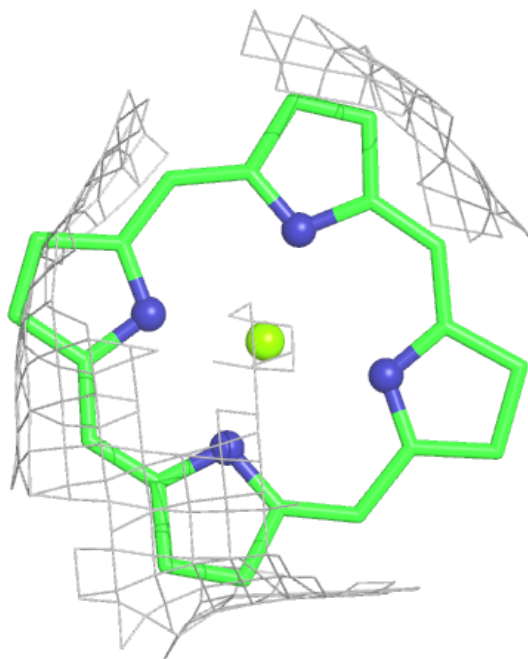
Electron density around CLA 3 606:

2mF_o-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



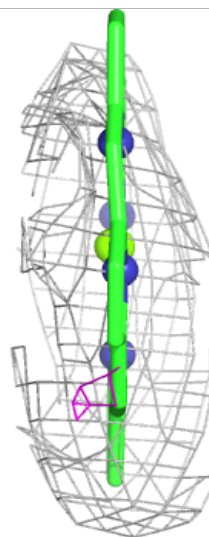
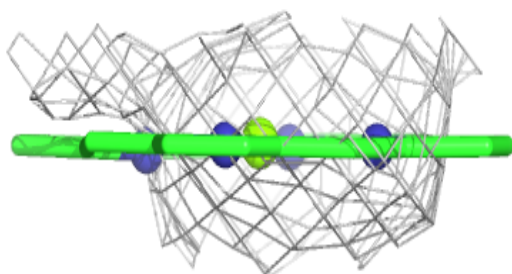
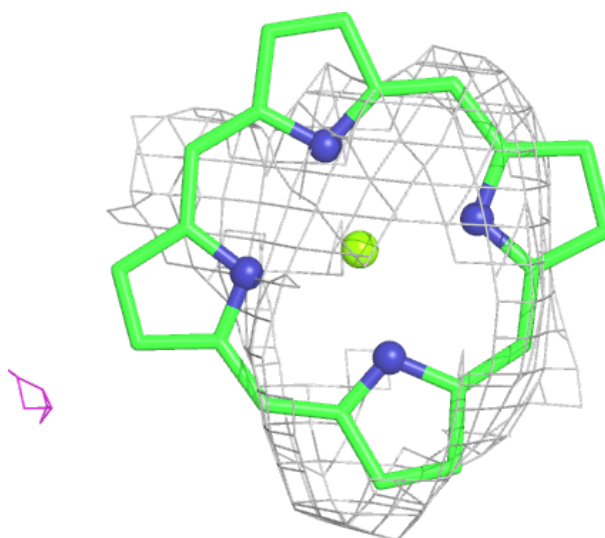
Electron density around CLA 3 612:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



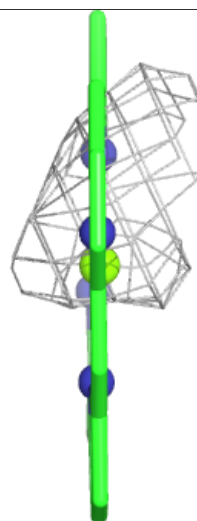
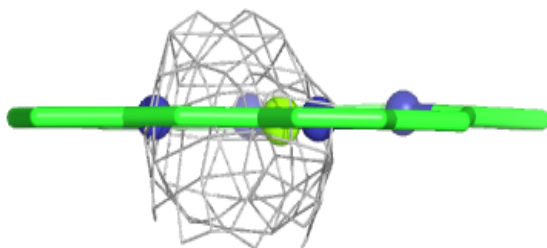
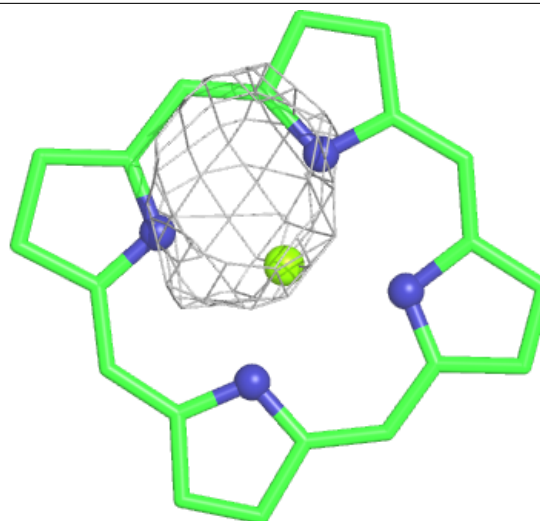
Electron density around CLA A 1120:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



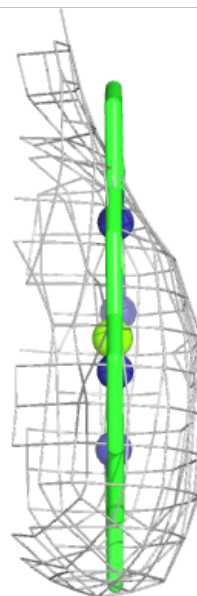
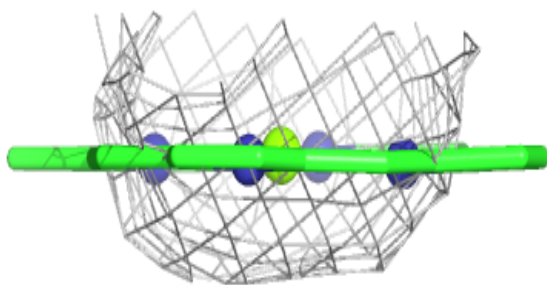
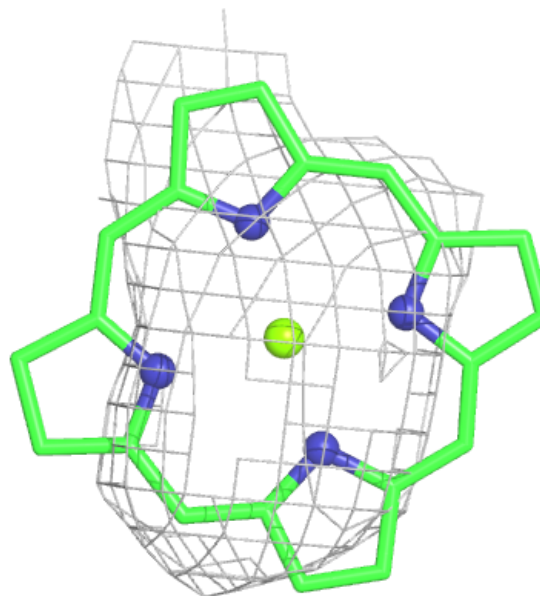
Electron density around CLA B 1214:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



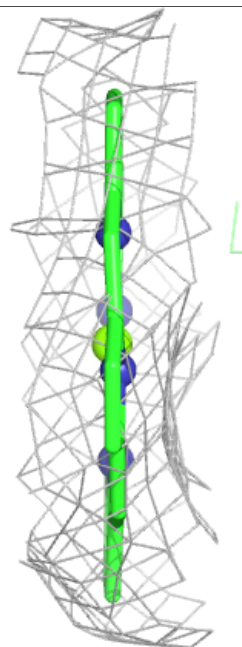
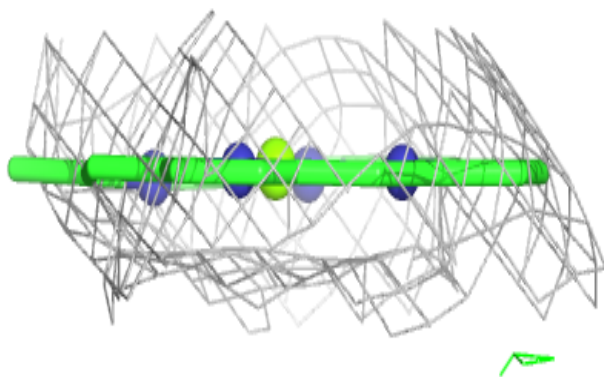
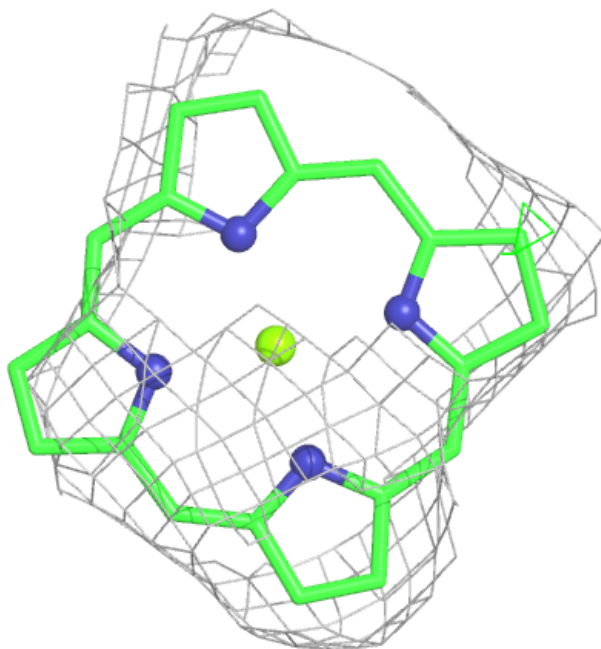
Electron density around CLA L 1503:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



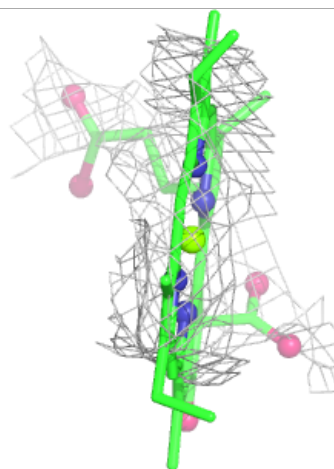
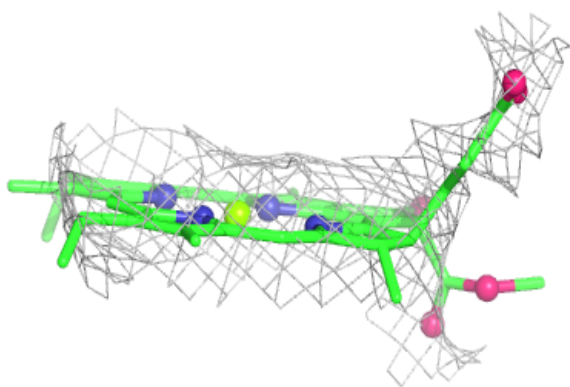
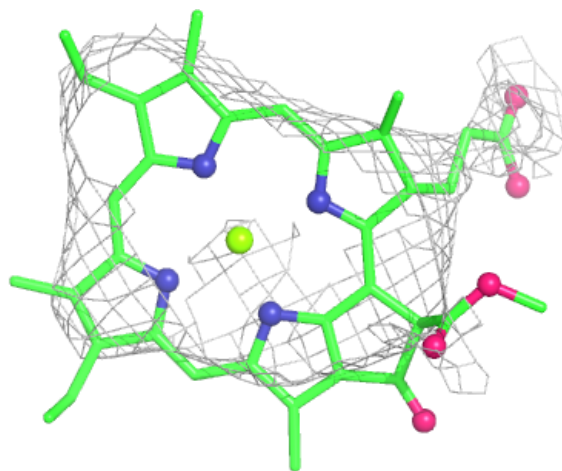
Electron density around CLA A 1112:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



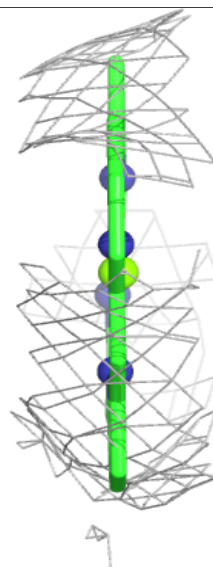
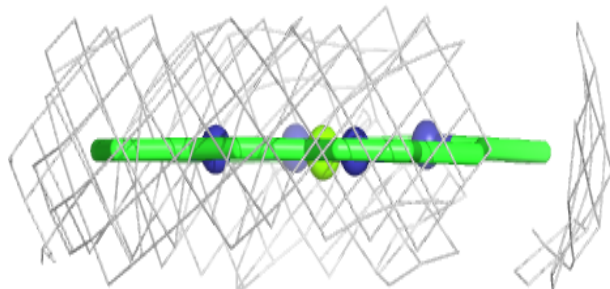
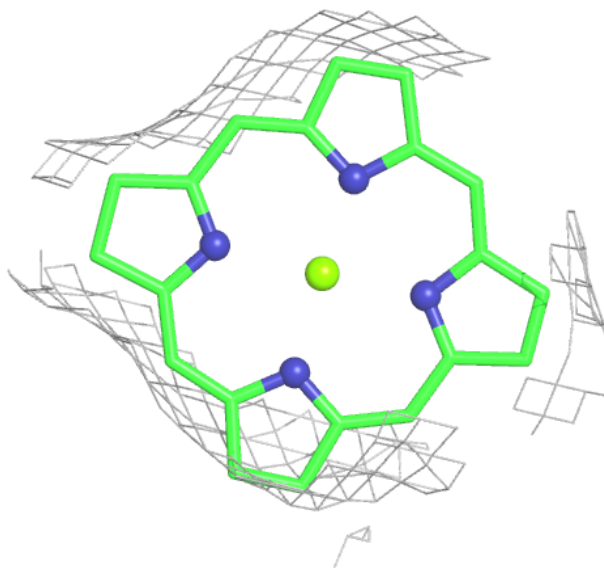
Electron density around CLA B 1021:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



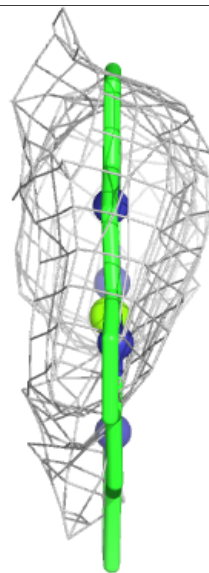
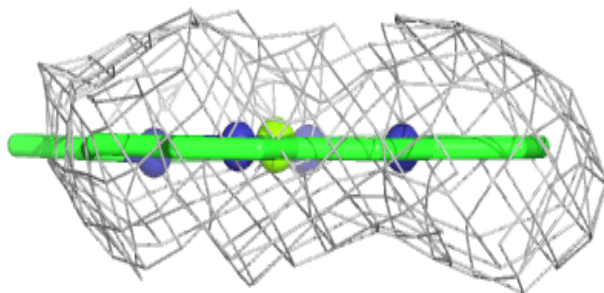
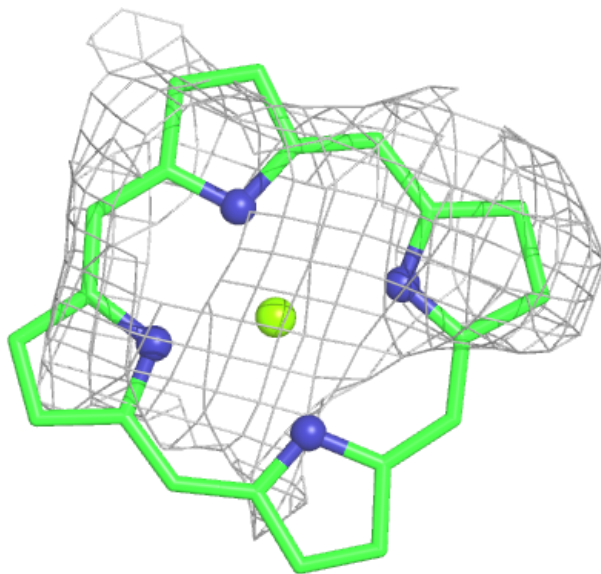
Electron density around CLA 2 604:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



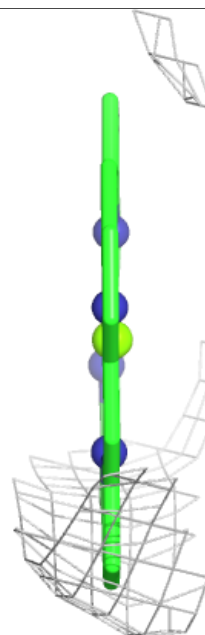
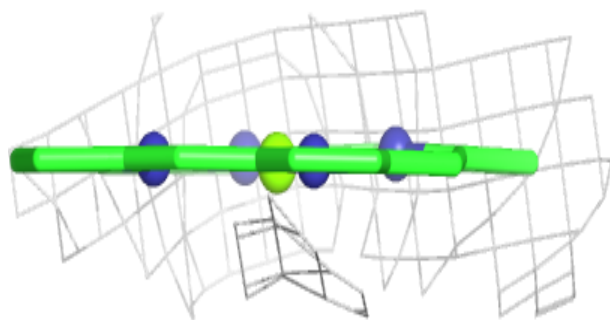
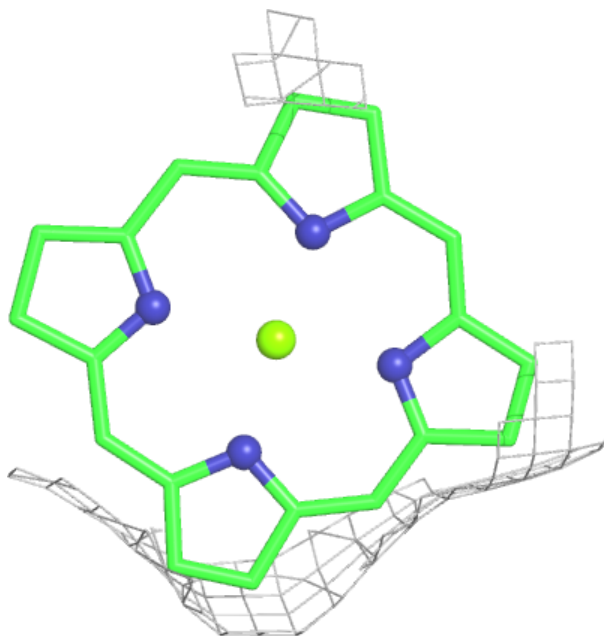
Electron density around CLA A 1137:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



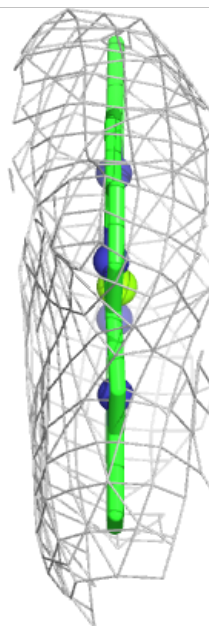
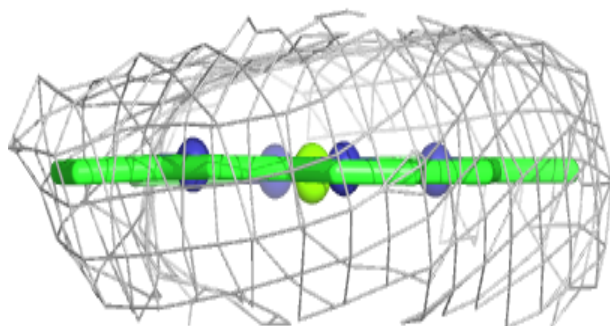
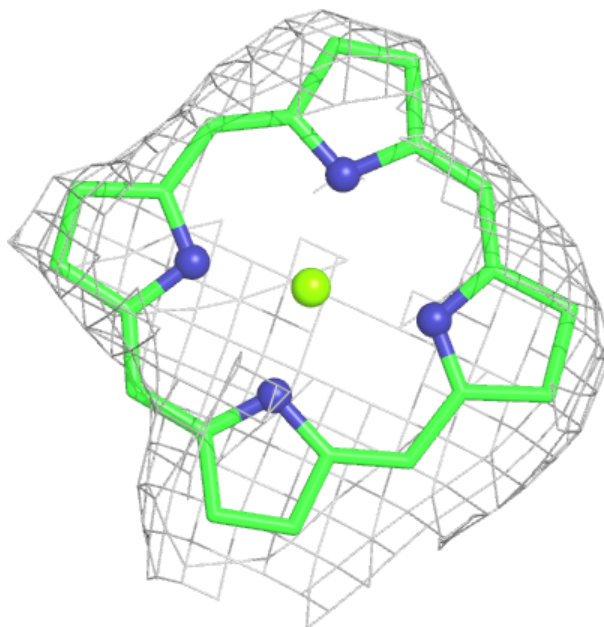
Electron density around CLA 4 606:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



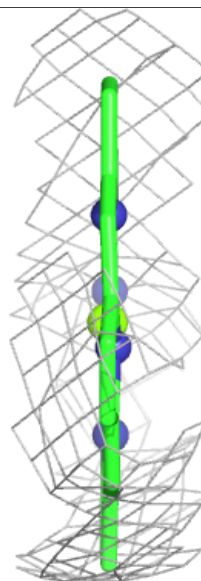
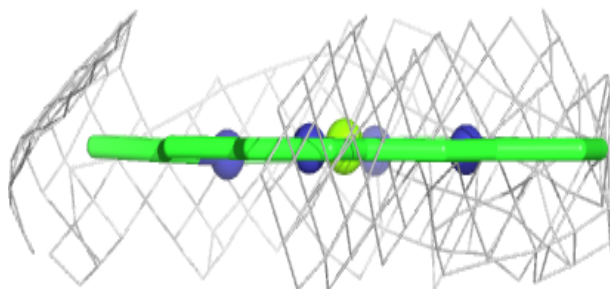
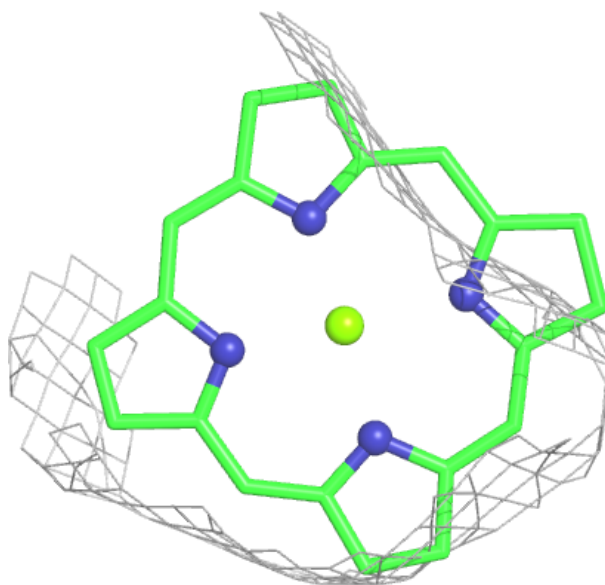
Electron density around CLA B 1238:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



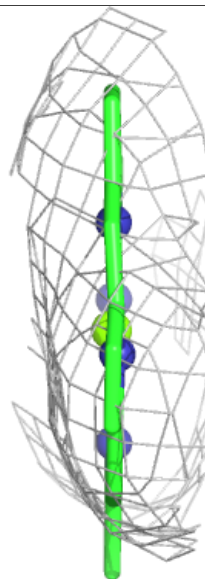
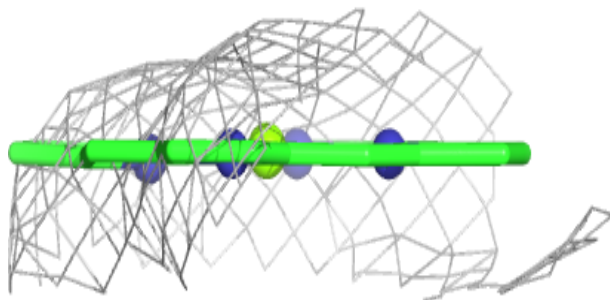
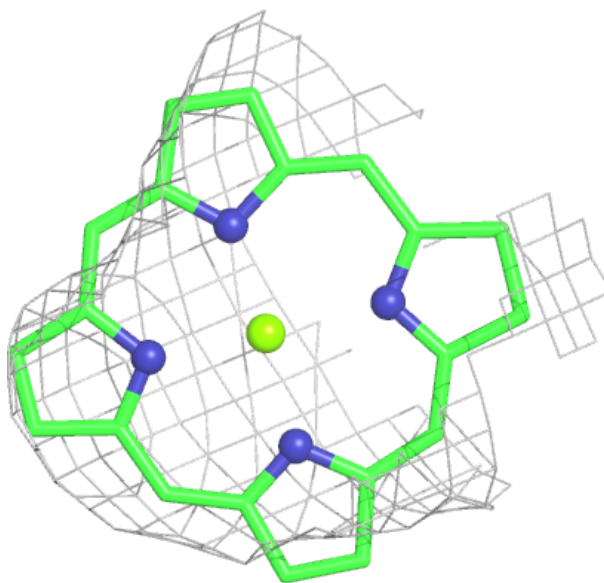
Electron density around CLA F 1302:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



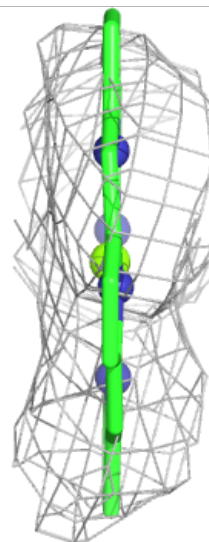
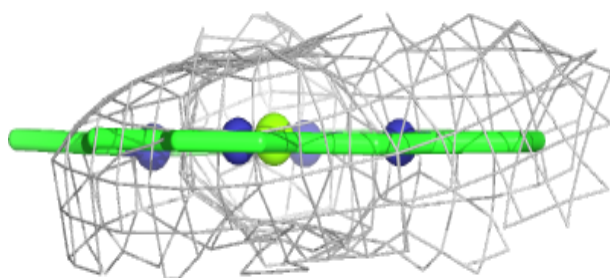
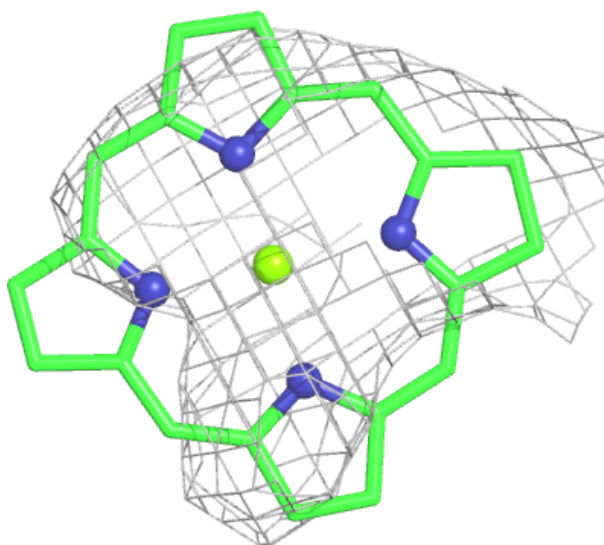
Electron density around CLA B 1203:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



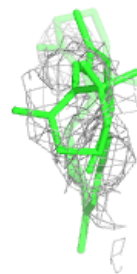
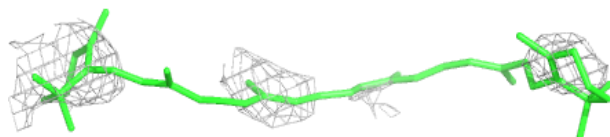
Electron density around CLA A 1119:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



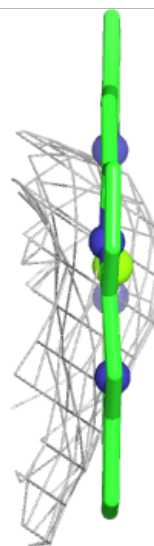
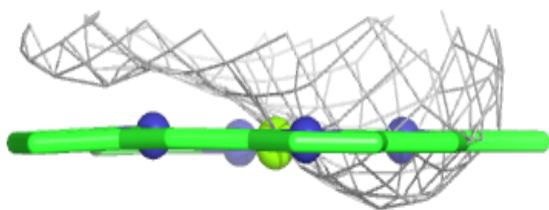
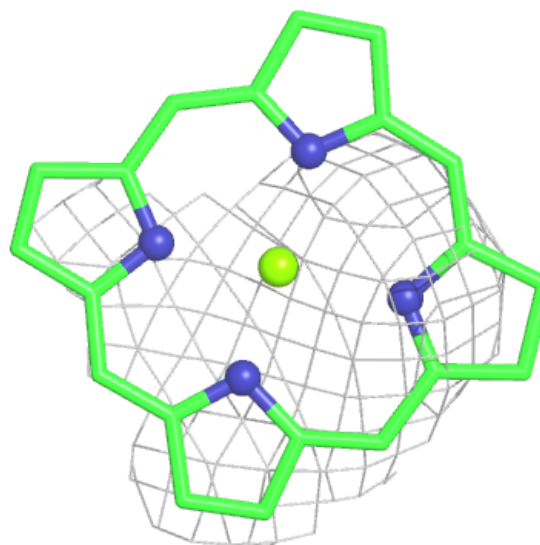
Electron density around BCR A 4011:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



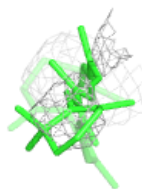
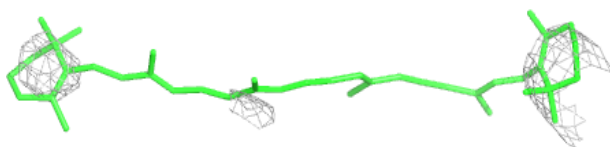
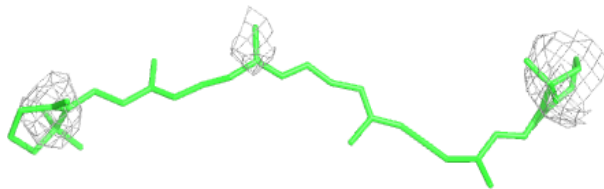
Electron density around CLA B 1207:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



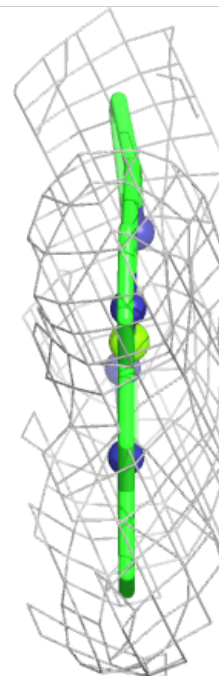
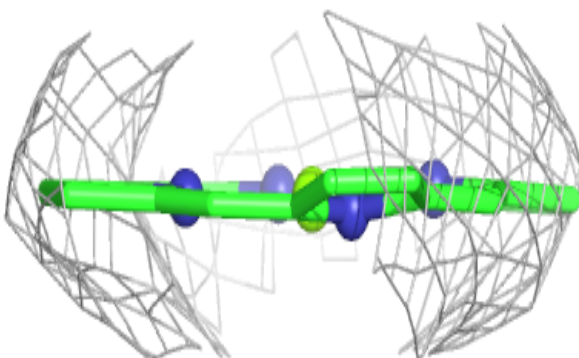
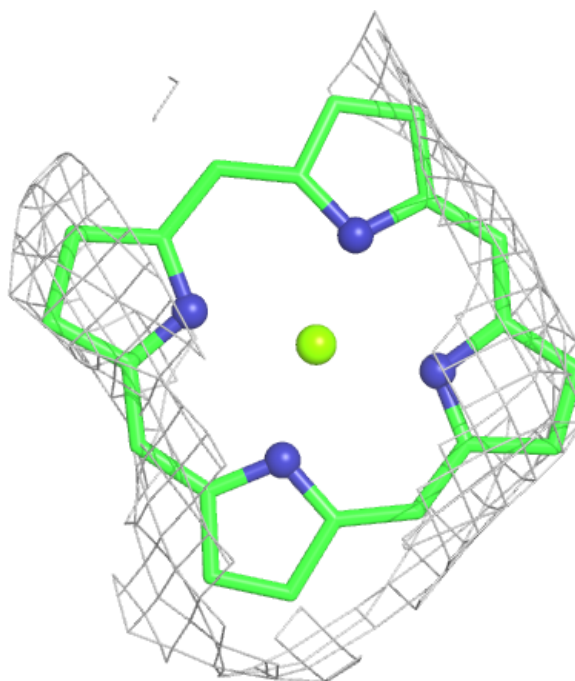
Electron density around BCR B 4008:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)



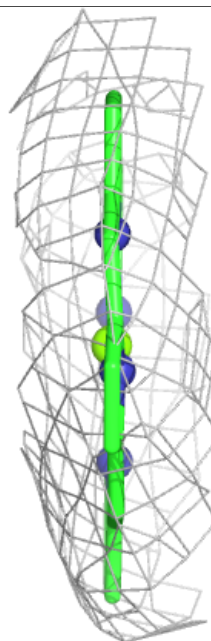
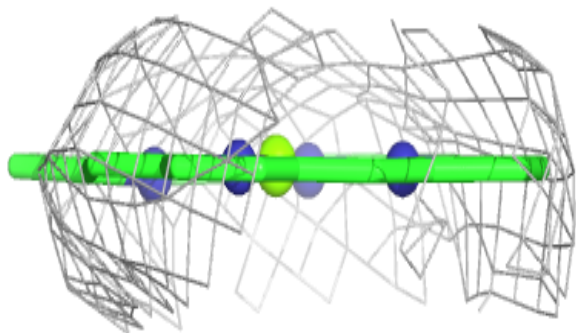
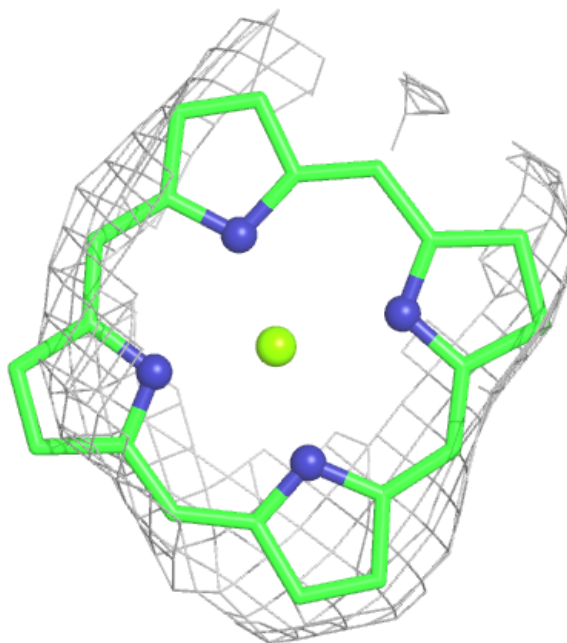
Electron density around CLA B 1228:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



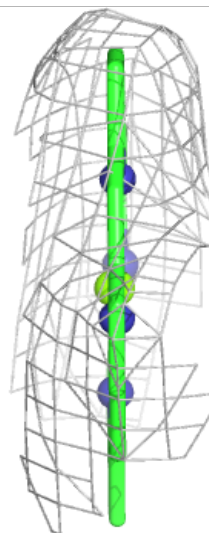
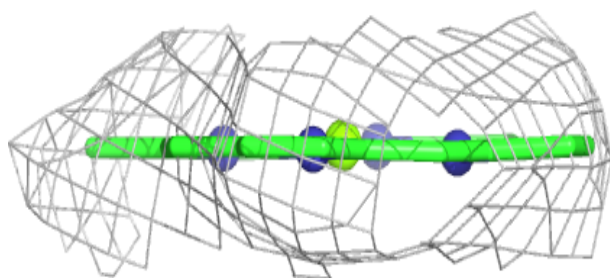
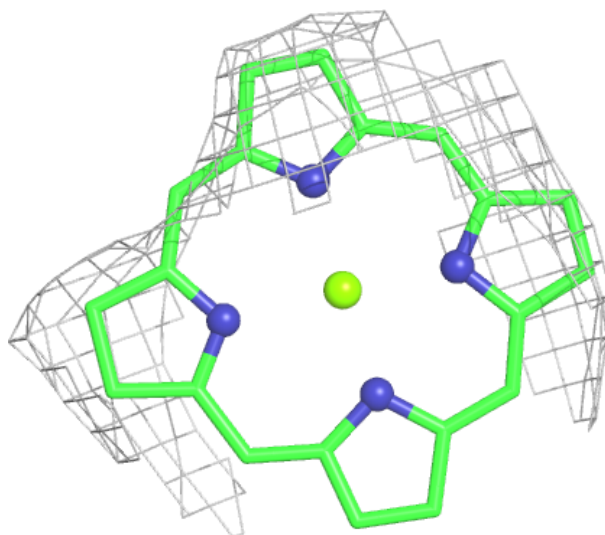
Electron density around CLA A 1121:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



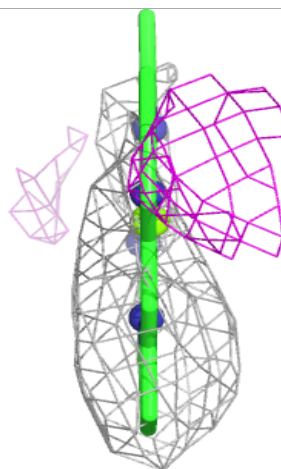
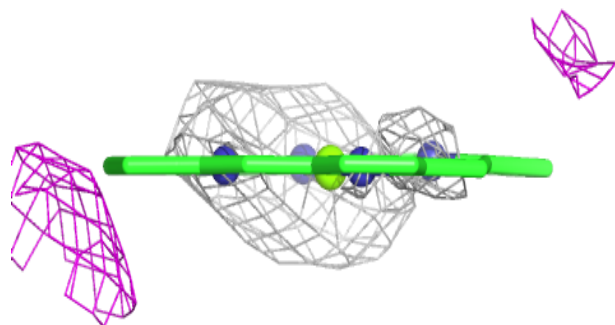
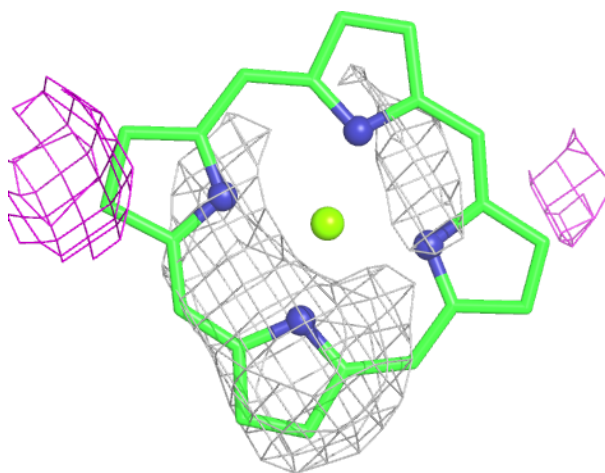
Electron density around CLA 4 612:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



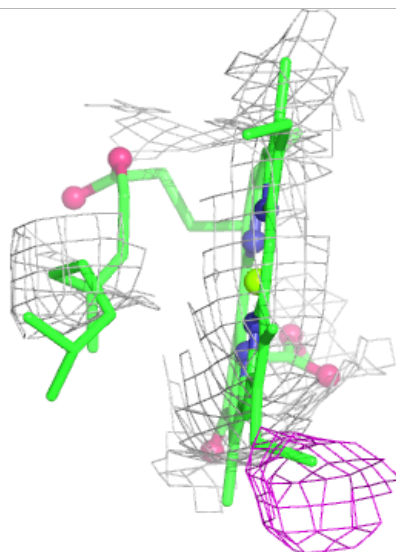
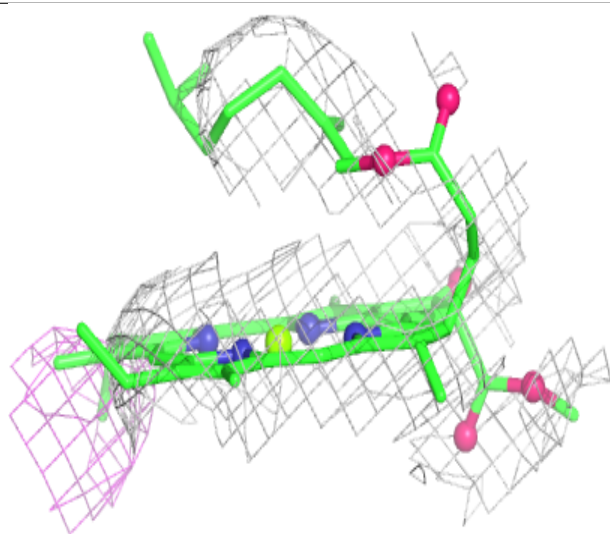
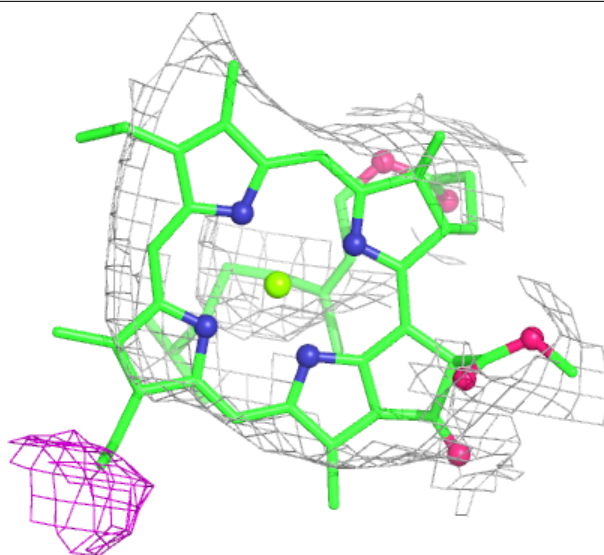
Electron density around CLA A 1138:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



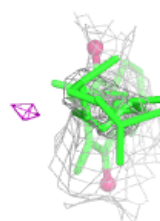
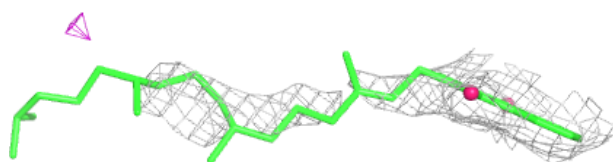
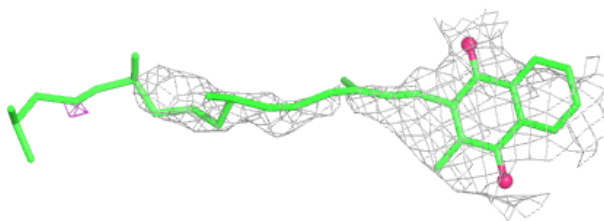
Electron density around CLA A 1116:

2mF_o-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



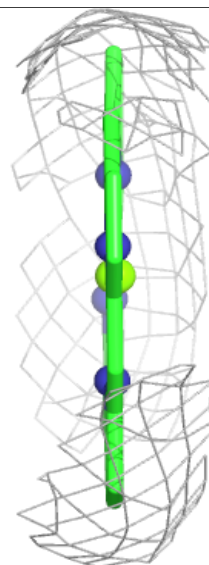
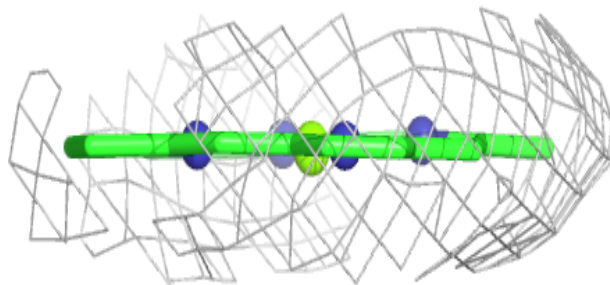
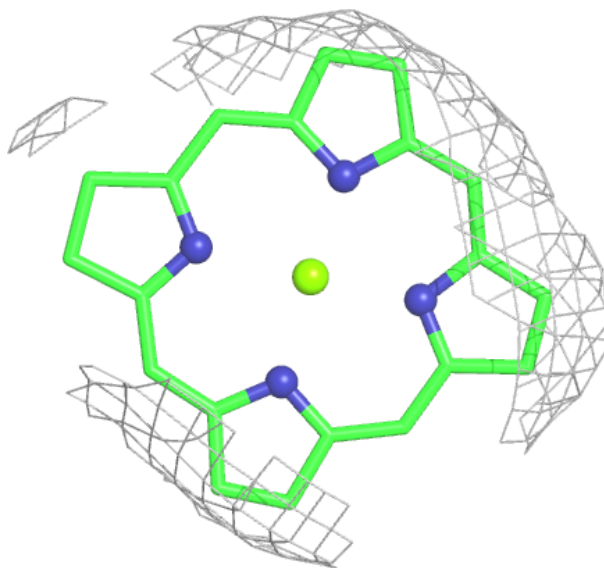
Electron density around PQN A 2001:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



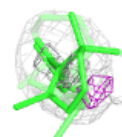
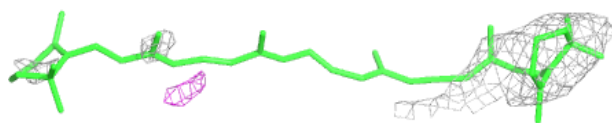
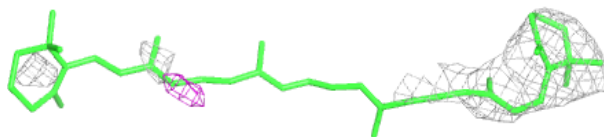
Electron density around CLA B 1235:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

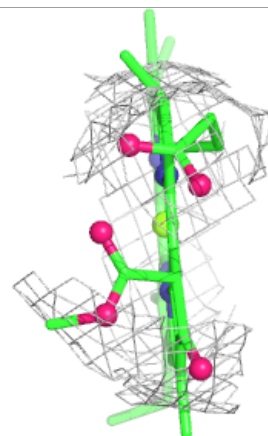
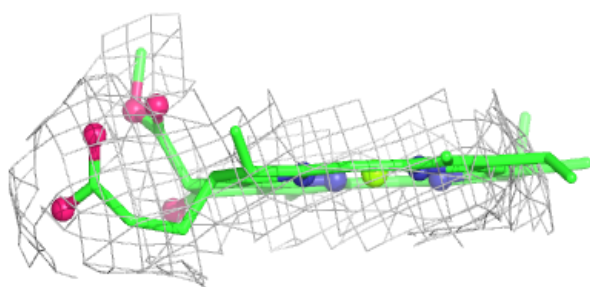
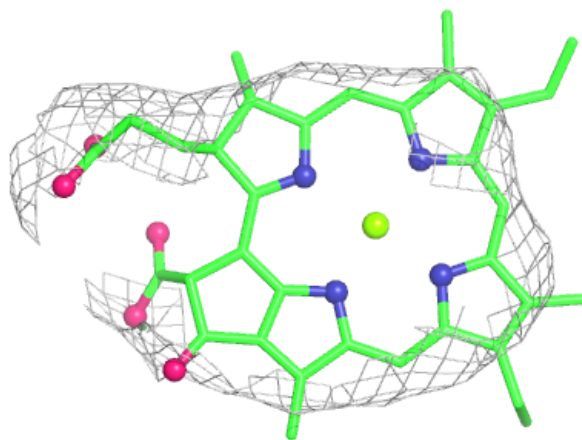


Electron density around BCR A 4002:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

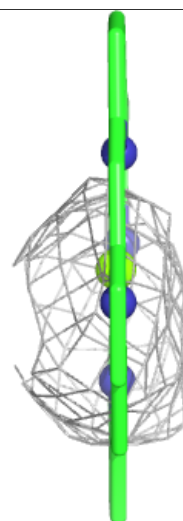
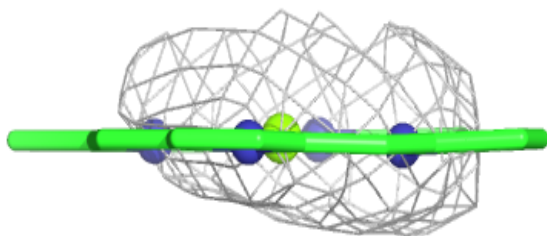
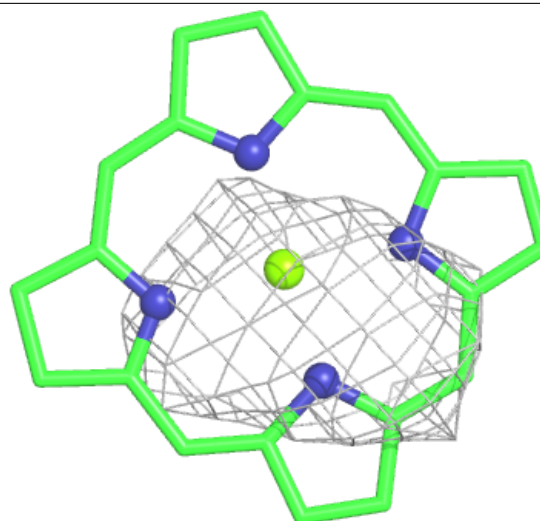
**Electron density around CLA F 1301:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



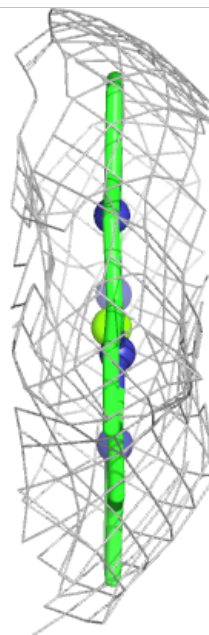
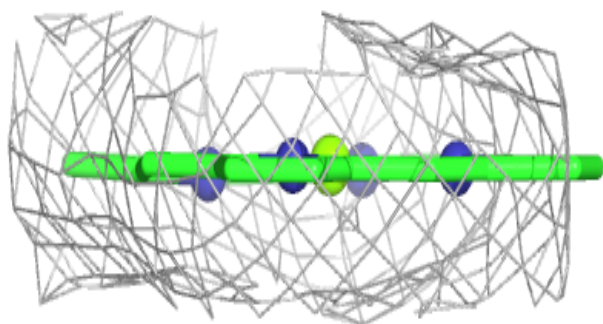
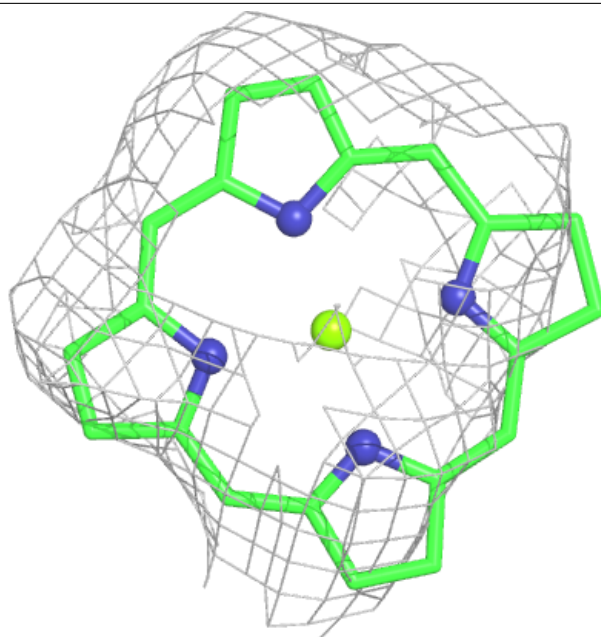
Electron density around CLA B 1220:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



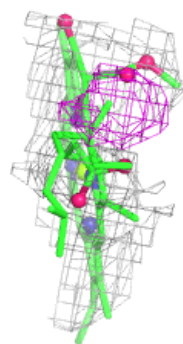
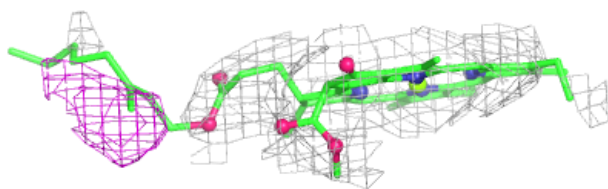
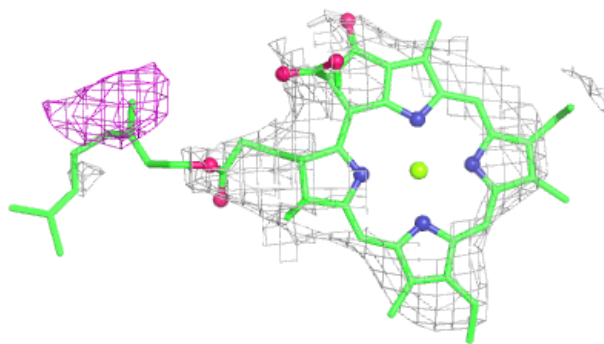
Electron density around CLA A 1123:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

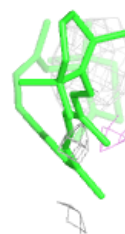
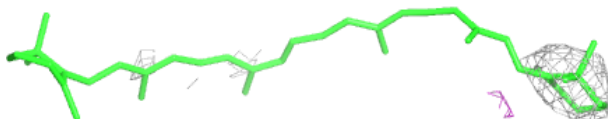
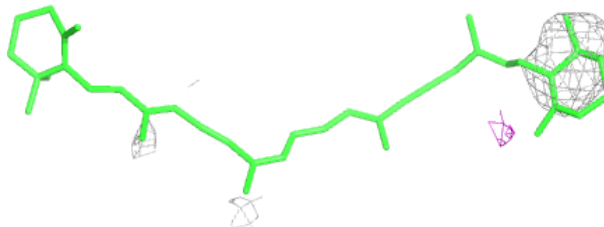


Electron density around CLA A 1103:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

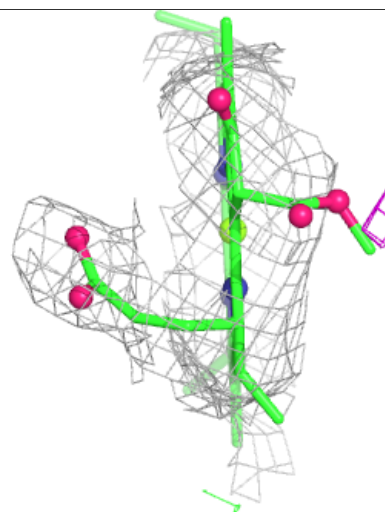
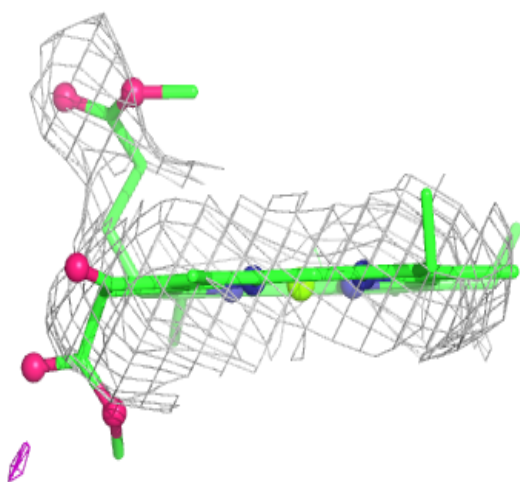
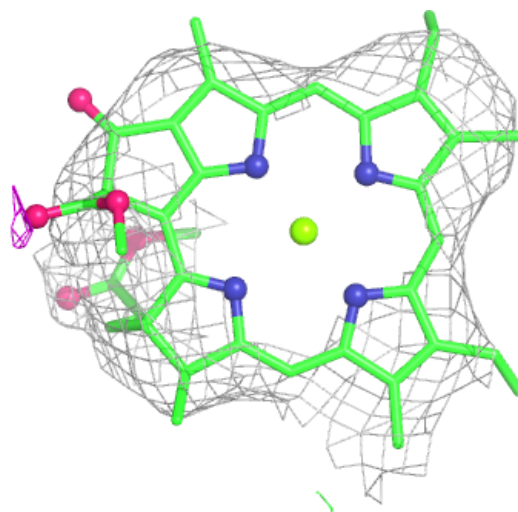
**Electron density around BCR B 4005:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



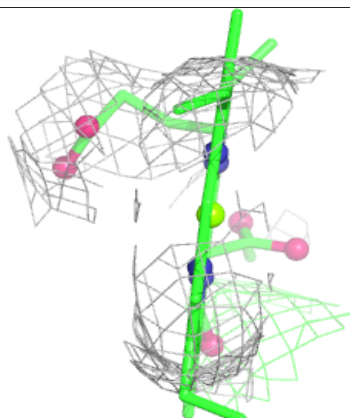
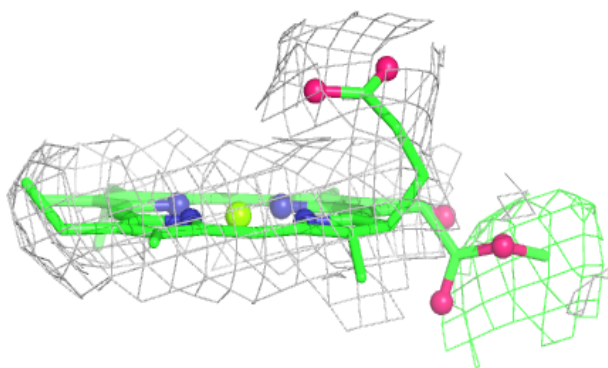
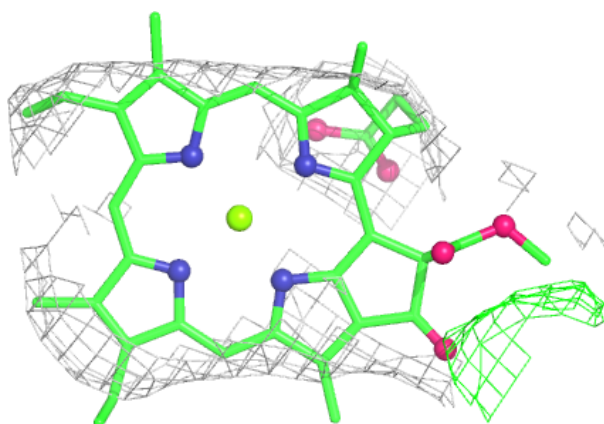
Electron density around CLA A 1114:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



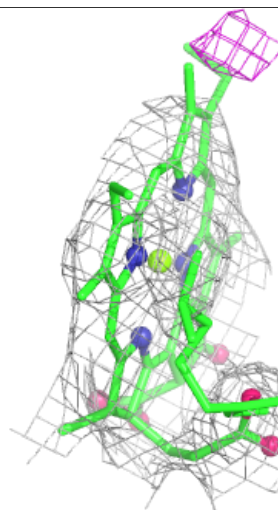
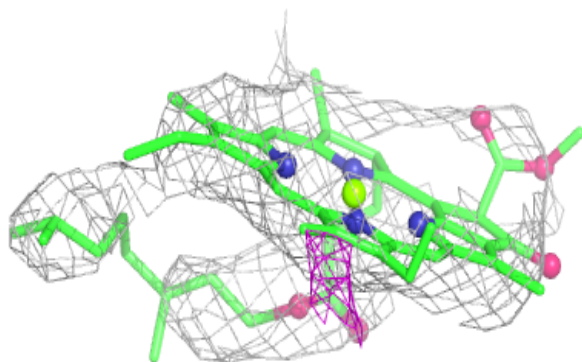
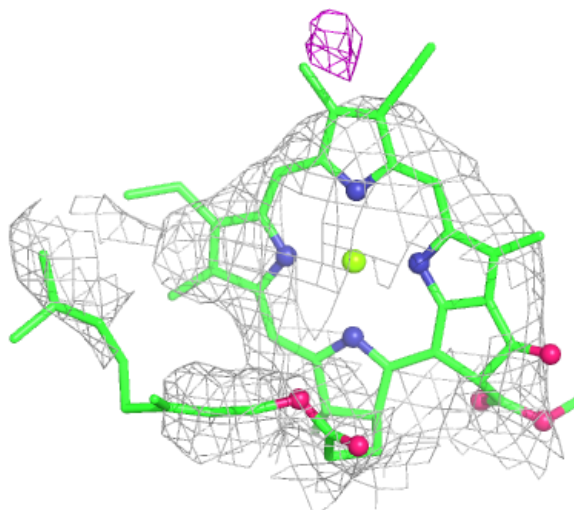
Electron density around CLA A 1101:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)



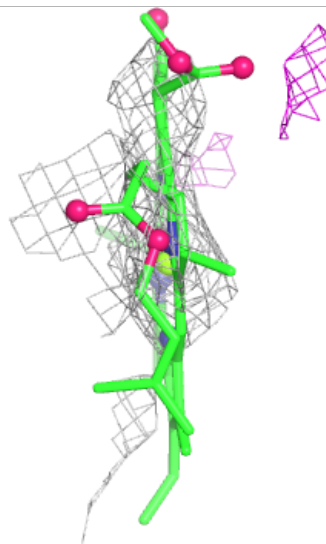
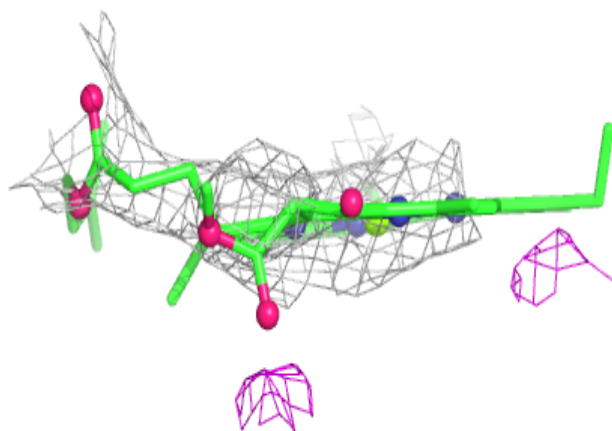
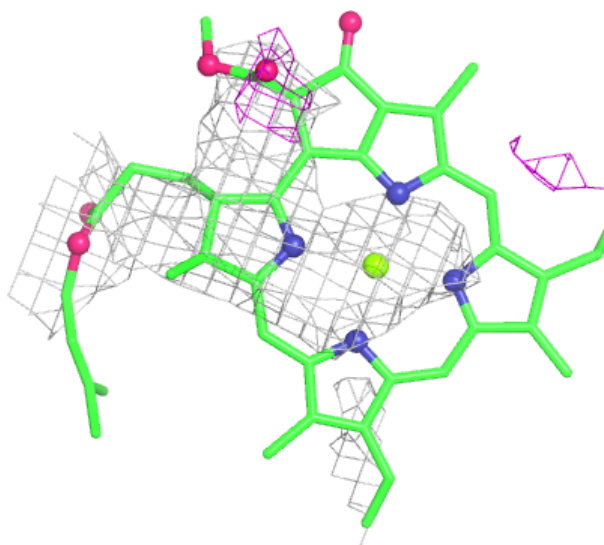
Electron density around CLA A 1105:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



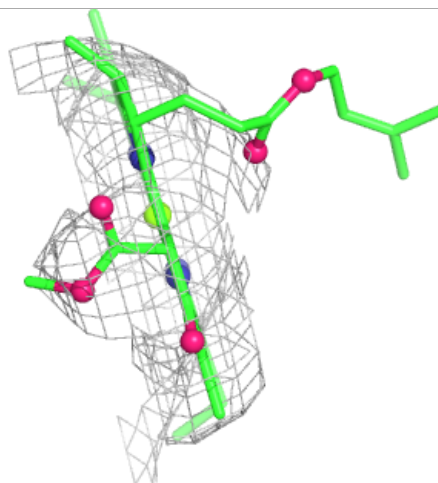
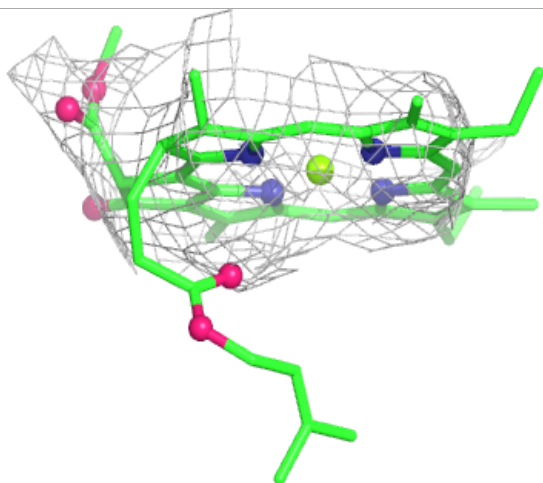
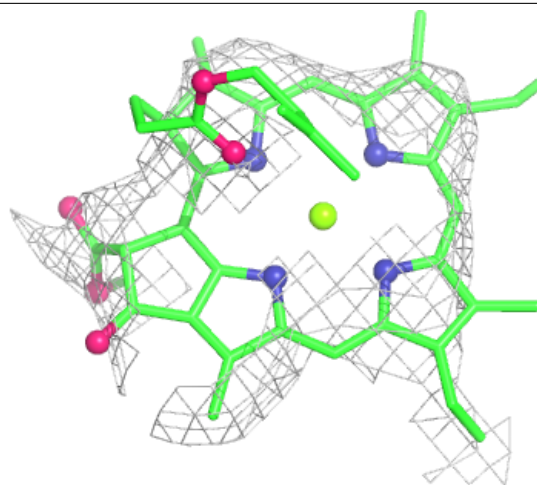
Electron density around CLA B 1023:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



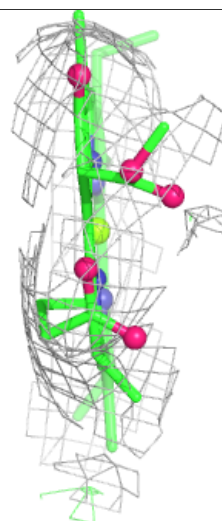
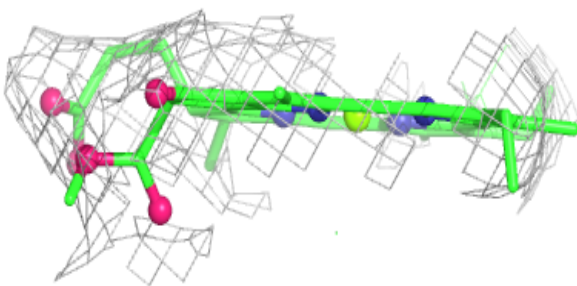
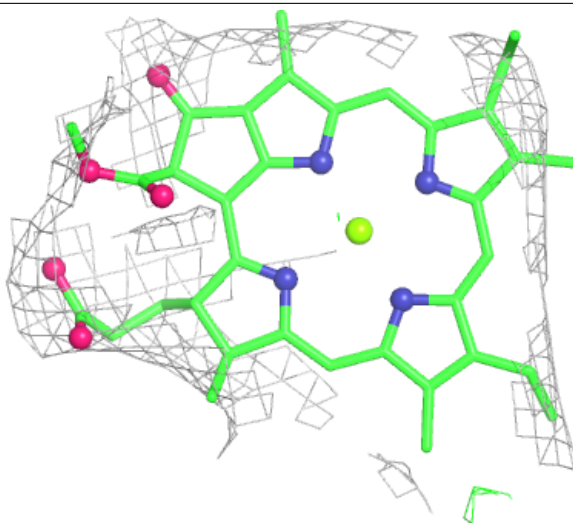
Electron density around CLA J 1302:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



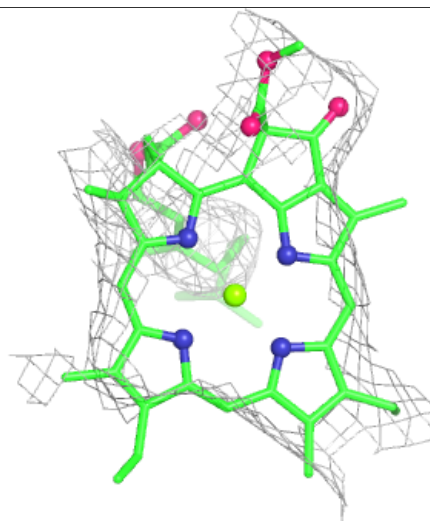
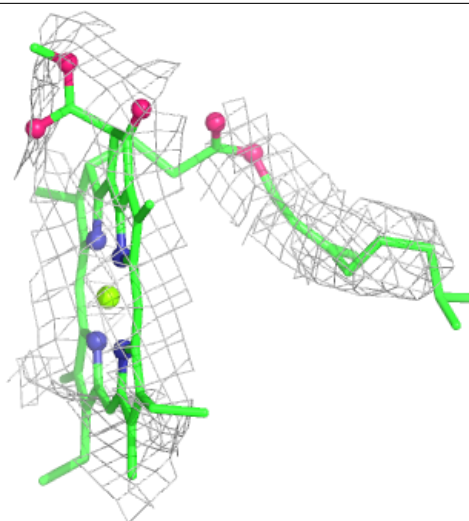
Electron density around CLA A 1131:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



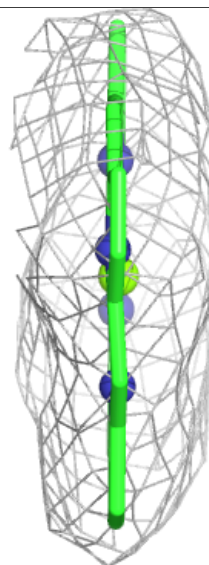
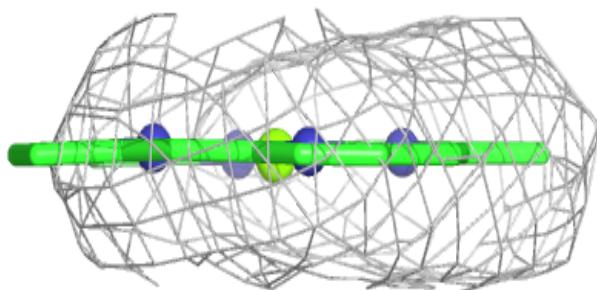
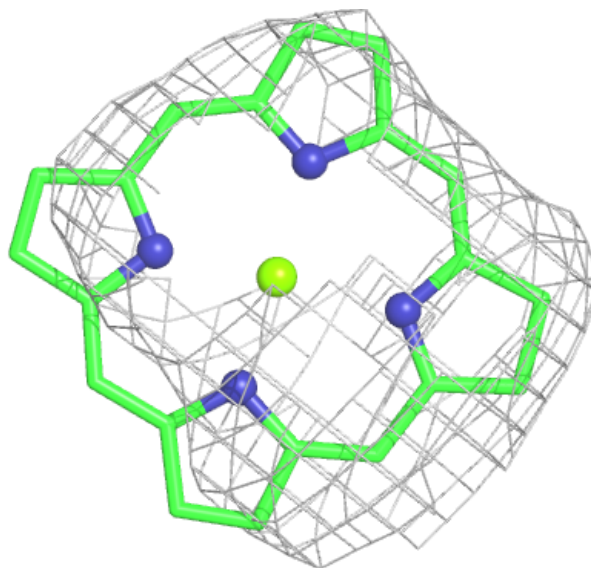
Electron density around CLA B 1226:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



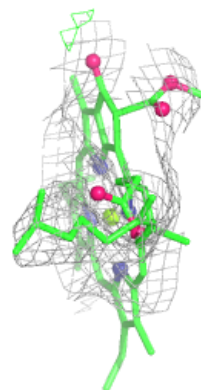
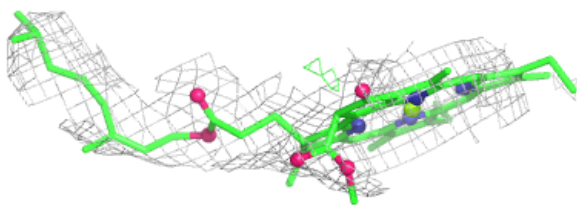
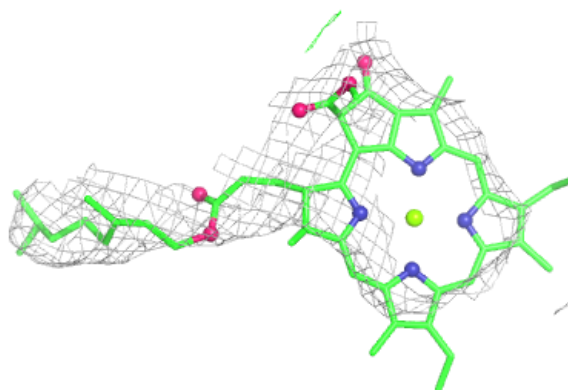
Electron density around CLA A 1111:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



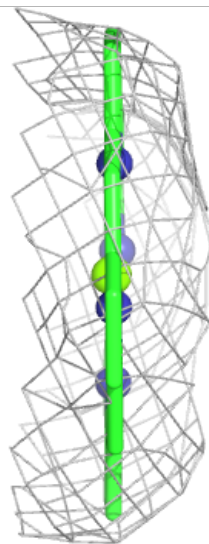
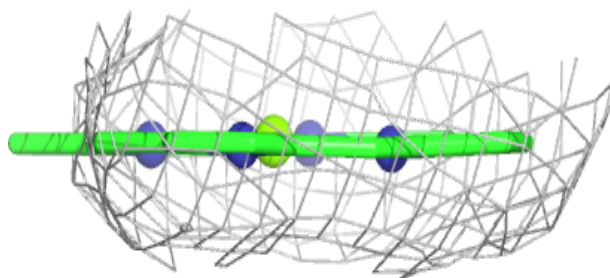
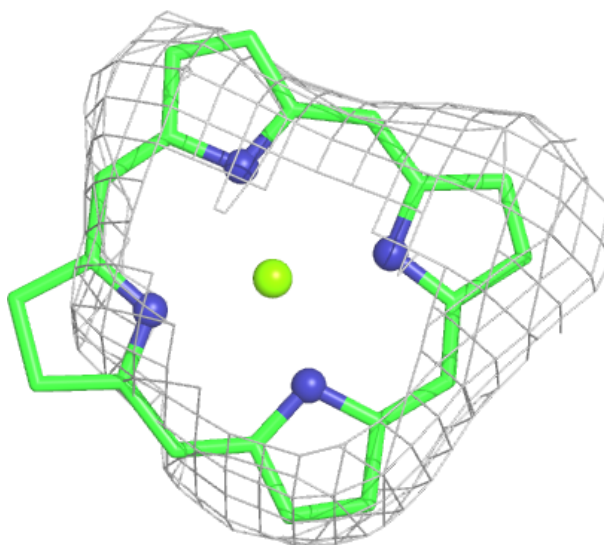
Electron density around CLA A 1012:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



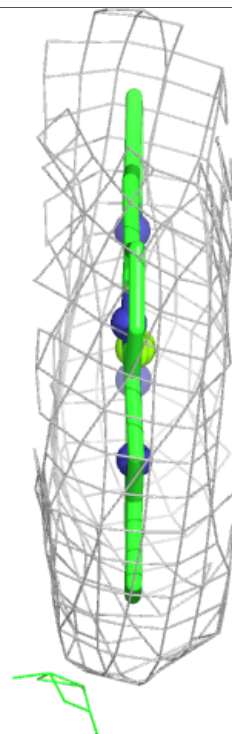
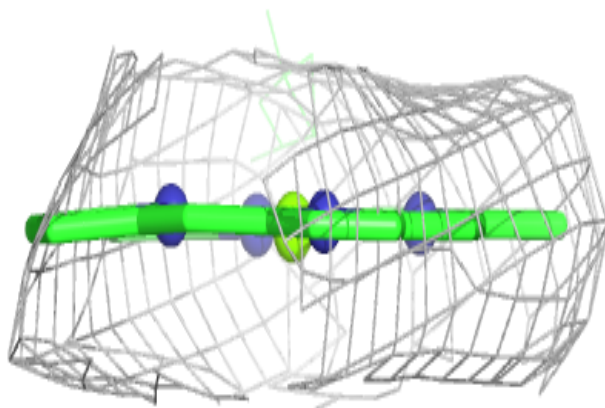
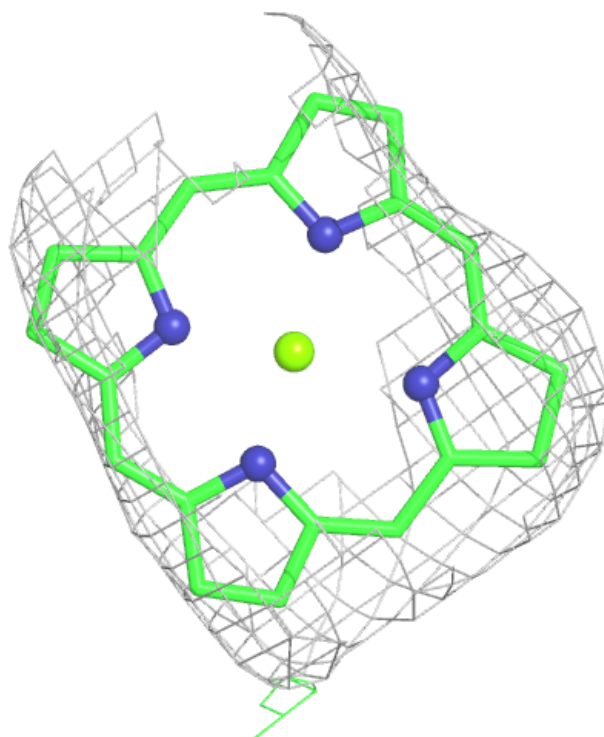
Electron density around CLA A 1141:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



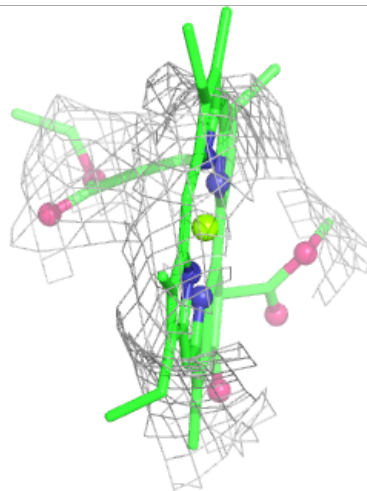
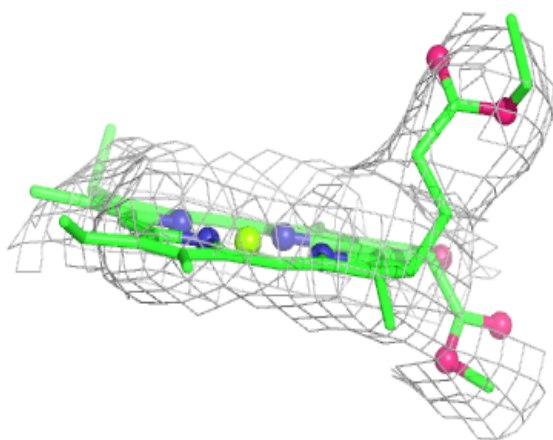
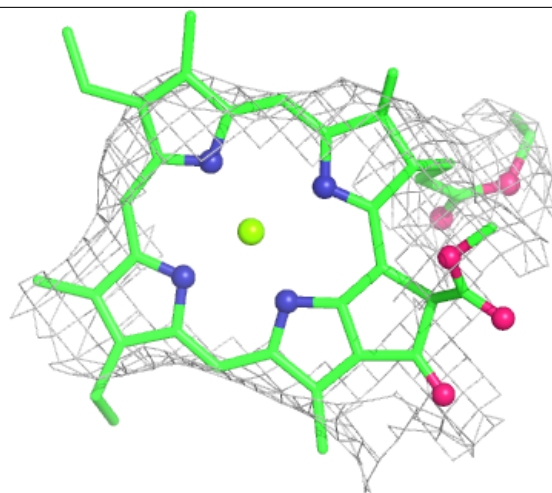
Electron density around CLA A 1125:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



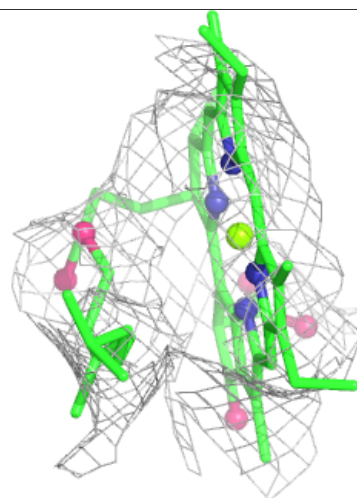
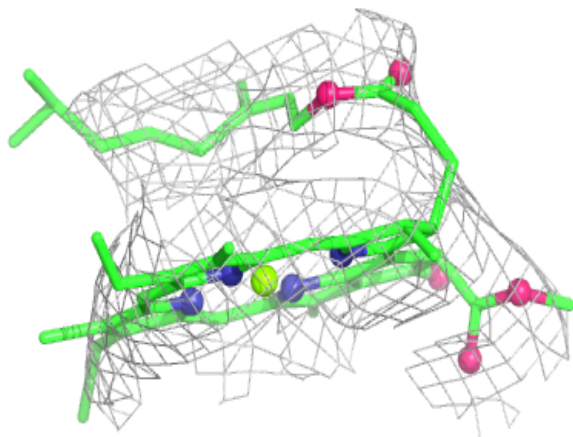
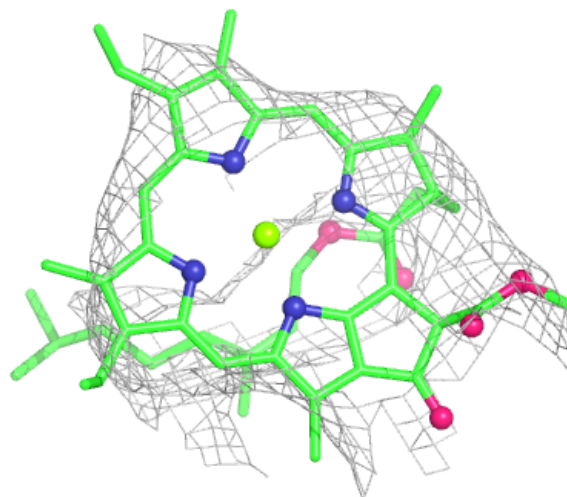
Electron density around CLA B 1230:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



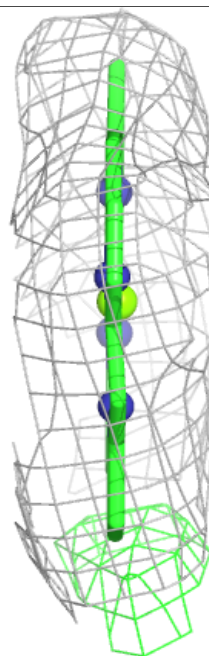
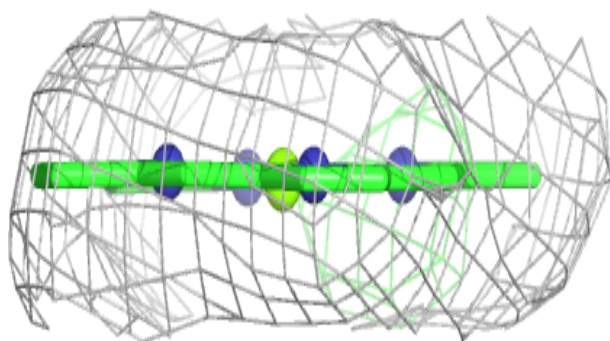
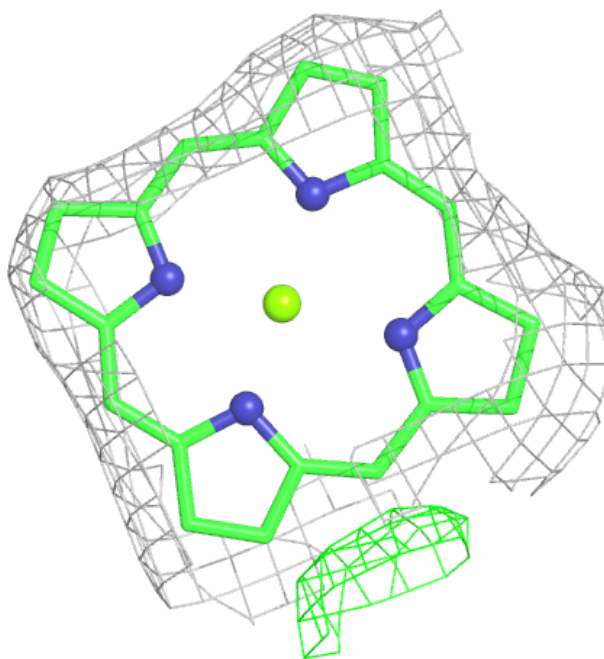
Electron density around CLA A 1115:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



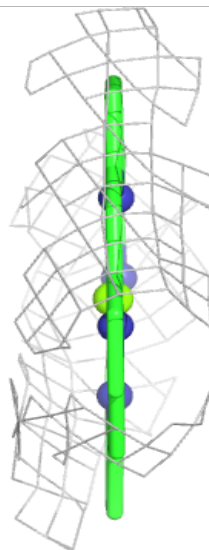
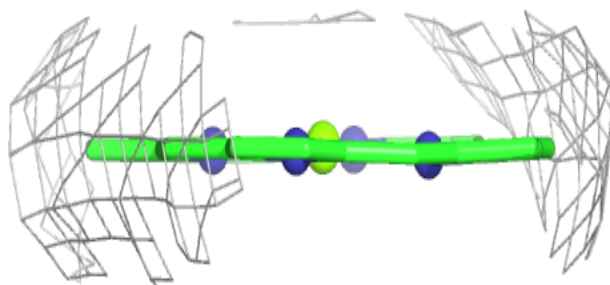
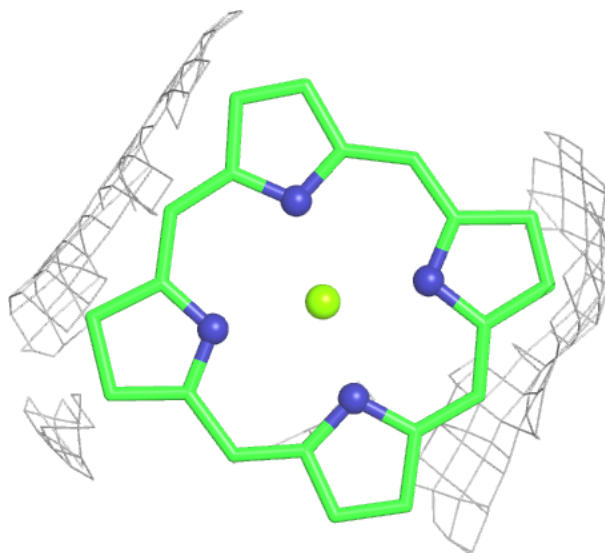
Electron density around CLA A 1128:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



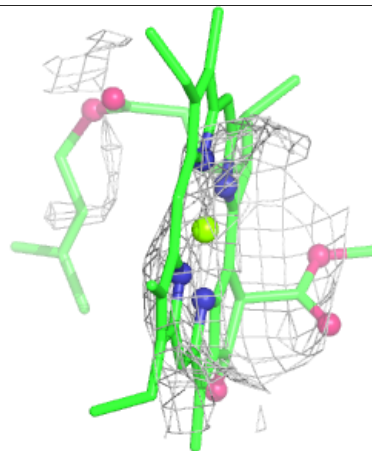
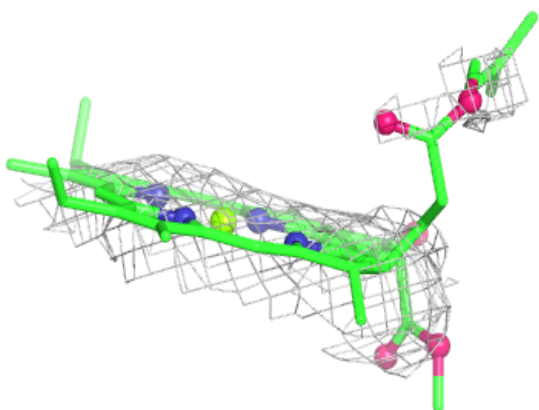
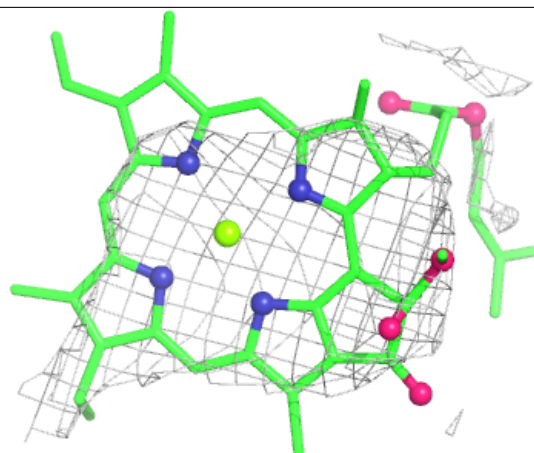
Electron density around CLA 2 605:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



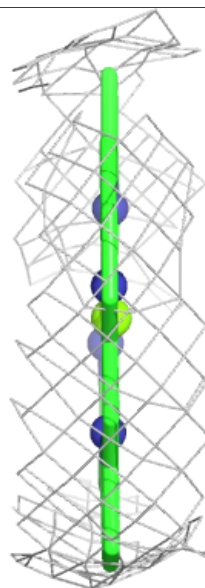
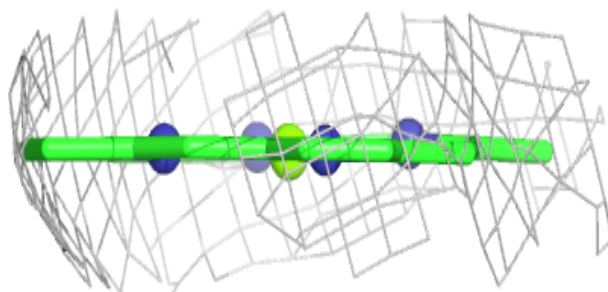
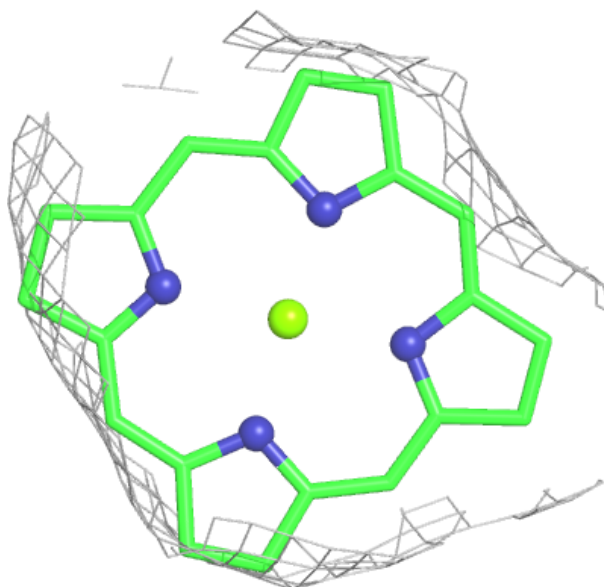
Electron density around CLA B 1225:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



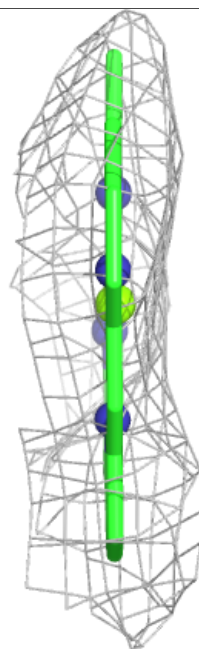
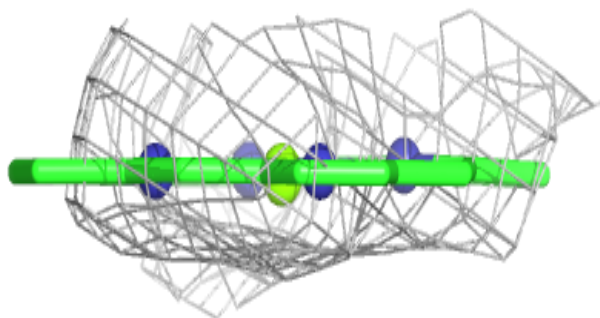
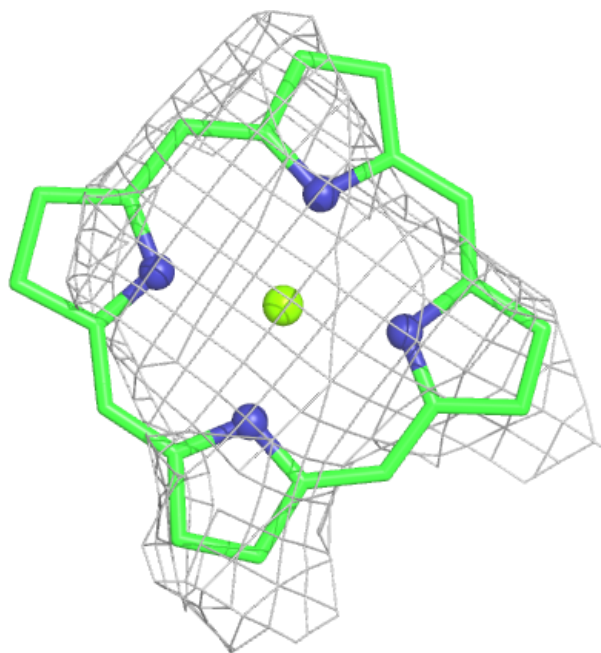
Electron density around CLA A 1134:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



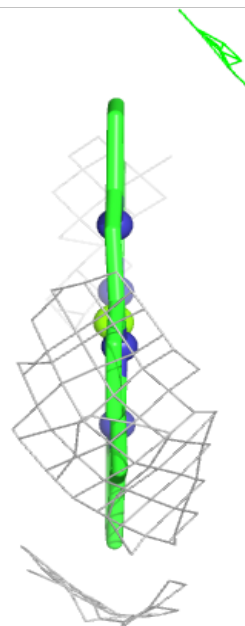
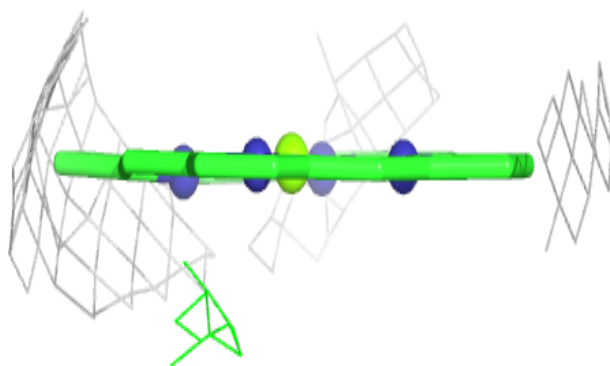
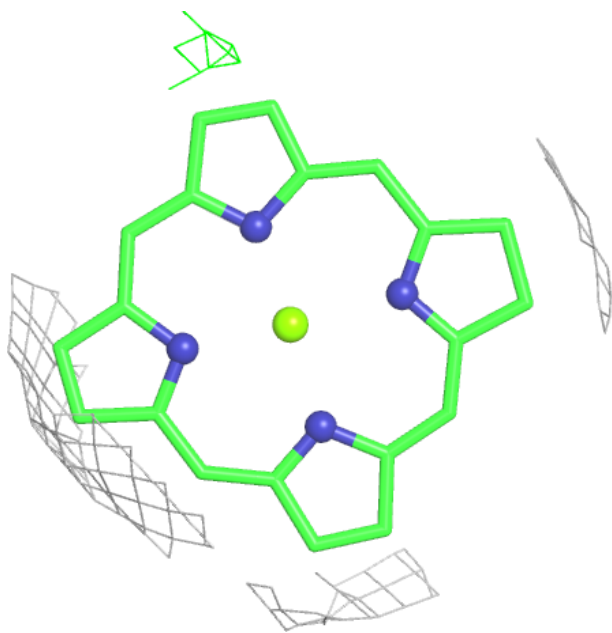
Electron density around CLA A 1135:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



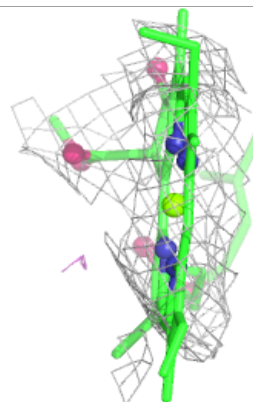
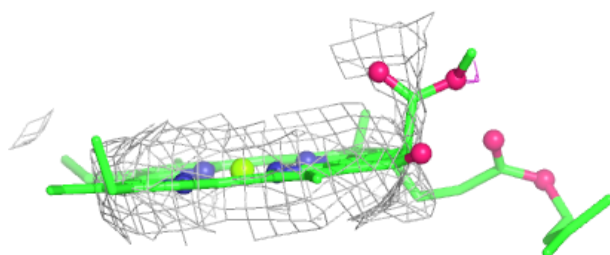
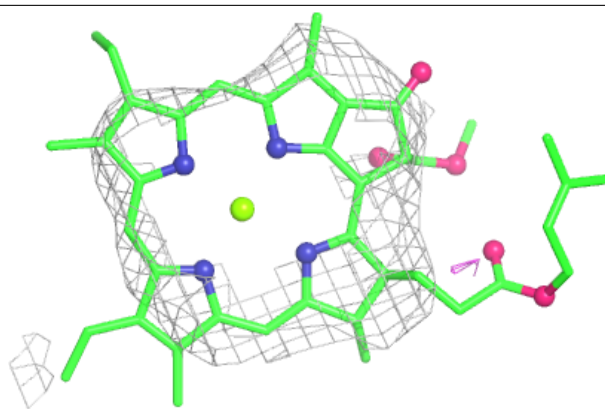
Electron density around CLA B 1201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

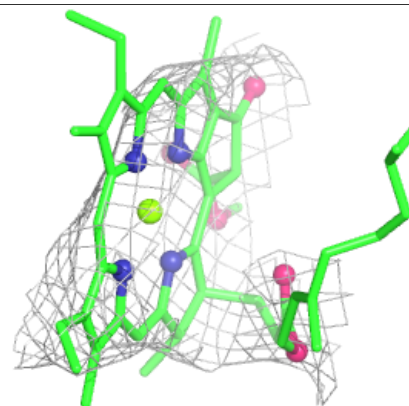
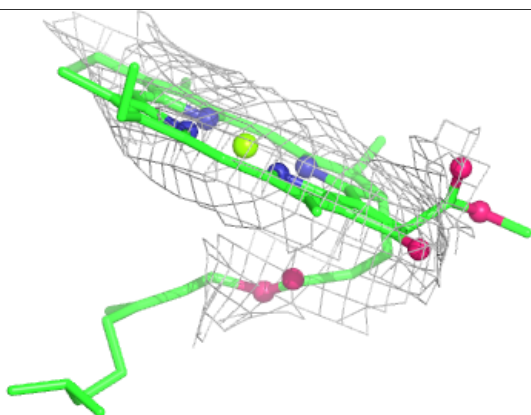
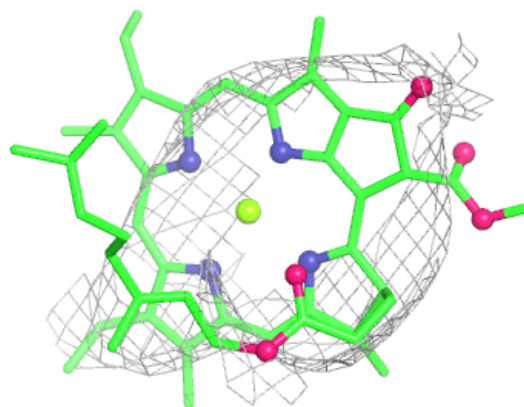


Electron density around CLA B 1229:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

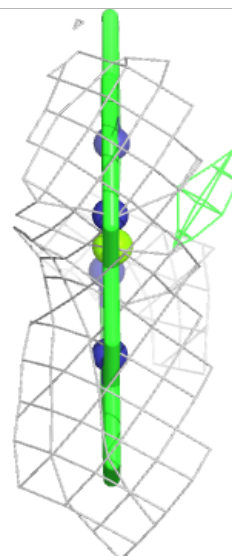
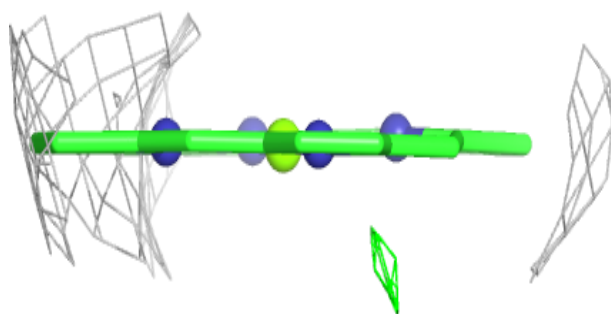
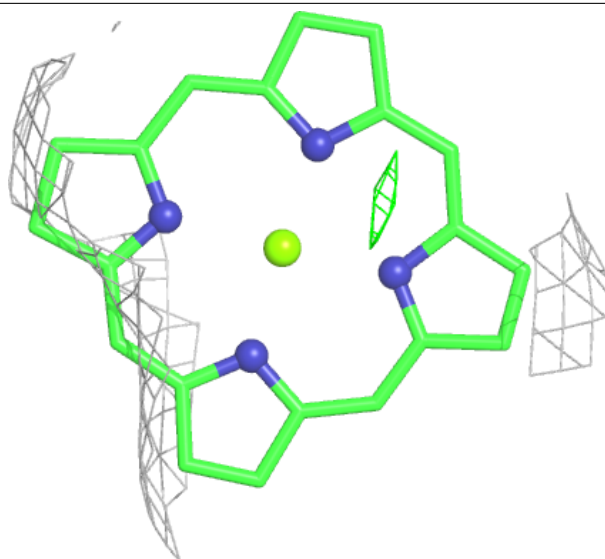
**Electron density around CLA A 1130:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



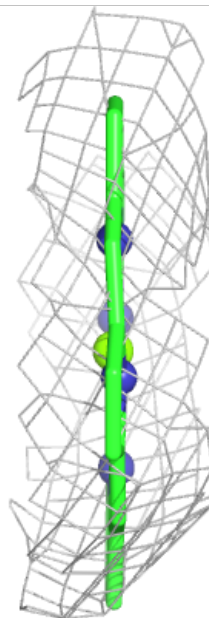
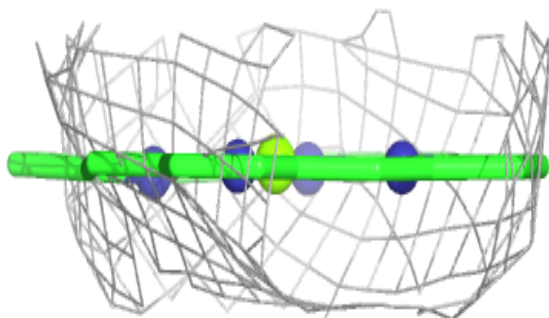
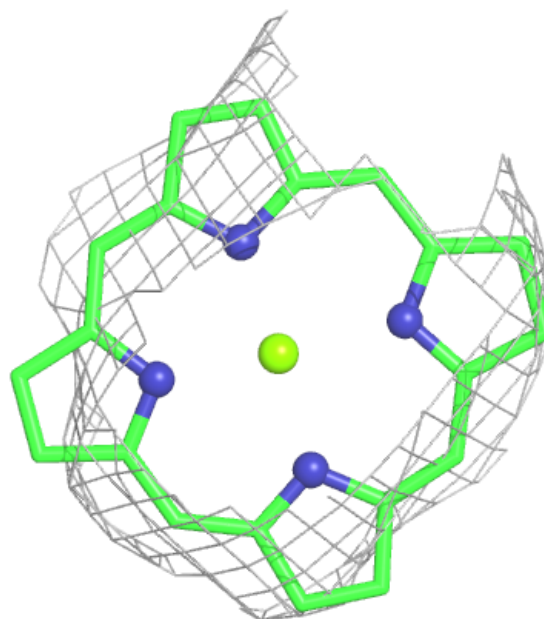
Electron density around CLA 2 612:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



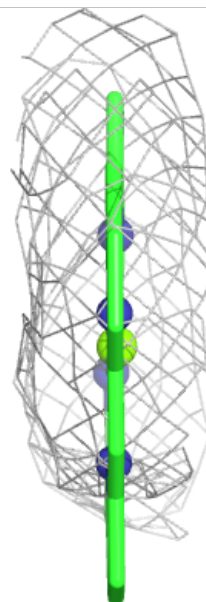
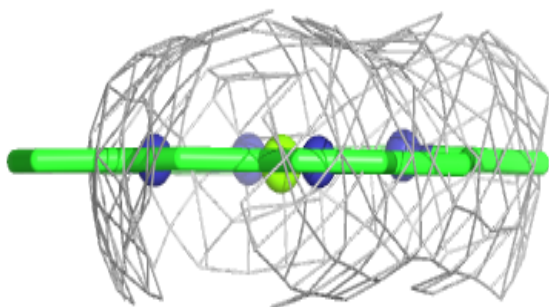
Electron density around CLA B 1234:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



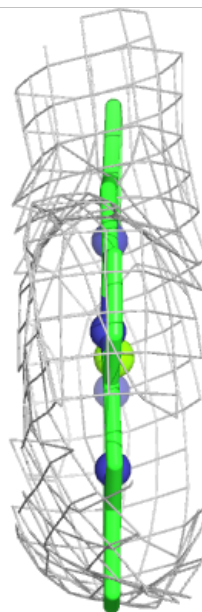
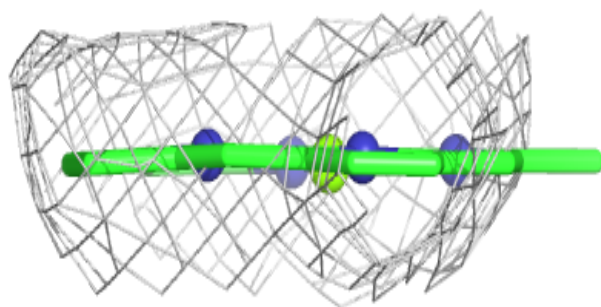
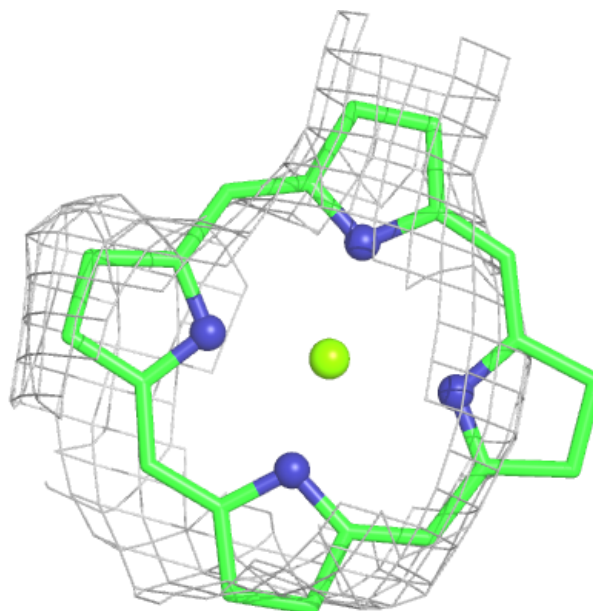
Electron density around CLA A 1133:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



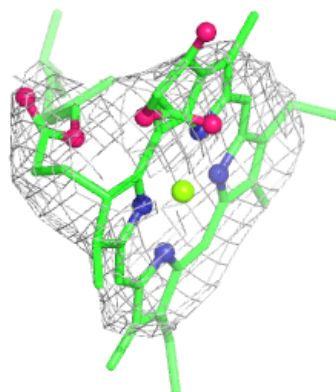
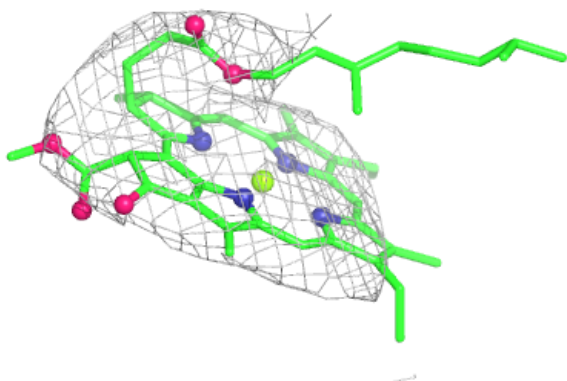
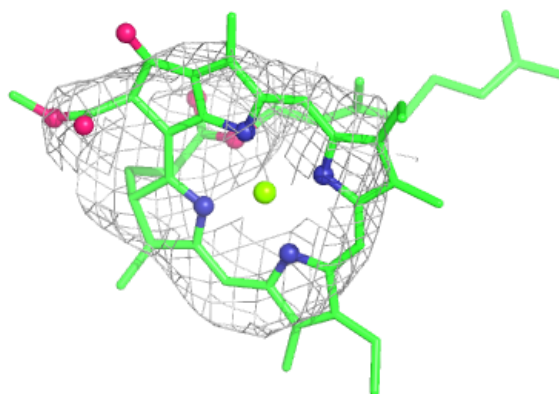
Electron density around CLA B 1202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



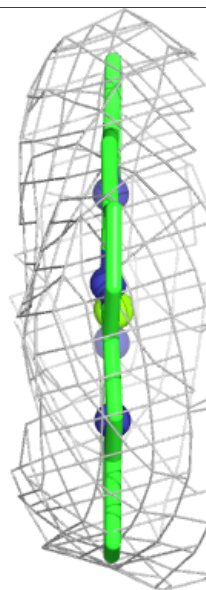
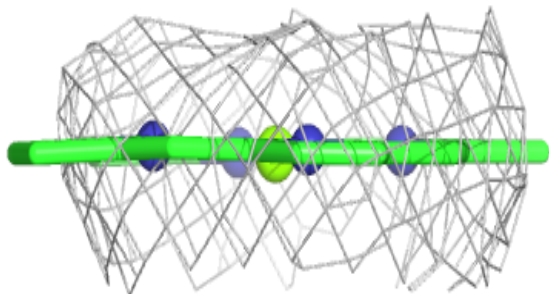
Electron density around CLA B 1237:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



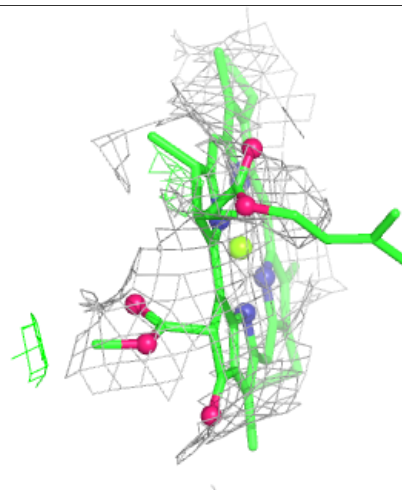
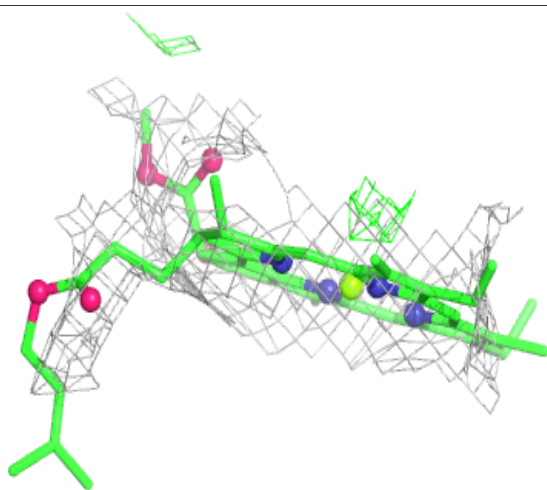
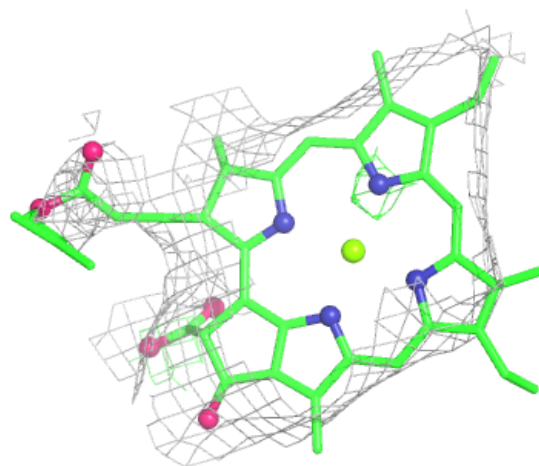
Electron density around CLA A 1118:

2mF_o-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



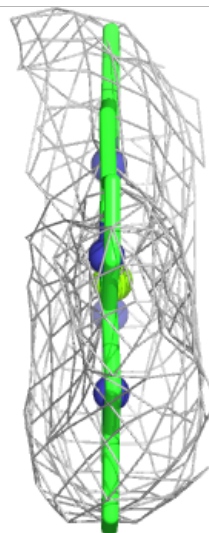
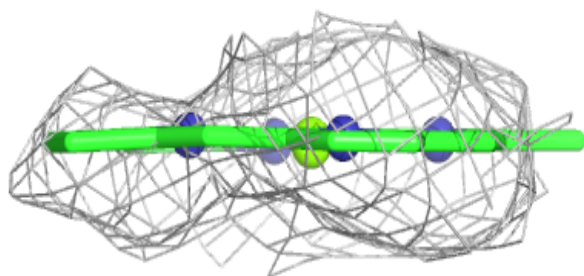
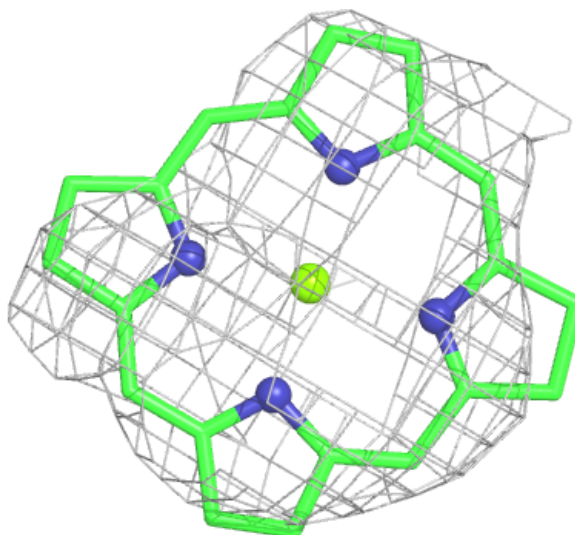
Electron density around CLA A 1011:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



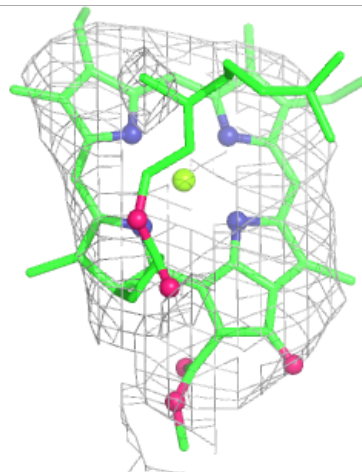
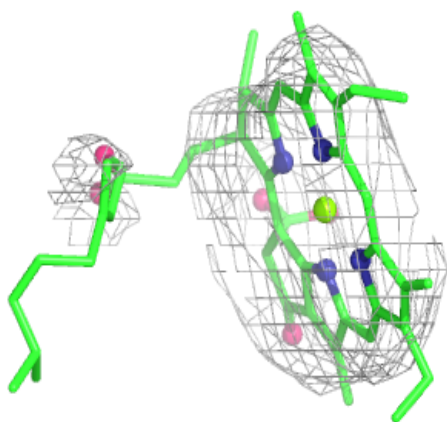
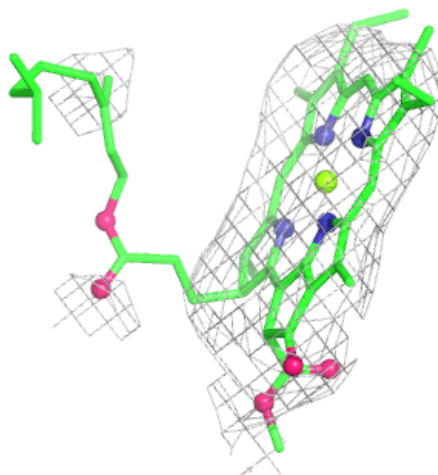
Electron density around CLA B 1022:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



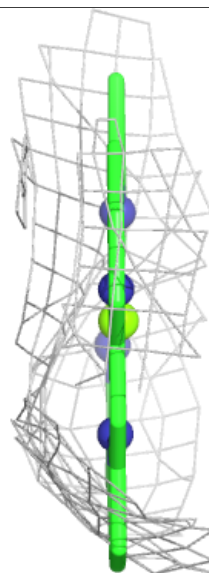
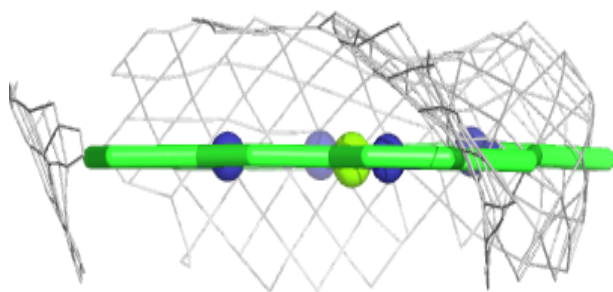
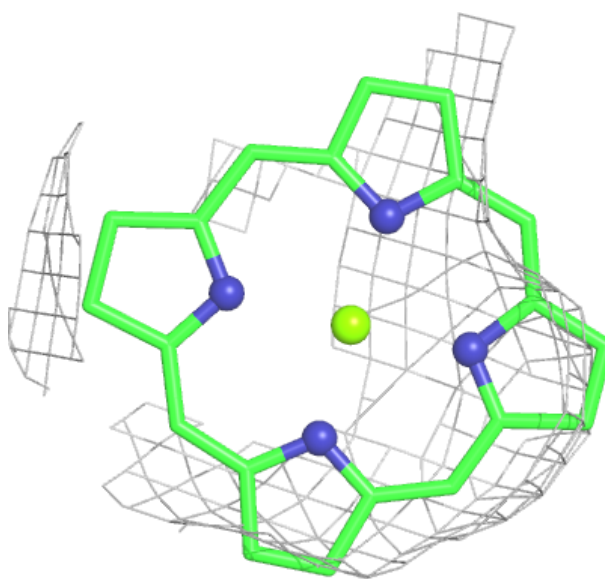
Electron density around CLA A 1107:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



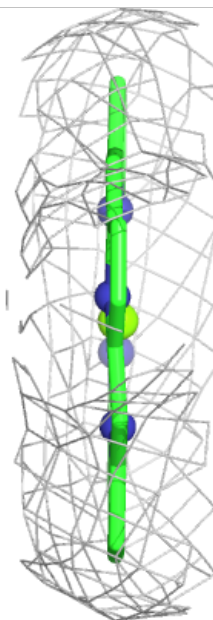
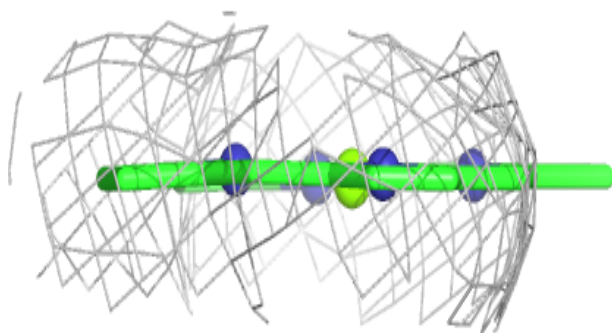
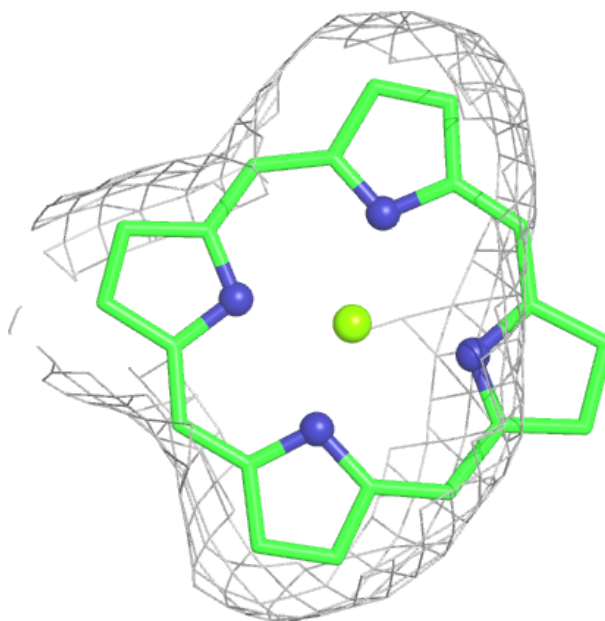
Electron density around CLA A 1129:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



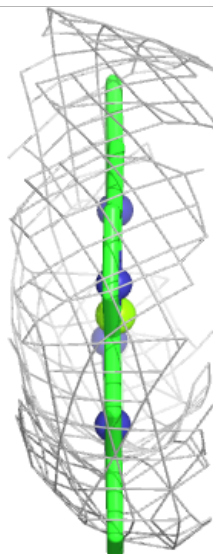
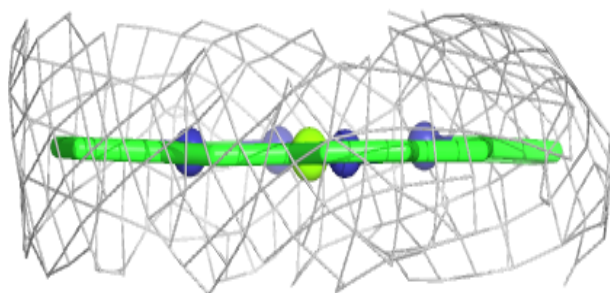
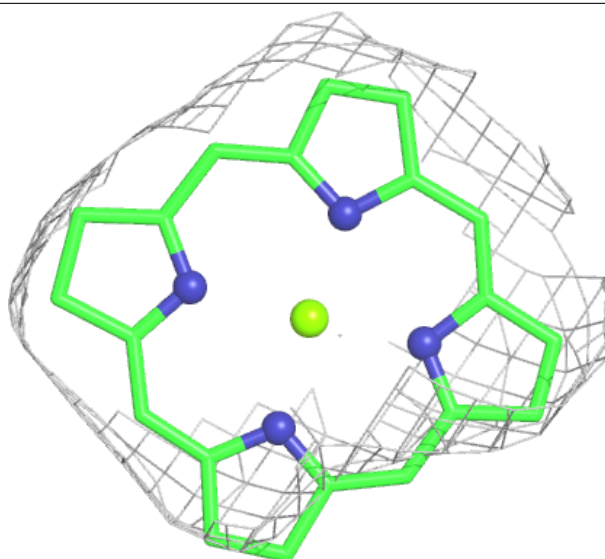
Electron density around CLA A 1108:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



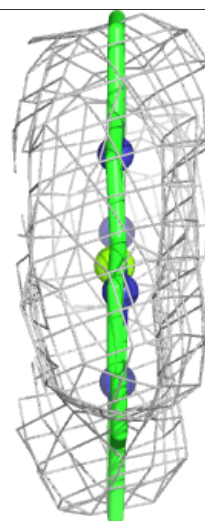
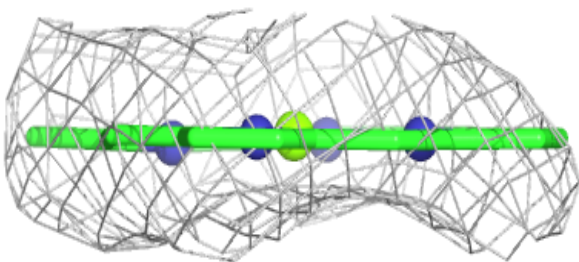
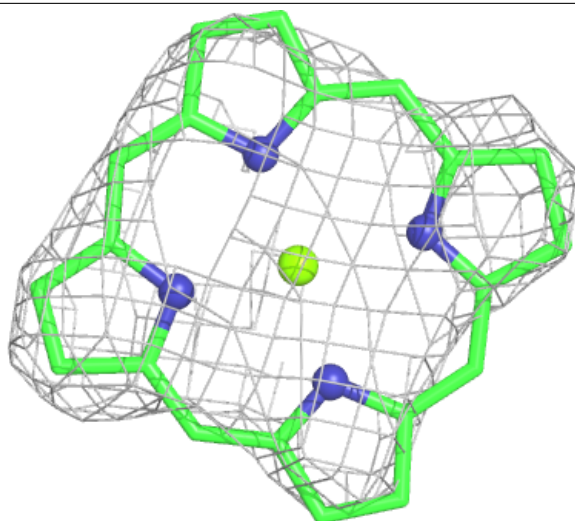
Electron density around CLA B 1215:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



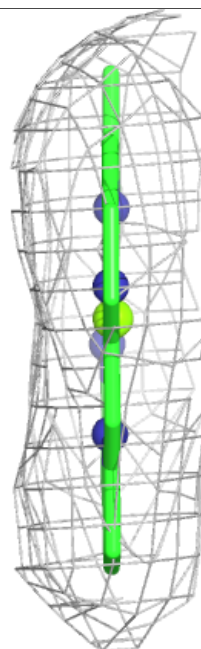
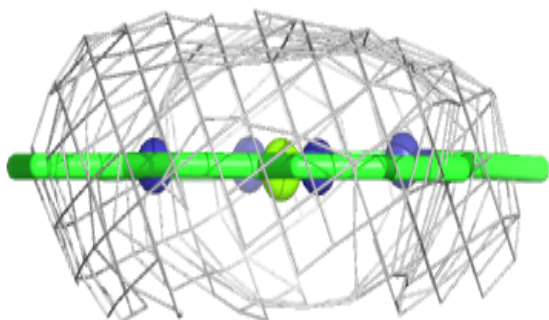
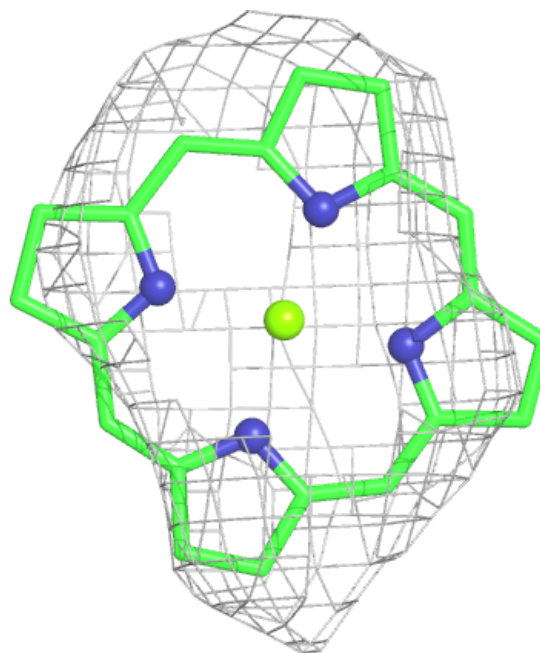
Electron density around CLA A 1113:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



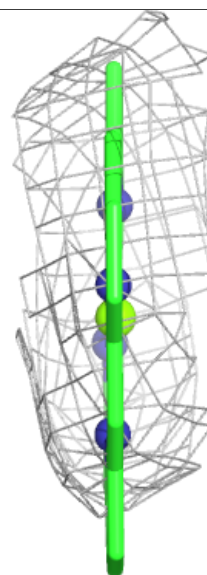
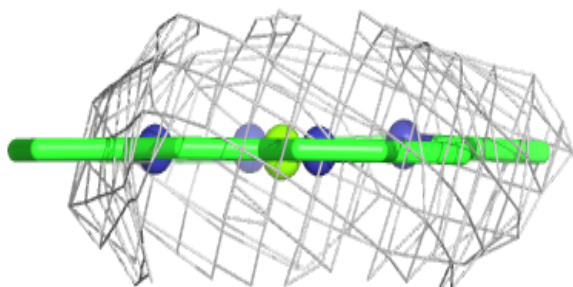
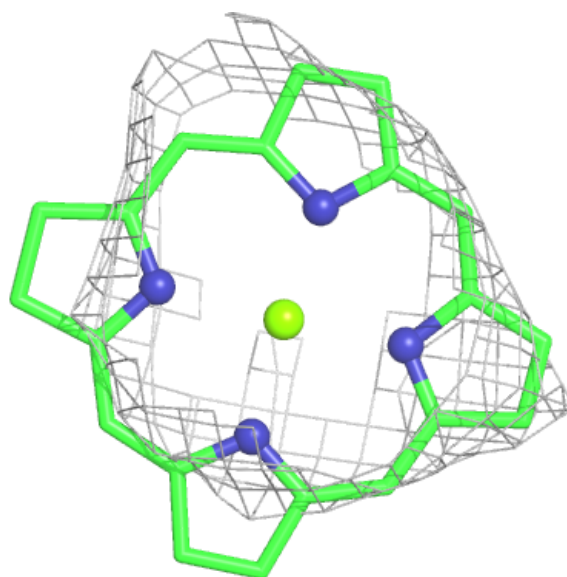
Electron density around CLA A 1139:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



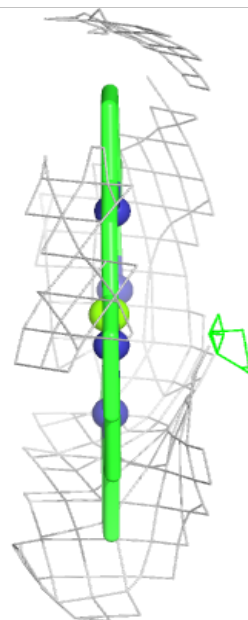
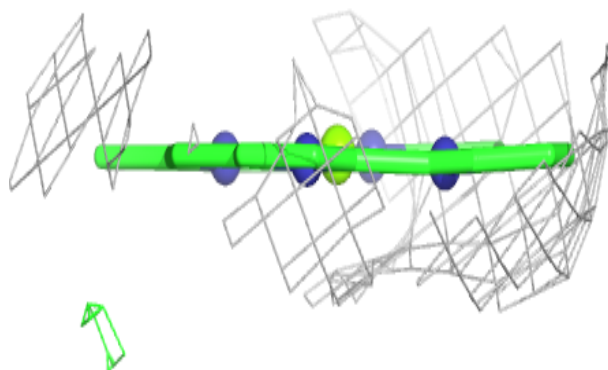
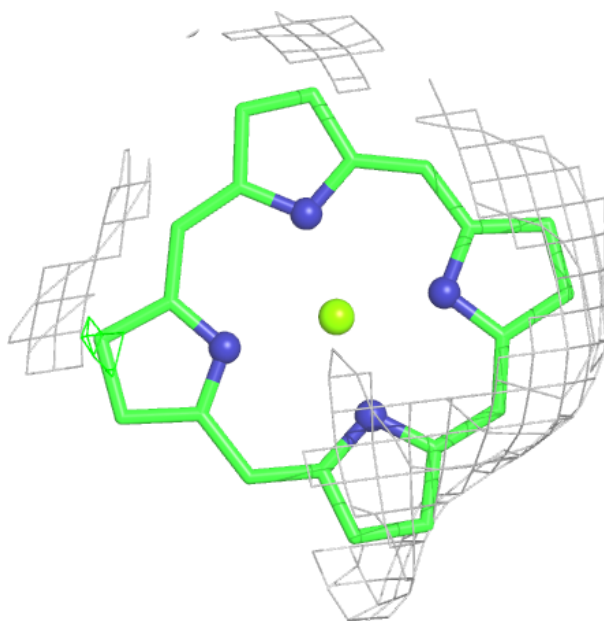
Electron density around CLA B 1239:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



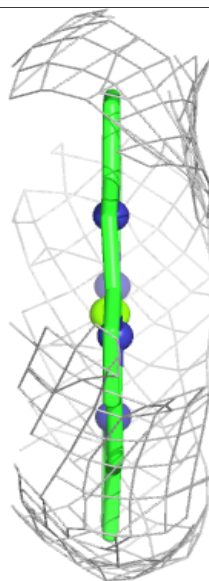
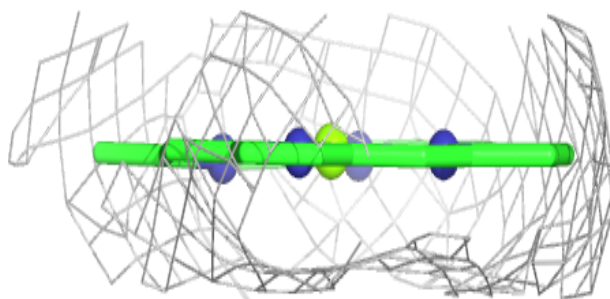
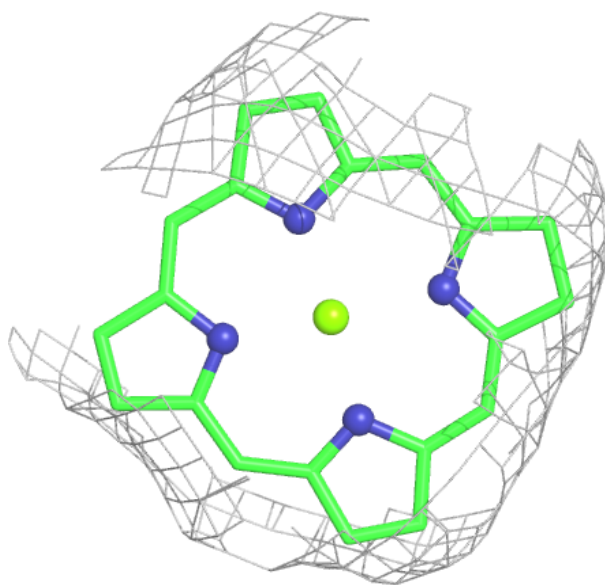
Electron density around CLA A 1132:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



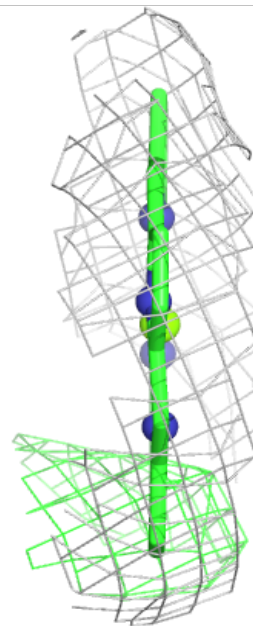
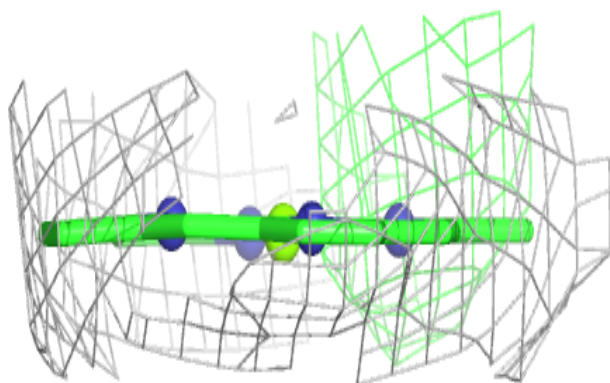
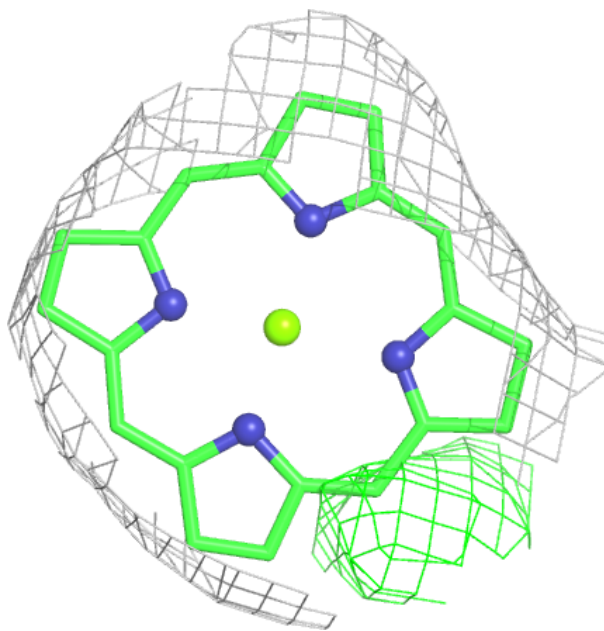
Electron density around CLA A 1122:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



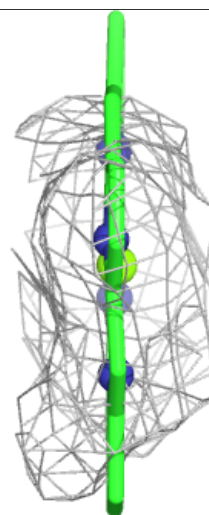
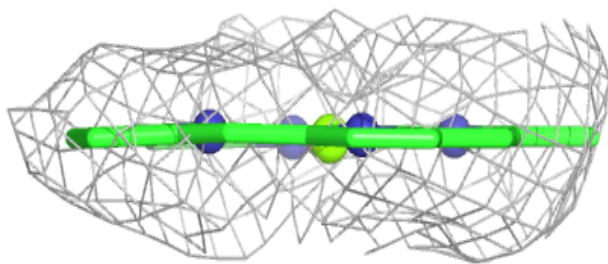
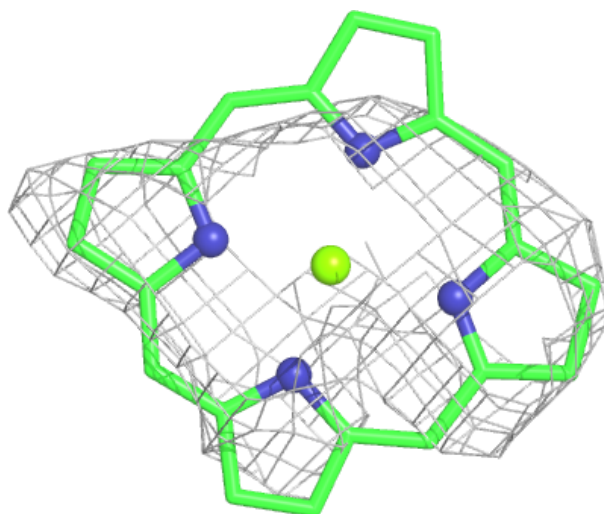
Electron density around CLA A 1102:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



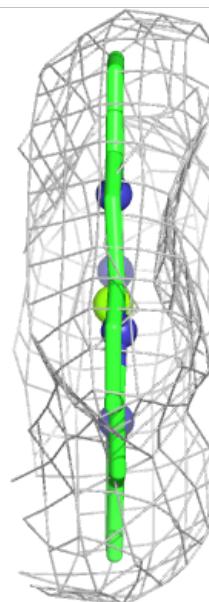
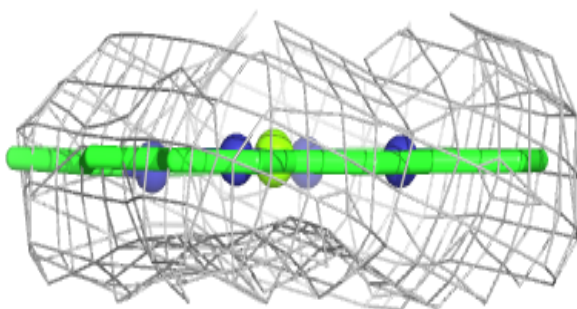
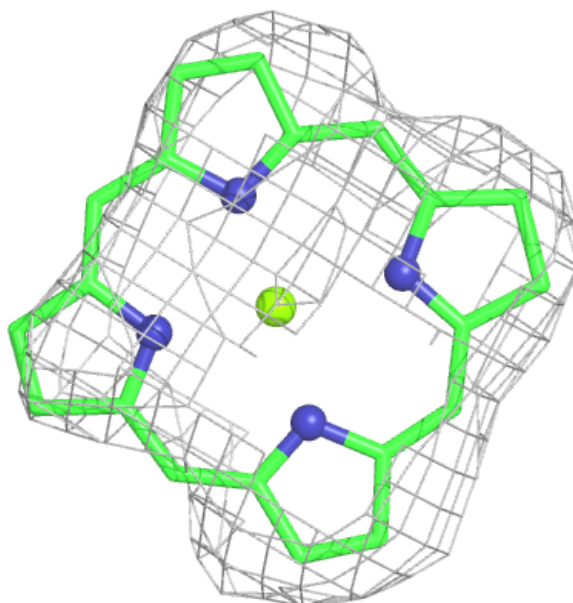
Electron density around CLA A 1110:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



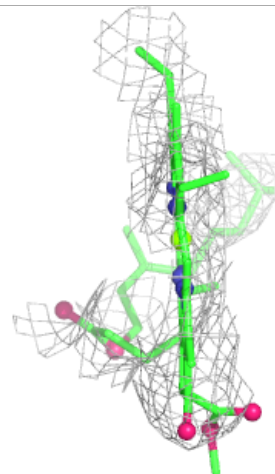
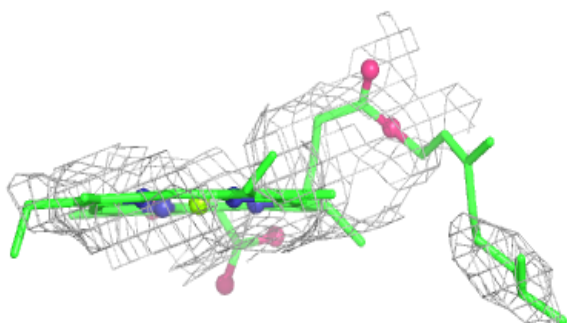
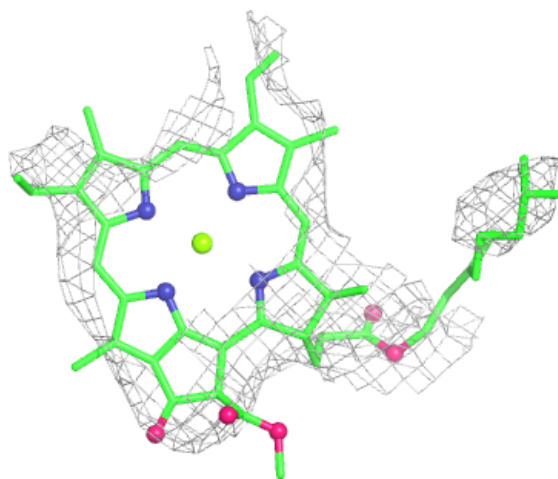
Electron density around CLA A 1127:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



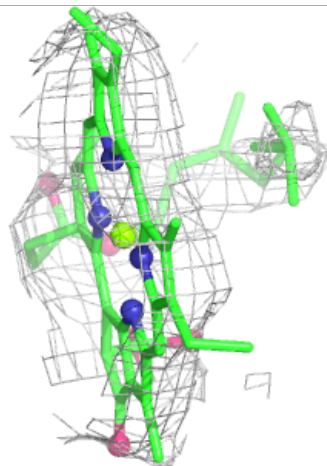
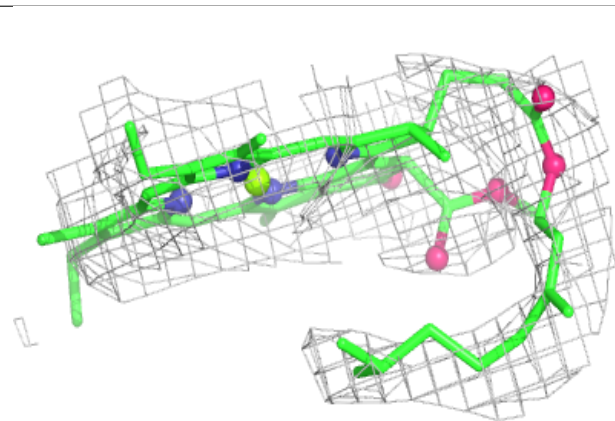
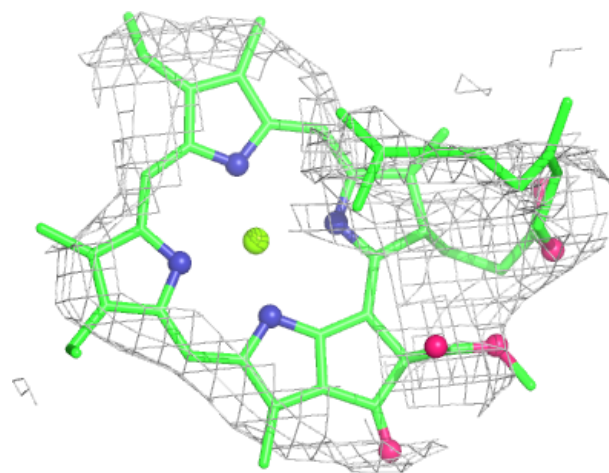
Electron density around CLA A 1013:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



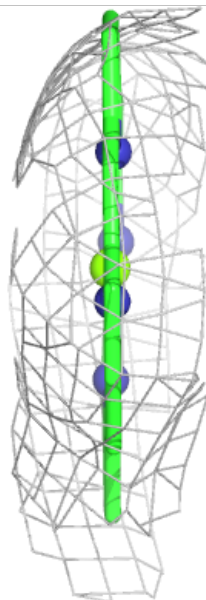
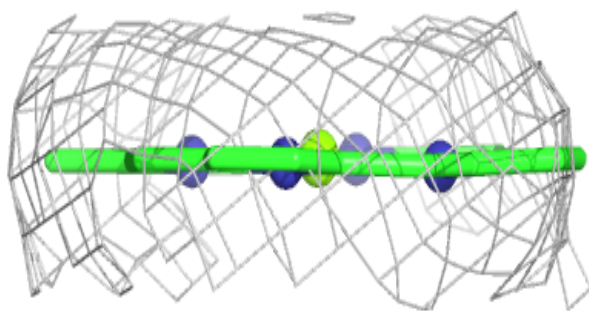
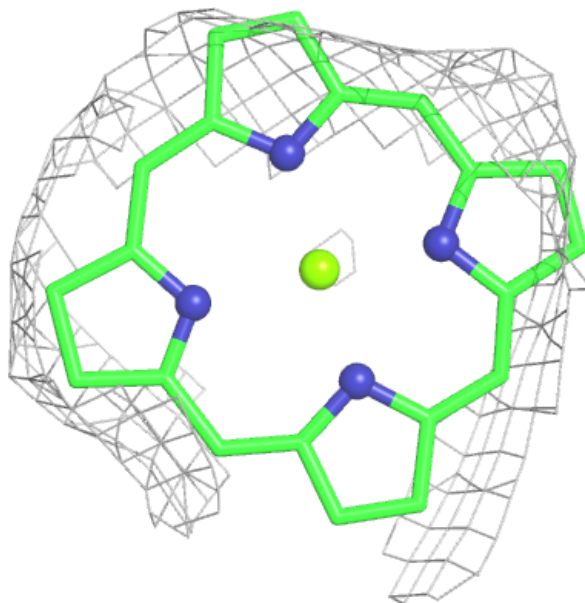
Electron density around CLA A 1104:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



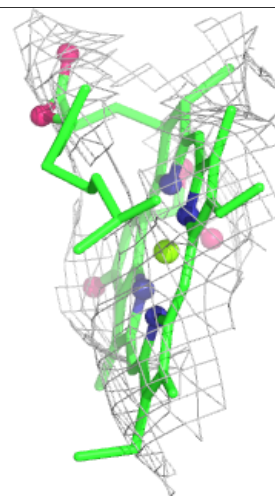
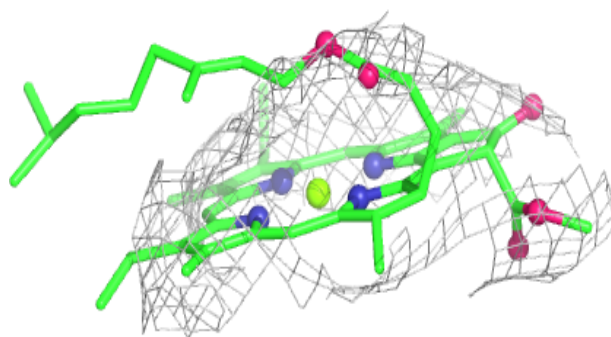
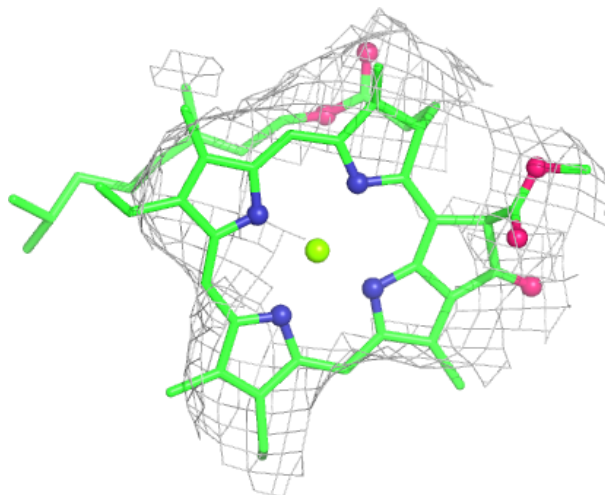
Electron density around CLA 4 605:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



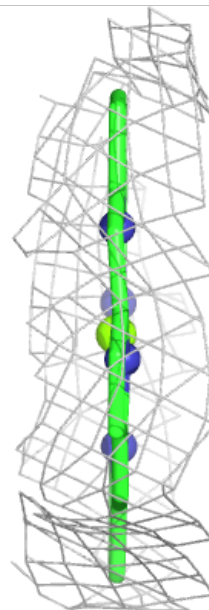
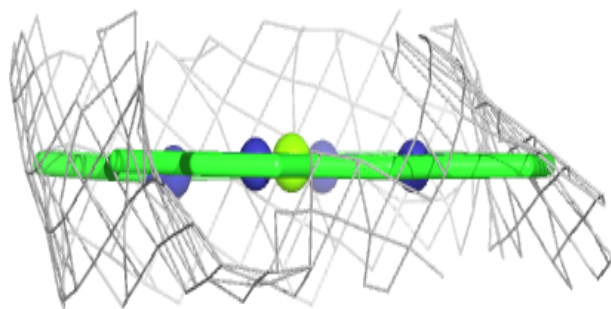
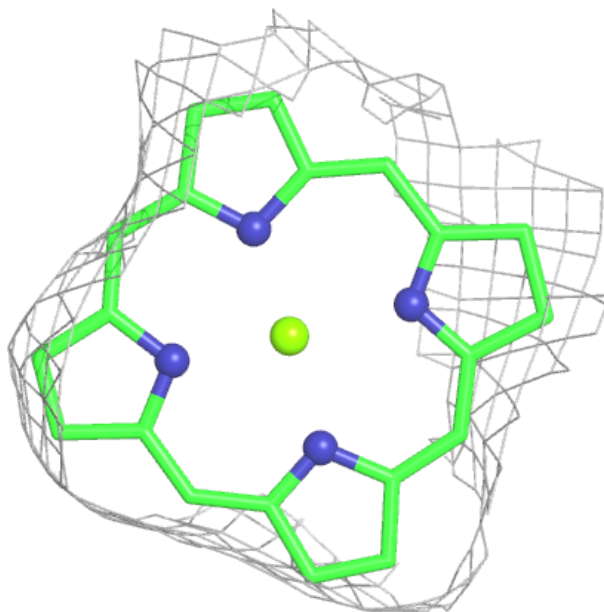
Electron density around CLA A 1117:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



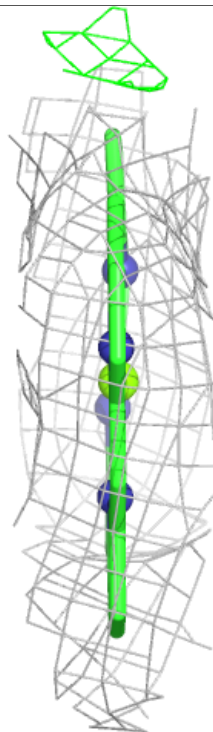
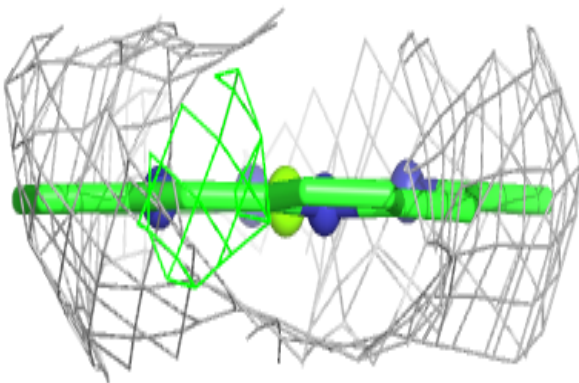
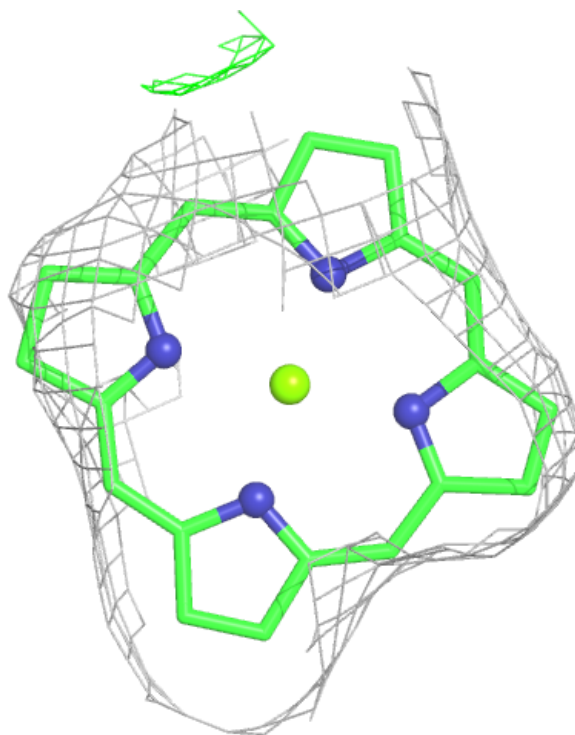
Electron density around CLA B 1222:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



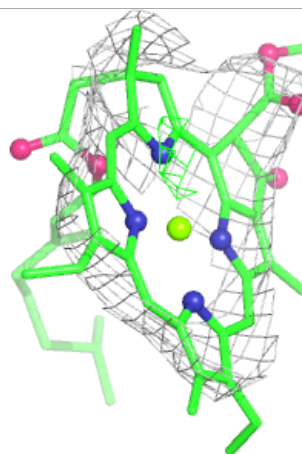
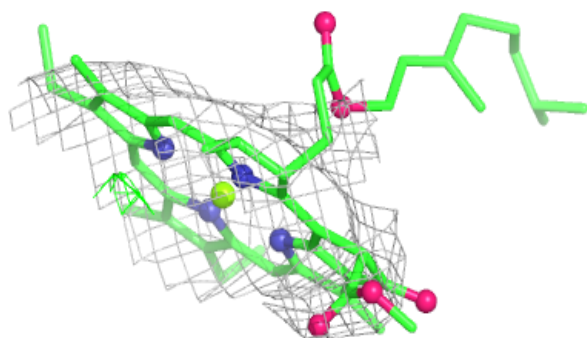
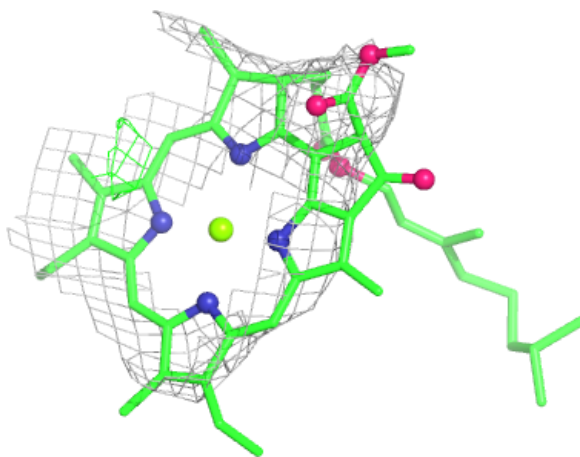
Electron density around CLA A 1124:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



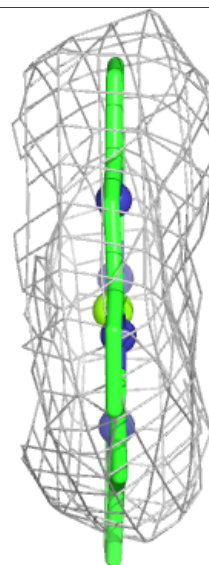
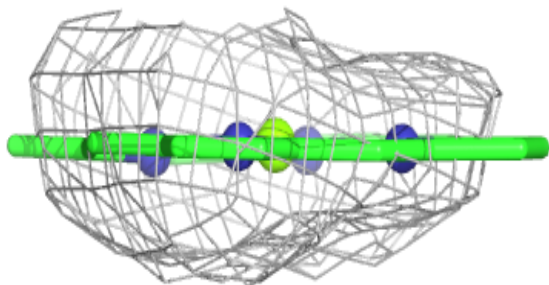
Electron density around CLA B 1224:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



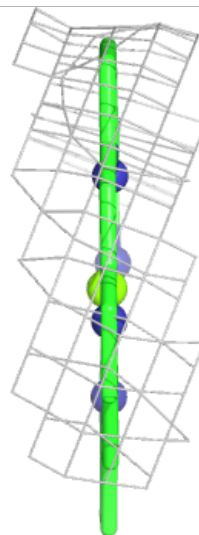
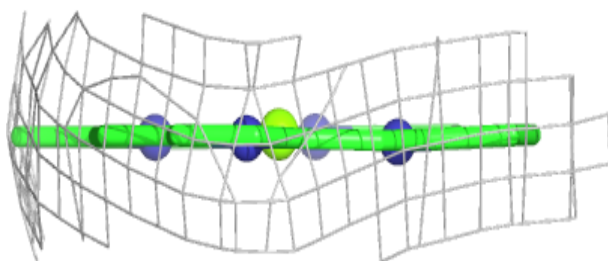
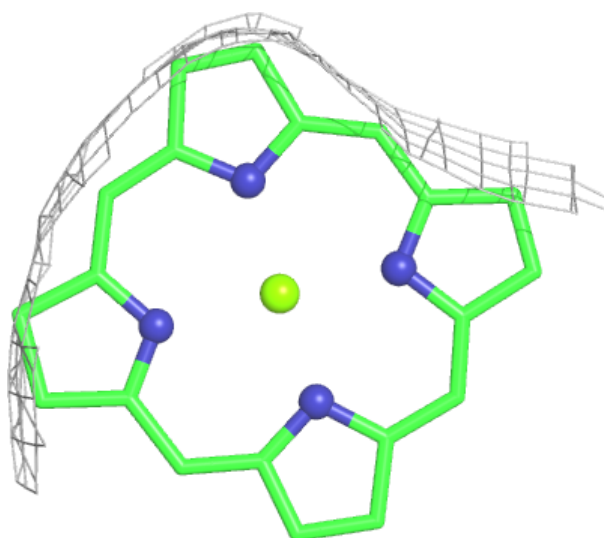
Electron density around CLA 3 610:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



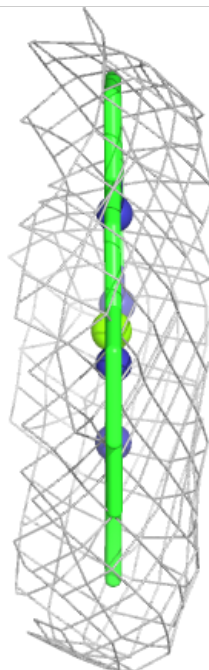
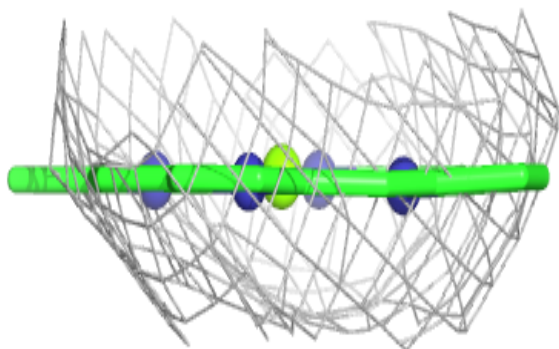
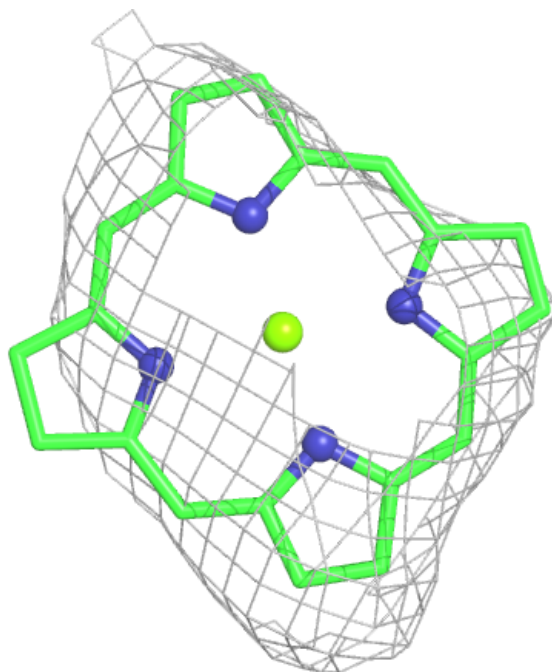
Electron density around CLA B 1211:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



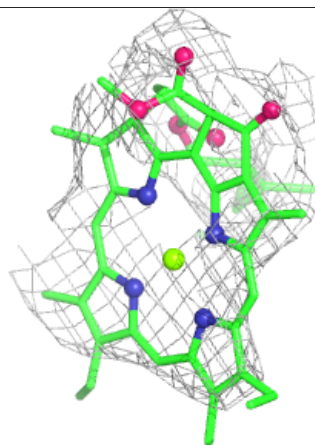
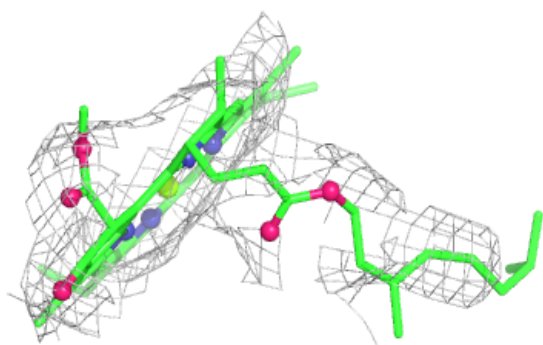
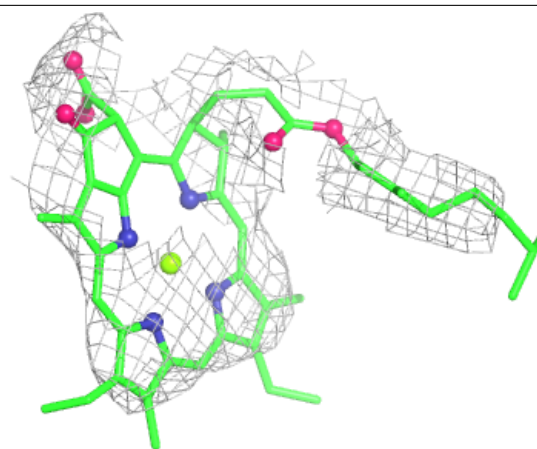
Electron density around CLA B 1206:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



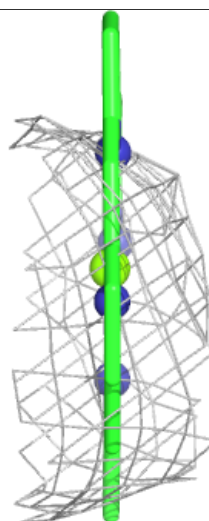
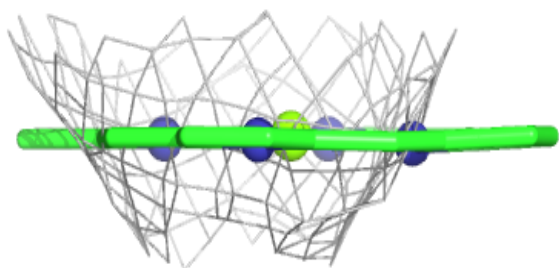
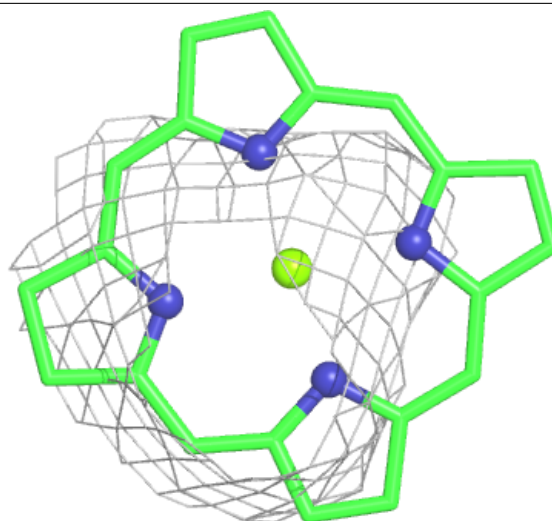
Electron density around CLA A 1106:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)



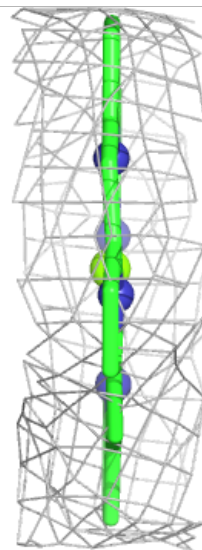
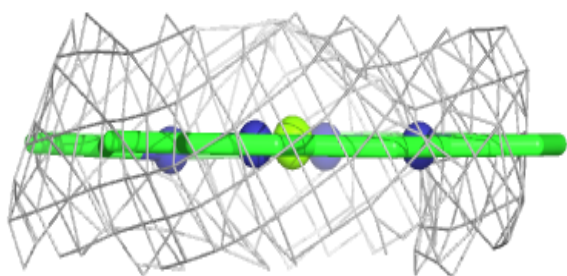
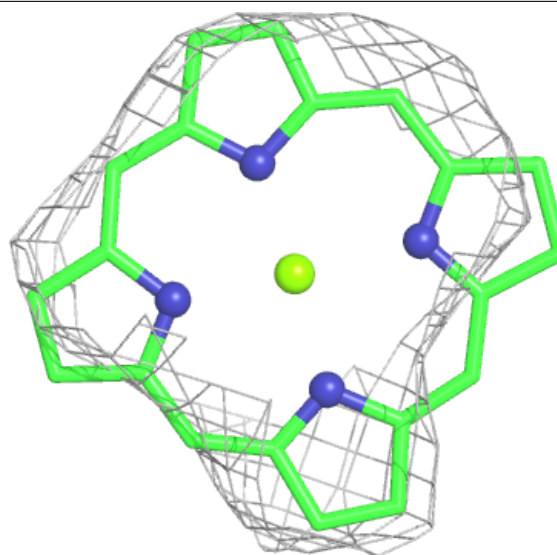
Electron density around CLA B 1205:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



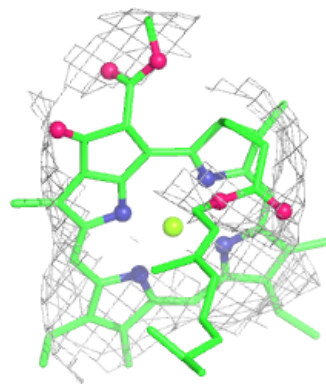
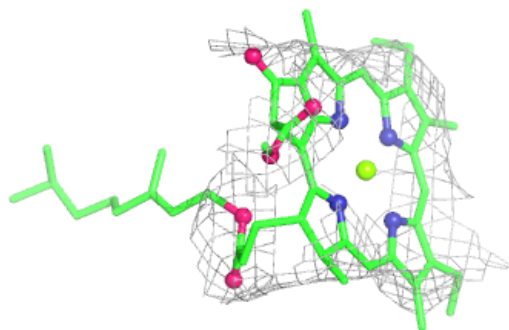
Electron density around CLA A 1136:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



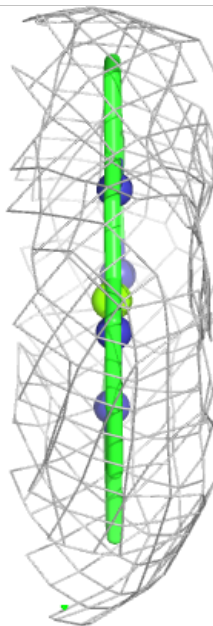
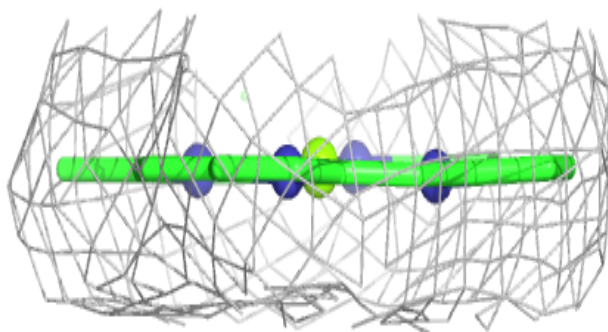
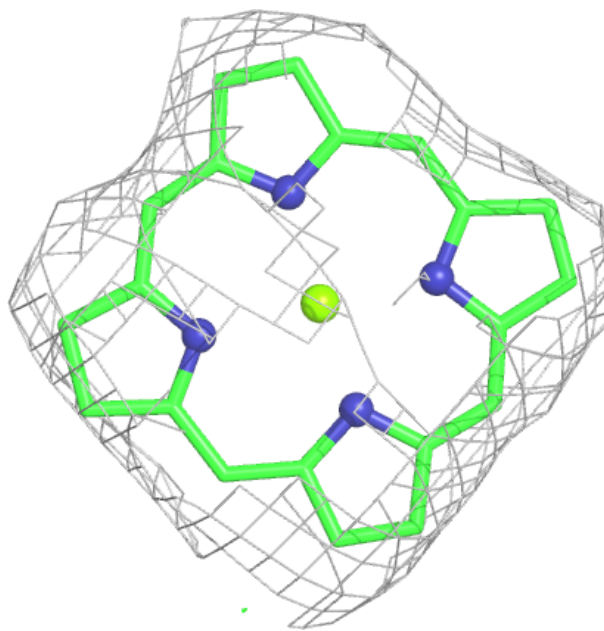
Electron density around CLA A 1126:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA A 1140:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers ⓘ

There are no such residues in this entry.