

## Supporting Information

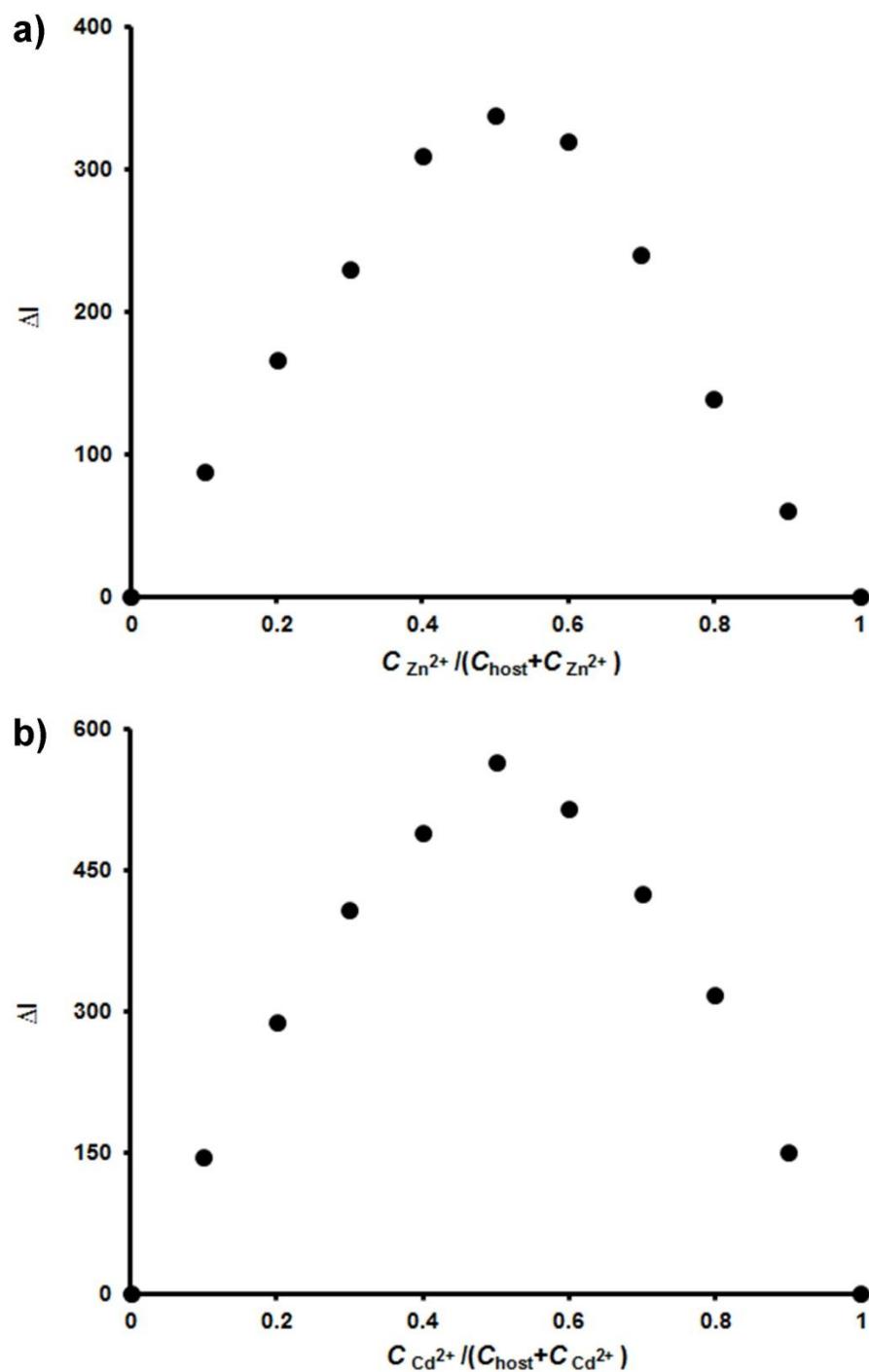
### A fluorescence-enhanced chemosensor based on mutifarene[2,2] and its recognition for metal cations

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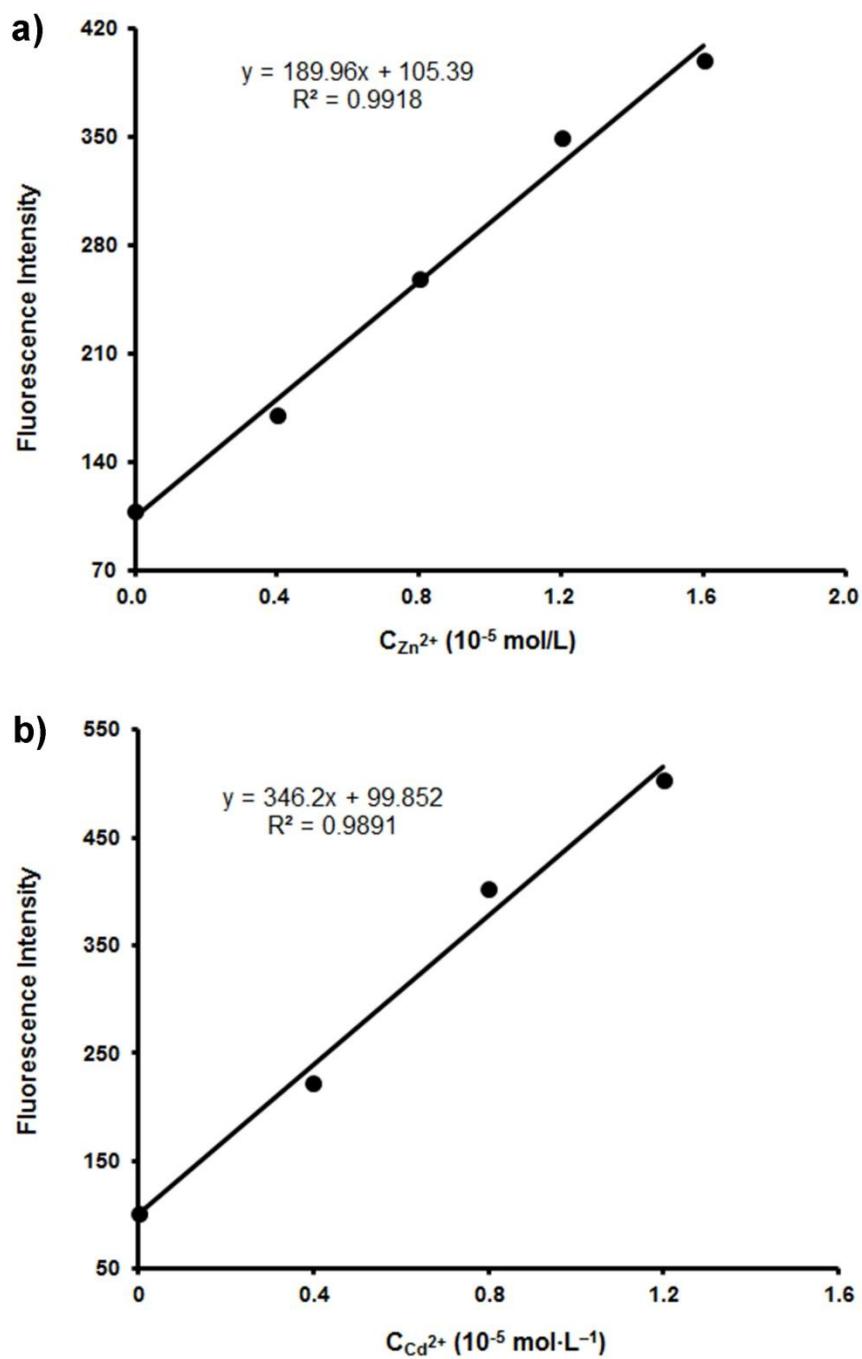
Key Laboratory of Macroyclic and Supramolecular Chemistry of Guizhou Province, Guizhou University, Guiyang 550025, China. E-mail: [hcong@gzu.edu.cn](mailto:hcong@gzu.edu.cn)

School of Materials and Metallurgical Engineering, Guizhou Institute of Technology, Guiyang 550001, China.

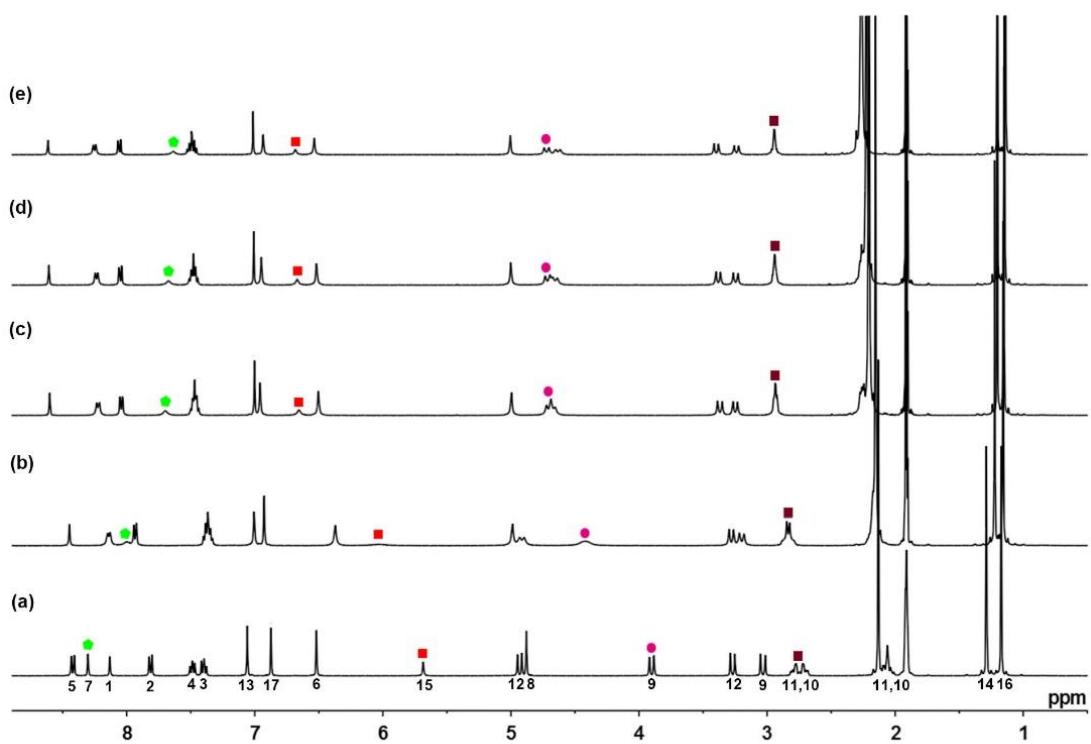
Title, authors and description of supporting information contents  
Figure S1 Job's plots of coordination of compound **5** to Zn<sup>2+</sup> and Cd<sup>2+</sup>  
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Figure S14 HRMS spectra of compound **2**  
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Figure S17 HRMS spectra of compound **3**  
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Figure S20 HRMS spectra of compound **4**  
Figure S21 <sup>1</sup>H NMR spectra of compound **5**  
Figure S22 <sup>13</sup>C NMR spectra of compound **5**  
Figure S23 HRMS spectra of compound **5**  
Coordinates of the optimized structures



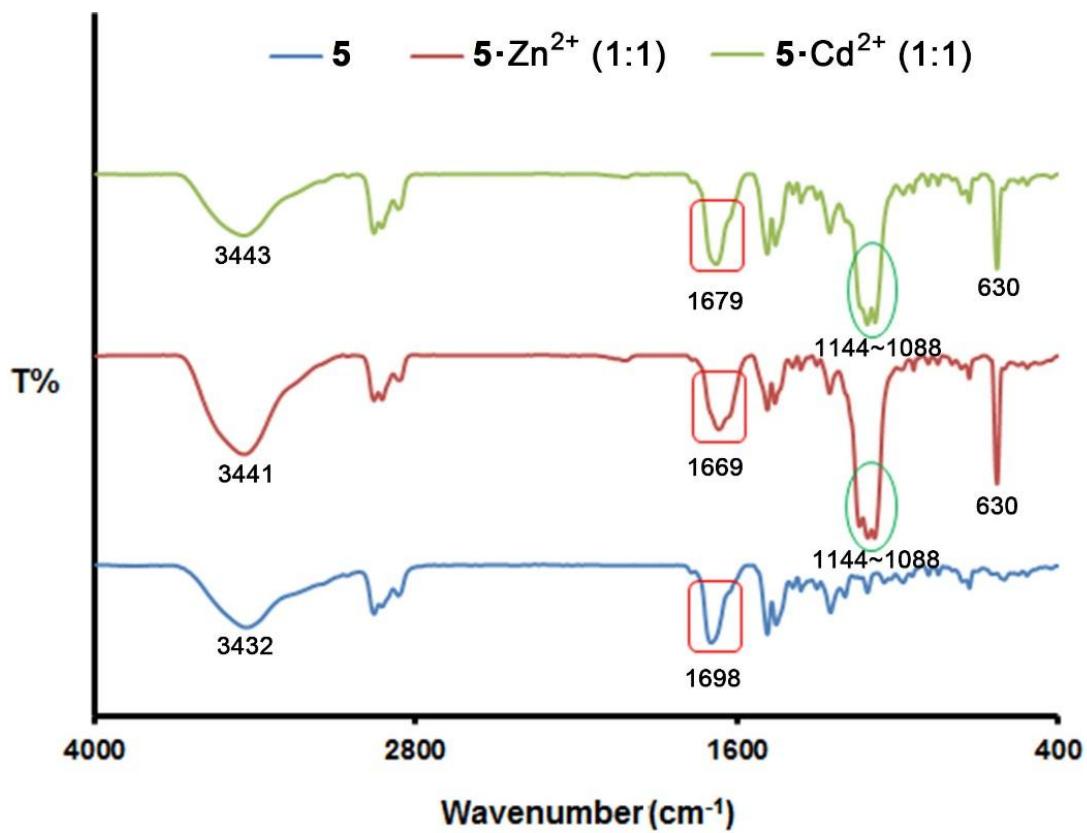
**Figure S1.** Job's plots of the interaction between **5** and a)  $\text{Zn}^{2+}$ ; b)  $\text{Cd}^{2+}$ . The total concentration of the reactants was  $2.0 \times 10^{-5} \text{ mol} \cdot \text{L}^{-1}$ . ( $\lambda_{\text{em}} = 416 \text{ nm}$ ,  $\lambda_{\text{ex}} = 366 \text{ nm}$ )



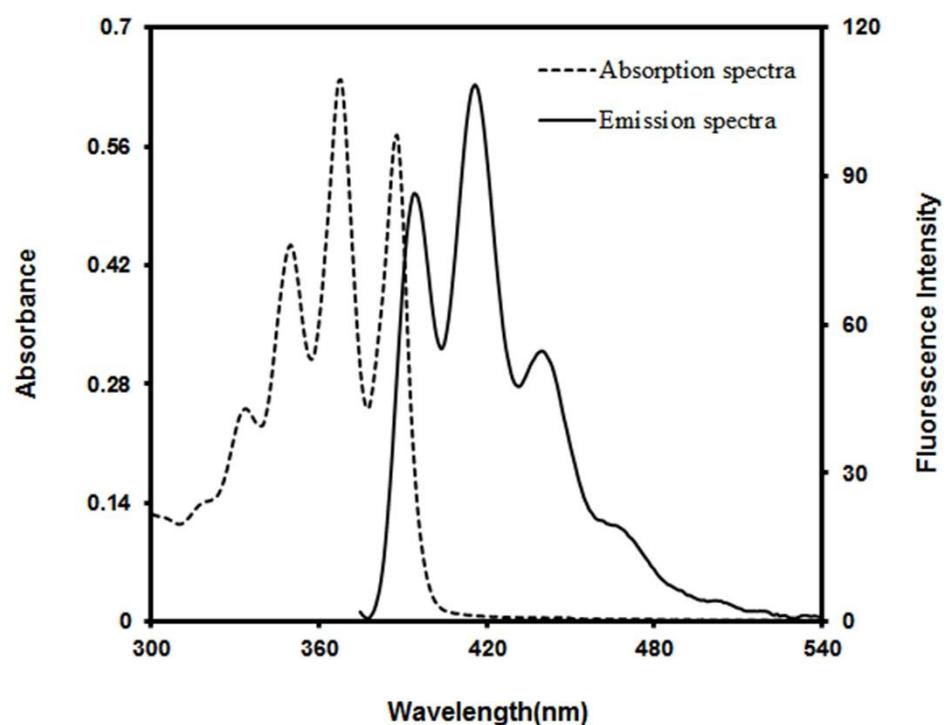
**Figure S2.** Linear dynamic response of **5** to a)  $Zn^{2+}$ ; b)  $Cd^{2+}$ .



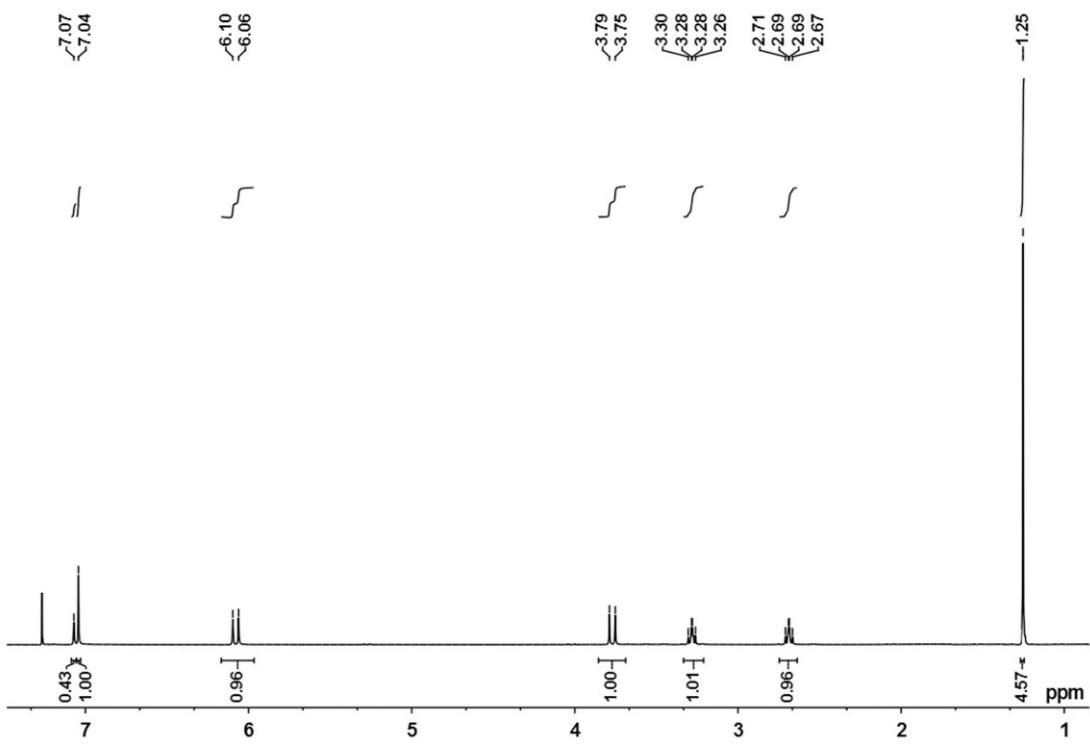
**Figure S3.**  $^1\text{H}$  NMR titration spectra (400 MHz,  $\text{CD}_3\text{CN}$ ) of **5** ( $5.0 \times 10^{-3} \text{ mol}\cdot\text{L}^{-1}$ ) in the presence of increasing amounts of  $\text{Cd}^{2+}$ . (a) Free **5**, (b c d and e) in the presence of 0.5, 1.0, 1.5, and 2.0 equiv. of  $\text{Cd}^{2+}$ , respectively.



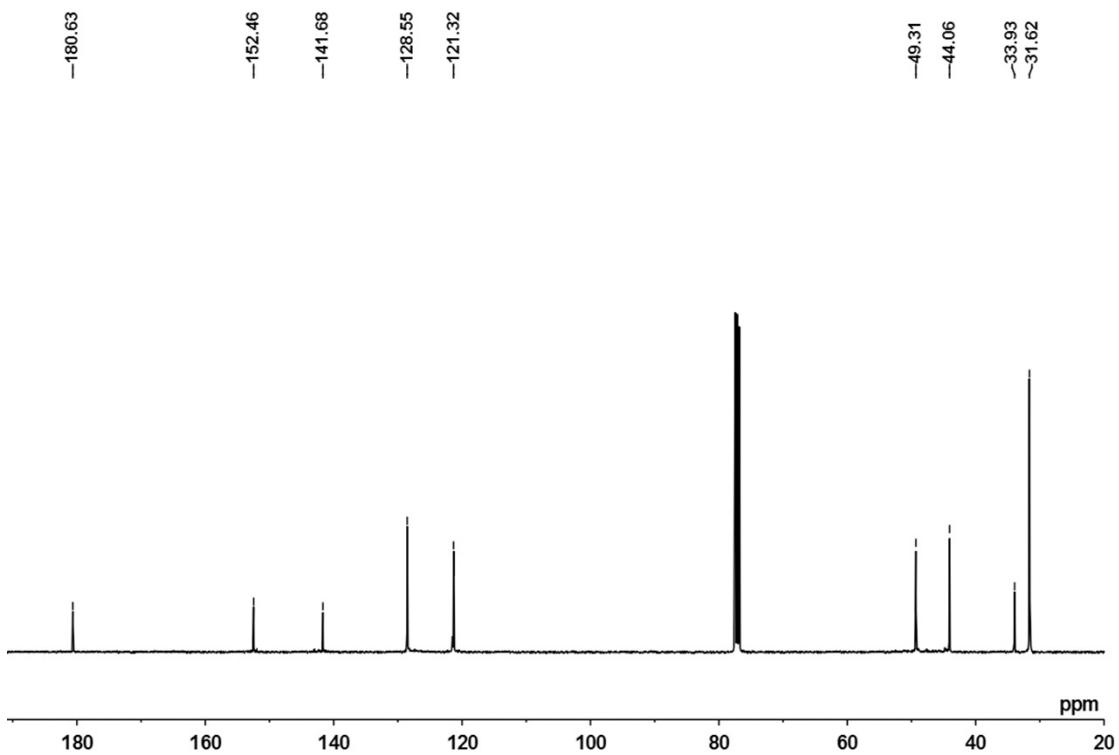
**Figure S4.** IR spectra of **5** and its coordination complexes with  $Zn^{2+}$  or  $Cd^{2+}$ .



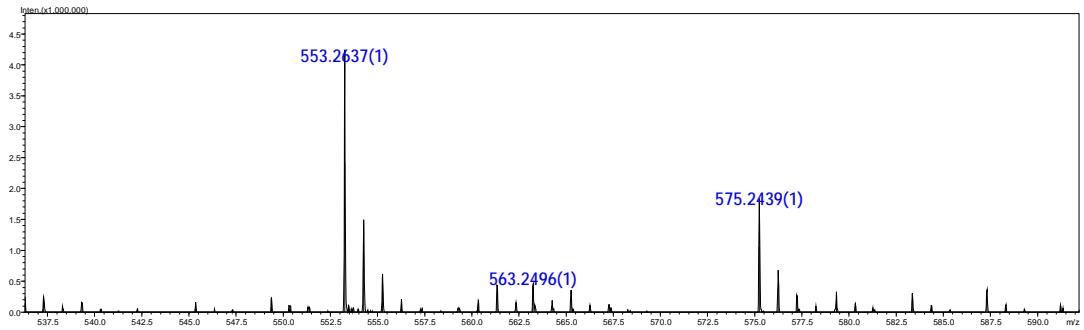
**Figure S5.** UV-Vis absorption (dash,  $1.0 \times 10^{-4}$  mol·L<sup>-1</sup>) and fluorescence emission (solid,  $2.0 \times 10^{-5}$  mol·L<sup>-1</sup>) spectra of **5** in CH<sub>3</sub>CN.



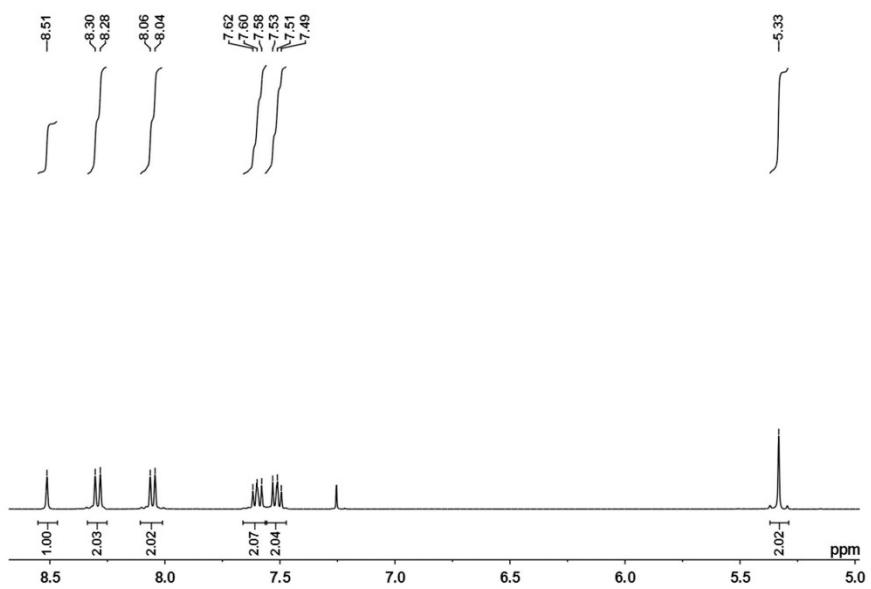
**Figure S6.** <sup>1</sup>H NMR spectra (400 MHz, CDCl<sub>3</sub>) of compound **1**.



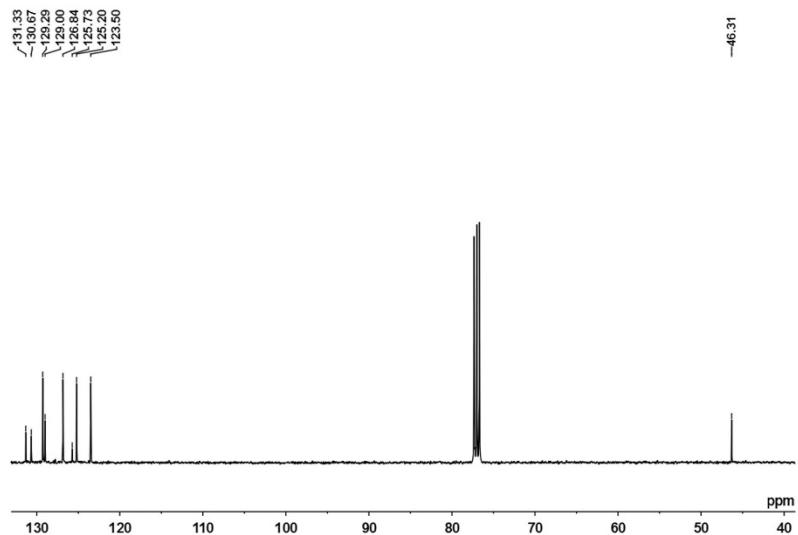
**Figure S7.** <sup>13</sup>C NMR spectra (400 MHz, CDCl<sub>3</sub>) of compound **1**.



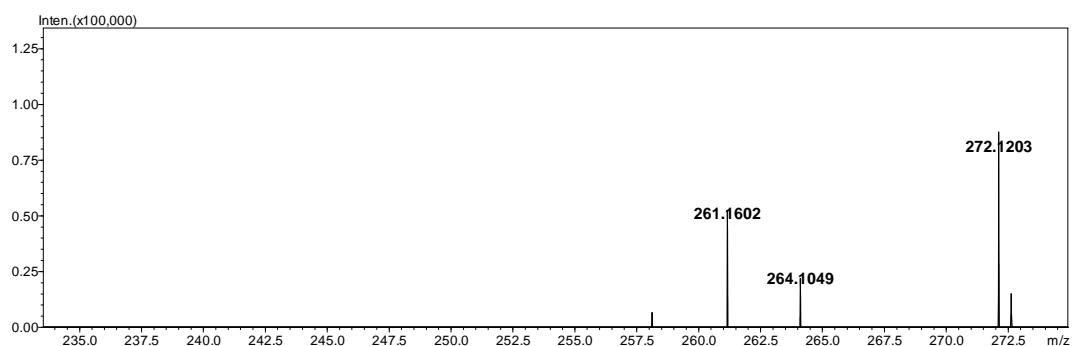
**Figure S8.** HRMS spectra of compound **1**.



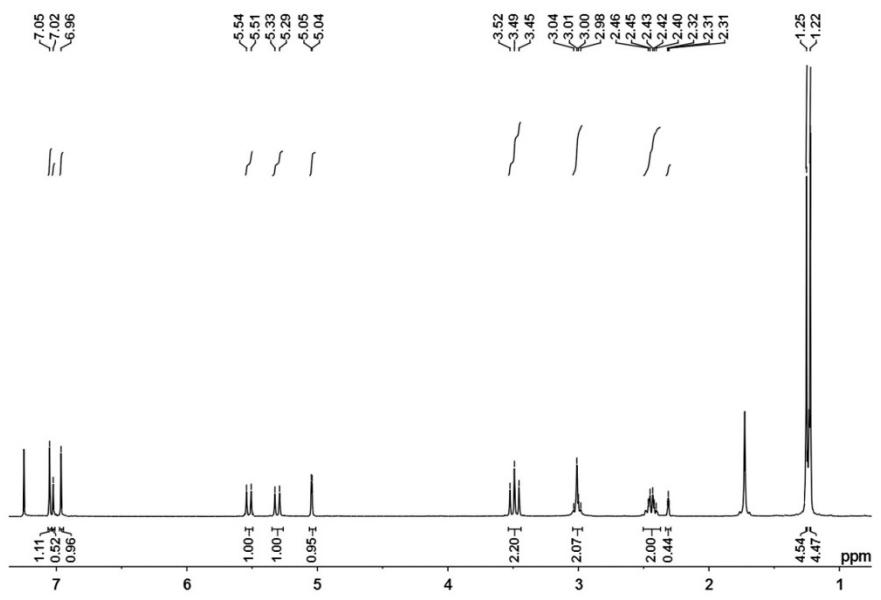
**Figure S9.**  ${}^1\text{H}$  NMR spectra (400 MHz,  $\text{CDCl}_3$ ) of 9-azidomethylanthracene.

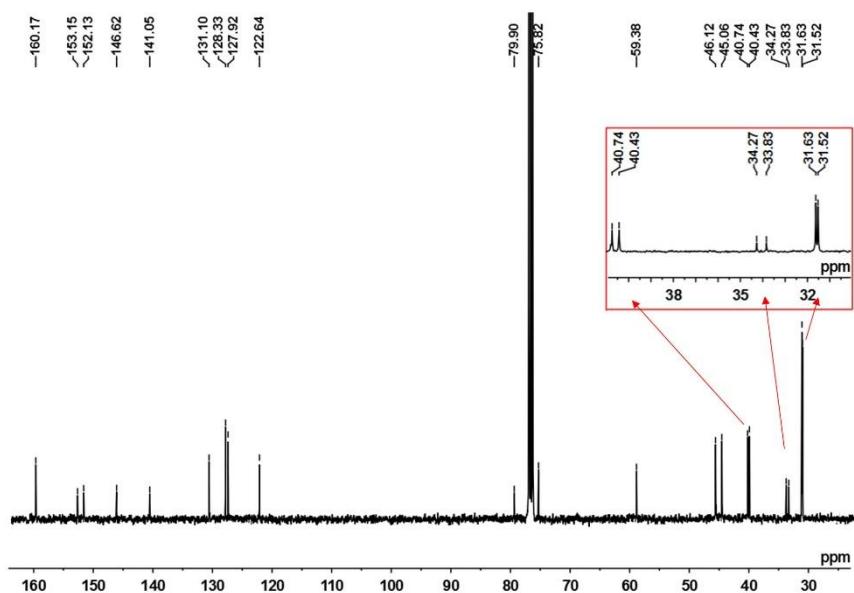


**Figure S10.**  $^{13}\text{C}$  NMR spectra (400 MHz, CDCl<sub>3</sub>) of 9-azidomethylanthracene.

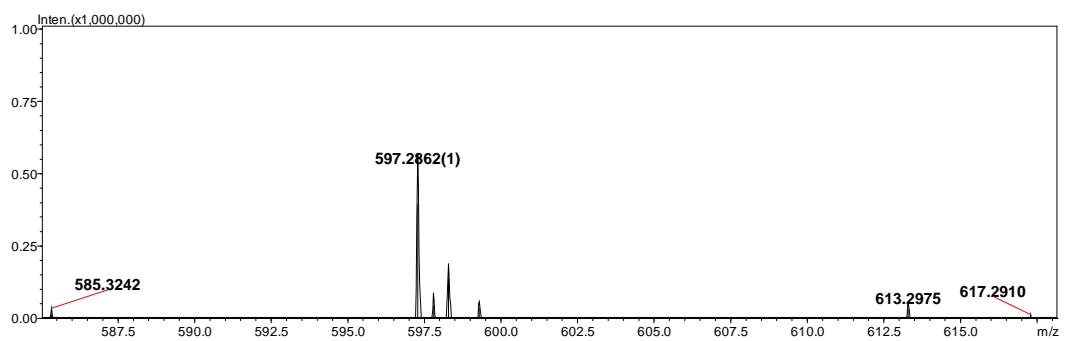


**Figure S11.** HRMS spectra of 9-azidomethylanthracene.

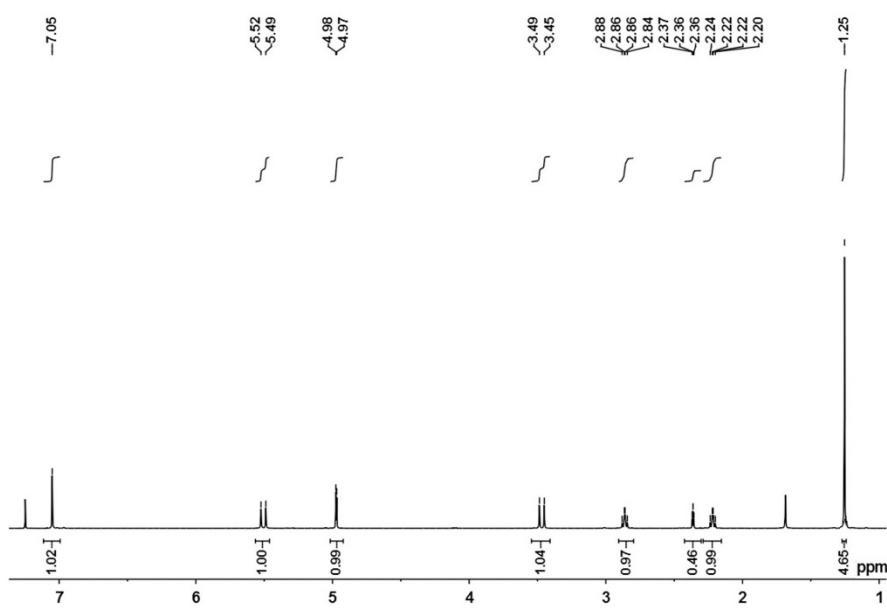




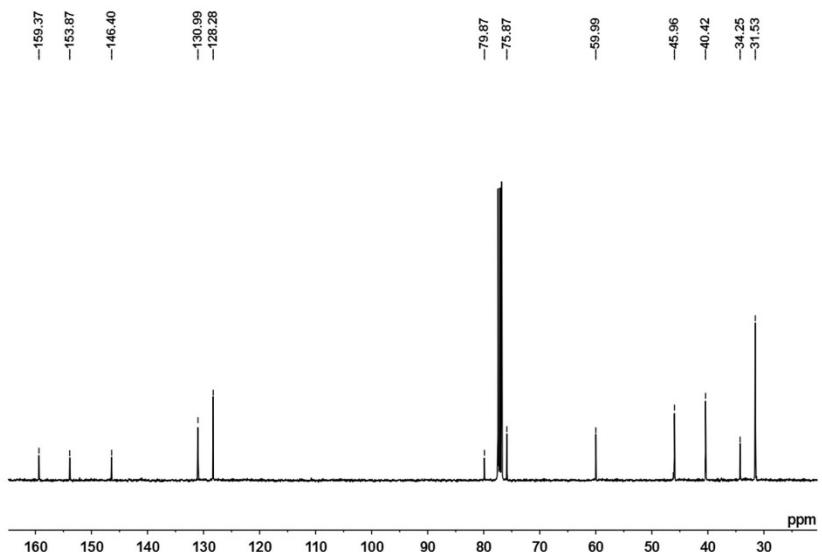
**Figure S13.**  $^{13}\text{C}$  NMR spectra (400 MHz,  $\text{CDCl}_3$ ) of compound 2.



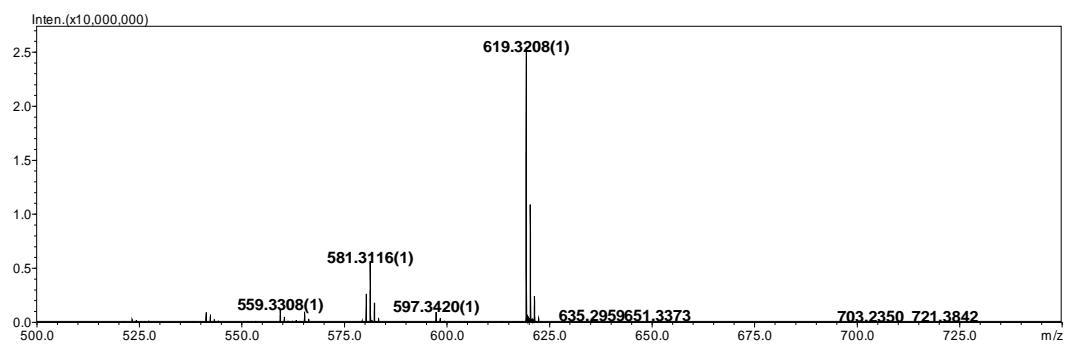
**Figure S14.** HRMS spectra of compound 2.



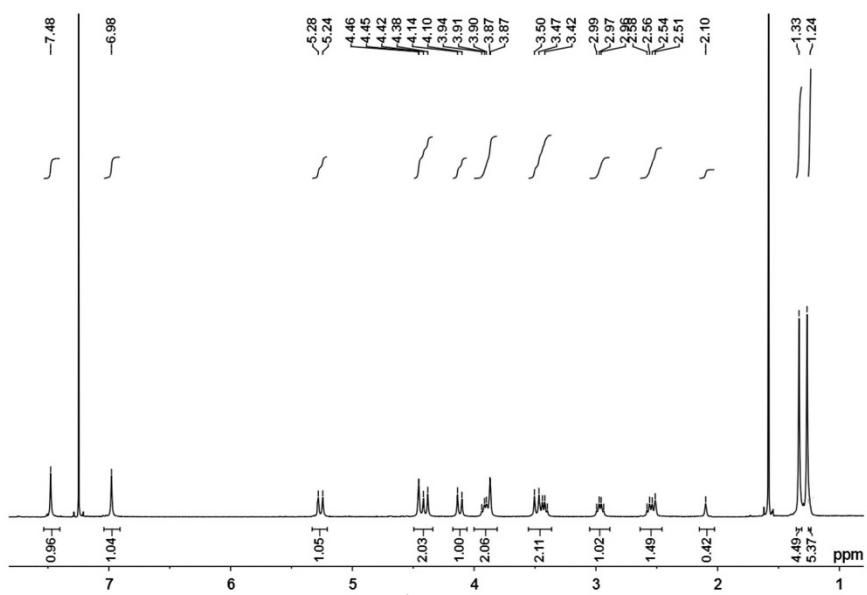
**Figure S15.**  $^1\text{H}$  NMR spectra (400 MHz,  $\text{CDCl}_3$ ) of compound **3**.



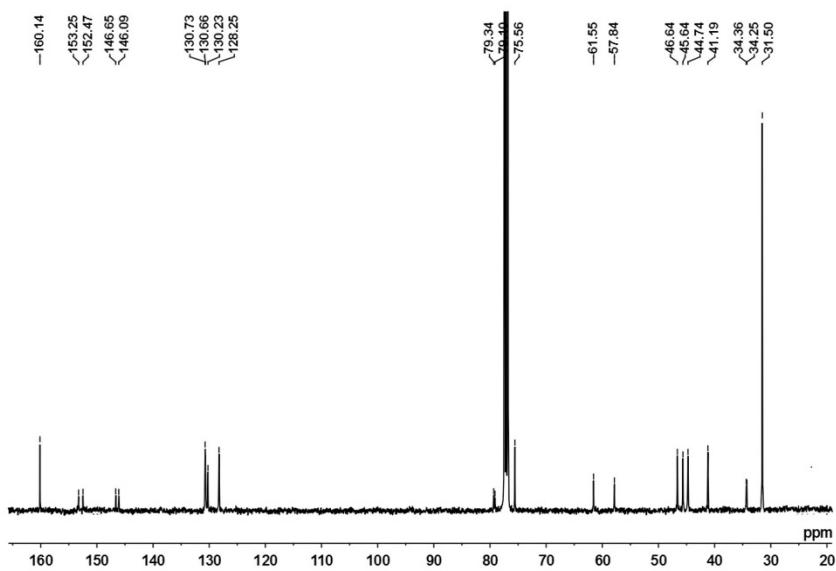
**Figure S16.** <sup>13</sup>C NMR spectra (400 MHz, CDCl<sub>3</sub>) of compound 3.



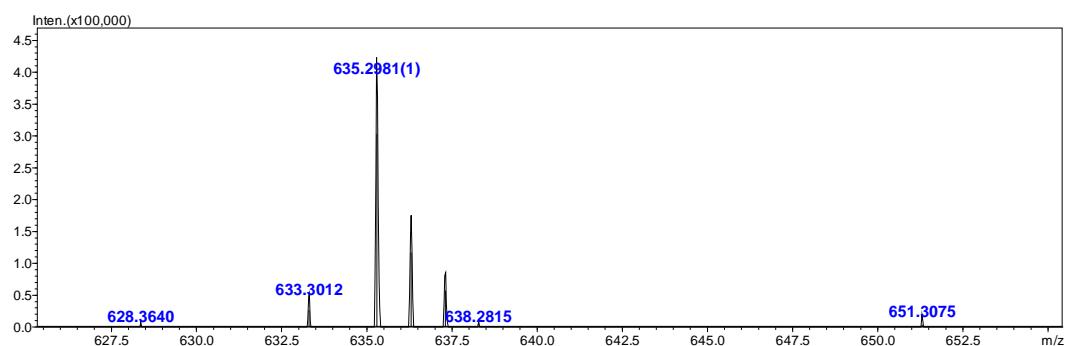
**Figure S17.** HRMS spectra of compound 3.



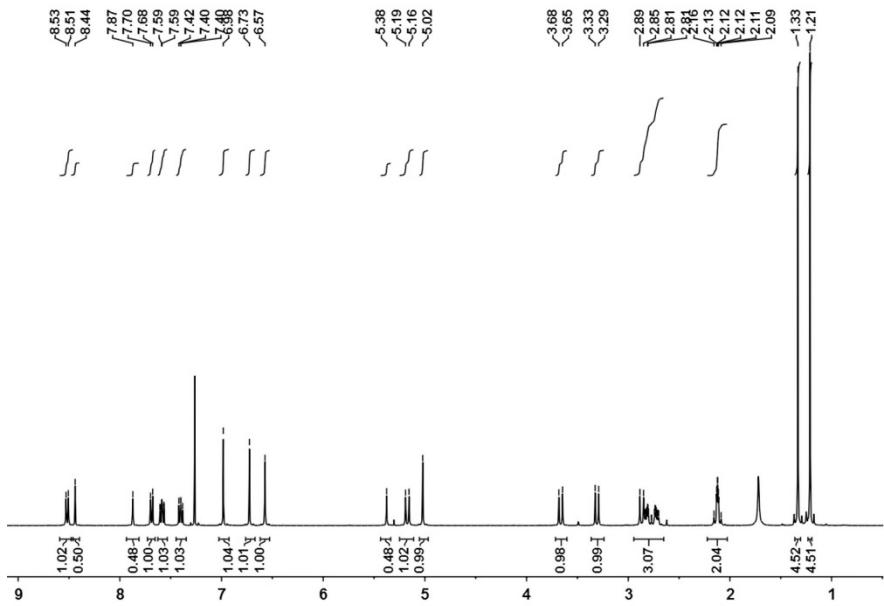
**Figure S18.** <sup>1</sup>H NMR spectra (400 MHz, CDCl<sub>3</sub>) of compound 4.



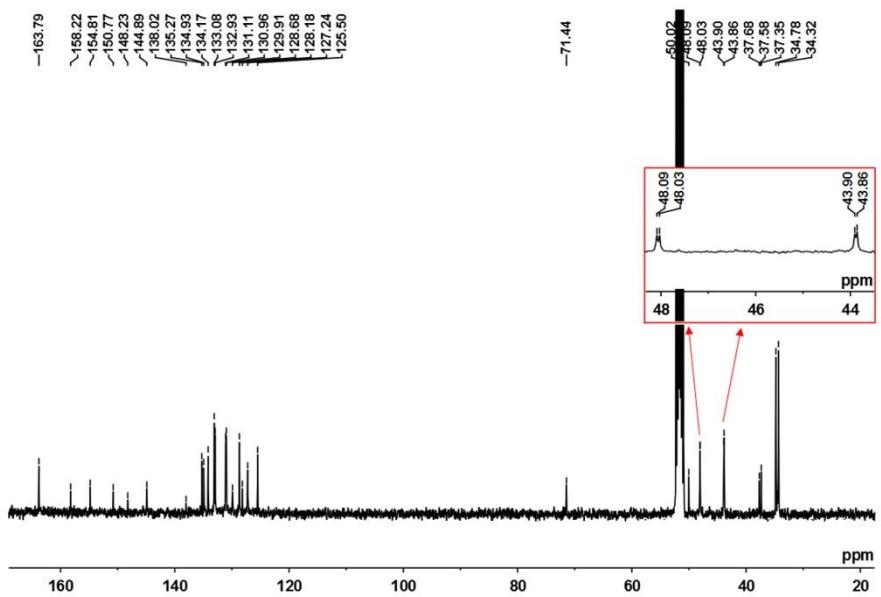
**Figure S19.** <sup>13</sup>C NMR spectra (400 MHz, CDCl<sub>3</sub>) of compound 4.



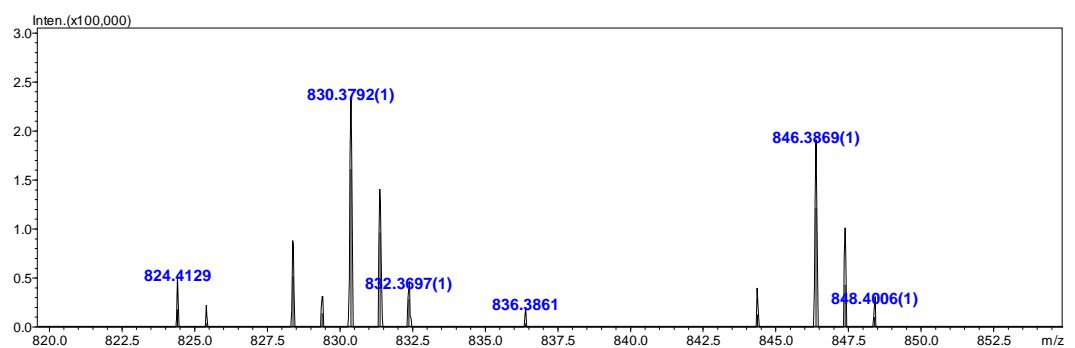
**Figure S20.** HRMS spectra of compound 4.



**Figure S21.**  $^1\text{H}$  NMR spectra (400 MHz,  $\text{CDCl}_3$ ) of compound 5.



**Figure S22.**  $^{13}\text{C}$  NMR spectra (400 MHz,  $\text{CD}_3\text{OD}$ ) of compound 5.



**Figure S23.** HRMS spectra of compound 5.

## Coordinates of the optimized structures

### 1.Compound 5

Atomic Symbol	Coordinates (Angstroms)		
	X	Y	Z
S	0.64471500	-0.30930200	-3.14527100
S	-0.76598500	0.45021800	3.68949900
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O	-1.53568700	1.19868700	0.24428300
N	-1.77176800	0.82798200	-2.63375700
N	-1.78602600	-1.38862300	-2.56195800
N	-2.78233600	-0.96414600	2.53969300
N	-3.12336000	1.22618100	2.56093600
C	-0.99182400	-0.28358800	-2.74638200
C	-3.18741400	0.48453500	-2.57223900
H	-3.66517800	0.65198100	-3.54896700
H	-3.70848000	1.09078700	-1.82877400
C	-3.15135600	-1.00436900	-2.20004600
H	-3.32357200	-1.15156600	-1.12792700
H	-3.88867200	-1.59453100	-2.75413300
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H	-0.17366900	-2.62422800	-2.27258000
H	-1.53438200	-3.41086900	-3.08230200
C	-1.78876000	-3.29227700	-0.96162500
C	-1.51446700	-2.66464400	0.26608700
C	-2.18087000	-3.08104700	1.43807200
C	-2.98954900	-4.21961900	1.36843100
H	-3.48570600	-4.53735700	2.28214400
C	-3.20497200	-4.93656600	0.18224600
C	-2.62031500	-4.41880000	-0.97797500
H	-2.80544300	-4.89037300	-1.93720700
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C	-3.47148500	-7.24498300	1.14989000
H	-3.39613600	-6.86406400	2.17264200
H	-2.46544300	-7.52962700	0.82521000
H	-4.08914300	-8.14972400	1.17574400
C	-4.20280700	-6.83830400	-1.20592400
H	-4.67379800	-6.16266400	-1.92748700
H	-4.82155300	-7.73942700	-1.14832100
H	-3.22531200	-7.13349400	-1.60081700
C	-5.51134200	-5.83760500	0.67449600
H	-5.50567400	-5.42023300	1.68576600
H	-6.14751400	-6.72962900	0.68807300

H	-5.97539300	-5.10069300	0.01064000
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H	-1.74747700	2.70952400	2.86588700
H	-3.42500100	3.25420800	2.97021500
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C	-2.01035200	2.43488600	-0.05212100
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H	0.42776300	-1.48523800	2.00109100
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H	8.53268300	-3.53517700	-2.41464100
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C	7.03569900	2.39745300	3.14514300
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C	5.80290900	2.79409900	2.55559900
H	5.21760700	3.58156800	3.02058700
C	5.33921700	2.18948400	1.41579600
H	8.70827000	1.07048900	3.02196000
H	4.38137400	2.49736800	1.01281700
H	3.47404900	-1.59077300	-0.15532400

Total energy: -3191.7530147 a.u.

2.  $\text{5}\cdot\text{Zn}^{2+}$

Atomic Symbol	Coordinates (Angstroms)		
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N	-1.33904200	0.33049500	2.65562300
N	-2.14872900	1.69745000	-2.54347500
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H	-1.62133700	3.64065500	2.98000800
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H	-3.53830800	6.62088700	3.17206000
H	-1.97376500	5.85149400	3.40354000
H	-4.25298100	5.42123200	-0.26877300
H	-4.86794400	6.31482000	1.11794600
H	-4.75105700	4.55266500	1.19541400
H	-1.20072400	3.51640300	-2.87942200
H	-0.13407100	2.14174700	-2.57143900
H	-3.80870700	2.91231900	-3.00919600
H	-3.70157300	2.41105900	-1.31035200
H	-5.03024200	0.52383600	-1.89850700
H	-4.82956400	0.85153500	-3.63236900

H	-2.61892800	-2.14477500	-3.08521600
H	-4.25696600	-1.77795100	-3.64535400
H	-5.59944700	-3.08463200	1.90753300
H	-6.13654400	-2.01087000	-2.19598800
H	-7.63985100	-4.72786400	-0.82280700
H	-7.88152600	-3.47059000	-2.04287200
H	-9.18090400	-3.86532200	-0.91959500
H	-7.88345800	-0.57292200	0.38820300
H	-9.32046900	-1.40604000	-0.21808400
H	-8.01340600	-1.00275000	-1.32805500
H	-7.61230000	-4.11184000	1.67440800
H	-9.11115300	-3.22020300	1.44215400
H	-7.72973900	-2.40560400	2.16563700
H	-2.03803800	-3.47117800	1.85234500
H	-3.47526500	-3.32335000	2.83142100
H	1.82644500	2.40435400	-1.14108000
H	2.09295800	2.10011300	0.58773800
H	4.82015100	1.01899000	-0.73220400
H	5.24216700	-2.72184500	-1.28031000
H	5.67244500	-1.51656600	-2.47580400
H	4.92274100	-3.02469100	0.71528500
H	5.24454600	-3.93364600	2.92948900
H	8.73348600	-1.51937100	3.52032500
H	9.45818500	0.00124500	1.77165200
H	7.14971700	-3.20955600	4.35526500
H	10.21770100	1.55850900	0.08068100
H	9.96059200	2.59625400	-2.13719900
H	8.09114000	1.89660600	-3.62196400
H	6.52449000	0.19462400	-2.94285600

Total energy: -3256.9546298 a.u.

3. **5·Cd<sup>2+</sup>**

Atomic Symbol	Coordinates (Angstroms)		
	X	Y	Z
S	0.26663400	-1.89323200	1.24320800
S	-1.01812700	-0.27257400	-3.42009900
O	0.50085600	1.21147500	-0.63129800
O	-2.09870100	-2.35976900	-0.76280400
N	-2.16512300	-1.55015700	2.42124300
N	-0.91560400	0.25786900	2.42639300
N	-2.41304800	1.87274200	-2.48621400
N	-3.58180900	0.01185100	-2.56839600
C	-0.99813100	-1.01903400	2.03398900
C	-3.02545200	-0.53748900	3.03823300
C	-2.05966500	0.62545700	3.26515300
C	0.17600900	1.20620900	2.20150200
C	-0.32348000	2.32911800	1.31445300
C	-0.28819000	2.21208100	-0.06981200
C	-1.01132700	3.07554900	-0.89194300
C	-1.64298900	4.16029500	-0.29580500
C	-1.60780200	4.39181800	1.08231600
C	-0.96726400	3.43632400	1.86759000
C	-2.29453500	5.62868100	1.66601800
C	-1.66838500	6.88900000	1.04121100
C	-2.13841500	5.71051000	3.18886300
C	-3.79649800	5.57436600	1.32989300
C	-1.25981700	2.76353900	-2.35571800
C	-2.38398000	0.56157700	-2.76896900
C	-3.72659500	2.26398600	-1.96425200
C	-4.58563200	1.03125100	-2.25834500
C	-3.94824900	-1.39930000	-2.67997600
C	-4.37491300	-1.91956800	-1.32642100
C	-3.42920400	-2.29956500	-0.37899000
C	-3.79669300	-2.61143200	0.92510500
C	-5.15405900	-2.62658900	1.24704700
C	-6.14319800	-2.31969900	0.31728700
C	-5.71443500	-1.94677600	-0.95966700
C	-7.63935600	-2.36566600	0.63921800
C	-8.31320000	-3.39299000	-0.28901600
C	-8.25346900	-0.97323100	0.40672000
C	-7.90324600	-2.77580900	2.09266500
C	-2.75153900	-2.82299800	2.00488700
C	1.81151900	1.67550300	-1.02269400
C	2.69718600	0.49109400	-1.23319500

C	4.06141600	0.36641700	-1.19330700
N	2.19676000	-0.73053900	-1.53465400
N	3.16486100	-1.59281300	-1.67366200
N	4.28559900	-0.93410700	-1.48045600
C	5.58824800	-1.62815500	-1.54893100
C	6.48439700	-1.20416900	-0.41815300
C	6.29364200	-1.78340900	0.85128800
C	7.47578500	-0.22691400	-0.62841400
C	5.26427300	-2.73794200	1.13302300
C	7.15870100	-1.40750100	1.92835600
C	8.33158800	0.14012900	0.46338200
C	5.12765200	-3.28020900	2.37480100
C	6.98533300	-2.00522500	3.21386500
C	8.15783500	-0.46444300	1.70377700
C	6.00109600	-2.91566900	3.43443700
C	9.34826700	1.12441500	0.26367600
C	9.50834100	1.73199800	-0.94014100
C	8.65522700	1.38605100	-2.02297600
C	7.68097200	0.44632500	-1.87723500
Cd	-0.05377900	-1.03316400	-1.19879000
H	-1.64157400	-2.97944100	-0.18147100
H	-3.45704100	-0.91944200	3.96385800
H	-3.83748100	-0.27999900	2.35150000
H	-2.47716300	1.58194700	2.95166900
H	-1.73322800	0.70468200	4.30641200
H	1.00824800	0.66069900	1.76031500
H	0.49683200	1.59384500	3.17190600
H	-2.18694000	4.84738300	-0.93615800
H	-0.95341700	3.54702300	2.94557500
H	-1.80314500	6.92065000	-0.04289900
H	-0.59734000	6.94247300	1.25224200
H	-2.13946000	7.78294900	1.45649900
H	-2.60698400	4.86190600	3.69704900
H	-2.62803700	6.61456600	3.55573200
H	-1.08828500	5.76572200	3.48918300
H	-3.97637000	5.57953700	0.25155300
H	-4.30407400	6.44618200	1.74899000
H	-4.26217000	4.67882300	1.75262400
H	-1.47585900	3.68227700	-2.90512900
H	-0.41655100	2.27169800	-2.83707000
H	-4.08596400	3.16073300	-2.47041000
H	-3.65406300	2.47197500	-0.89298300
H	-5.19446500	0.72753600	-1.40636400
H	-5.23677900	1.17094800	-3.12598500

H	-3.08754800	-1.93658900	-3.07499800
H	-4.76599300	-1.48856600	-3.39932500
H	-5.43056000	-2.89018100	2.26123000
H	-6.45052500	-1.67627200	-1.71015700
H	-7.88448900	-4.38820500	-0.14673200
H	-8.20528300	-3.12656700	-1.34349600
H	-9.38243000	-3.45009400	-0.07126800
H	-7.78640400	-0.22464300	1.05393900
H	-9.32209800	-0.99367500	0.63313600
H	-8.14757200	-0.64548800	-0.63098900
H	-7.51062600	-3.77241900	2.31277500
H	-8.97985600	-2.80623200	2.27135200
H	-7.47659700	-2.06260700	2.80489100
H	-1.93652600	-3.48996300	1.71737400
H	-3.21756900	-3.27438000	2.88261900
H	1.71579800	2.26428400	-1.94035000
H	2.21078200	2.31999800	-0.23589000
H	4.86186600	1.05680800	-0.98389900
H	5.35465900	-2.69049700	-1.51894200
H	6.02012600	-1.42290300	-2.52577900
H	4.57458600	-3.04632100	0.35668900
H	4.34746000	-4.01005600	2.55863000
H	7.66332500	-1.71840900	4.01019000
H	8.81712900	-0.18821700	2.52078300
H	5.88098700	-3.37118200	4.40978100
H	9.99217700	1.37599000	1.09921600
H	10.28246200	2.47562400	-1.08376000
H	8.79138800	1.87308800	-2.98158200
H	7.06263500	0.21273500	-2.73564400

Total energy: -3239.4129483 a.u.