

TOPICS OF DIPLOMA DISSERTATION FOR MASTER STUDY in the academic year 2017/2018

Field of study: Chemistry

No.	SUPERVISOR	TOPIC OF DIPLOMA DISSERTATION	COMMENTS
ZB-1a Research Group of Organometallic Chemistry and Functional Materials <i>Head: Dr. Sławomir Szafert, D.Sc.</i>			
1.	dr hab. Sławomir Szafert	Modification of cage silicon compounds towards porous materials.	supporting supervisor: dr Łukasz John
2.	dr hab. Jolanta Ejfler	Functionalization of cage silsesquioxanes towards new biomaterials.	supporting supervisor: dr Łukasz John
3.	dr hab. Jolanta Ejfler	Benz/naphtaoxazines as active biological biopolymeric segments.	
4.	dr hab. Jolanta Ejfler	Hybrid carriers POSS-PLA for prodrug synthesis.	
5.	dr hab. Sławomir Szafert	Synthesis and characterization of σ -polyynyl complexes of iridium(III).	supporting supervisor: dr Bartłomiej Pigulski
6.	dr hab. Sławomir Szafert	Rhenium(I) - rhenium(III) transformation via oxidative addition of 1-haloalkynes.	supporting supervisor: dr Nurbey Gulia
ZB-5a Research Group of Organic Synthesis <i>Head: Dr. Marcin Stępień, D.Sc.</i>			
7.	dr hab. Marcin Stępień, prof. UW	Tubular and bowl-shaped aromatics: synthesis and properties	
8.	dr hab. Marcin Stępień, prof. UW	Tubular and bowl-shaped aromatics: reactivity and coordination chemistry.	
9.	dr hab. Marcin Stępień, prof. UW	Modified azacoronenes with unusual electronic structure	
10.	dr hab. Marcin Stępień, prof. UW	Extensively fused heteroaromatics: chromophores and mesophases	
11.	dr hab. Marcin Stępień, prof. UW	Oligomeric chromophores based on donor-acceptor subunits	
ZB-6 Research Group of Chemistry of Porphyrins and Metalloporphyrins <i>Head: Prof. Cyryl Latos-Grażyński, D.Sc.</i>			
12.	prof. dr hab. Lechosław Latos-Grażyński	Π -Extension of carbocyclic subunit in phenanthriporphyrinoids	supporting supervisor: dr Bartosz Szyszko

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13.	prof. dr hab. Lechosław Latos-Grażyński	Expanded phenanthriporphyrinoids - synthesis, properties and coordination chemistry	supporting supervisor: dr Bartosz Szyszko
14.	prof. dr hab. Lechosław Latos-Grażyński	Naphthiporphyrins - synthesis, properties and coordination chemistry	supporting supervisor: dr Bartosz Szyszko
15.	prof. dr hab. Lechosław Latos-Grażyński	Cycloaddition reactions as synthetic tools for post-macrocyclic modification of aceneporphyrinoids	supporting supervisor: dr Bartosz Szyszko
16.	dr hab. Miłosz Pawlicki	Carbazole as a building block of π -extended chromophores	
17.	dr hab. Miłosz Pawlicki	Three dimensional carbocycles decorated with triphyrins(2.1.1)	
18.	dr hab. Miłosz Pawlicki	Triphyrins(2.1.1) fused with carbocycle/heterocycle	
19.	dr hab. Miłosz Pawlicki	Switchable, hybrid chromophores effective in NIR	
20.	dr hab. Ewa Dudziak	Tellurophene containing macrocycles – the search for new synthetic methods	
21.	dr hab. Ewa Dudziak	Triphyrin(6.6.0) – a flexible ligand for transition metals	
22.	dr Jacek Wojaczyński	Chiral recognition with oligopyrrolic systems	
ZB-9 Research Group of Structure and Molecular Interactions <i>Head: Prof. Maria Rospenk, D.Sc.</i>			
23.	dr hab. A. Filarowski, prof. UWr	Synthesis and spectroscopic research of fluorescent BODIPY dies	
ZB-10 Research Group of Electrochemistry <i>Head: Prof. Maria Grzeszczuk, D.Sc.</i>			
24.	prof. dr hab. Maria Grzeszczuk	Dopamine polypyrrole sensor of an enhanced selectivity. Synthesis and characterization	Ref. Electrochemistry
ZB-11a Research Group of Luminescent Materials <i>Head: Prof. Eugeniusz Zych, D.Sc.</i>			
25.	dr Andrii Shyichuk	Defect role analysis in thermoluminescence materials assisted by DFT calculations	Experimental studies

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ZB-12 Research Group of Metal Complex Catalysis <i>Head: Prof. Anna Trzeciak, D.Sc</i>			
26.	dr hab. Anna Skarzyńska	Platinum complexes with phosphorus ligands: synthesis, structural investigation and catalytic activity	
27.	dr Izabela Czełusniak/ prof. dr hab. Anna Trzeciak	Synthesis and characterization of new enamines bearing dicarboxyimide groups	
28.	dr Adam Augustyniak/ prof. dr hab. Anna Trzeciak	Rhodium(I) complexes Supported on Metal Organic Framework: Active and Recyclable Catalysts for Hydrocarboxylation of Olefins with Carbon Dioxide.	
29.	prof. dr hab. Anna Trzeciak	Palladium complexes as catalysts of organic reactions.	
30.	prof. dr hab. Anna Trzeciak	Rhodium complexes – structure and catalytic activity.	
31.	dr Wojciech Bury/ prof. dr hab. Anna Trzeciak	Study of delamination process in pillared paddle-wheel metal-organic frameworks	
ZB-18 Research Group of Structural Applications of Electron Paramagnetic Resonance Spectroscopy. <i>Head: Prof. Adam Jezierski, D.Sc.</i>			
32.	dr hab. Maria Jerzykiewicz	Natural Organic Matter complexes with paramagnetic metal ions.	
33.	dr hab. Maria Jerzykiewicz	Antioxidant properties of humic substances	
34.	dr hab. Alina Bieńko	Co(II) coordination compounds in the construction of molecular magnetic materials.	
35.	dr hab. Alina Bieńko	Multifunctional molecular materials based on d or/and f metal ions - design, synthesis, magnetic, optical and biological activity.	
ZB-19 Research Group of Theoretical Modelling of Chemical Processes <i>Head: Prof. Zdzisław Latajka, D.Sc.</i>			
36.	dr Andrzej Bil	The influence of a basis set on ¹³ C chemical shifts.	
37.	dr hab. Sławomir Berski, prof. UWr	Local electronic structure of the C-C bond. ELF analysis.	