

Information on a candidate for doctoral students' supervisor in the academic year 2026/2027

Name and surname including academic degree and title
Anna Kamecka, Doctoral Degree with Habilitation, a University Professor
Field of science, scientific discipline
Natural sciences, chemical sciences
Specialisations
Inorganic chemistry, coordination chemistry
Supervisor's academic profile (including link to ORCID, link to Research Gate)
Orcid ID: https://orcid.org/0000-0003-2221-5646
Scopus Author ID: https://www.scopus.com/authid/detail.uri?authorId=6505758032
Web of Science ID: https://www.webofscience.com/wos/author/record/AAJ-1152-2020
Supervisor's main publications/ monographs issued over the last 5 years (max. 3)
1. P. Wójcik, C. Latouche, K. Suwińska, i A. L. Kamecka, „Spectroscopic, structural and photophysical characterization of chloro-bridged iridium(III) and rhodium(III) dinuclear complexes with 1-phenyl-1H-pyrazole and their analogues with 1-(2,4-difluorophenyl)-1H-pyrazole”, Dalton Trans., t. 54, Art. nr 31, 2025, doi: 10.1039/d5dt01156f. 2. A. L. Kamecka, A. Kapturkiewicz, P. Wójcik, K. Suwińska, J. Masternak, i N. Barbarczyk, „Synthesis, spectroscopic and structural characterization of cyclometallated rhodium(III) complexes with 1-phenyl-1H-pyrazole and α-diimines ligands, comparison with their iridium(III) analogues”, Struct. Chem., t. 36, Art. nr 2, 2025, doi: 10.1007/s11224-024-02439-6. 3. A. L. Kamecka, A. Kapturkiewicz, P. Wójcik, K. Suwińska, i J. Masternak, „Synthesis and characterization of platinum(IV) complexes containing 1-phenyl-1H-pyrazole and α-diimine ligands”, Eur. J. Inorg. Chem., t. 26, Art. nr 33, 2023, doi: 10.1002/ejic.202300438.
Experience in working with doctoral students
• number of defended doctoral dissertations: 1 • number of open doctoral dissertations: 0 • number of dissertation at the doctoral school: 1
Brief description of supervisor's research area (including research methods / techniques) together with a link to the website of the research team, if any
In terms of the research topic, the studies are carried out on the possibility of obtaining and the physicochemical, photophysical and biological properties of new highly luminescent complexes of selected transition metal ions. The research includes the complexes of Os(II), Ru(II), Ir(III), Rh(III), Re(I) and Pt(IV) metal ions containing in the coordination sphere phosphine, carbonyl, α -diimine and cyclometalating ligands. Studies of transition metal ions complexes are carried out in order to search the relationship between the structure and luminescent and biological properties of new luminophores.
Proposed research topics for doctoral students
The research problem proposed by the doctoral student falling within the scope of the supervisor's research interests.
Contact details: Faculty, Institute, E-mail address
Faculty of Natural Sciences, Institute Chemical Sciences, e-mail: anna.kamecka@uws.edu.pl

Name and surname including academic degree and title
Zbigniew Karczmarzyk, Doctoral Degree with Habilitation, a University Professor
Field of science, scientific discipline
Natural sciences, chemical sciences
Specialisations
Organic physical chemistry, crystallography and crystal chemistry, structural analysis, medicinal chemistry, computational chemistry
Supervisor's academic profile (including link to ORCID, link to Research Gate)
ORCID ID: https://orcid.org/0000-0003-1740-4354
Supervisor's main publications/ monographs issued over the last 5 years (max. 3)
4. 1. Kozyra, P., Humeniuk, E., Karczmarzyk, Z., Borzęcki, A., Adamczuk, G., Korga-Plewko, A., Wysocki, W., Pitucha M. Anticancer activity and safety Profile of novel 1-(4-fluorophenoxyacetyl)-4-substituted thio/semicarbazide derivatives. Molecules, 2025, tom 30, nr 7, nr artykułu 1576, s. 1-28. DOI: 10.3390/molecules30071576, IF=4.6 , MNISW=140 pkt 5. Wysocki, W., Kamecka, A., Karczmarzyk, Z. Synthesis and structural characterizations of three carbonyl(α-diimine)hydrido(triphenyl-phosphine)ruthenium(II) complexes with derivatives of 1,10-phenanthroline, Acta Crystallographica Section C-Structural Chemistry, 2024, vol. C80, nr 7, s.319-330. DOI:10.1107/S2053229624005898, IF=0.7, MNiSW=140 pkt. 6. Kozyra, P., Adamczuk, G., Karczmarzyk, Z., Matysiak, J., Podkościelna, B., Humeniuk, E., Wysocki, W., Korga-Plewko, A., Senczyna, B., Pitucha, M., Novel phenoxyacetylthiosemicarbazide derivatives as novel ligands in cancer diseases, Toxicology and Applied Pharmacology, 2023, 475, Article number 116634 (IF = 3.85, MEiN = 140 pkt)
Experience in working with doctoral students
• number of defended doctoral dissertations: 1 • number of open doctoral dissertations: 1 • number of dissertation at the doctoral school: 1 (Doctoral School, Medical University in Lublin), 1 (auxiliary promoter in Doctoral School, University of Siedlce)
Brief description of supervisor's research area (including research methods / techniques) together with a link to the website of the research team, if any
Research topics includes structural analysis of organic and organometallic compounds, especially with pharmacological properties by X-ray analysis, spectroscopic methods (IR, NMR, UV-VIS), molecular modeling (theoretical calculations using molecular mechanics, molecular dynamics and quantum chemistry methods, molecular docking) and SAR and QSAR analysis.
Proposed research topics for doctoral students
1. Structural studies in the context of SAR and QSAR analysis of semicarbazides, thiosemicarbazides and aminoimidazoline derivatives with biological activity (anticancer, antidiabetic, antimicrobial activity). 2. Structural studies of a selected group of organic and organometallic compounds using X-ray methods, spectroscopic methods and computational quantum chemistry methods in the aspect of their physicochemical activities.
Contact details: Faculty, Institute, E-mail address
Faculty of Science and Natural Sciences, Institute of Chemical Sciences, X-ray Lab e-mail: zbigniew.karczmarzyk@uws.edu.pl

Name and surname including academic degree and title
Professor Mariusz Kluska

Field of science, scientific discipline
Natural sciences, chemical sciences
Specialisations
Analytical chemistry
Supervisor's academic profile (including link to ORCID, link to Research Gate)
ORCID ID: https://orcid.org/0000-0001-5660-1735
Supervisor's main publications/ monographs issued over the last 5 years (max. 3)
1. Kluska M., Jabłońska J., Pukała W., Analytics, properties and applications of biologically active stilbene derivatives, <i>Molecules</i> 2023, 28, 4482. 2. Kluska M., Jabłońska J., Pukała W., Popiel S., Research on the stability of biologically active (E)-azastilbene derivatives in polish rivers, <i>Polish Journal of Environmental Studies</i>, 2021, 30, 1647. 3. Kluska M., Jabłońska J., Erchak N., Analytics and application of biologically active pentacoordinate electrostatically stabilized silanates, <i>Critical Reviews in Analytical Chemistry</i>, 2021, 51, 1.
Experience in working with doctoral students
• number of defended doctoral dissertations: 2 • number of open doctoral dissertations: 0 • number of dissertation at the doctoral school: 0
Brief description of supervisor's research area (including research methods / techniques) together with a link to the website of the research team, if any
The work will address the optimization of the analytical process of organic furan derivatives using various sample preparation methods and chromatographic techniques
Proposed research topics for doctoral students
New approach in the analysis of organic furan derivatives
Contact details: Faculty, Institute, E-mail address
Faculty of Natural Sciences, Institute of Chemical Sciences, mariusz.kluska@uws.edu.pl

Name and surname including academic degree and title
Janina Kopyra, Doctoral Degree with Habilitation, a University Professor
Field of science, scientific discipline
Natural sciences, chemical sciences
Specialisations
Physical chemistry / radiation chemistry
Supervisor's academic profile (including link to ORCID, link to Research Gate)
Scopus Author ID: https://www.scopus.com/authid/detail.uri?authorId=8930540200 ORCID ID: https://orcid.org/0000-0001-6703-4297 Web of Science ID: https://www.webofscience.com/wos/author/record/HWT-3517-2023 Research Gate: https://www.researchgate.net/profile/Janina-Kopyra
Supervisor's main publications/ monographs issued over the last 5 years (max. 3)
1. Janina Kopyra, Paulina Wierzbicka, Hassan Abdoul-Carime, Electron-Induced Fragmentation of 5-Iodouridine: Implications for Enhanced Radiotherapy, J. Phys. Chem. Lett., 16, 2025, 10536–10541. 2. Paulina Wierzbicka, Hassan Abdoul-Carime, Janina Kopyra, Fragmentation of 5-fluorouridine induced by low energy (< 12 eV) electrons: insights into the radiosensitization of DNA, Phys. Chem. Chem. Phys., 26, 2024, 876. 3. Leonardo Vetritti, Janina Kopyra, Paulina Wierzbicka, Márcio T. do N. Varella, Fragmentation of the DNA Lesion 8-oxo-Guanine by Low-Energy Electrons, The Journal of Physical Chemistry A, 127 (Issue 36), 2023, s. 7470 – 7478.
Experience in working with doctoral students
• number of defended doctoral dissertations: 0 • number of open doctoral dissertations: 0 • number of dissertation at the doctoral school: 0
Brief description of supervisor's research area (including research methods / techniques) together with a link to the website of the research team, if any
The research studies concern scattering of low-energy (0 -15 eV) electrons on molecules in the gas phase. Particular emphasis is placed on determination of efficiency and selectivity of low-energy electron attachment processes by biologically relevant molecules. The studies are carried out by means of crossed electron-molecular beam technique with spectrometric detection of the generated ions.
Proposed research topics for doctoral students
Studies within the scope of low-energy electron scattering on biologically relevant molecules.
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Faculty of Natural Sciences, Institute of Chemical Sciences, janina.kopyra@uws.edu.pl