

Lp.	TITLE OF THE PROJECT	FACULTY	SUPERVISORS	
1	Growth and characterization of II-VI crystals based on CdTe for the detection of ionizing radiation	Faculty of Physics, Astronomy and Informatics	dr hab. inż. Karol Strzałkowski, prof. UMK	prof. Olivier Pages, Lorraine University, Metz, France
2	Mechanisms and impacts of the spread of an invasive thermophilic species to non-heated waters of Central Europe	Faculty of Biological and Veterinary Sciences	dr hab. Małgorzata Poznańska-Kakareko, prof. UMK	dr hab. Ronaldo Gomes de Sousa, prof. University of Minho, Braga, Portugal
3	Deep neural networks for iterative regularization in inverse problems	Faculty of Physics, Astronomy and Informatics	dr Tomasz Piotrowski	prof. Masahiro Yukawa, Keio University, Japan
4	Searching for efficient charge-transfer materials for nonlinear optical applications	Faculty of Physics, Astronomy and Informatics	dr hab. Beata Derkowska-Zielińska, prof. UMK	prof. Georges Boudebs University of Angers, France
5	Wavelet-based forecasting of business activity and assessment of stabilization policies	Faculty of Economic Sciences and Management	dr hab. Joanna Bruzda, prof. UMK	prof. Marco Gallegati, Polytechnic University of Marche, Ancona, Italy
6	The phylogenetic relationships within Muscidae (Diptera): a perspective illuminated by phylogenomic and immature stages morphology data	Faculty of Biological and Veterinary Sciences	prof. dr hab. Krzysztof Szpila	prof. Thomas Pape, University of Copenhagen, Denmark
7	The impact of teaching quality on student satisfaction and its related variables	Faculty of Economic Sciences and Management	dr hab. Rafał Haffer, prof. UMK	Prof. Øivind Strand, Norwegian University of Science and Technology, Norway
8	Artificial molecules from crystal phase quantum dots: machine learning approach	Faculty of Physics, Astronomy and Informatics	dr hab. Michał Zieliński, prof. UMK	dr Justyna Zwolak, National Institute of Standards and Technology, Gaithersburg, MD, USA
9	Innovative solutions for the introduction of heteroatoms and transition metals to porous carbon matrixes	Faculty of Chemistry	prof. dr hab. Jerzy Łukaszewicz	prof. Ali Bumajdad, Kuwait University
10	Innovative graphene-based catalysts for water splitting technology as "green" method for hydrogen production	Faculty of Chemistry	prof. dr hab. Jerzy Łukaszewicz	prof. Ali Bumajdad, Kuwait University
11	Fabrication of new materials based on polymer and biopolymer blends for potential biomedical applications	Faculty of Chemistry	prof. dr hab. Alina Sionkowska	prof. Joao Mano, University of Aveiro, Aveiro, Portugal
12	Discovering rules that govern formation of complex graphs in the brain	Faculty of Physics, Astronomy and Informatics	prof. dr hab. Włodzisław Duch	dr Giovanni Petri, the Institute for Scientific Interchange Foundation, Turin, Italy
13	Searching for proteins with hidden domains of cyclase activity among the phytochrome transduction pathway elements in <i>Arabidopsis thaliana</i>	Faculty of Biological and Veterinary Sciences	dr hab. Krzysztof Jaworski, prof. UMK	Stefania Pasqualini, University of Perugia, Italy
14	Experimental and theoretical investigation of heat propagation in polymer nanolayers	Faculty of Physics, Astronomy and Informatics	dr hab. inż. Michał Pawlak, prof. UMK	dr Nathan Jukam, Ruhr University Bochum, Niemcy
15	Polish artists of the nineteenth and early twentieth centuries in the Viennese press on the example of selected artists	Faculty of Fine Arts	prof. dr hab. Jerzy Malinowski	Prof. Mag. Dr. Alois Woldan, University of Vienna, Austria