

THE LIST OF APPLICATIONS DECLARED AS ELIGIBLE FOR FUNDING IN THE COMPETITION POSTDOC IV

Lp.	Applicant (title/degree name and surname)	Faculty	Competition	Project title	Budget
1.	Maciej Szwast	Faculty of Chemical and Process Engineering	Materials Technologies	Development of production method of innovative membranes based on MOF&COF structures in terms of application for gas mixtures separation and for emerging contaminants removal from liquids	PLN 555 450
2.	Wioletta Raróg-Pilecka	Faculty of Chemistry	Materials Technologies	Bimetallic cobalt-molybdenum catalysts supported on doped barium cerate for low-pressure ammonia synthesis process	PLN 529 000
3.	Marek Pawlikowski	Faculty of Mechanical and Industrial Engineering	Biotechnology and Biomedical Engineering	Where are we heading to, i.e. modelling evolutionary changes in vertebrates using numerical methods	PLN 388 960
4.	Lena Ruzik	Faculty of Chemistry	BEYOND POB	Investigation of the interaction of metal nanoparticles present in edible plants with gastrointestinal digestion components	PLN 565 850
5.	Małgorzata Adamczyk	Faculty of Chemistry	Biotechnology and Biomedical Engineering	Developing a synthetic hybrid host for biosynthesis of biodegradable and thermoplastic polymers	PLN 567 870
6.	Jacek Szumbariski	Faculty of Power and Aeronautical Engineering	BEYOND POB	Development of an active grid for the wind tunnel facility	PLN 420 900

7.	Edyta Łukowska-Chojnacka	Faculty of Chemistry	Biotechnology and Biomedical Engineering	Synthesis and study of biological properties of protein kinase CK2 and PIM-1 inhibitors as lead molecules in the development of new anticancer drugs	PLN 567 450
8.	Janusz Hołyst	Faculty of Physics	BEYOND POB	Information overload in multilevel agent-based complex networks	PLN 490 250
9.	Robert Mroczyński	Faculty of Electronics and Information Technology	Materials Technologies	Ultrathin ferroelectric PVD films for novel Non-Volatile Semiconductor Memory (NVSM) structures	PLN 550 275
10.	Mariusz Zdrojek	Faculty of Physics	Materials Technologies	Development of technology for manufacturing twisted two-dimensional heterostructures	PLN 523 250
11.	Hanna Zbroszczyk	Faculty of Physics	High Energy Physics and Experimental Techniques	Studies of interactions of strange particles in relativistic heavy-ion collisions at the HADES experiment at SIS-18	PLN 547 400
12.	Krzysztof Badyda	Faculty of Power and Aeronautical Engineering	Energy Conversion and Storage	Energy, exergy, economic, and environmental (4E) analysis of hydrogen-powered gas turbines in simple and complex systems (gas-steam and integrated with renewable energy systems)	PLN 462 875
13.	Ilona Grabowska-Jadach	Faculty of Chemistry	Biotechnology and Biomedical Engineering	Development of a microfluidic model of the blood-brain barrier to study permeabilization using electroporation method - a new device to assess the effectiveness of therapeutic procedures used in neurodegenerative diseases	PLN 568 000

14.	Mateusz Śmietana	Faculty of Electronics and Information Technology	Materials Technologies	Carbon Nitride Thin Films as a Novel Platform for Combined Optical and Electrochemical Biosensing	PLN 246 100
15.	Maciej Trusiak	Faculty of Mechatronics	Photonic Technologies	PWnano – a 3D RASTMIN fluorescent nanoscopy in aberrating media	PLN 568 000
16.	Jarosław Milewski	Faculty of Power and Aeronautical Engineering	Energy Conversion and Storage	Development of electrolyzer dynamic model for the purpose of grid frequency fluctuation compensation analysis using electrolysis process	PLN 567 950