

Curriculum Vitae

Mariusz Barczak

PERSONAL PROFILE

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For almost 20 years I have been an academic teacher and researcher at the Faculty of Chemistry, Maria Curie-Skłodowska University in Lublin (Poland). My research interests include inter alia modern materials with defined properties, including biomaterials, hybrid materials and nanomaterials, as well as nanotechnology, thin films, sol-gel methods as well as applications of various types of materials in everyday life, industry and environmental protection.

For many years I have also been an independent evaluator of projects submitted to various funding institutions, including the European Union and national research agencies in various countries. I evaluate submitted applications in terms of scientific, innovative and financial aspects.

I am a member of the Association of Top 500 Innovators - the largest NGO platform in Poland dealing with cooperation between the R&D sector and innovative companies. I had the pleasure to be a member of the management board of this organization and now I am on the audit committee. I also carry out my innovation-focused activities by participating in interesting projects of various start-ups, helping them with R&D aspects or consulting innovative strategies.

For many years I have been conducting classes with students, including entrepreneurship, statistics, functional nanomaterials or quantum chemistry, as well as I was the Erasmus coordinator at my faculty responsible for student international cooperation and exchange.

ACTUAL POSITION

Associate Professor at Maria Curie-Skłodowska University (UMCS) in Lublin (Poland)

WORK EXPERIENCE October 2012 - Present

Independent evaluator

Assessment of applications/proposals submitted to various international and national agencies:

Research Executive Agency (REA) National Centre for Research and Devt (NCBR) > 100 proposals > 40 proposals European Commission For Research & Innovation Irish Research Council (IRC) Polish Agency of Enterprise Development (PARP) > 10 proposals > 40 proposals



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Research Council of Lithuania (LMT) Research Council of Lithuania

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- National Agency for Academic Exchange (NAWA)
 - $\mathbf{V}\mathbf{V}$ POLISH NATIONAL AGENC' FOR ACADEMIC EXCHANG
- **Fulbright Commission**

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POLSKA AGENCJA ROZWOJU PRZEDSIEBIORCZOŚCI POLISH AGENCY FOR ENTERPRISE DEVELOPMENT

National Research Founda-

tion of Ukraine (NRFU)

The National Centre for Research and Development

Evaluation various types of applications for the above-mentioned agencies in terms of research, innovation, but also financial and market-related aspects.

Evaluation over 100 manuscripts submitted to various journals (Elsevier, Springer, Wiley, RSC, ACS, MDPI and others) as well as MSc and PhD dissertations.

Business or sector: European and national institutions

Keuro <i>pass</i>	Curriculum Vitae	Mariusz Barczak
February 2004 – Present	 Assistant (till 2020) and associate (from 2020) professor Maria Curie-Sklodowska University in Lublin (www.umcs.pl) Conducting scientific research in the field of widely understood materials chemistry, materials engineering, nanotechnology and environmental protection. Conducting classes with undergraduate and graduate students, preparing teaching materials supervising undergraduate, graduate and PhD students during their research work. Organizational activities related to the functioning of the university: participation in university bodies, organization of conferences, cooperation with the industry. 	
May 2017 – Present	Member of the board of The Association of Top 500 Inr In the years 2017-2018 member of the Management Committee Audit Committee. The activities of the Association include promoting innovation, acad as commercialization of research results. The Association active institutions and NGOs in developing the best environment for the g The Association has over 420 members, both scientists as we commercialization specialists from all over Poland. Business or sector: Non-governmental organization	and from 2019 member of the demic entrepreneurship, as well ly cooperates with government growth of innovation ecosystem.
EDUCATION		
November 2003 September 2007 January 2020 October 2011-June 2012 October 2009-June 2010	M.Sc Basic and Applied Chemistry - Faculty of Chemistry, Ma (UMCS) Lublin, Poland. Ph.D. (cum laude) - Chemical Sciences - Faculty of Chemistry, UMCS Habilitation - Chemical Sciences - Faculty of Chemistry, UMCS in Lub Postgraduate studies " <i>Manager of research projects</i> ", Higher School of Postgraduate studies " <i>Management of R&D projects</i> ", Higher School Poland.	S in Lublin, Poland. Jlin, Poland. of Economy & Innovation, Lublin.
VISITING POSITIONS		
March 2019-February 2020 January-August 2017 July-September 2015 May-June 2013 April-June 2013 2005	Laureate of the Bekker fellowship by Polish National Agency for Academic Exchange (NAWA), University of Granada, Spain. Fulbright Fellowship (Fulbright Senior Award), The City University of New York, USA. Fellowship by the Foundation for Polish Science, Biomedical Diagnostics Institute, Dublin, Ireland. NASA Ames Research Center, Mountain View, USA. Stanford Center for Professional Development, Stanford University, USA. Institute of Surface Chemistry of Ukrainian National Academy of Sciences, Kiev, Ukraine.	
FUNDED PROPOSALS		
	Funded level of over PLN 8,500,000 (approx. EUR 2,000,000), inclu - Funded from Polish funds: Ministry of Science and Higher Educa Center (NCN), Foundation for Polish Science (FNP), Foundation Education System (FRSE), Maria Curie-Sklodowska University Academic Exchange (NAWA), National Centre for Research and De - Funded from non-Polish funds: ASTRIUM SAS company, Fulbrigh Foundation.	ation (MNISW), National Science on for the Development of the (UMCS), National Agency for evelopment (NCBR).
SCIENTIFIC OUTPUT		
Research topics Publications Conferences	Nanotechnology, Material Chemistry, Porous materials, Surface Sensing and sensors, Water pollution and remediation, Valorisation Composites, Thin layers, Thin films, Coatings, Textiles, Biomaterials Author / co-author of ~100 publications, over ~70 of which are in number of citations over 2000. Participation in ~100 international conferences. Five invited lecture contribution and three awards for the best poster contributions. regular basis: COPS, FOA, ISSHAC, SOL-GEL, IAP.	n of materials, Hybrid materials, s, Hydrogels, Ferrogels indexed in Scopus, with a total es. One award for the best oral
INTERNATIONAL COLLABO- RATION		
USA SPAIN IRELAND	Department of Chemistry, The City College of New York (USA) – group Faculdad de Ciencias, Universidad de Granada (Spain) – group Caballero and Prof. Modesto T. Lopez-Lopez. National Centre for Sensor Research, Dublin City University (Ire McDonagh.	p of Prof. Fernando Gonzalez- eland) – group of Prof. Colette
FRANCE	Université de Reims Champagne-Ardenne (France) – group of Prof. >	naviei Coqueret.



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PROFESSIONAL DEVELOP-	_	
MENT		
2014-2015	Laureate of Mentoring programme of the Foundation for Polish Science University of Granada, Spain.	
2010	Certificated advisor for renewable energy sources, Managerial Initiatives Foundation, Lublin Poland.	
2008	Participation in ISGS Summer School: Sol-gel in small dimensions: nanoparticles and thin films, Sardinia, Italy.	
2008 2007	Participation in European Course on Carbon Materials DECHEMA e.V, Frankfurt, Germany. Participation in the course Fundamentals of Sol-Gel Technology International Sol-Ge Society (ISGS), Montpellier, France.	
2001-2002	5-month course "A Sustainable Baltic Region" by Uppsala University, Sweden & Maria Curie Sklodowska University, Poland.	
TEACHING & MENTORING		
ACTIVITIES	Describer sources with students: Entropy and within (lest wa). Concerd Chemistry (lest wa). Eventional	
	 Regular courses with students: Entrepreneurship (lecture), General Chemistry (lecture), Function nanomaterials (lecture), Statistics (lecture and seminar), Adsorption on solid surfaces (lecture) Theory of chemical bond (seminar), Quantum chemistry (seminar), Theoretical chemistry (seminar), and lab), Analytical chemistry (seminar). Supervisor of 25 bachelor theses, 9 master theses and 2 PhD theses. Mentoring over 30 or 3	
	students preparing theses in the Dept. of Theoretical Chemistry, UMCS. - Three series of lectures delivered to the students of Universidad de Granada (Spain) devoted to	
	surface phenomena and adsorption in the frame of Erasmus Teaching Staff Mobility (2013, 2014, 2016).	
	 Faculty coordinator of Erasmus programme (2008-2016). Giving assistance to incoming and outgoing Erasmus students. Supervision of research projects conducted by incoming Erasmus students (up-to-day, 8 research projects). 	
	 Mentor in three editions of the programme "TopMinds" - the one of the most prestigious mentoring programmes in Poland organized by the Polish-American Fulbright Commission and the Association of Top 500 Innovators (2018, 2019, 2021). 	
OTHER LEADERSHIP ROLES	- · · · · · · · · · · · · · · · · · · ·	
AND ACCOMPLISHMENTS	Elected many has of English and Taviada sized Analysis Taray of the Daliah Anademy of Osianaaa	
	 Elected member of Forensic and Toxicological Analysis Team of the Polish Academy of Sciences for the 2020-2023 term. 	
	- Elected Member of the Board of The Association of Top 500 Innovators (2017-18). Actually	
	member of the Audit Committee (2019-present).	
	 Member of the Faculty Committee for the Quality of Education, on the Recruitment Commission, on the organization team of the Open Days of UMCS. All the functions listed above were served for the Faculty of Chemistry, UMCS in Lublin (Poland). 	
	 Member of the Polish Chemical Society, including following functions: Vice-president of Student Section (2001-2003), Member of the Audit Committee of Lublin branch (2009-2012), Vice-president 	
	of Lublin branch (2013-2016), Member of the board of Lublin branch (from 2016). - Member of: (i) The Association of TOP 500 Innovators, (ii) European Chemistry Thematic Network,	
	(iii) International Adsorption Society.	
	- Chair of the Scientific Committee of the International Symposium Effects of Surface Heterogeneity in Adsorption, Catalysis and related Phenomena (ISSHAC)- triannual conference organized by	
	Polish Chemical Society, Haber Institute for Catalysis and Surface Chemistry of Polish Academy of Sciences and Maria Curie-Skłodowska University.	
AWARDS AND RECOGNITIONS		
2020	Team III° Award for scientific achievements, Rector of Maria Curie-Sklodowska University.	
2019	Award for the high quality publication, Rector of Maria Curie-Sklodowska University. Team III° Award for scientific achievements, Rector of Maria Curie-Sklodowska University.	
2019 2019-2020	Nominated by the Fulbright Commission to be Fulbright Ambassador in Poland.	
2018	Team I° (highest) Award for scientific achievements, Rector of Maria Curie-Sklodowska University.	
2017	Fulbright Senior Award (project title: Adsorptive, photocatalytic and supercapacitive behaviour of functionalized carbon fibers, City University of New York.	
2016	Team II° Award for scientific achievements, Rector of Maria Curie-Sklodowska University.	
2013-2016 2013	Award for distinguished young scientist, Minister of Science and Higher Education of Poland. - Fellowship founded by the Polish Ministry of Science and Higher Education: Top 500 Innovators: Science Management Commercialization Stanford University	
	Science- Management-Commercialization, Stanford University. - Team I° (highest) Award for scientific achievements, Rector of Maria Curie-Sklodowska University.	
2012	Individual I° (highest) Award for scientific achievements, Rector of Maria Curie-Sklodowska University.	
2012	Individual II° Awards for scientific achievements, Rector of Maria Curie-Sklodowska University.	
2010	Individual II° Awards for scientific achievements, Rector of Maria Curie-Sklodowska University.	
2007	Distinction of the PhD thesis by Scientific Council of the Faculty of Chemistry of Maria Curie- Sklodowska University.	
2002-2003	9-month Erasmus fellowship. Realization of the experimental part of M.Sc. thesis, Faculty of Sciences, University of Granada, Spain (2002-03)	

University of Granada, Spain (2002-03).