Michał Wójcik - Curriculum Vitae

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Date of birth: 1983-09-12

Education and employment

2017 - today	Advantic Sp. Z o.o. (Warka), Poland
	Founder and CEO
2017 - today	European Bank for Reconstruction and Development,
	UK/Ukraine
	Specialist in EBRD's international advisory project in Ukraine
2016 - today	Biological and Chemical Research Centre (UW), Laboratory of
	Novel Hybrid Materials, Poland
	Leader of the group
2015 – today	University of Warsaw, Faculty of Chemistry, Poland
	Adjunct professor
2014 - 2016	Cortex Chemical Sp. z o.o. (Tarnów), Poland
	Product manager
10-11.2016	UPMC Sorbonne Universites (Paris), France
	Visiting scientist under French government scholarship
8-9.2014	University of Colorado (Boulder), USA
	Visiting scientist
2013 - 2015	University of Warsaw, Faculty of Chemistry
	Junior lecturer (assistant)
2012 - 2014	Cortex Chemical Sp. z o.o. (Tarnów), Poland
	Specialist as a scientific advisor and purchasing manager
2011 - 2013	University of Warsaw, Faculty of Chemistry
	Postdoc position in the TEAM project of prof. E. Gorecka (founded by
	Polish Science Foundation)
2009 - 2012	Cortex Chemical Sp. z o.o. (Tarnów), Poland
	Assistant as a scientific advisor and purchasing assistant
2011	University of Warsaw, Faculty of Chemistry
	<u>Ph.D. summa cum laude</u>
5-6.2010	Martin Luther University Halle-Wittenberg, Germany
	Visiting scientist
2007 - 2011	University of Warsaw, Faculty of Chemistry
	PhD student
2007-2010	Cheman S.A. (Warsaw), Poland
	Assistant as a scientific advisor and purchasina assistant

2002 - 2007 University of Warsaw, Faculty of Chemistry

Master of Science

Detailed business and scientific activity is described in next sections of CV

Scholarships		
2016	University of Warsaw	Rector`s scholarship for outstanding teaching activity
2015	University of Warsaw	Rector`s scholarship for scientific achievements
2013	Foundation for Polish Science	START scholarship
2012	University of Warsaw	Modern University postdoctoral scholarship
2011-2013	Foundation for Polish Science	TEAM postdoctoral scholarship in the group of prof. Ewa Górecka
2010-2011	University of Warsaw	Doctoral Scholarship for the best Ph.D. students whose work affect the development of Mazovia
2009-2010	University of Warsaw	Doctoral Scholarship for the best Ph.D. students at University of Warsaw (The Modern University)
2008-2010	Mazovia Voivodeship	Doctoral Scholarship for the best Ph.D. students in Mazovia
2003,2005,2007	University of Warsaw	Student Scholarship

Prizes for science activity

2016	Gold medal for the CARLINE project at the International Invention &
	Innovation Exhibition Kuala Lumpur, Malaysia
2015	Gold medal for the CARLINE project at the International Exhibition of
	Inventions ARCA 2015 in Zagreb
2015	Gold medal for the CARLINE project at the International Exhibition of
	Inventions IWIS 2015 in Warsaw
2015	The First Prize in the IMPULS program awarded by the Foundation for Polish
	Science
2013	The First Prize of Polish Liquid Crystal Society for the best PhD thesis
2011	PhD thesis summa cum laude
2011	The Antoni Grabowski Reward of an outstanding science and teaching activity.
	Department of Chemistry of Warsaw University
2009	First Prize conferred by Scientific Board of '2nd BaltChem Conference'

2007 Distinction Award conferred by Scientific Board of '1st Chemofor – Conference of MSc Students'

Publications

- 2017 <u>M.M. Wójcik</u>, J. Wrobel, Z. Janczuk, J. Mieczkowski, E. Gorecka, J. Choi, M. Cho, D. Pociecha; "Liquid crystalline elastomers with gold nanoparticle cross-linkers" accepted and published online in **Chemistry A European Journal**; DOI: 10.1002/chem.201700723; **IF=5.771**
- 2017 K. Zabielska-Koczywas, I. Dolka, M. Król, A. Zbikowski, W. Lewandowski, J. Mieczkowski, M.M. Wójcik, R. Lechowski; "Doxorubicin conjugated to glutathione stabilized gold nanoparticles (Au-GSH-Dox) as an effective therapeutic agent for feline injection-site sarcomas Chick embryo chorioallantoic membrane study" Molecules 22, 2, 253 (2015), IF=2.465
- M. Bagiński, A. Szmurło, A. Andruszkiewicz, M.M. Wójcik, W. Lewandowski;
 "Dynamic self-assembly of nanoparticles using thermotropic liquid crystals" Liquid Crystals 43, 13-15, pp. 2391-2409 (2017), IF=2.244
- M.M. Wójcik*, M. Olesińska, M. Sawczyk, J.Mieczkowski, E. Górecka; "Controlling spatial organization of liquid crystalline nanoparticles by composition of the organic grafting layer" Chemistry A European Journal, 21,10082–10088 (2015), IF=5.696
- 2015 **M.M. Wójcik,*** W. Lewandowski, M. Król, K.M. Pawłowski, J. Mieczkowski, R. Lechowski, K.A. Zabielska; "Enhancing anti-tumor efficacy of doxorubicin by non-covalent conjugation to gold nanoparticles in vitro studies on feline fibrosarcoma cell lines" **POLS ONE** 10 (6), e0129639 (2015), **IF=3.534**
- E. Woźnica, <u>M.M. Wójcik</u>, M. Wojciechowski, J. Mieczkowski, E. Bulska, K. Maksymiuk, A. Michalska; "Improving the Upper Detection Limit of Potentiometric Sensors" **Electroanalysis** (Published online: 6 FEB 2015); **IF=2.502**
- A. Zep, <u>M. M. Wojcik</u>, W. Lewandowski, K. Sitkowska, A. Prominski, J. Mieczkowski, D. Pociecha, and E. Gorecka; "Phototunable Liquid-Crystalline Phases Made of Nanoparticles" **Angew. Chem. Int. Ed. Engl.** 53, 50, p. 13725–1372 (2014); **IF** = 11.336
- W. Lewandowski, <u>M. Wójcik</u>, E. Górecka; "Metal Nanoparticles with Liquid-Crystalline Ligands: Controlling Nanoparticle Superlattice Structure and Properties" Review; **ChemPhysChem** 15, 1283–95 (2014); **IF = 3.360**
- 2014 M. Vogrin, N. Vaupotič, <u>M.M. Wojcik</u>, J. Mieczkowski, K. Madrak, D. Pociecha, E. Gorecka; "Thermotropic cubic and tetragonal phases made of rod-like molecules"

- **Physical Chemistry Chemical Physics** 16 (30), pp. 16067-16074 (2014); **IF = 4.198**
- E. Woźnica, <u>M.M. Wójcik</u>, J. Mieczkowski, K. Maksymiuk, A. Michalska; "Dithizone modified gold nanoparticles films as solid contact for Cu2+ ion-selective electrodes" **Electroanalysis** 25, 1, p.141-146 (2013); **IF = 2.502**
- J. Paczesny, <u>M.M. Wojcik</u>, K. Sozański, K. Nikiforov, C. Tschierske, A. Lehmann, E. Gorecka, J. Mieczkowski, R. Holyst; "Self-Assembly of Gold Nanoparticles into 2D Arrays Induced by Bolaamphiphilic Ligands" **Journal of Physical Chemistry C** 117, 45, p. 24056-24062 (2013); **IF = 4.835**
- 2013 <u>E. Woźnica, M. Wójcik, J. Mieczkowski, K. Maksymiuk,</u> A. Michalska "Dithizone modified gold nanoparticles films as solid contact for Cu²⁺ ion-selective electrodes" **Electroanalysis** 25 (1), pp. 141-146 (2013) **IF = 2.502**
- 2012 E.Woźnica, <u>M.Wójcik</u>, M.Wojciechowski, J.Mieczkowski, E.Bulska, K.Maksymiuk, A.Michalska; "Dithizone modified gold nanoparticles films for potentiomeric sensing" <u>Analytical Chemistry</u> 84 (10), pp. 4437-4442 (2012) **IF=5.965**
- 2011 <u>M.Wojcik</u>, M.Gora, D.Pociecha, J.Mieczkowski, E.Gorecka; "Temperature-controlled liquid crystalline polymorphism of gold nanoparticles" –**Soft Matter,** 7, 10561-10564, (2011) **IF=4.390**
- 2011 E.Jaworska, <u>M.Wojcik</u>, A.Kisiel, J.Mieczkowski, A.Michalska "Gold nanoparticles solid contact for ion-selective electrodes of highly stable potential reading" Talanta, 85, 1986–1989, (2011) IF=3.794
- P. Lesiak, <u>M.Wójcik</u>; <u>Nonlinear optical characterization of the gold nanoparticles coated by thiols</u>" <u>Photonics Letters of Poland</u> 3 (3), pp. 113-115 (2011);
- 2010 <u>M.Wojcik</u>, M.Kolpaczynska, D.Pociecha, J.Mieczkowski, E.Gorecka; "Multidimensional structures made by gold nanoparticles with shape-adaptive grafting layer" **Soft Matter**, 6, 5397-5400, (2010) **IF=4.457**
- 2009 <u>M. Wojcik</u>, W. Lewandowski, J. Matraszek, J. Mieczkowski, J. Borysiuk, D. Pociecha, E. Gorecka, 'Liquid-Crystalline Phases Made of Gold Nanoparticles', **Angew. Chem. Int. Ed. 48, 5167-5169, (2009) IF=11.829**

Total IF=**70,9**

International patent application published under the patent cooperation treaty (PCT) - WO 2017/025843 A1 (16 February 2017) "A method of recycling precious metals from the waste materials for simultaneous production of novel catalytic layers made of precious metal nanoparticles obtained by this method."

Business activity description

2017 - present	Advantic Sp. Z o.o. – founder and CEO, R&D and consulting activity, development of new products, developing recipes and implementation of R & D projects (food industry, nanomaterials)
2014 - 2016	Cortex Chemical Sp. z o.o. – product manager, development of new products, developing recipes and implementation of R & D projects including yeast extracts for food and biotechnological industry
2012 - 2014	Cortex Chemical Sp. z o.o. – specialist as a scientific advisor and purchasing manager
2009 - 2012	Cortex Chemical Sp. z o.o. – assistant as a scientific advisor
2007-2009	Cheman S.A. – assistant as a scientific advisor
	During cooperation with these companies I attended more than 15 conferences and business fairs around the World and I had the opportunity to participate in audits of more than 20 factories located mainly in China, Germany and USA. I participated in trade fairs and business meetings in the framework of the fair, which took place in France, Germany, China, Holland. I'm an expert on Chinese chemical and biotechnological market.

Recent funding

2017-2019	LIDER project founded by the National Centre for Research and
	Development- principal investigator (275000 EUR)
2015-2018	SONATA project founded by the National Science Centre- principal
	investigator (148000 EUR)
2015-2016	IMPULS project awarded by the Foundation for Polish Science
2013-2014	"Generation of the Future" commissioned by the Ministry of Science and
	Higher Education, Project Manager

2011-2014	Preludium grant UMO-2011/01/N/ST5/03297 founded by National
	science center (NCN)- main contractor (17200 EUR)
2011-2013	Project IP2011 061871 (Iuventus Plus) founded by The Ministry of
	Science and Higher Education (MNiSW) - main contractor (40500 EUR)
2010-2011	Project 0476/H03/2010/70 (Iuventus Plus) founded by The Ministry of
	Science and Higher Education (MNiSW) - main contractor (13300 EUR)
2010-2011	Project 0150/B/H03/2010/38 founded by The Ministry of Science and
	Higher Education (MNiSW) - main contractor (14300 EUR)
2010	Short-term visit grant, founded by European Science Foundation (ESF)
2007-2010	European Science Foundation Project, "Liquid Crystalline nano-particles"-
	collaborator
	Total founding: 508 300 EUR

International Cooperation

Prof. Ivan Smalyukh University of Colorado at Boulder, USA

Prof. Emmanuelle Lacaze UPMC Sorbonne Universites (Paris), France

Prof. Carsten Tschierske Martin Luther University Halle-Wittenberg, Germany

Conference participation (selected; oral or poster)

29-31.05.2017	"NanoBioMaterials - Theory and Practice" (oral presentation – invited plenary lecture)
28.04-2.05.2017, Pilchy, Poland	Symposium of Students Science Clubs - Pilchy 2017 (oral presentation – invited lecture)
22.11.2016, Paris, France	Liquid crystals defects and/or nanoparticles (oral presentation – invited lecture)
31.07-5.08.2016	26th International Liquid Crystal Conference (poster presentation)
28.08.2014, Boulder, USA	Big Energy Seminar Series - Renewable and Sustainable Energy Institute (RASEI) (oral presentation – invited lecture)
17-20.08.2014, San Diego, USA	Challenges in Nanoscience ISACS 15 (poster presentation)

8-11.07.2013, Warwick, GB	11th International Conference on Materials Chemistry (MC11) (poster presentation)
19-24.08.2012, Mainz, Germany	24 th International Liquid Crystal Conference (oral presentation – invited lecture)
5-7.10. 2011, Lwów, Ukraine	Planer-Smoluchowski Soft Mater Workshop on Liquid Crystal Colloids (oral presentation)
9-12.04.2011, Hangzhou, China	ICAM Metamaterials Workshop 2011 (poster presentation)
11-16.07.2010, Kraków, Poland	23 rd International Liquid Crystal Conference (poster presentation)
28-30.06.2010, Pardubice, Czech Republic	62 nd Congress of Czech and Slovak Chemical Societies Associations (oral presentation)
7-11.04. 2010, Sokolec, Poland	Zjazd Wiosenny Sekcji Studenckiej Polskiego Towarzystwa Chemicznego (oral presentation)
19 – 22.10.2009, Prague, Czech republic	Self-organized nanostructures – SONS 2 (poster presentation)
14 – 18.10. 2009, Warszawa, Poland	7th YoungChem Congress of Young Chemists (oral presentation)
12-16.09.2009, Łódź, Poland	52. Zjazd Polskiego Towarzystwa Chemicznego (oral presentation)
22 – 26.04.2009, Bartkowa-Posadowa, Poland	Zjazd Wiosenny Sekcji Studenckiej Polskiego Towarzystwa Chemicznego (oral presentation)
2 – 5.04.2009, Warszawa, Poland	'2nd BaltChem 2009' (poster presentation)
5 – 19.10.2008, Kraków, Poland	'6th YoungChem 2008, an International Congress of Young Chemists' (poster presentation)

I attended 30 conferences, including 12 conferences abroad

Educational Activity

- tutor students under the program individual studies. My students have been granted several times with the scholarships of Polish Minister of Science and Higher Education (A.Promiński, M.Sawczyk, B.Matysiak, Z.Jańczuk) and many other awards and scholarships ("Future Generation", "A student with an idea"). Michał Sawczyk was the winner of the "Golden Medal of Chemistry", the most prestigious prize for chemistry students in Poland
- Classes: Identification of Organic Compounds (Laboratory;
- Principles of Organic Chemistry for Biology Students
- Working with talented youth within the "Foundation for Children" and the Foundation "Future in Science"
- Working with students participating in the International Chemistry Olympiad (basics of organic chemistry labs)
- Tutor of seven M.S.c students and eleven B.S. thesis
- Individual laboratories for students of Chemistry (7 projects)
- Tutor in SKILS project founded by FNP
- Supervisor of the SANA students association at Faculty of Chemistry

Editorial activities, cont.(Reviewer)

- Biocojugate Chemistry, ACS, IF=4,500
- Molecular Pharmaceutics, ACS, IF=4,384
- Electroanalysis, Wiley, IF=2,138

Research interests

- Banana-like liquid crystals
- Soft matter molecular-level structure and physicochemical properties
- Self-assembly codes of nanoelements as well as metal nanoparticles organization
- Synthesis of nanoparticles for materials science and biomedical applications
- Liquid crystal elastomers in nanoscience
- Biomedical applications of nanoparticles

Other Activities

Since 2015	Scientific tutor and advisor of Supramolecular and Nanoscale Student Association
Since 2010	Member of the Polish Liquid Crystals Society
2009 - 2010	Vice-President Student Section of Polish Chemical Society
2010	President of the Organizing Committee of the Congress Spring Student Section of Polish Chemical Society
2009 - 2010	Board Member Student Section of Polish Chemical Society

Since 2009	Member of the Polish Chemical Society
2009	Member of the Organizing Committee of the Congress of the Winter SSPTChem

Other skills

- Specialist in the Chinese chemical industry and biotechnology
- Specialist in R&D resources for food and pharmaceutical applications

Interests

- Universal history, modern history of China, World War II, the history of the Soviet Union, history of the twentieth century.
- Business and R&D in the chemical, pharmaceutical and biotechnology