

Curriculum Vitae Dr. Marcel Tomasz Krzan

Born on the 13th of December 1973y in Cracow, Poland,
Polish nationality, married, 1 child (son Bartłomiej born in 2004y)

Affiliation:

“Soft Matter Nanostructures” research group
Jerzy Haber Institute of Catalysis and Surface Chemistry,
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<https://pl.linkedin.com/in/marcel-krzan-sp9xwd>

https://www.researchgate.net/profile/Marcel_Krzan



Academic Career / Educational experience / Long term research visits-internships:

2004 – (present) **Senior researcher** at Jerzy Haber Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences. Present position **adiunkt (assistant professor, since 2019)**

2017 (July – October) - **visiting researcher** at Max-Planck Institute of Colloids and Interfaces, Golm, Germany (German Academic Exchange Service DAAD fellowship).

2015 (October-November) – **internship** at Saclay Nuclear Research Center in France - Polish Ministry of Science and Higher Education special program titled *“Training and internships in the field of nuclear energy technology* (in cooperation with French Atomic Energy and Alternative Energies Commission (CEA) & French National Institute for Nuclear Science and Technology INSTN).

2015 (6 months) - **practical internship** at AfiSen SME company, as a part of project titled *“Innovations – the opportunity for the development of Malopolska enterprises”* POKL.08.02.01-12-026/14.

2014 (6 months) - **practical internship** at Pex-Poll SME company, as a part of Malopolska Regional Development Agency project titled *“Knowledge, practice, experience - the key to success in business”*.

2007 (February – December) – **postdoctoral fellow** at the GRASP laboratory (Group for Research and Applications in Statistical Physics), Department of Physics, University of Liege, Belgium.

2006 (July-November) - **visiting researcher** CNRS at the Laboratoire de Physique des Matériaux Divisés et des Interfaces (LPDMI), Université de Marne-la-Vallée, France.

2004 -2006 (November 2006 – June 2006) - **postdoctoral researcher** at the Laboratoire de Physique des Matériaux Divisés et des Interfaces, Université de Marne-la-Vallée, France.

1998 -2004 - **PhD**, dissertation *“Local velocities, shape and size of bubbles rising in solutions of surface active substances”* in Jerzy Haber Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences.

2002-2003 (10 months) – **doctoral fellowsip** at Max-Planck Institute of Colloids and Interfaces, Golm, Germany (German Academic Exchange Service DAAD fellowship).

1996 – 1997 (6 months) - **TEMPUS research fellowship** at the Center for Chemistry and the Environment, Gorlaeus Laboratories, Leiden University.

1995-1998 - **Master of Science** in the field of the Protection of the Environment, speciality chemistry of the environment, Chemistry Faculty, Jagiellonian University, Krakow, Poland

1993-1995 **Beachelor of Science** in the field of the Protection of the Environment, Chemistry Faculty, Jagiellonian University, Krakow, Poland.

Research projects led:

- 2016 – 2020 - [Project Leader \(PI\)](#), [research project titled: “Development of modern generation technology of stable biological surface film for various bio-medical applications \(antibacterial or regeneration properties\)”](#), funded by National Science Center of Poland, grant no. 2016/21/B/ST8/02107, budget ca. 260000 Euro
Project in progress. During the project we want to develop technology for generation and application of stable thin films of surface formulated from biosurfactants. Film compositions will be enhanced by the addition of biopolymers with huge biological (antibacterial, fungicidal or regenerative for skin) activity.
- 2018 – 2020 - [Project Leader \(PI\)](#), [international bilateral cooperation](#) – Polish – German Joint Research Project under the agreement of scientific cooperation between Polish National Agency for Academic Exchange and the German Academic Exchange Agency, titled: [“Smart liquid/gas interfaces with photo-switchable surfactants”](#). German cooperator: prof. Prof. Dr. Björn Braunschweig from Westfälische Wilhelms-Universität Münster, Polish budget ca. 5000 Euro, grant no. PPN/BIL/2018/1/00093
Project in progress. This collaboration aims to clarify the molecular structure and dynamics of photo-switchable surfactants at different hierarchical level of aqueous foam from the nano to the macroscopic scale. In order to reveal structure-property relationships that govern foam properties from the molecular building blocks at the liquid/gas interface to the macroscopic foam.
- 2018 – 2021 - [Project Leader \(PI\)](#), [international bilateral cooperation](#) – Polish – Bulgarian Joint Research project under the agreement of scientific cooperation between Polish Academy of Sciences and the Bulgarian Academy of Sciences, titled: [“Biocompatible particle-stabilized foams and emulsions as carriers for biomedical application”](#). Bulgarian cooperator: prof. E. Mileva from Institute of Physical Chemistry, Bulgarian Academy of Sciences, Polish budget ca. 5000 Euro.
Project in progress. During the project we want to develop technology for generation and application of stable foam and emulsions formulated from mixtures of hypoallergenic, non-toxic biological polymers, mainly biosurfactants (proteins, polysaccharides, glycolipids and phospholipids).
- 2017 – 2019 - [Project Leader \(PI\)](#), [international bilateral cooperation](#) – Polish – Italian Joint Research project under the agreement of scientific cooperation between Polish Academy of Sciences and the National Research Council, titled: [“Biocompatible particle-stabilized foams and emulsions as carriers for healing agents”](#). Italian cooperator: dr. F. Ravera from Institute of Condensed Matter Chemistry and Technologies for Energy CNR, Polish budget ca. 15000 Euro.
Project in progress. During the project we want to develop technology for generation and application of stable foam and emulsions formulated from mixtures of hypoallergenic, non-toxic biological polymers, mainly biosurfactants (proteins, polysaccharides, glycolipids and phospholipids).
- 2011 - 2015 – [Project Leader \(PI\)](#), [research project titled: “New development in technology of stable and biodegradable foam generation – for industrial and biomedical application”](#), funded by National Science Center of Poland, grant no. 2011/01/B/ST8/03717, budget ca. 120000 Euro.
In the results of the project we developed the new technology of generating of bio-inspired, easy degradable polysaccharides and/or proteins based aqueous foams. Such “biofoams” as easily decomposable can be an alternative to presently used foams based on the anionic surfactants
- 2002 - 2004 – [Main Executor](#), [PhD research project titled: “Bubble local velocities, shapes and sizes in surface active agent solutions”](#) from Committee of a Scientific Research (Polish Ministry of Education and Science, project no. 4T09A05822, budget 12500 Euro).
In the results of the project I described the influence of surfactant adsorption degree on the motion parameters of freely rising bubbles (in various surfactants solutions).
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Most important prizes and awards:

- i) Scientific Award of Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences, 2019
- ii) Scientific Award of Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences, 2018
- iii) Scientific prize of the Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences for the best publication, 2005;
- iv) award for the best poster on the Conference SURUZ – „Surfactants and Dispersed Systems in Theory and Practice” 2003.

International mobility programs:

- * EC COST CA15124 [2016-2020] NeuBIAS A new network of European Bioimage Analysts to advance life science imaging”
- * EC COST MP1106 [2012-2016] SGI Smart and green interfaces – from single bubbles and drops to industrial, environmental and biomedical applications.
- * EC COST CM1101 [2012-2016] Colloidal Aspects of Nanoscience for Innovative Processes and Materials
- * EC COST P-21 [2006-2010] Physics of droplets.

Research experience at home and abroad - short time scientific missions:

27 different research visits in 11 various groups in Bulgaria, France, Germany, Belgium, Italy and Czech Republic, total time of missions 42 weeks (almost 10 months) – between 2009 and 2019

(long term home/abroad research visits or internships are presented on first page – Academic Career)

- * Planned research visit in prof. Bjorn Braunschweig Fluid Interfaces and Soft Matter Materials research group, Muenster University, Germany (2019 October, 1 week, NAWA-DAAD bilateral project)
- * Planned Research visit in prof. Elena Mileva research group in Interfaces and Colloids Institute of Physical Chemistry, Bulgarian Academy of Sciences BAS, Sofia, Bulgaria (2019 September, 1 week, BAS-PAS bilateral project)
- * Planned research visit in prof. Bjorn Braunschweig Fluid Interfaces and Soft Matter Materials research group, Muenster University, Germany (2019 June, 1 week, NAWA-DAAD bilateral project)
- * Planned Research visit in dr. Francesca Ravera and dr. Libero Ligierrri research group in Institute of Condensed Matter Chemistry and Technologies for Energy, National Research Council CNR (2019 September, 2 weeks, CNR-PAS bilateral project)
- * Research visit in prof. Michael Schlüter research group in “Institute of Multiphase Flows” in Technische Universität Hamburg-Harburg, Hamburg, Germany (2019 May, 1 week, Erasmus Plus)
- * Research visit in prof. Bjorn Braunschweig Fluid Interfaces and Soft Matter Materials research group, Muenster University, Germany (2019 April, 1 week, Erasmus project)
- * Research visit in prof. Bjorn Braunschweig Fluid Interfaces and Soft Matter Materials research group, Muenster University, Germany (2019 February, 1 week, NAWA-DAAD bilateral project)
- * Research visit in Prof. Dr. Dieter Bothe “Mathematical Modelling and Analysis” (MMA) research group at Technische Universität Darmstadt, Germany (2019 January, 1 week, Erasmus Plus)
- * Research visit in prof. Elena Mileva research group in Interfaces and Colloids Institute of Physical Chemistry, Bulgarian Academy of Sciences BAS, Sofia, Bulgaria, (October 2018, 1 week, BAS-PAS bilateral project)
- * Research visit in dr. Francesca Ravera and dr. Libero Ligierrri research group in Institute of Condensed Matter Chemistry and Technologies for Energy, National Research Council CNR, (October 2018, 2 weeks, CNR-PAS bilateral project)
- * Research visit in dr. habil. Wiebke Drenckhan-Andreatta research group in Institute of Charles Sadron in Strasbourg, France (May 2018, 1 week) in the framework of my National Science Center Opus project 2016/21/B/ST8/02107 (May 2018, 1 week)
- * Erasmus Plus, Staff Mobility for Training, visit in prof. Elena Mileva research group in Interfaces and Colloids Institute of Physical Chemistry, Bulgarian Academy of Sciences, Sofia, Bulgaria (May 2018, 2 weeks)
- * Erasmus Plus, Staff Mobility for Training, visit in prof. Dominique Langevin research group - Laboratoire de Physique des Solides, Université Paris Sud., France (April 2018, 1 week)
- * Research visit in dr. Jiri Veriazka research group in Institute of Chemical Process Fundamentals of Czech Academy of Sciences, Prague, Czech Rep, due to Polish – Czech Republic Joint Research Project (bilateral cooperation between both Academies of Sciences), (November 2017, 1 week).

- * Research visit in dr. F. Ravera and dr. L. Ligierra research group in Institute of Condensed Matter Chemistry and Technologies for Energy, National Research Council CNR, founded by Polish – Italian Joint Research Project under the agreement of scientific bilateral cooperation between Polish Academy of Sciences and CNR, titled: “*Biocompatible particle-stabilized foams and emulsions as carriers for healing agents*”. (October 2017, 2 weeks)
- * Visit in Fluid Interfaces and Soft Matter Materials research group, Muenster University, Germany, 05-07.09.2017, invitation from prof. Björn Braunschweig, short time scientific visit available thanks for the financial support from Muenster University, Germany. (September 2017, 1 week).
- * Erasmus Plus, Staff Mobility for Training, visit in prof. Michael Schlüter research group in “Institute of Multiphase Flows” in Technische Universität Hamburg-Harburg, Hamburg, Germany (May 2017, 1 week).
- * Erasmus Plus, Staff Mobility for Training, visit in prof. Dominique Langevin research group - Laboratoire de Physique des Solides, Université Paris Sud., France (February 2017, 1 week)
- * Erasmus Plus, Staff Mobility for Training, visit in dr. Pavlina Basarova research group in University of Chemistry and Technology in Prague, Czech Republic. During the training I also visited additionally the dr. Jiri Veriazka research group in Institute of Chemical Process Fundamentals of Czech Academy of Sciences, Prague, Czech Rep. (December 2016, 2 weeks)
- * Erasmus Plus, Staff Mobility for Training, visit in prof. E. Mileva research group in Interfaces and Colloids Institute of Physical Chemistry, Bulgarian Academy of Sciences, Sofia, Bulgaria. During the training I also visited additionally the prof. N. Denkov research group in Department of Chemistry and Pharmaceutical Engineering of Sofia University, Sofia, Bulgaria (October 2016, 2 weeks).
- * Max-Planck Institute for Colloids and Surface Chemistry MPI CSC, Golm/Potsdam, Germany, short time scientific visit for research in dr. habil. Reinhard Miller research group, available thanks for the financial support obtained from MPI CSC and from Polish SME Luga – Cosmetic Center (July 2016, 2 weeks).
- * Erasmus Plus, Staff Mobility for Training, visit in prof. Nicolas Vandewalle and prof. Herve Caps research group GRASP (Group for Research and Applications in Statistical Physics), University of Liege, Belgium (March 2015, 1 week).
- * COST “Smart and green interfaces MP1106” STSM Scientific Mission at the Istituto per l’ Energetica e le Interfasi, Consiglio Nazionale delle Ricerche, Genova, Italy, research group of dr. L. Ligierra and dr. F. Ravera (Nov. 2014, 2 weeks).
- * Erasmus Plus, Staff Mobility for Training and Polish - Bulgarian Joint Research Project “Nanostructures at liquid/gas interfaces and stability of thin liquid films under static and dynamic conditions”, Interfaces and Colloids Institute of Physical Chemistry, Bulgarian Academy of Sciences, Sofia, Bulgaria (October 2014, 2 weeks).
- * COST “Colloidal Aspects of Innovative Processes and Materials CM1101” STSM Short Time Scientific Mission in dr. habil. Reinhard Miller research group at Max-Planck Institute for Colloids and Surface Chemistry, Golm/Potsdam, Germany (January 2014, 3 weeks).
- * COST “Smart and green interfaces MP1106” STSM Short Time Scientific Mission in prof. Nicolas Vandewalle and prof. Herve Caps research group at the GRASP (Group for Research and Applications in Statistical Physics), University of Liege, Belgium (January 2013, 4 weeks).
- * COST “Physics of droplets” P-21 STSM Short Time Scientific Mission in prof. Nicolas Vandewalle and prof. Herve Caps research group at the GRASP (Group for Research and Applications in Statistical Physics), University of Liege, Belgium (November 2009, 2 weeks).

Other research related activities:

Invited major seminar-lectures in abroad Universities: 15

Fluid Interfaces and Soft Matter Materials research group, Muenster University, Germany, 11.02.2019
 Mathematical Modelling and Analysis” (MMA) research group at Technische Universität Darmstadt, Germany, 14.01.2019
 Institute Charles Sadron, CNRS, Strasbourg 31.05.2018,
 Institute of Surface Chemistry, Bulgarian Academy of Sciences, Sofia 13.05.2018
 Fluid Interfaces and Soft Matter Materials research group, Muenster University, Germany, 06.09.2017
 Multiphase Flows Institute, Technische Universität Hamburg-Harburg, Germany, 30.05.2017,
 Laboratoire de Physique des Solides, Université Paris Sud., France 20.02.2017
 Institute of Chemical Process Fundamentals, Czech Academy of Science, 07.12.2016

University of Chemistry and Technology in Prague, Czech Republic, 28.11.2016
in Department of Chemistry and Pharmaceutical Engineering of Sofia University, Sofia, Bulgaria,
10.10.2016
Institute of Surface Chemistry, Bulgarian Academy of Sciences, Sofia 07.10.2016
Max-Planck Institute for Colloids and Surface Chemistry, Golm/Potsdam, Germany, 20th July
2016
Institute of Surface Chemistry, Bulgarian Academy of Sciences, Sofia 30.10.2014
Department of Physics, University of Liege, Belgium, 19.01.2007
Department of Physics, University of Liege, Belgium, 18.01.2007

Other professional experience of importance :

Memberships in scientific organizations:

American Chemical Society (regular member no. 30391398)
International Association of Colloid and Interface Scientists
European Colloid & Interface Society
Bioelectrochemical Society
Polish Chemical Society
SIMS NCBR project participants society - since June 2016y. The SIMS is the society linking
the participants of the National Center of Research and Development program SIMS Science
Infrastructure Management Supports
DAAD Alumni – German Academic Exchange Service Alumni Association
PolDoc Association – Polish scientific career development association.
France Alumni - Pologne association

Host of the research visits of scientists from foreign scientific institutions:

*dr. Georgi Gochev, from Westfälische Wilhelms-Universität Münster, Germany. Research visit (part
of joint bilateral project NAWA-DAAD), May 2019*

*dr. Francesca Ravera and dr. Eva Santini from Institute of Condensed Matter Chemistry and
Technologies for Energy CNR, research visit (part of joint bilateral project PAS-CNR), May 2019*

*dr. Georgi Gochev, from Westfälische Wilhelms-Universität Münster, Germany. Research visit (part
of joint bilateral project NAWA-DAAD), March 2019*

*dr. Francesca Ravera and dr. Eva Santini from Institute of Condensed Matter Chemistry and
Technologies for Energy CNR, research visit (part of joint bilateral project PAS-CNR), Nov. 2018*

*dr. Hristina Petkova from Interfaces and Colloids Institute of Bulgarian Academy of Science, research
visit (part of joint bilateral project PAS-BAS), 5 – 9 Nov. 2018*

*dr. Patrick Kekicheff from Institut Charles Sadron / Soleil synchrotron, France – study visit of foreign
researcher (program of Polish Academy of Science) 21-27 Oct. 2018*

*prof. Samina Yeganehzad from Research Institute of Food and Technology, Mashhad, Iran – research
visit 28.09.2018*

*dr. Georgi Gotchev from Fluid Interfaces and Soft Matter Materials research group, Muenster
University, Germany, research visit 24-29.06.2018*

*dr. Francesca Ravera and dr. Eva Santini from Institute of Condensed Matter Chemistry and
Technologies for Energy CNR, research visit (part of joint bilateral project PAS-CNR), June 2018*

*MSc Mohsen Dabestani, PhD student from Max-Planck Institute for Colloids and Surface Chemistry
MPI CSC, Golm/Potsdam, Germany, research visit April 2018*

dr. Francesca Ravera and dr. Eva Santini from Institute of Condensed Matter Chemistry and Technologies for Energy CNR, research visit (part of joint bilateral project PAS-CNR), September 2017

MSc Mohsen Dabestani, PhD student from Max-Planck Institute for Colloids and Surface Chemistry MPI CSC, Golm/Potsdam, Germany, research visit August 2017

dr. Pavlina Basarova. research group in University of Chemistry and Technology in Prague, Czech Republic. 15-18 Mai 2017 – research visit - Erasmus Plus

dr. F. Ravera I dr. E. Santini, research group in Institute of Condensed Matter Chemistry and Technologies for Energy, National Research Council, Genoa, Italy, 13-17 November 2017, research visit – bilateral project

MSc Mohsen Dabestani z Max Planck Institute for Colloids and Interfaces, research visit 7- 18 August 2017 – research visit

MSc Mohsen Dabestani z Max Planck Institute for Colloids and Interfaces, 27 November – 9 December 2017 – research visit

Scientific Review (and Expert) Activities:

Project expert / reviewer– National Center of Research and Development of Poland (Szybka ścieżka 2018), National Science Center of Poland (Preludium, Sonata, Opus 2019), Foundation for Polish Science, National Agency of Academic Exchange

Journals (reviewer) - Langmuir ACS (1x), Coll. Surf. A: (5x), Coll. Surf. B – Biointerfaces (3x); Journal of Colloids and Interfacial Science (1x), Experimental Thermal and Fluid Science (1x); Physicochemical Problems of Mineral Processing (2x).

Supervision:

2 PhD students (co-supervisor/advisor (promotor pomocniczy), **PhD** students work in my project NCN Opus 2016/21/B/ST8/02107) since March 2018,

Advisor of PhD student, 2019 - MSc Moshen Dabestani, Research Institute of Food Science and Technology (RIFST), Iran, Mashhad , PhD thesis title: “Influence of Some Additives on The Stability and Volume Changes of Egg White Powder Protein Foam”.

Public engagment:

* “How to understood the foams... - inspiration in science, art and architecture”, **M. Krzan**, lecture during the ”Open days” in J. Haber Institute of Catalysis and surface Chemistry PAS, 45 minutes, 25th November 2016. (The event was aimed for Polish high schools students)

* “Foaming – in serious and for fun... - about the impact of detergents of XXI century civilization”, **M. Krzan**, lecture during the “XII Summer Meeting with the Science”, as a part of “Baltic Festival of Science 2014” in Centre for Creative Work of the Institute of Hydraulic Engineering Sciences pas at the Wdzydze-Jelenie lake, Czarlina, 45 minutes, 9th August 2014,

* Television interview with me in France in Saclay Nuclear Research Center. I was representative of the Polish academic staff invited by French Atomic Energy and Alternative Energies Commission (CEA) in cooperation with z French National Institute for Nuclear Science and Technology (INSTN)

Additional Professional Courses:

Special trainings in the fields Project Management / Public Relations / Human Resource:

Research Team Management Training (Leadership and Management skills course for scientist) by Foundation for Polish Science (FPS) 2015,

- Project Management by FPS 2014,

- Project Management by SIMS project of the Polish National Center for Research and Development (NCRD) 2015,

- **Mentoring** (6th days training) by the Collegium Wratislaviense 2016,

Tutoring (8th days training) by the Collegium Wratislaviense 2017,

- Public engagement by FPS 2014,
- Negotiations by FPS 2014,
- Introduction for the mentoring by the Collegium Wratislaviense 2015,
- Communication, Public Relations and Marketing by SIMS project NCRD 2015,
- Creativity Lab - EUREKA! by SIMS project NCRD 2014,
- Strategy – research team strategy by SIMS project NCRD 2015,
- Law for scientists by SIMS project NCRD 2014,
- Innovative company management - business strategy game by FPS 2015

Intellectual Property law for scientists – by PolDoc Association – Polish scientific career development association, 2016

Protection of Intellectual and Industrial Properties for scientists (inventions, patents and patents research) by Maloposka Cluster Life Science (dr. eng. S. Błażej-Sosnowska and P. Godlewski), 2016

- Setting career goals. Training with elements of coaching – workshop by PolDoc Association – Polish scientific career development association, 2017

Special trainings in commercialization, courses in the fields of:

- **Strategic Thinking for Growing Your Enterprise (online) by Stanford University** 2016 (4 weeks), Stanford Business School, – successfully completed with Distinction, serving as a TEAM Leader of my own commercialization project.
- Commercialization of research results by FPS 2014,
- 3-Day Bioentrepreneurship Crash Course - Developing Business Skills in Life Sciences by Institute of Biocybernetics and Biomedical Engineering, PAS (Institute of Biocybernetics and Biomedical Engineering, IBIB PAN) 2015,
- Enterprise and initiative by FPS 2014,
- Presentation of research results in Social Media and Web 2.0, training for scientists by FPS 2014,
- Presentation of research results for Media and Business, training for scientists by FPS 2015,
- Business Development by SIMS project NCRD 2014,
- Finances - financial management by SIMS project NCRD 2015,
- Design Thinking by Malopolska Cluster Life Science 2014,
- Wikinomics for scientists by SIMS project NCRD 2015,
- Preparation for R&D activities -workshop Malopolska Cluster Life Science 2015,
- Wrap up, Kick off and Move to Next level – practical workshops in developing innovative technological solutions for scientists by SIMS project NCRD 2015,
- **Alpha-school** – two-days workshop for scientists, preparations for first contact with the investors. (diffusion of innovation, bussines model developments, models of cooperation with the bussines, Intellectual Property rights, presentatons for the investors). The worksop organised by Cracow Technology Park, 2016.
- **Business & Science Network** – professional training performed by PolDoc Association – Polish scientific career development association 2016
- **Public speaking, Elevator pitch** – 4.5 hours workshop during the Polish-American Innovative Bridge in Cracow November 2016 , trainers John Spence, Spencer Penhart and B. Józefowski

Special trainings in the field of international project applications – for applicants and/or reviewers/expert:

- Practical workshop and training in research and innovative project preparation for Horizon 2020 by Polish National Contact Point of EU research programs 2015.
- Practical workshop and training in project preparation for Horizon 2020 by provisional Contact Point of EU research programs 2016. (financial aspects of the applications).
- Practical workshop and training in innovative project preparation for InterReg Baltic Area and/or Central Europe EU programs 2016 by Polish Ministry of Infrastructure and Development 2016.
- Training for reviewers of innovative Polish and European research projects by Polish National Contact Point of EU research programs, Polish Ministry of Science and Higher Education and Polish National Center for Research and Development 2015.

- Training for reviewers European Horizon 2020 research projects by local Malopolska Contact Point of EU research programs – Cracow, 2016.
- Training for applicants of “SME Instrument” in European Horizon 2020 research projects by local Malopolska Contact Point of EU research programs – Cracow, 2017.
- Training for applicants of Polish National Center of Research and Development project “Szybka ścieżka - Fast way for SME” – 2017
- Training for experts of Polish National Center of Research and Development “Corruption in business” 2018
- Training for experts of Polish National Center of Research and Development “Corruption in public administration” 2018
- Training for experts of Polish National Center of Research and Development “Counteraction for corruption” 2018

Other professional courses:

- **Writing in Science course (online) by Stanford University** 2015 (8 weeks),
- Scientific writing course for advanced researchers by FNP 2015,
- Effective scientific publishing – training by « Amber Editing » 2017
- Matlab 2015
- Matlab - Simulink 2015
- Numerical computation using the super-computers Prometheus and Zeus from Cyfronet AHG -2017
- Programming in Python programming language for scientists – 2017
- GLP Good Laboratory Practice - implementation of the system and providing the highest quality testing in accordance with GLP rules – provided by “Lab-Ekspert Projekt Bioszkolenia” - 2017

Additional Information :

* Participations in various research projects (as a main researcher):

- “InlinePV In-line Processing of n+/p and p/p+ Junction System for Cheap Photovoltaic Module Production (core)” – Polish–Norwegian Research Project 2014-2016;
- “Enzymes as nanotools. Development of a new, enzymes based technology for engineering selectively permeable, nano-structured membranes. Application as sensing”, by Polish Ministry of Sciences and Higher Education, GDRE 1206/GR/2007/03 – European special project, budget ca. 500000 Euro, 2007-2010;
- „Investigation of the mechanism of action of collectors and modifiers flotation (Badanie mechanizmu działania kolektorów i modyfikatorów flotacji)“. PBZ-3/3/I-1.2b podzadanie badawcze projektu realizowanego przez Instytut Metali Nieżelaznych w Gliwicach - leader: Kazimierz Małysa, 2008-2009
- “Dynamic interaction of the moving micro objects (particles, drops and bubbles) with interfaces (COST-Spub PBS 45/N-COST/2007/0, budget 250000Euro, 2007-2010;
- “Hydrodynamic of the wet foams” ESA MAP A099-108. The aim was to inject liquid in the foam in zero gravitation environments and to study the time variation of the liquid volume fraction, predicted to be quite different due to disappearance of the drainage process, budget 283000Euro, 2004-2007 (during both postdocs);
- “Dynamic adsorption structure – influence of surface active substances on interfacial mobility”, by Polish Ministry of Sciences and Higher Education, 3T09A16427, budget ca. 125000Euro, 2004-2007;
- “Influence of various molecular structure of surface active agent on its adsorption and self-organisations on liquid interfacial layers – Wpływ struktury molekularnej substancji powierzchniowo aktywnej na ich adsorpcję i samoorganizację na ciekłych granicach międzyfazowych” State Committee for Scientific Research (KBN), project no. 4 T09A 038 24, for years 2003-2005;
- “Adsorption kinetics and its impact on the bubble motion and foam film stability” (Wpływ kinetyki adsorpcji i ruchu bańki na stabilność filmu pianowego), State Committee for Scientific Research (KBN), project no. 4 T09A 058 22, for years 1998-2002;

* Participations in Polish scientific network: SURUZ (Surfaktanty i układy zdyspergowane w teorii i praktyce), 2005-2007y;

* Participations in Polish Academy of Sciences research and mobility programs:

* „Dynamic properties of mixed interfacial layers» (Właściwości dynamiczne powierzchni międzyfazowych ze złożonymi warstwami adsorpcyjnymi”). Cooperation between PAS and UAN - leader: Kazimierz Małysa, 2015-2017

Other achievements / activities :

* **Member of the Scientific Board of Jerzy Haber Institute of Catalysis and Surface Chemistry PAS**

i) since Nov. 2016 till Dec. 2018;

ii) since Jan. 2019 – present.

* **Membership of Organization committees of International Scientific Conferences:** i) VXI International conference of Polish Chemical Society, Cracow 17-21 September 2018, ii) 5th International Workshop Bubble and Drop Interfaces B&D 2012, Kraków, 2012, 20-24.05.2012; iii) XLIV Polish Catalytic Conference – “Catalysis in the environmental protection” Kraków, 2012 iv) XLIII Polish Catalytic Conference – “Catalysis in the environmental protection Kraków, 2011 ; v) XLII Polish Catalytic Conference – “Catalysis in the environmental protection Kraków, 2010 ; vi) XLI Polish Catalytic Conference – “Catalysis in the environmental protection Kraków, April 2009, vii) XL Polish Catalytic Conference – “Catalysis in the environmental protection Kraków, 2008

* **Membership in editorial board** of XLI Polish Catalytic Conference – “Catalysis in the environmental protection Kraków, April 2009 (R. Gryboś, M. Krzan, B. Sulikowski Eds.) IKiFP PAN, Kraków, 2009, pp.153 [ISBN 978-83-60414-09-2].

Hobbies:

* amateur radio – under my callsign SP9XWD I am active in the short and ultrashort wave amateur radio frequencies since 1994.

* Hapkido /Korean martial art – Deputy Blue Belt (green belt with blue horizontal stripe won in 2018), running and tracking, mountain climbing and caves exploring.

* theatre, opera, philharmonic.

Publications:

Hirsh index – **10** (Web of Knowledge WoK), **12** (Google Scholar GS)

Total citation number: 466 (total) / 413 (without self-citations) (WoK), 647 (total - GS), 665 (total - my calculations).

Scientific book chapters: 2

Peer-review articles in journals JCR/ISI: 28

Other scientific journals: 4

Peer-review articles in proceedings of international conferences: 9

Oral presentations: >52 (**>26 times I was a presenting author**)

Poster presentations: >47

Invited seminar in abroad Universities/scientific Institutes: 15

A. Chapters in scientific books:

● **M. Krzan**, A. Kulawik-Pióro, B. Tyliszczak „Foams stabilized by particles” chapter 15 in book “Foam Films and Foams: Fundamentals and Application” (D. Exerowa, G. Gochev, D. Platikanov, L. Liggieri and R. Miller (Eds.)), book in series of “Progress in colloids and Interfacial Science” in preparation, 2018, ISBN 9781466587724, pp. 279-294, **IF 0, cited 0x**,

● **K. Malysa**, J. Zawala, M. Krzan, M. Krasowska, „Bubble rising in solutions, local and terminal velocities, shape variations and collisions with free surface”, chapter 11 in book "Bubble and Drops

Interfaces" ISBN 9789004174955, book in series of "Progress in Colloids and Interfacial Science" published 2011, pp. 243-292, **IF 0, cited 23xGS (16x WoK)**

B. Publications in peer-reviewed international scientific journals JCR/ISI:

- **E. Santini, E. Jarek, F. Ravera, L. Ligierrri, P. Warszynski, M. Krzan**, „Surface properties and foamability of saponin and saponin-chitosan systems”, *Coll. Surf. B*, May 2019 DOI: [10.1016/j.colsurfb.2019.05.035](https://doi.org/10.1016/j.colsurfb.2019.05.035), **IF 4.4, cited 0x**
- **K. Harazny, K. Walas, P. Urbańska, T. Witko, W. Snoch, A. Siemek, B. Jachimska, M. Krzan, B. Napruszewska, M. Witko, S. Bednarz, M. Guzik**, „Polyhydroxyalkanoate derived hydrogen bond donors for synthesis of new Deep Eutectic Solvents”, *Green Chemistry*, DOI 10.1039/C9GC00387H, **IF 8.586, cited 0x**
- **P. Chattopadhyay, M. Chauhan, M. Krzan, A. Karthick**, Surfactant Foam stabilized by Ethylene Glycol and Allyl Alcohol for the remediation of diesel contaminated soil, *Environmental Technology and Innovation*, 14 (2019) 100363, **IF 0.757, cited 0x**
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- **Mosiałek, A. Kędra, M. Krzan, E. Bielańska, M. Tatko**, „Ba_{0.5}Sr_{0.5}Co_{0.8}Fe_{0.2}O_{3-d}-La_{0.6}Sr_{0.4}Co_{0.8}Fe_{0.2}O_{3-d} composite cathode for solid oxide fuel cell”, *Arch. Metal. Mater.* 61 (2016) 1137-1142 , **IF 1.09, cited 1x WoK**
- **Jarek E., Warszynski P., Krzan M.**, “Influence of various electrolytes on bubble motion in ionic surfactant solutions”, *Colloid Surf. A*; 505 (2016) 171-176, DOI: 10.1016/j.colsurfa.2016.03.071, **IF 2.834, cited 2xGS (0x WoK)**
- **J. Olszówka, R. Karcz, B. Napruszewska, E. Bielańska, R. Dula, M. Krzan, M. Nattich-Rak, R.P. Socha, A. Klimek, K. Bahranowska, E.M. Serwicka**, „Magnesium and/or calcium-containing natural minerals as ecologically friendly catalysts for the Baeyer–Villiger oxidation of cyclohexanone with hydrogen peroxide” *Applied Catalysis A: General* 509 (2016) 52-65, **IF 4.354, cited 8xPoP (6x WoK)**
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 - **M. Krzan**, J. Zawala, M. Krasowska, K. Malysa “Bubble motion as a method of detection of organic contaminations in water” – OILS&ENVIROINMET (2005) editors: J. Hupka, R. Aranowski, ISBN 83-914495-1-3 (2005) 170-177, DOI: 10.13140/RG.2.1.4298.5685
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Systems in Theory and Practice (2005) editor: K.A. Wilk, ISBN 83-920032-3-3 (2005) 115-118, DOI: 10.13140/RG.2.1.3774.2806 **IF 0, cited 1xPoP**

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• **D. Non-refereed contributions - conference posters or oral presentations:** > 52 orals / > 47 posters

M. Kabat, P. Warszński, M. Krzan, E. Jarek, Preparation and physicochemical characterization of emulsions produced using selected biosurfactants and proteins, European Student Colloid conference 2019, Varna 18-22 June 2019, (oral)

• M. Krzan, G. Gotchev, Ch. Honnigfort, M. Schnurbus, P. Warszynski, B. Braunschweig, „Bubble rising velocities as a surface-activity indicator in photo-switchable surfactant solutions”, Bubble and Drops conference, Sofia 24-28 June 2019, (poster)

• M. Schnurbus, M. Kabat, M. Krzan, B. Braunschweig, “Using light and pH for changing interfacial properties, changing state and foam stability”, Bubble and Drops conference, Sofia 24-28 June 2019, (poster)

• E. Jarek, M. Krzan, P. Warszynski, E. Santini, L. Ligierrri, F. Ravera, Properties of binary saponin – chitosan solutions: adsorption and stability of foams and emulsions, ECIS European Colloids and Surfactant conference, Leuven, Belgium 8-13 September 2019 (oral)

• M. Krzan, E. Jarek, P. Warszynski, E. Santini, L. Ligierrri, F. Ravera, "Surface properties and foamability of saponin and saponin-chitosan systems", Bubble and Drops conference, Sofia 24-28 June 2019, (oral)

• A. Czakaj, M. Krzan, P. Warszynski, Linear viscoelastic properties of cellulose nanocrystals – lauroyl ethyl arginate, Annual European Rheology Conference AERC 2019, Prohors, Slovenia, 8-11 April 2019 (oral)

• M. Kabat, P. Warszński, M. Krzan, E. Jarek, M. Nattich-Rak, Preparation and physicochemical characterization of emulsions produced using selected biosurfactants and proteins, ECIS European Colloids and Surfactant conference, Leuven, Belgium 8-13 September 2019 (poster)

• M. Kabat, P. Warszynski, M. Krzan, A. Czakaj, E. Jarek, „Otrzymywanie oraz charakterystyka fizykochemiczna emulsji wytworzonych przy użyciu biosurfaktantów i białka, konferencja „Fizykochemia bez granic” Uniwersytet Marii Curie Skłodowskiej, Lublin maj 13-17, 2019rok, (oral)

- F.Ravera, E.Santini, L.Ligieri, M.Krzan, E.Jarek, P.Warszyński, "Surface properties and foamability of Saponine and Chitosan solutions", 32nd conference of The European Colloid and Interface Society" Ljubljana, slovenia, 2nd-7th September 2018, ebook of abstract p.176 poster
- Ewelina Jarek, Eva Santini, Agnieszka Czakaj, Małgorzata Kabat, Francesca Ravera, Libero Liggieri, Piotr Warszyński, Marcel Krzan, Surface properties of Saponin and Chitosan solutions in relation to their foamability, 61st Polish Chemical Society conference, 17-21 September 2018, Cracow, Poland (oral)
- Agnieszka Czakaj, Małgorzata Kabat, Ewelina Jarek, Marcel Krzan, Piotr Warszyński, Foaming and emulsifying properties of cellulose nanofibers – lauroyl ethyl arginate, 61st Polish Chemical Society conference, 17-21 September 2018, Cracow, Poland (oral)
- Katarzyna Haraźna, Tomasz Witko, Daria Solarz, Małgorzata Witko, Marcel Krzan, Andrzej Bojarski, Maciej Guzik „Biophysical studies on biocompatible polymers for medical applications - polyhydroxyoctanoate (PHO)” 4th International Conference on Biomedical Polymers & Polymeric Biomaterials 15-18 July 2018 (poster)
- M. Krzan, G. Khachatryan, K. Khachatryan, M. Krystyjan, Formation and properties Starch-graphene oxide bionanocomposite films” Eufoam 2018, Liege, Belgium, 10-12 July 2018 (poster)
- M. Krzan, M. Dabestani, S. Yeganehzad, R. Miller “Influence of pH variations on surface properties in saponin / egg white proteins / Persian gum solutions and their mixtures”, Eufoam 2018, Liege, Belgium, 10-12 July 2018 (oral)
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- M. Krzan, S. Kudłacik-Kramarczyk, A. Drabczyk, B. Tylińczak, „Studies of hydrogel matrices based on polysaccharides”, 7th Bubble and Drops international workshop, Lyon 26-30 June 2017, (poster B16)
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- M. Krzan, E. Jarek, H. Petkova, E. Santini, V. Ungalantha, M. Lofti, A. Javadi, E. Mileva, P. Warszyński, R. Todorov, F. Ravera, L. Liggieri, R. Miller, D. Exerowa., “Biodegradable aqueous foams based on xanthan and gellan gums”, SGI-FunC Syposium as a part of COST Smart and Green Interfaces program, 4th-6th May, Athens, Greece, Book of Abstract p. 103 (poster)
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- Ulaganathan V., Gochev G., Krzan M., Dukhin S.S., Gehin-Delval C. and Miller R., “Effect of pH and salt concentration on velocity of rising bubbles in Beta-Lactoglobulin solution”, Bubble and Drops interfaces conference, Golm-Potsdam, Niemcy, 6-10 July 2015, (oral)
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