DR. RER. NAT. ALLA SYNYTSKA

General Information

Date of birth:	13.07.1974
Gender:	Female
Citizenship:	German
Work adress:	Leibniz-Institut für Polymerforschung Dresden e.V. (IPF) Hohe Str. 6, 01069 Dresden, Germany
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Current position:	Head of Department Polymer Interfaces, lecturer at TU Dresden
Parental leave:	07/1998 - 07/1999 (12 months), 06/2010 - 06/2011 (12 months)

University Training and Degree

1991-1996	Chemistry, Ivan Franko Lviv National University, Ukraine, Diploma graduation

Advanced Academic Qualifications

2002-2005	Doctorate: Physical Chemistry of Polymers, TU Dresden, Germany
2012-2017	Habilitation (defence is scheduled for 13.11.2018): Polymer Chemistry and Polymer Physics, TU Dresden, Germany

Postgraduate Professional Career

2017 - Present	Head of Department Polymer Interfaces Leibniz-Institut für Polymerforschung Dresden e.V. (IPF), Germany
2012 - 2017	Technical University of Dresden, Germany **Habilitation, defence is scheduled for 13.11.2018** Topic: *Hairy Janus Particles: From Development and Assembly towards Different Facets of Applications*
2009 - 2016	Leibniz-Institut für Polymerforschung Dresden e.V. (IPF), Germany **Group Leader** Topic: *Multifunctional particles with advanced architectures and intelligent materials based on them*
2011	ESPCI Paris Tech Laboratory of Soft Matter Science and Engineering, France Group of Prof. C. Creton **Visiting scientist** Topic: *Switchable adhesive materials*
2006 - 2008	Leibniz Institute of Polymer Research Dresden, Germany Group of Prof. M. Stamm **Postdoctoral researcher** Topic: *Stimuli-responsive polymers and fimls*
2005	University of Modena, Italy Group of Prof. F. Pilati **Visiting scientist/ Postdoctoral researcher** Topic: *Block copolymers; synthesis and structural characterisation*

Selected Teaching Activities

Since 2009	Master courses: “Polymers at Interfaces”, “Modern Topics in Physical Chemistry of Polymers”, “Soft Matter: Experimental Methods in Polymer Physics“, “Nanostructures at Interfaces and Films“.

Selected Scientific Activities

Since 2017	Reviewer of research proposals for: German Research Councile (DFG), Austria Research Councile (OEFG)

Since 2016	Reviewer of research proposals for: Alexander von Humbolt Foundation (AvH), European Commission (COST), Netherlands Organization for Scientific Research

Selected Scientific Projects (PI and Coordinator)

2015 - 2019	EU “Training in Bio-Inspired Design of Underwater Smart Adhesive Materials”, Marie Sklodowska-Curie Innovative Training Network H2020-MSCA-ITN-2014
2014 - 2019	DFG “Synthesis and Self-Assembly of Stimuli-Responsive Core-Shell Janus Particles“
2017 - 2019	AiF “Entwicklung von schaltbaren Janus-Partikeln zur Immobilisierung und zum mehrfachen Einsatz von Enzymen in technischen Prozessen“

Scientific Achievements & Recognitions

H-index > 28 (according to Google Scholar, October 2018)
91 publications (according to Google Scholar, October 2018)
Number of citations: > 1980 (according to Google Scholar, October 2018)

2015	Nomination for AcademiaNet from the Leibniz Association - Expert Database of Outstanding Female Academics
2015	Award from the Leibniz Association for the participation in Leibniz-Mentoring-Program 2014/2015
2014	Innovation Award, Coatings Science International Conference COSI 2014, (Noordwijk, Netherlands)
2014	Poster Award, 20th Ostwald-Kolloquium “Particles & Interfaces” (Mainz, Germany)
2011	Certificate of Appreciation from ACS Journals Publishing Group
2009	Poster Award, Bayreuth Polymer Symposium BPS`09 (Bayreuth, Germany)
2009	Poster Award, 12th European Polymer Congress EPF'09 (Graz, Austria)
2005	Award from the Leibniz Association for the Best PhD thesis in year 2005

Representative Publications

1. M. Zanini, C. Marschelke, S. Anachkov, E. Marini, **A. Synytska** and L. Isa, Rough Particles at liquid-liquid interfaces: arrested adsorption and “universal” emulsion stabilization ***Nature Communication*** 2017, 8, 15701

2. A. Kirillova, C. Marschelke, J. Friedrichs, C. Werner, and **A. Synytska**, Hybrid Hairy Janus Particles as Building Blocks for Anti-Biofouling Surfaces ***ACS Appl. Mater. Interfaces****,* 2016, 8 (47), pp 32591–32603

3. A. Kirillova, L. Ionov, I. Roismann, and **A. Synytska**, Hybrid Hairy Janus Particles for Anti-Icing and De-Icing Surfaces: Synergism of Properties and Effects ***Chemistry of Materials*** 2016, 28 (19), pp 6995–7005

4. A. Kirillova, G. Stoychev, and **A. Synytska**, Programmed Assembly of Oppositely Charged Homogeneously Decorated and Janus Particles ***Faraday Discussions*** 2016, 191, 89-104

5. A. Kirillova, C. Schliebe, G. Stoychev, A. Jakob, H. Lang, and **A. Synytska*** Hybrid Hairy Janus Particles Decorated with Metallic Nanoparticles for Catalytic Applications ***ACS Appl. Mater. Interfaces****,* 2015*,* 7 (38), pp 21218–21225

6. A. Kirillova, G. Stoychev, L. Ionov, and **A. Synytska**, Self-assembly behaviour of colloidal particles with different architectures: mixed vs. Janus, ***Langmuir*** 2014, 30, 12765-12774.

7. A. Kirillova, G. Stoychev, L. Ionov, K.-J. Eichhorn, M. Malanin, and **A. Synytska**, Platelet Janus Particles with Hairy Polymer Shells for Multifunctional Materials ***ACS Applied Materials and Interfaces*** 2014, 6 (15), 13106-13114

8. **A. Synytska**, A. Kirillova, L. Isa, Synthesis and Contact-Angle Measurements of Janus Particles, ***CHEMPLUSCHEM*** 2014, 79, 656-661

9. **A. Synytska** and Ionov, L. Stimuli-responsive Janus particles ***Particle & Particle Systems Characterization*** 2013, 30 (11), 922-930

10. S. Berger, L. Ionov and **A. Synytska**, Engineering of Ultrahydrophobic Functional Coatings Using Controlled Aggregation of Bicomponent Core-Shell Janus Particles ***Advanced Functional Materials***, 2011, 21 (12), 2338–2344.