



ACADEMIC TEACHER PROFESSIONAL EXPERIENCE

DOCTORAL SCHOOL OF WROCLAW UNIVERSITY OF SCIENCE AND TECHNOLOGY

1. Basic information

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|---|---|
| Name, surname: | Sylwia Ronka |
| Grade / Title: | Ph.D., Eng. |
| Scientific discipline | nauki chemiczne / chemical sciences |
| Faculty: | W3 Wydział Chemiczny / Faculty of Chemistry |
| Email address: | sylwia.ronka@pwr.edu.pl |
| Link to home page and/or research profiles (Google Scholar, ResearchGate, etc.) | https://www.researchgate.net/profile/Sylwia-Ronka |

2. Publication record

Up to 10 most important papers published over the period of previous 10 years.

| No. | Description (authors, publication title, journal / conference, DOI) | Publication year |
|-----|---|------------------|
| 1. | S. Ronka, A. Kowalczyk, D. Baczyńska, A.K. Żołnierczyk, Pluronic-based drug delivery systems for flavonoids anticancer treatment. Gels. 2023, vol. 9, nr 2, art. 143, s. 1-16. https://doi.org/10.3390/gels9020143 | 2023 |
| 2. | S. Ronka, M. Kucharski, Application of novel polymeric, highly specific adsorbent for the removal of terbuthylazine from complex environmental samples. International Journal of Environmental Analytical Chemistry. 2022, vol. 102, nr 16, s. 3880-3893. https://doi.org/10.1080/03067319.2020.1776862 | 2022 |
| 3. | A. Negrea, S. Ronka, M. Ciopec, N. Duteanu, P. Negrea, M. Mihailescu, Kinetics, thermodynamics and equilibrium studies for gold recovery from diluted waste solution. Materials. 2021, vol. 14, nr 18, art. 5325, s. 1-15. https://doi.org/10.3390/ma14185325 | 2021 |
| 4. | N. Fontanals, J. Zohar, F. Borull, S. Ronka, R.M. Marcé, Development of a maleic acid-based material to selectively solid-phase extract basic compounds from environmental samples. Journal of Chromatography. A. 2021, vol. 1647, art. 462165, s. 1-8. https://doi.org/10.1016/j.chroma.2021.462165 | 2021 |
| 5. | S. Ronka, W. Bodylska, Sorption properties of specific polymeric microspheres towards desethyl-terbuthylazine and 2-hydroxy-terbuthylazine: batch and column studies. Materials. 2021, vol. 14, nr 11, art. 2734, s. 1-20. https://doi.org/10.3390/ma14112734 | 2021 |
| 6. | T. Bereta, E. Mieczynska, S. Ronka, W. Tylus, A.M. Trzeciak, Effect of solvent in the hydrogenation of acetophenone catalyzed by Pd/S-DVB. New Journal of Chemistry. 2021, vol. 45, nr 11, s. 5023-5028. https://doi.org/10.1039/D1NJ00219H | 2021 |
| 7. | S. Ronka, S. Targońska, Gold(III) ions sorption on sulfur-containing polymeric sorbent based on 2,2'-thiobisethanol dimethacrylate. Separation Science and Technology. 2020, vol. 55, nr 12, s. 2158-2169. https://doi.org/10.1080/01496395.2019.1609033 | 2020 |



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| 8. | Ł. Lamch, S. Ronka, P. Warszyński, K. Wilk, NMR studies of self-organization behavior of hydrophobically functionalized poly(4-styrenesulfonic-co-maleic acid) in aqueous solution. <i>Journal of Molecular Liquids</i> . 2020, vol. 308, art. 112990, s. 1-11. https://doi.org/10.1016/j.molliq.2020.112990 | 2020 |
| 9. | S. Ronka, New sulfur-containing polymeric sorbents based on 2,2'-thiobisethanol dimethacrylate. <i>Pure and Applied Chemistry</i> . 2019, vol. 91, nr 3, s. 409-420. https://doi.org/10.1515/pac-2018-0910 | 2019 |
| 10. | S. Ronka, Removal of triazine-based herbicides on specific polymeric sorbent: batch studies. <i>Pure and Applied Chemistry</i> . 2016, vol. 88, nr 12, s. 1167-1177. https://doi.org/10.1515/pac-2016-0906 | 2016 |

3. Projects and grants

List of the most important 5 projects/grants with basic description including: title, source(s) of funding, name of the call, role in the project (e.g., principal investigator).

| | | |
|----|---|--|
| 1. | Role in the project (e.g., principal investigator, work package leader, etc.) | investigator |
| | Project title | Reactive silicone surfactants for hydrophobization of interfacial surfaces - Process Analysis Technology (PAT). |
| | Sources of funding | National Science Centre |
| | Name of the call | NCN SONATA 17 UMO-2021/43/D/ST8/01992 |
| | Implementation period | 10.2022-10.2025 |
| 2. | Role in the project (e.g., principal investigator, work package leader, etc.) | project manager |
| | Project title | New adsorbents for desulfurization of liquid hydrocarbon fuels. |
| | Sources of funding | Ministry of Science and Higher Education. |
| | Name of the call | N N209 4140 39 |
| | Implementation period | 09.2010-09.2012 |
| 3. | Role in the project (e.g., principal investigator, work package leader, etc.) | investigator |
| | Project title | Water-absorbing geocomposites - innovative technologies supporting plant vegetation. |
| | Sources of funding | European Regional Development Fund under the Innovative Economy Operational Programme |
| | Name of the call | POIG.01.03.01-00-181/09-01 |
| | Implementation period | 09.2010-03.2013 |
| 4. | Role in the project (e.g., principal investigator, work package leader, etc.) | investigator |
| | Project title | Intermetallic alloys absorbing hydrogen and permanent magnets based on lanthanides - development of nanocomposite hard magnetic materials based on domestic raw materials. |
| | Sources of funding | WCB EIT+ project |
| | Name of the call | WCB/9/VII/2010 |
| | Implementation period | 07.2010-07.2014 |



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|----|---|---|
| 5. | Role in the project (e.g., principal investigator, work package leader, etc.) | project manager |
| | Project title | New carbon adsorbents from chemically modified suspension polymers. |
| | Sources of funding | Ministry of Science and Higher Education |
| | Name of the call | 3 T09B 052 28 |
| | Implementation period | 05.2005-11.2007 |

4. International experience

Brief description of international cooperation and experience (e.g., research stays, cooperation with foreign entities, coordination or participation in international projects or programmes, keynote speeches and presentations delivered at renowned international conferences, visiting professor stays, invited lectures).

| No. | Description | Year(s) |
|-----|--|-----------|
| 1. | Scientific internship 02-05.2020: Loughborough University, Chemical Engineering Department, Advanced Biologicals and Phage Bioprocessing Research Group, Loughborough, United Kingdom | 2020 |
| 2. | Scientific internship 07.2019: Politehnica University of Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, Research Institute for Renewable Energies, Timisoara, Romania | 2019 |
| 3. | Erasmus Teaching Mobility 05.2019: University Rovira i Virgili, Faculty of Chemistry, Department of Analytical Chemistry and Organic Chemistry, Tarragona, Spain | 2019 |
| 4. | Erasmus Teaching Mobility 04.2019: Politehnica University of Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, Timisoara, Romania | 2019 |
| 5. | Erasmus Staff Training Mobility 10.2018: Dzemal Bijedic University of Mostar, Faculty of Education, Department of Chemistry, Mostar, Bosnia and Herzegovina | 2018 |
| 6. | Erasmus Staff Training Mobility 03.2018: Istanbul University, Faculty of Engineering, Department of Chemical Engineering, Istanbul, Türkiye | 2018 |
| 7. | Erasmus Staff Training Mobility 05.2014: Afyon Kocatepe University, Faculty of Engineering, Department of Chemical Engineering, Afyon, Türkiye | 2014 |
| 8. | Erasmus Teaching Mobility 09.2013: Yildiz Technical University, Department of Bioengineering, Chemical Engineering and Metallurgical and Materials Engineering, Istanbul, Türkiye | 2013 |
| 9. | Erasmus Teaching Mobility 05.2013: Instituto Politecnico de Braganca, Department of Technology and Management, Braganca, Portugal | 2013 |
| 10 | Member of the review panel of scientific conferences: 1st - 6th International Conferences on Methods and Materials for Separation Processes - Separation Science Theory and Practice. | 2011-2024 |
| 11. | Member of the international experts committee for the defense of the doctoral thesis of Joan Carles Nadal Lozano's doctoral thesis, entitled "Evaluation of novel mixed-mode ion-exchange materials to address environmental analytical problems", Universitat Rovira i Virgili, Tarragona, Spain, 2023. | 2023 |
| 12. | In 2022, financing (4432/GGPJ5-21/H2020/0) was obtained as Grants for Grants - Quality Promotion III, in connection with the development of a | 2022 |



| | | |
|-----|---|-----------|
| | project proposal for the European Union research program "SAFER - Addressing systemic challenges for achieving a zero-pollution environment related to persistent and mobile chemicals (PMCs) stemming from wastewater and sludge" which was submitted on January 27, 2021, for the call for proposals with the identifier H2020-LC-GD-2020-3 under the European Union research program - Horizon 2020 - Societal Challenges, 06.2022, leader of the working package WP1 - Enhancing analytical methods for monitoring of PMCs in H2020-LC-GD-2020-3. | |
| 13. | <p>The results of my research were presented at international conferences, including authorship/co-authorship: 14 oral presentations (7 as presenting author, including 2 by invitation) and 23 posters (18 as presenting author). Below are some examples:</p> <p><i>Invited oral presentation:</i> S. Ronka, "Sulfur containing polymeric sorbents", International Conference of Ion Exchange ICIE2014, Okinawa, Japan, 2014.</p> <p><i>Invited oral presentation:</i> S. Ronka, "Polymer-derived carbon materials and their sorptive properties", 8th IUPAC International Conference on Novel Materials and their Synthesis (NMS-VIII) & 22nd International Symposium on Fine Chemistry and Functional Polymers (FCFP-XXII), Xi'an, China, 2012.</p> <p><i>Oral presentation:</i> S. Ronka, M. Kucharski, "Specific polymer adsorbent for the removal of terbuthylazine and its derivatives from waters", PolyChar 27 World Forum on Advanced Materials, Naples, Italy, 2019.</p> <p><i>Oral presentation:</i> S. Ronka, "Sulfur-containing polymeric sorbents", Polymers and Organic Chemistry, POC2018, Palavas-les-Flots, France, 2018.</p> <p><i>Oral presentation:</i> S. Ronka, "Removal of triazine-based herbicide on specific polymeric sorbent. Batch and fixed bed column studies", Polymers and Organic Chemistry, POC2016, Hersonissos, Greece, 2016.</p> <p><i>Oral presentation:</i> S. Ronka, "Selective polymeric adsorbents for triazines removal", Polymers and Organic Chemistry, POC2014, Timisoara, Romania, 2014.</p> <p><i>Oral presentation:</i> S. Ronka, "Polymer-derived carbon materials and their characterization", International Porous and Powder Materials Symposium and Exhibition, PPM2013, Izmir, Türkiye, 2013.</p> | 2008-2023 |

5. Experience in teaching doctoral students

Brief description of experience in teaching doctoral students (e.g., courses in doctoral schools and PhD studies, summer/winter schools for doctoral students, tutorials, trainings, etc.).

| No. | Description | Year(s) |
|-----|---|---------|
| 1. | Modern macromolecular engineering materials | 2024 |
| 2. | | |
| 3. | | |

6. List of supervised doctoral students

List of all supervised doctoral students that defended the PhD including: name of the student, dissertation title, year of awarding PhD.



| No. | Name, surname | Dissertation title | Year of awarding PhD |
|-----|---------------|--------------------|----------------------|
| 1. | | | |
| 2. | | | |
| 3. | | | |

7. Prizes and awards

The most important national and international prizes and awards related to research, development and teaching activities.

| No. | Description | Year |
|-----|--|------|
| 1. | I was awarded the Rector's Award of Wrocław University of Science and Technology in recognition of my outstanding contribution to the University's activities. | 2020 |
| 2. | | |
| 3. | | |

8. Other significant achievements

Information on other significant achievements related to research, development and teaching activities.

In 2010-2011, I completed a two-semester postgraduate studies titled "Project Management and Commercialization of Research Results. Postgraduate studies for employees of scientific institutions and entities operating for the benefit of science" co-financed by the European Social Fund (ESF) under the Operational Program Human Capital Priority IV: Higher Education and Science, Action 4.2: Development of qualifications of R&D staff and increasing awareness of the role of science in economic development.

In 2012, I obtained the IPMA-Level D: Certified Project Management Associate certificate, according to the International Project Management Association methodology.

In 2018-2019, I participated in the project "Innovative University - Innovative Teacher" implemented under the Knowledge Education Development Operational Program; Higher Education for the Economy and Development; Management in Higher Education, funded by the European Social Fund (ESF), and obtained certificates from the following courses:

1. Professional workshop for academic teachers.
2. Action Learning - how to learn effectively.
3. Learning by doing - active methods of working with students.
4. Coaching as an effective method of working with students.
5. Innovations in adult learning.
6. Stress management and anti-stress training.
7. Assertiveness, enforcement and defense against manipulation.
8. Techniques for dealing with student aggression and managing one's own emotions in difficult situations.

In 2019, as part of the "Innovative University - Innovative Teacher" project implemented under the Knowledge Education Development Operational Program; Higher Education for the Economy and Development; Management in Higher Education, funded by the European Social Fund (ESF), I completed the TUTOR SCHOOL.



In 2014, I implemented the Lower Silesian Voucher for Innovation - a project co-financed by the European Union from the European Social Fund under Sub-action 8.2.1 of the Human Capital Operational Program.

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