



ACADEMIC TEACHER PROFESSIONAL EXPERIENCE

DOCTORAL SCHOOL OF WROCLAW UNIVERSITY OF SCIENCE AND TECHNOLOGY

1. Basic information

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| Name, surname: | Lech Sznitko |
| Grade / Title: | Doctor of Science, Bachelor of Engineering |
| Scientific discipline | inżynieria materiałowa / materials engineering |
| Faculty: | W3 Wydział Chemiczny / Faculty of Chemistry |
| Email address: | lech.sznitko@pwr.edu.pl |
| Link to home page and/or research profiles (Google Scholar, ResearchGate, etc.) | https://wch.pwr.edu.pl/pracownicy/lech-sznitko https://www.researchgate.net/profile/Lech-Sznitko |

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. | Karpinski Pawel; Sznitko Lech; Wisniewska-Belej Monika; Miniewicz Andrzej; Antosiewicz Tomasz J, <i>Optically Controlled Development of a Waveguide from a Reservoir of Microparticles (2023)</i> , Small Methods Volume 7, Issue 720, Article number 2201545, DOI 10.1002/smtd.202201545 | 2023 |
| 2. | Lupinska Kamila; Durko-Maciag Martyna; Andraud Chantal; Bretonnière Yann; Hanczyc Piotr; Fita Piotr; Szulim Piotr; Mysliwiec Jaroslaw; Sznitko Lech, <i>One- and two-photon lasing from a TCF-based AIE dye (2023)</i> , Journal of Materials Chemistry C, Volume 11, Issue 14, Pages 4937 - 4945, DOI 10.1039/D2TC04673C | 2023 |
| 3. | Sznitko Lech; Chtouki Tarek; Sahraoui Bouchta; Mysliwiec Jaroslaw, <i>Bichromatic Laser Dye As a Photonic Random Number Generator (2021)</i> , ACS Photonics, Volume 8, Issue 6, Pages 1630 – 1638, DOI 10.1021/acsp Photonics.0c01927 | 2021 |
| 4. | Wang Lei; Bäcklund Fredrik G.; Yuan Yusheng; Nagamani Selvakumaran; Hanczyc Piotr; Sznitko Lech; Solin Niclas, <i>Air-Water Interface Assembly of Protein Nanofibrils Promoted by Hydrophobic Additives (2021)</i> , ACS Sustainable Chemistry & Engineering, Volume 9, Issue 28, Pages 9289 – 9299, DOI 10.1021/acssuschemeng.1c01901 | 2021 |
| 5. | Adamow Alina; Szukalski Adam; Sznitko Lech; Persano Luana; Pisignano Dario; Camposeo Andrea; Mysliwiec Jaroslaw, <i>Electrically controlled white laser emission through liquid crystal/polymer multiphases (2020)</i> , Light: Science and Applications, Volume 9, Issue 11, Article number 19, DOI 10.1038/s41377-020-0252-9 | 2020 |
| 6. | Sznitko Lech; Romano Luigi; Camposeo Andrea; Wawrzynczyk Dominika; Cyprych Konrad; Mysliwiec Jaroslaw; Pisignano Dario, <i>Interplay of Stimulated Emission and Fluorescence Resonance Energy Transfer in Electrospun Light-Emitting Fibers (2018)</i> , Journal of Physical Chemistry C, Volume 122, Issue 1, Pages 762 – 769, DOI 10.1021/acs.jpcc.7b09125 | 2018 |



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| 7. | Hanczyc Piotr; Sznitko Lech; Zhong Chengmei; Heeger Alan J., <i>Stimulated Emission from Rhodamine 6G Aggregates Self-Assembled on Amyloid Protein Fibrils (2015)</i> , ACS Photonics, Volume 2, Issue 12, Pages 1755 - 1762, DOI 10.1021/acsp Photonics.5b00458 | 2015 |
| 8. | Sznitko Lech; Mysliwiec Jaroslaw; Miniewicz Andrzej, <i>The role of polymers in random lasing (2015)</i> , Journal of Polymer Science, Part B: Polymer Physics, Volume 53, Issue 14, Pages 951 – 974 , DOI 10.1002/polb.23731 | 2015 |
| 9. | Camposeo Andrea a; Del Carro Pompilio; Persano Luana; Cyprych Konrad; Szukalski Adam; Sznitko Lech; Mysliwiec Jaroslaw; Pisignano Dario, <i>Physically transient photonics: Random versus distributed feedback lasing based on nanoimprinted DNA (2014)</i> , ACS Nano, Volume 8, Issue 10, Pages 10893 - 10898, DOI 10.1021/nn504720b | 2014 |
| 10. | Mysliwiec Jaroslaw; Sznitko Lech; Sobolewska Anna; Bartkiewicz Stanislaw; Miniewicz, Andrzej, <i>Lasing effect in a hybrid dye-doped biopolymer and photochromic polymer system (2010)</i> , Applied Physics Letters, Volume 96, Issue 142010, Article number 141106. DOI 10.1063/1.3377912 | 2010 |

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.) | Principial Investigator |
| | Project title | Randomiczna akcja laserowa w wybranych układach organicznych |
| | Sources of funding | National Science Centre |
| | Name of the call | Sonata 5 |
| | Implementation period | 2014/04/01- 2016/06/30 |
| 2. | Role in the project (e.g., principal investigator, work package leader, etc.) | Principial Investigator |
| | Project title | Małocząsteczkowe związki typu donor-akceptor na bazie furanu i ich właściwości fotoniczne |
| | Sources of funding | National Science Centre |
| | Name of the call | Preludium Bis 2 |
| | Implementation period | 2021/07/28 - ongoing |
| 3. | Role in the project (e.g., principal investigator, work package leader, etc.) | Principial Investigator |
| | Project title | Luminescencyjne mikro- i nano-włókna polimerowe wytwarzane metodą elektroprzędzenia oraz ich fotoniczne zastosowania |
| | Sources of funding | National Science Centre |
| | Name of the call | Opus 21 |
| | Implementation period | 2022/04/01 - ongoing |
| 4. | Role in the project (e.g., principal investigator, work package leader, etc.) | Principial Investigator |



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|----|---|--|
| | Project title | Liniowe i nieliniowe właściwości optyczne fluoroforów AIE i ich potencjalne zastosowanie w laserowej diagnostyce medycznej |
| | Sources of funding | National Science Centre |
| | Name of the call | Sonata Bis 13 |
| | Implementation period | 2024/10/01 - ongoing |
| 5. | Role in the project (e.g., principal investigator, work package leader, etc.) | Coinvestigator |
| | Project title | Badania właściwości elektrooptycznych w fotochromowych ciekłych kryształach i polimerach |
| | Sources of funding | National Science Centre |
| | Name of the call | Opus 1 |
| | Implementation period | 2011/12/15 – 2013/12/15 |

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 at Salento University in Lecce in, Italy in the group of Prof. Dario Pisignano. | 2015 |
| 2. | Erasmus training in degenerated four-wave mixing nonlinear optical phenomena at the University of Angers in France. | 2009 |
| 3. | Erasmus training in the utilization of picosecond laser systems at the University of Angers in France. | 2008 |

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. | | |
| 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. | Parafiniuk Kacper | Wybrane organiczne ośrodki wzmacniające | 2018 |



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| | | do uzyskiwania przestrajalnej akcji laserowej typu DFB | (as co-supervisor of the dissertation) |
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7. Prizes and awards

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

| No. | Description | Year |
|-----|--|------|
| 1. | Scientific Award of the Rector of the Wrocław University of Technology (Dionysius Smoleński award) | 2018 |
| 2. | Rector of Wrocław University of Technology Award for contribution to scientific activity of the University | 2013 |
| 3. | Prime Minister Award for distinguished Ph.D. thesis in 2012 | 2013 |
| 4. | “Start 2012” scholarship of Foundation for Polish Science. | 2012 |
| 5. | Rector of Wrocław University of Technology Award for PhD students in 2011 | 2012 |

8. Other significant achievements

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

In 2020, I received a habitation in Chemical Sciences in the field of organic random lasers.