

Marcin Lindner, PhD

E-mail: marcin.lindner@icho.edu.pl Phone: +22 343 2106 Residence: Warsaw (Poland) Head of the TEAM XB

Professional Experience

	Professional Exp	erience
	11/2019 -	Assistant Professor at the Institute of Organic Chemistry Polish Academy of Science (Warsaw, Poland), Head of Team XB
multi- ocycles HRMS, a and		 Pl at two grants: Sonata 14, Lider XI; Rational design of BN-doped polyclic aromatic hydrocarbons (PAHs), Synthesis of novel class of hetercoronenes, Synthesis of novel emitters towards TADF OLEDs, Investigation of structure/properties relationship in terms of photoactivity
ation	02/2019 – 10/2019	Postdoc at the Institute of Organic Chemistry Polish Academy of Science (Warsaw, Poland), Team III (Prof. Dr. Karol Grela)
		 New catalytic systems towards selective semihydrogenation of alkynes, writing a publication.
	10/2017 – 01/2019	Researcher at the Institute of Organic Chemistry Polish Academy of Science (Warsaw, Poland)Team VIII (Prof. Dr. Janusz Jurczak)
-step nt ,		 Synthesis of unclosed cryptands, Design and the synthesis of novel photo- responded rigid molecular receptors for anions, Writing a publication.
udget, ounds, 1 and	01/2017 - 09/2017	Synthesis Specialist III, (Cracow/Poznan, Poland) Selvita SA, Contract Chemistry Department
blem-		 Multi-step synthesis of organic compounds including asymmetric synthesis in a small and large scale, Cost estimation and delineation of synthetic strategies for requested molecules, Supervision of the project via weekly written and oral reports.
	09/2012 - 12/2016	PhD Researcher Student, Karlsruhe Institute of Technology (Germany), Institute of Nanotechnology
		 Synthesis of functional organic molecules, structural analysis and their self-assembly process on the gold surface, Synthesis and the analysis of payol bis

• Synthesis and the analysis of novel bisfunctionalized 3D tetraphenylmethane-based

Professional Profile

- Experience in a small team management,
- Servicing foreign (non-Polish) clients,
- Experience in developing of multistep, asymmetric, and heterocycles syntheses,
- Experience in NMR, ESI-(ToF)-HRMS, LCMS, UV-Vis, IR, GC, column and flash chromatography purification

Key skills :

- Practical knowledge of multi-step synthesis project management ,
- Rational design of functional molecules
- Planning and execution of budget,
- Purification of organic compounds,
- The ability of public speaking and making presentations,
- Advanced skills in MS Office,
- Analytical, research and problemsolving skills,
- Ability to learn fast,
- Driving license cat. B.

architectures as precursors of covalent- and metal organic frameworks.

Internship at Glaxo Smith Kline(Poznań, Poland),

Quality Control Department, Phase and Chemicals Lab

Foreign languages:

- English advanced (written and spoken),
- German basic, communicative level

	 mobile phases and chemicals preparation support of the quality control department manifested by buffer and solution preparation according ISO 9001 requirements
Education	
10/2012 - 12.2016	University of Basel (Switzerland, "magna cum laude")
	Faculty: Science, Department of Chemistry
	Level of education: PhD Degree Supervision: Prof. Dr. Marcel Mayor
	"Tailor - Made TetraphenyImethanes: From Surface Decoration to 3D Organic Polymers"
10/2010 - 06/2012	Adam Mickiewicz University in Poznań (Poland)
	Faculty: Chemistry
	Specialization: Material Chemistry
	Level of education: Master Degree Supervision: Prof. Dr. Jacek Gawroński
	Sopervision. From Dr. Succk Odwronski
10/2007 - 06/2010	Adam Mickiewicz University in Poznań (Poland)

Publications

09/2010

- Valášek, M, <u>Lindner, M</u>., Mayor, M., Beilstein. J. Nanotechnol. 2016, 7, 374 (IF = 3.13)
- Lindner, M., Valášek, M, Homberg, J., Gerhard, L., Fuhr, O., Wulfhekel, W., Waechter, T., Zharnikov, M., Kolivoška, V., Pospišll, L., Mèszáros, G., Hromadová, M., Mayor. M., Chem. Eur. J. 2016, 22, 13218 (IF = 5.16)
- Lindner, M., Valášek, M, Mayor, M., Frauhammer, T., Wulfhekel, W., Gerhard, L. Angew. Chem. Int. Ed. 2017, 56, 8290 (IF = 12.24)
- Sebechlebská, T., Šebera J., Kolivoška, V., <u>Lindner, M</u>., Gasior, J., Mészáros, G., Valášek, M., Mayor, M., Hromadová, M. Electrochimica Acta, 2017, 258, 1191 (IF = 4.85)
- 5) Jurczak, J., Sobczuk, A. Dąbrowa, K., <u>Lindner, M.</u>, Niedbała, P., Stępniak, P. Chirality, **2018**, 30, 219 (*IF* = 1.95)
- 6) Lindner, M., Krasiński, A., Jurczak, J. Synthesis, 2018, 50, 4295 (IF = 2.81)
- 7) Jurczak, J., Sobczuk, A. Dąbrowa, K., <u>Lindner, M.</u>, Niedbała, P. J. Org. Chem. **2018**, 83, 13560 (*IF* = 4.85)
- Homberg, J. <u>Lindner, M</u>., Edelmann, K. Frauhammer, Valášek, M., T. Mayor, M., Wulfhekel, W., Gerhard, L. Nanoscale 2019, 11, 9015 (IF = 7.23)

- Rigid multipodal platforms for metal surfaces,
- Importance of the anchor group position (para vs meta) in tetraphenylmethane tripods: synthesis and self-assembly features,
- 3) Molecular Graph Paper,
- 4) Investigation of the Geometrical Arrangement and Single Molecule Charge Transport in Self-Assembled Monolayers of Molecular Towers Based on Tetraphenylmethane Tripod,
- 5) Chirality of 20-membered uncosed cryptand: Macroring distortion via lariat arm modification,
- 5) Facile, Stereocontrolled Synthetic Route towards Bis-functionalised Pyrrolizidines
- 7) An indirect synthetic approach toward conformationally constrained 20membered unclosed cryptands via latestage installation of intraannular substituent

- 9) Probabilistic mapping of single molecule junction configurations as a tool to achieve the desired geometry of asymmetric tripodal molecules
- Tuning contact conductance of anchoring groups in single molecule junctions by molecular design
- Selective recognition of chloride by a 24-membered unclosed cryptand confined with a hydrophobic methylenepyrene substituent;
- 12) Tuning Anion Binding Properties of 22-Membered Unclosed Cryptands by Structural Modification of the Lariat Arm;
- 13) Addressing a lattice of rotatable molecular dipoles with the electric field of an STM tip
- 14) Application of Iridium-Ferrocene complex for semihydrogenation of alkynes. From excellent E-selectivity to limitless functional group tolerance,
- 15) Sulfur-mediated 24-membered unclosed cryptand confined with a hydrophobic methylene pyrene used as a fluorescent sensor of oxidants;

- Kolivoška, V., Šebera J., Sebechlebská, T., <u>Lindner, M</u>., Gasior, J., Mészáros, G., Mayor, M., Valášek, M., Hromadová, M. Chem Commun. **2019**, 55, 3351 (*IF* = *6.23*)
- Šebera J., <u>Lindner, M</u>., Gasior, J., Mészáros, G., Fuhr O., Mayor, M., Valášek, M., Kolivoška, V., Hromadová, M. Nanoscale **2019**, *11*, 12959. (*IF* = 7.23);
- 11) Dąbrowa, K., Lindner, M., Wasiłek, S. Jurczak, Eur. J.Org. Chem. 2020, 29, 4528 4531 (IF = 2.89)
- 12) Dąbrowa, K., Niedbała, P., Pawlak, P., Lindner, M., Ignaciak, W. Jurczak, ACS Omega, 2020, 45, 29601–29608 (*IF* = 2.87)
- 13) Frauhammer, T., Gerhxard,L., Edelmann, K., Lindner, M., Valášek, M., Mayor, M., Wulfhekel,W., Phys. Chem. Chem. Phys. **2021**, just accepted

Manuscripts submitted/under revision

- 14) Lindner, M., Kusy, R., Wagner, J., Kubas, A., Grela, K, **2021**, manuscript under preparation
- 15) Dąbrowa, K., Lindner, M., Tyszka-Gumkowska, Jurczak, manuscript under preparation **2021**,

Awarded Projects and External Reviews

- "Cyclazines and their reactivity new structural motifs in molecular engineering", **Miniatura 2**, 2018/02/X/ST5/02189, 2019, (1 year research task funded by NCN), Budget: **12 000 €**
- "Modular, polycyclic aromatic hydrocarbons based on cyclazines: new materials for optoelectronic applications", **Sonata 14**, 2018/31/D/ST5/00426, 01.11 2019 (3 year project funded by National Centre of Science - NCN), Budget: **217 540 €**
- "Synthesis of novel class of organic emitters for TADF OLED materials embracing curved nanographene fragment", **Lider XI** LIDER/21/0077/L-11/19/NCBR/2020, 01.01. 2020 (3 year project funded by National Centre of Research and Development - NCBiR), Budget: **325 967 €**
- Project reviews for the Science Fund of the Republic of Serbia in the frame of PROMIS competition 2019/2020

Conference Meetings, Poster Presentations, Awards

- Scholarship Financed by European Union, in the frame of European Social Fund (2010-2012)
- Scholarship of the President of the University (2011-2012)
- Scholarship of Mother Universities (2010-2011)
- Scholarship of Polish Prime Minister (2006-2007)
- The Third International Symposium on the Synthesis and Application of Curved Organic π -Molecules & Materials, Oxford (Great Britain), 2018 (poster presentation),
- Chemistry Beyond the Nature, Poznań (Poland), **Oral Presentation** (Tailor-made tetraphenylmethanes as molecular tripods),
- 13th European Conference on Molecular Electronics, Strasbourg (France) 2015 (poster presentation, **POSTER AWARDED** by the Journal of Material Chemistry C),
- 7th International Conference of Molecular Electronics, Strasbourg (France) 2014 (poster presentation),
- Surface-Confined Synthesis of Nanostructures, Winter School, Baden-Baden (Germany) 2013 (poster presentation),

Hobbies:

- Being a basketball referee,
- Sport cars,
- Gym and fitness,

• School of Physical Organic Chemistry "Self-organization and interaction behind", Przesieka (Poland) 2012 (poster presentation), Marie Skłodowska-Curie Symposium on the Foundations of Physical Chemistry, Warsaw (Poland) 2012,

• Participation in organizing of International Symposium on Homogeneous Catalysis (ISHC-17), Poznań, Poland, July 4th-9th, 2010.

Scientific Collaborations

• Prof. Dr. Wulf Wulfhekel, Dr. Lukas Gerhard - Karlsruhe Institute of Technology, Institute of Nanotechnology, Institute of Physics Germany, Surface Physics

• Prof. Dr. Michael Zharnikov - University of Heidelberg, Institute of Physical Chemistry, Germany, Surface Spectroscopy

• Dr Magdalena Hromadová - Czech Academy of Sciences, J. Herovský Institute of Physical Chemistry Prague, Czech Republic, Electrochemical measurements, STM-BJ studies

• Dr hab. Przemysław Data – Silesian University of Technology, Gliwice, photophysical analysis of aromatic compounds and fabricated OLED devices)

• Dr hab. Adam Kubas – Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw (Advanced quantum calculations)

• Dr hab. Szymon Godlewski – Jagellonian University, Department of Physics, Cracow, on-surface synthesis of curved nanographenes

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