

Name	Prof. Dr. Frank Würthner	
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Birth Date/Place	1964, Villingen-Schwenningen, Germany	
Education	2001	Habilitation in Organic Chemistry, University of Ulm (with Peter Bäuerle): <i>Supramolecular Dye Chemistry</i>
	1990-1994	Dr. rer.nat., University of Stuttgart (with Franz Effenberger): <i>Synthesis and Properties of Donor-Acceptor-substituted Oligothiophenes</i>
	1984-1990	Study of Chemistry, University of Stuttgart
Academic Career	since 2002	Professor, Chair of Organic Chemistry II, Univ. of Würzburg
	since 2010	Founding Director of the <i>Center for Nanosystems Chemistry</i>
	since 2016	Member of the Board of Directors of the <i>Bavarian Polymer Institute</i> (BPI) and Head of the <i>Key Lab of Supramolecular Polymers</i> in Würzburg
	2007-2009	Dean of the Faculty of Chemistry and Pharmacy at the University of Würzburg
	2001/2002	Professor of Organic Chemistry (temporally limited), Technical University of Karlsruhe
	1997-2000	Liebig and DFG fellow (Habilitation), University of Ulm
	1995-1996	Chemist at BASF AG, Central Research, Ludwigshafen.
	1994-1995	Post-doc with Prof. J. Rebek, Jr. at the Massachusetts Institute of Technology (MIT), Cambridge/MA (USA)
Research Topics	Dyes and organic semiconductors; Supramolecular chemistry; Photochemistry; (Bio-)molecular recognition; Self-assembly & supramolecular polymerization, gelation and organic nanostructure formation; Materials for organic electronics, photonics, photovoltaics & photocatalysis	
Calls	2009	Max-Planck Director position offered by MPI of Solid State Research, Stuttgart
	2008	Chair Organic Chemistry offered by University of Heidelberg
	2008	Chair Organic Chemistry offered by Karlsruhe Institute of Technology
	2002	Chair Organic Chemistry offered by University of Würzburg
	2001	C3 Professor Organic Chemistry offered by Universität zu Köln
Project Coordination	since 2012	Member of the Board of Directors of the Bavarian Research Network <i>Solar Technologies Go Hybrid</i> ; Coordinator in 2013
	2006-2016	Member of the Board of Directors and Vice Coordinator of the <i>Röntgen Research Center for Complex Material Systems</i> , University of Würzburg

Honors and Awards

2018	ERC Advanced Grant Ta-shue Chou Award (Academia Sinica, Taiwan)
2017	Member of the Bavarian Academy of Sciences
2016	Member German National Academy of Science Leopoldina Elhuyar-Goldschmidt Award (Royal Chemical Society Spain) Elsevier Lecture Award (Japanese Photochem. Association) Fellow of the Royal Society of Chemistry (FRSC)
2015	Emanuel Vogel Lecture (University of Cologne) Molecular Science Frontier Lecture Professorship, Chinese Academy of Science, Beijing
since 2014	Listed as Highly Cited Researcher & World's Most Influential Scientific Minds in Chemistry
2014	K. S. Krishnan Memorial Lecture (Indian Association of the Cultivation of Science, Kolkata) Solvay Lecture, Brussels
2009	Steinhofer Award & Lectureship (University of Freiburg)
2003	Tarrant Award & Lectureship (University of Florida)
2002	Arnold Sommerfeld Award (Bavarian Academy of Science)
2000	Otto Röhm Memorial Award
1997	Liebig Fellowship (Fonds der Chemischen Industrie)
1995	Feodor Lynen Fellowship (Alexander von Humboldt Foundation)

Visiting Professorships

2013	Academia Sinica (Taiwan), Taipei
2010/2011	Chinese Academy of Science, Institute of Chemistry, Beijing
2010	Université d'Angers, France

Editorial Boards

since 2015	Associate Editor of <i>Organic Chemistry Frontiers</i> (Royal Society of Chemistry)
since 2015	Editorial Advisory Board Member of <i>Open Chemistry</i> (De Gruyter)
since 2012	International Advisory Board Member of the <i>Asian Journal of Organic Chemistry</i> (Wiley-VCH)
since 2010	Editorial Advisory Board Member of the <i>Journal of Organic Chemistry</i> (American Chemical Society)
since 2008	Editorial Advisory Board Member of the <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> (Springer)
2005	Editor of the <i>Topics in Current Chemistry</i> Volume "Supramolecular Dye Chemistry"

Advisory Boards

since 2010	Member of the Scientific Council ("Kuratorium") of the <i>Fonds der Chemischen Industrie</i>
2007-2012	Member of the Selection Committee of the <i>Alexander-von-Humboldt Foundation</i> (Institutional Partnerships)
2007-2015	Scientific Consultant in the field of Organic Electronics for BASF SE
2009/2010	Member of the Selection Committee for International Research Groups of the Max-Planck Society
2011-2014	Member Evaluation Panel 5 of the European Research Council (Starter & Consolidator Grants)

Conference Organization

2001	Secretary General of the 5th International Symposium on Functional π -Electron Systems
2013	Chairman of the 7th Conference on Conjugated Oligomers and Polymers (KOPO)

Publications, Lectures

> 400 publications, h-index: 88, 15 granted patents and > 250 lectures in 1997 – 2017.
Member of the GDCh (German Chemical Society), the ACS, and the RSC.

Selection of Plenary Lectures at International Conferences (last years)

2018	International Conference on Science and Technology of Synthetic Metals (ICSM), Busan, Korea (accepted)
2017	52nd Conference on Stereochemistry, Bürgenstock
2017	Gordon Research Conference on Self-assembly and Supramolecular Chemistry, Les Diablerets, Switzerland
2016	International Symposium on Catalysis and Fine Chemicals, Taipei/Taiwan
2016	3rd Riken International Symposium on Supramolecular Chemistry and Functional Materials, Tokyo, Japan
2015	Faraday Discussions on Supramolecular Photochemistry, Cambridge, UK, 15.-17. 9. 2015
2014	8th Asian Photochemistry Conference, Trivandrum, India
2014	5. Fundación Ramón Areces Scientific Symposium "CHEMISTRY: ANSWERS FOR A BETTER WORLD ", Madrid, Spain
2014	Gordon Research Conference on Electronic Processes, Il Ciocco, Italy
2013	Frontiers in Macromolecular and Supramolecular Science Symposium, Bucharest, Romania

20 significant publications

1. F. Würthner, C. Thalacker, A. Sautter
Adv. Mater. **11**, 754–758 (1999)
Hierarchical Organization of Functional Perylene Chromophores to Mesoscopic Superstructures by Hydrogen Bonding and π - π Interactions
2. F. Würthner, C. Thalacker, S. Diele, C. Tschierske
Chem. Eur. J. **7**, 2245–2253 (2001)
Fluorescent J-type Aggregates and Thermotropic Columnar Mesophases of Perylene Bisimide Dyes
3. F. Würthner, S. Yao, T. Debaerdemaeker, R. Wortmann
J. Am. Chem. Soc. **124**, 9431–9447 (2002)
Dimerization of Merocyanine Dyes. Structural and Energetic Characterization of Dipolar Dye Aggregates and Implications for Nonlinear Optical Materials
4. F. Würthner, Z. Chen, F. J. M. Hoebe, P. Osswald, C.-C. You, P. Jonkheijm, J. van Herrikhuyzen, A. P. H. J. Schenning, P. P. A. M. van der Schoot, E. W. Meijer, E. H. A. Beckers, S. C. J. Meskers, R. A. J. Janssen
J. Am. Chem. Soc. **126**, 10611–10618 (2004)

- Supramolecular p-n-Heterojunctions by Co-Self-Organization of Oligo(*p*-phenylene Vinylene) and Perylene Bisimide Dyes
5. S. Bhosale, A. L. Sisson, P. Talukdar, A. Fürstenberg, N. Banerji, E. Vauthey, G. Bollot, J. Mareda, C. Röger, F. Würthner, N. Sakai, S. Matile
Science **313**, 84–86 (2006)
Photoproduction of Proton Gradients with π -Stacked Fluorophore Scaffolds in Lipid Bilayers
 6. Z. Chen, V. Stepanenko, V. Dehm, P. Prins, L. D. A. Siebbeles, J. Seibt, P. Marquetand, V. Engel, F. Würthner
Chem. Eur. J. **13**, 436–449 (2007)
Photoluminescence and Conductivity of Self-Assembled π - π -Stacks of Perylene Bisimide Dyes
 7. X. Zhang, Z. Chen, F. Würthner
J. Am. Chem. Soc. **129**, 4886–4887 (2007)
Morphology Control of Fluorescent Nanoaggregates by Co-Self-Assembly of Wedge- and Dumbbell-Shaped Amphiphilic Perylene Bisimides
 8. T. E. Kaiser, H. Wang, V. Stepanenko, F. Würthner
Angew. Chem. Int. Ed. **46**, 5541–5544 (2007)
Supramolecular construction of fluorescent J-aggregates based on hydrogen-bonded perylene dyes
 9. S. Ghosh, X-Q. Li, V. Stepanenko, F. Würthner
Chem. Eur. J. **14**, 11343–11357 (2008)
Control of H- and J-Type π -Stacking by Peripheral Alkyl Chains and Self-sorting Phenomena in Perylene Bisimide Homo- and Heteroaggregates
 10. R. Schmidt, J. H. Oh, Y.-S. Sun, M. Deppisch, A.-M. Krause, K. Radacki, H. Braunschweig, M. Könnemann, P. Erk, Z. Bao, F. Würthner
J. Am. Chem. Soc. **131**, 6215–6228 (2009)
High-Performance Air-Stable n-Channel Organic Thin Film Transistors Based on Halogenated Perylene Bisimide Semiconductors
 11. X. Zhang, S. Rehm, M. M. Safont-Sempere, F. Würthner
Nature Chem. **1**, 623–629 (2009)
Vesicular perylene dye nanocapsules as supramolecular fluorescent pH sensor systems
 12. M. Gsänger, J. H. Oh, M. Könnemann, H. W. Höffken, A.-M. Krause, Z. Bao, F. Würthner
Angew. Chem. Int. Ed. **49**, 740–743 (2010)
A Crystal-Engineered Hydrogen-Bonded Octachloroperylene Diimide with a Twisted Core: An n-Channel Organic Semiconductor
 13. H. Bürckstümmer, E. V. Tulyakova, M. Deppisch, M. R. Lenze, N. M. Kronenberg, M. Gsänger, M. Stolte, K. Meerholz, F. Würthner
Angew. Chem. Int. Ed. **50**, 11628–11632 (2011)
Efficient Solution-Processed Bulk Heterojunction Solar Cells by Antiparallel Supramolecular Arrangement of Dipolar Donor-Acceptor Dyes
 14. T. He, M. Stolte, F. Würthner
Adv. Mater. **25**, 6951–6955 (2013)

- Air-Stable n-Channel Organic Single Crystal Field-Effect Transistors Based on Microribbons of Core-Chlorinated Naphthalene Diimide
15. X. Zhang, D. Görl, V. Stepanenko, F. Würthner
Angew. Chem. Int. Ed. **53**, 1270–1274 (2014)
Hierarchical Growth of Fluorescent Dye Aggregates in Water by Fusion of Segmented Nanostructures
 16. S. Ogi, V. Stepanenko, K. Sugiyasu, M. Takeuchi, F. Würthner
J. Am. Chem. Soc. **137**, 3300–3307 (2015)
Mechanism of Self-Assembly Process and Seeded Supramolecular Polymerization of Perylene Bisimide Organogelator (Highlighted by E.W. Meijer in *Angew. Chem. Int. Ed.* 2015, **54**, 8334)
 17. T. He, M. Stolte, C. Burschka, N. H. Hansen, T. Musiol, D. Kälblein, J. Pflaum, X. Tao, J. Brill, F. Würthner
Nature Commun. **6**, 5954 (2015)
Single crystal field-effect transistors of new Cl₂NDI polymorph processed by sublimation in air.
 18. S. Seifert, K. Shoyama, D. Schmidt, F. Würthner
Angew. Chem. Int. Ed. **55**, 6390-6395 (2016)
An Electron-Poor C₆₄ Nanographene by Palladium-Catalyzed Cascade C-C Bond Formation: One-Pot Synthesis and Single-Crystal Structure Analysis
 19. M. Schulze, V. Kunz, P. D. Frischmann, F. Würthner
Nature Chem. **8**, 576-583 (2016)
A Supramolecular ruthenium macrocycle with high catalytic activity for water oxidation that mechanistically mimics photosystem II
 20. W. Wagner, M. Wehner, V. Stepanenko, S. Ogi, F. Würthner
Angew. Chem. Int. Ed. **56**, 16008-16012 (2017)
Living Supramolecular Polymerization of a Perylene Bisimide Dye into Fluorescent J-Aggregates