

<b>Name</b>	<b>Prof. Dr. Frank Würthner</b>		
<b>Contact</b>	Universität Würzburg Institut für Organische Chemie & Center for Nanosystems Chemistry (CNC) D-97074 Würzburg, Germany  Phone: +49 931 3185340 Fax: +49 931 3184756 wuerthner@chemie.uni-wuerzburg.de		
<b>Date of birth</b> <b>Place of birth</b>	June 27, 1964 Villingen-Schwenningen, Germany		
<b>Education</b>	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>	
	1983-1990	Study of Chemistry, University of Stuttgart	
<b>Academic Career</b>	since 2002	Professor, Chair of Organic Chemistry II, University of Würzburg	
	since 2010	Director of the <i>Center for Nanosystems Chemistry</i> , University of Würzburg	
	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. Research on functional dyes	
	1994-1995	Post-doc with Prof. J. Rebek, Jr. at the Massachusetts Institute of Technology (MIT), Cambridge/MA (USA)	
<b>Research Topics</b>	Dyes and organic semiconductors; Supramolecular chemistry and biomolecular recognition; Photochemistry; Self-assembly & supramolecular polymerization, gelation and organic nanostructure formation; Materials for organic electronics, photonics, photovoltaics & photocatalysis		
<b>Project Coordination</b>	since 2012	Member of the Board of Directors of the Bavarian Research Network <i>Solar Technologies Go Hybrid</i> , Coordinator of the Project in 2013	
	2012-2018	Vice Coordinator of the DFG Research Group 1809 <i>Light-induced Dynamics in Molecular Aggregates</i>	
	2006-2016	Member of the Board of Directors and Vice Coordinator (2006-2012) of the <i>W. C. Röntgen Research Center for Complex Material Systems</i> , University of Würzburg	

## Honors and Awards

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
2014	Listed as Thomson Reuters Highly Cited Researcher & World's Most Influential Scientific Minds in Chemistry 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 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
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2013 Functional  $\pi$ -Electron Systems  
Chairman of the 7th Conference on Conjugated Oligomers  
and Polymers (KOPO)

### Selection of Plenary Lectures at International Conferences (last years)

2017 International Symposium on Macrocyclic and  
Supramolecular Chemistry, Cambridge, UK (accepted)  
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

### Publications, Lectures

> 350 publications, h-index: 79, 15 granted patents and > 250 lectures in 1995 – 2015.  
Member of the GDCh (German Chemical Society), the ACS, and the RSC.

### 20 significant publications (including number of citations from 12.02.2016)

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  $\pi$ - $\pi$  Interactions (**Times Cited: 156**)
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 (**Times Cited: 422**)
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 (**Times  
Cited: 174**)
4. F. Würthner, Z. Chen, F. J. M. Hoeben, P. Osswald, C.-C. You, P. Jonkheijm, J. van  
Herikhuyzen, 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 (**Times Cited: 284**)
5. R. Dobraza, M. Lysetska, P. Ballester, M. Grüne, F. Würthner  
*Macromolecules* **2005**, *38*, 1315–1325  
Fluorescent Supramolecular Polymers: Metal Directed Self-Assembly of Perylene  
Bisimide Building Blocks (**Times Cited: 184**)

6. 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  $\pi$ -Stacked Fluorophore Scaffolds in Lipid Bilayers (**Times Cited: 234**)
7. 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  $\pi$ - $\pi$ -Stacks of Perylene Bisimide Dyes (**Times Cited: 315**)
8. 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 (**Times Cited: 240**)
9. 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 (**Times Cited: 211**)
10. S. Ghosh, X-Q. Li, V. Stepanenko, F. Würthner  
*Chem. Eur. J.* **14**, 11343–11357 (2008)  
Control of H- and J-Type  $\pi$ -Stacking by Peripheral Alkyl Chains and Self-sorting Phenomena in Perylene Bisimide Homo- and Heteroaggregates (**Times Cited: 183**)
11. R. Schmidt, J. H. Oh, Y.-S. Sun, M. Deppisch, A.-M. Krause, K. Radacki, H. Braunschweig, M. Könemann, 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 (**Times Cited: 312**)
12. 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 (**Times Cited: 241**)
13. M. Gsänger, J. H. Oh, M. Könemann, 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 (**Times Cited: 153**)
14. 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 (**Times Cited: 100**)
15. 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 (**Times Cited: 35**).

16. 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 (**Times Cited: 27**).
17. 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; **Times Cited: 16**)
18. 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.
19. 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
20. 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