Priv. Doz. Dr. rer. nat. habil. Johannes Gierschner

Senior Research Professor
Madrid Institute for Advanced Studies, IMDEA in Nanoscience
C/ Faraday 9, Ciudad Universitaria Cantoblanco
28049, Madrid, SPAIN
Tel.: + 34 91 299 8783 Fax: + 34 91 299 8730
Institute website: www.nanoscience.imdea.org
Group website: www.uv.es/jogiers
e-mail: johannes.gierschner@imdea.org
ORCID: 0000-0001-8177-7919. Researcher ID: K-7938-2014

Education & Profession

since 2008	Senior Research Professor at the IMDEA Nanoscience Institute, Madrid, Spain 2008-2013 *Ramón y Cajal* Fellow (I3 & IED accredited), Spanish Science Ministry
2014	Habilitation, Institute of Physical and Theoretical Chemistry (IPTC), University of Tübingen, Germany
2004 - 2007	Research fellow at the Laboratory for Chemistry for Novel Materials, University of Mons, Belgium, with David Beljonne & Jérôme Cornil
2003 - 2004	Research fellow at the Institute of IPTC, University of Tübingen, Germany
2000 - 2003	Researcher, lecturer and administration manager of the IPTC
2000	PhD in Physical Chemistry, IPTC, Univ. Tübingen, Germany, with D. Oelkrug

Visiting Researcher Positions & Scientific Stays

since 2014	*Privatdozent* (Adjunct Prof.) at the University of Tübingen, Germany
since 2014	Regular visiting researcher, University of Valencia, Spain
since 2009	Regular visiting researcher at Seoul National University, with Soo Young Park
2016 - 2019	Regular visiting researcher, UNIST, with Minsang Kwon
2014/2015	Visiting Professor at the University of Mons, Belgium
2014/2015	Adjunct Professor (WCU Hybrid Program), Seoul National University, Korea
2008 - 2010	Visiting researcher at ICMol, University of Valencia, Spain
2005	Visiting researcher with Jean-Luc Brédas, Georgia Tech, Atlanta, USA
2005 - 2014	Regular visiting researcher at the IPTC, Univ. Tübingen, Germany

Short scientific stays (1-4 weeks) at Seoul National University (2008), University of Montreal (2007), Milano Bicocca (2006), Politecnico di Milano (2006), Temple University, Philadelphia (2005), Rutherford-Appleton Laboratories, Chilton (2004), Institute for Fluorescence Spectroscopy, Baltimore (2000), C.N.R. Bologna (1998).

Dissemination

- 130 publications in peer-reviewed journals (7500 cites, h = 45), incl. 12 reviews and suchlike
- 80 talks at international conferences, symposia & workshops (30 reputably invited); 80 invited seminars at research institutes; 30 lecture (series); 30 presentations at research meetings.

MANAGEMENT

since 2012	Coordinator & PI of projects financed by the Spanish Science Ministry: [MINECO-FEDER CTQ2011-27317, CTQ2014-58801, CTQ2017-87054]
2017 - 2021	Guarantor of the IMDEA Nanoscience - Severo Ochoa Excellence Center [MINECO SEV-2016-0686]
2013 - 2017	MC Member & WG Leader in COST action MP1302 NANOSPECTROSCOPY
2013 - 2015	Coordination of a Marie-Curie IEF project (SOLARREVOLUTION, Dr. Mike Wykes)
2010 - 2013	PI in a project of the Comunidad Madrid [NANOBIOMAGNET, S2009/MAT-1726]
2002 - 2010	Coordination of two European Marie Curie Research Training Networks (RTNs NANOCHANNEL HPRN-CT-2002-00323, NANOMATCH MRTN-CT-2006-035884)
2000 - 2003	Head of the institute administration at IPTC, University of Tübingen, Germany

COLLABORATIONS

Current collaborations inter alia with S. Y. Park (Seoul), B. Milián-Medina (Valencia), M. S. Kwon (Ulsan), D. Roca Sanjuán (Valencia), R. Wannemacher (Madrid), R. Resel (Graz), J. Kim (Ann Arbor), S. Varghese (IACS, Kolkata), A. Meixner & D. Zhang (Tübingen), D. Beljonne (Mons), N. Crivillers (Barcelona), J. L. Alonso-Gómez (Vigo), S. A. Jursenas (Vilnius), J. Cerezo (Madrid), A. Adawi (Hull), A. Facchetti (FLEXTERRA), F. Santoro (Pisa), H. Detert (Mainz), E. Gnecco (Jena), M. Watson (Lexington), D. R. Whang (Seoul), H.-J. Egelhaaf (Nürnberg).

SERVICE TO THE COMMUNITY

Journals	Associated Editor of 'Frontiers in Chemistry' (since 2013); Member of the Editorial Advisory Board for 'Nanospectroscopy' (de Gruyter; since 2013); Member of the Editorial Board for 'Materials'' (since 2018); Guest Editor for 'Materials' (Special Issue 2010 on 'Organic Electronic Materials')
Conferences	Board member of the СПС conference series (since 2010); Board member of the European School 'Nanostructured Supramolecular Materials' (2002-2010); Organization of numerous Symposia, Training Schools and Research Meetings
Peer reviewer	for ACS, AIP, CSJ, De Gruyter, Elsevier, IUCr, MDPI, NPG, RSC, Springer, Wiley VCH journals: 200 reports in 50 journals
	Expert referee of the Spanish Science Ministry (2011), Leibniz Association (2017)
Others	since 2008 (IMDEA): *Open Door* activities, *Science Fair* etc. 2000-03 (Univ. Tübingen): *Academic Advisor* in physical chemistry; organization of student excursion, undergraduate student & school visits; training courses for high-school teachers; contributions to Industrial Training Courses in Spectroscopy

TEACHING & SUPERVISION

since 2003	Lecture (30 h) on *Optical Spectroscopy*: Tübingen (2003, 2016-), Madrid (2011-), Seoul (2009-), Ulsan (2016-18), Mons (2006/-15), Atlanta (2005), Valencia (2008)
since 1995	Supervision of postdocs (10), PhD students (5) and PhD internships (4), master students (3) and undergraduates (8)
1995 - 2004	Lecturer, director and assistant supervisor/advisor of experimental courses in all fields of physical chemistry (av. 60 h/y)
1987 - 1995	Tutoring of high school & university students in mathematics, chemistry & physics

PUBLICATIONS

1) *Solvent-Free Acrylic Pressure-Sensitive Adhesives via a Visible-Light Driven Photocatalytic Radical Polymerization without Additives*
J.-H. Back, Y. Kwon, H.-J. Kim, J. C. Roldao, Y. Yu, H.-J. Kim, J. Gierschner, W. Lee, M. S. Kwon, Green Chem. under revision.

2) *Turn-On Solid State Luminescence by Solvent-Induced Modification of Intermolecular Interactions*
P. Majumdar, M. Ghora, R. Wannemacher, J. Gierschner, S. Varghese, J. Mater. Chem. C 2020, accepted.

3) *Dual Emission: Classes, Mechanisms and Conditions*
S. K. Behera, S. Y. Park, J. Gierschner, Angew. Chem. Int. Ed. **2020**, accepted.

4) *Distinct Helical Molecular Orbitals Through Conformational Lock*
A. Ozcelik, D. Aranda, S. Gil-Guerrero, X. A. Pola-Otero, M. Talavera, L. Wang, S. K. Behera, J. Gierschner, Á. Peña-Gallego, F. Santoro, R. Pereira-Cameselle, J. L. Alonso-Gómez, Chem. Eur. J. **2020**, accepted.

5) *Unraveling the Origin of High Efficiency Photoluminescence in Mixed-Stack Isostructural Crystals of Organic Charge-Transfer Complex: Fine-Tuning of Isometric Donor-Acceptor Pairs*
S. Oh, S. K. Park, B. H. Jhun, J. C. Roldao, J. H. Kim, M.-W. Choi, C. H. Ryoo, S. Jung, N. Demitri, R. Fischer, I. E. Serdiuk, R. Resel, J. Gierschner, S. Y. Park, J. Phys. Chem. C **2020**, 37, 20377–20387.

6) *Combined Spectroscopic and TD-DFT Analysis to Elucidate Substitution and Acidochromic Effects: A Case Study on Amino- vs. Nitro-Substituted 2,4-Diphenylquinolines*
G. Carvalho dos Santos, J. C. Roldao, J. Shi, B. Milián-Medina, L. C. da Silva Filho, J. Gierschner, ChemPhysChem **2020**, 21, 1797-1804.

7) *Tricolor Fluorescence Switching in a Single Component Mechanochromic Molecular Material*
H.-J. Kim, J. Gierschner, S. Y. Park, J. Mater. Chem. C **2020**, 8, 7417-7421.

8) *Self-Assembled Amphiphilic Molecules for Highly Efficient Photocatalytic Hydrogen Evolution from Water*
H.-J. Lee, J. Kim, A. Abudulimu, J. Cabanillas-Gonzales, P. C. Nandajan, J. Gierschner, L. Lüer, S. Y. Park, J. Phys. Chem. C **2020**, 124, 6971-6978.

9) *Tuning of Solid State Luminescence in Conjugated Organic Materials: Control of Excitonic and Excimeric Contributions through π-Stacking and Halogen Bond Driven Self-Assembly*.
P. Majumdar, F. Tharammal, J. Gierschner, S. Varghese, ChemPhysChem **2020**, 21, 616-624.

10) *Counterion-Mediated Crossing of the Cyanine Limit in Crystals and Fluid Solution: Bond Length Alternation and Spectral Broadening Unveiled by Quantum Chemistry*
M. Eskanderi, J. C. Roldao, J. Cerezo, B. Milián-Medina, J. Gierschner, J. Am. Chem. Soc. **2020**, 142, 2835-2843.

11) *Excited State Non-Radiative Decay in Stilbenoid Compounds: An ab initio Quantum-Chemistry Study on Size and Substituent Effects*
M. A. Izquierdo, J. Shi, S. Oh, S. Y. Park, B. Milián-Medina, J. Gierschner, D. Roca-Sanjuán, Phys. Chem. Chem. Phys. **2019**, 21, 22429-22439.

12) *Crossed 2D vs. Slipped 1D π-Stacking in Polymorphs of Crystalline Organic Thin Films: Impact on the Electronic and Optical Response*
M. J. Aliaga-Gosalvez, M. Demitri, M. Dohr, J. C. Roldao, S. K. Park, S. Oh, S. Varghese, S. Oh, S. Y. Park, Y. Olivier, B. Milián-Medina, R. Resel, J. Gierschner, Adv. Opt. Mater. **2019**, 7, 1900749.

13) *Organic Photocatalyst for ppm-Level Visible-Light-Driven Reversible Addition-Fragmentation Chain Transfer (RAFT) Polymerization with Excellent Oxygen Tolerance*
Y. Song, Y. Kim, Y. Noh, V. K. Singh, S. K. Behera, A. Abudulimu, K. Chung, R. Wannemacher, J. Gierschner, L. Lüer, M. S. Kwon, Macromol. **2019**, 52, 5538-5545.

14) *Assembly-Induced Bright-Light Emission from Solution-Processed Platinum(II) Inorganic Polymers*
A. Perevedentsev, F. L. Bargardi, A. Sánchez-Ferrer, N. J. Cheetham, A. Sousaraei, S. Busato, J. Gierschner, B. Milián-Medina, R. Mezzenga, R. Wannemacher, J. Cabanillas-Gonzalez, M. Campoy-Quiles, W. R. Caseri, ACS Omega **2019**, 4, 10192-10204.

15) *Inverted Energy Gap Law for the Nonradiative Decay in Fluorescent Floppy Molecules: Larger Fluorescence Quantum Yields for Smaller Energy Gaps*
J. Shi, M. A. Izquierdo, S. Oh, S. Y. Park, B. Milián-Medina, D. Roca-Sanjuán, J. Gierschner, Org. Chem. Front. **2019**, 6, 1948-1954.

16) *Probing the Molecular Orientation of a Single Conjugated Polymer via Nano-gap SERS*
A. R. L. Marshall, M. Roberts, J. Gierschner, J.-S. G. Bouillard, A. M. Adawi, ACS Appl. Polymer Mater. **2019**, 1, 1175-1180.

17) *Highly Efficient and Stable Inverted Perovskite Solar Cells Obtained via Treatment by Semiconducting Chemical Additive*
J. C. Yu, S. Badgujar, E. D. Jung, V. K. Singh, D. W. Kim, J. Gierschner, E. Lee, Y. S. Kim, S. Cho, M. S. Kwon, M. H. Song, Adv. Mater. **2019**, 31, 1805554.

18) *Highly Efficient Organic Photocatalysts Discovered via a Computer-Aided-Design Strategy for Visible-Light-Driven Atom Transfer Radical Polymerization*
V. K. Singh, C. Yu, S. Badgujar, Y. Kim, Y. Kwon, D. Kim, J. Lee, T. Akhter, G. Thangavel, L. S. Park, J. Lee, P. C. Nandajan, R. Wannemacher, B. Milián-Medina, L. Lüer, K. S. Kim, J. Gierschner, M. S. Kwon, Nat. Catal. **2018**, 1, 794-804.

19) *Insight into Water-Soluble Highly Fluorescent Low-Dimensional Host-Guest Supramolecular Polymers: Structure and Energy Transfer Dynamics Revealed by Polarized Fluorescence Spectroscopy*
P. C. Nandajan, H.-J. Kim, S. Casado, S. Y. Park, J. Gierschner, J. Phys. Chem. Lett. **2018**, 9, 3870-3877.

20) *Light Harvesting Fluorescent Supramolecular Block Copolymers Based on Cyanostilbene Derivatives and Cucurbit[8]urils in Aqueous Solution*
H.-J. Kim, P. C. Nandajan, J. Gierschner, S. Y. Park, Adv. Funct. Mater. **2018**, 28, 1705141.

21) *Designing High Performance All-Small-Molecule Solar Cell with Non-Fullerene Acceptors: Comprehensive Studies on Photoexcitation Dynamics and Charge Separation Kinetics*
J. Shi, A. Isakova, A. Abudulimu, M. van den Berg, O. K. Kwon, A. J. Meixner, S. Y. Park, D. Zhang, J. Gierschner, L. Lüer, Energy Environ. Sci. **2018**, 11, 211-220.

22) *Room Temperature Phosphorescence based Dissolved Oxygen Detection by Core-shell Polymer Nanoparticles having Metal-free Organic Phosphor*
Y. Yu, M. S. Kwon, J. Jung, Y. Zeng, M. Kim, K. Chung, J. Gierschner, J. H. Youk, S. M. Borisov, J. Kim, Angew. Chem. Int. Ed. 56 (**2017**) 16207-16211.

23) *Determining Molecular Orientation via Single Molecule SERS in a Plasmonic Nano-Gap*
A. R. L. Marshall, J. Stokes, F. N. Viscomi, J. E. Proctor, J. Gierschner, J.-S. Bouillard, A. M. Adawi, Nanoscale 9 (**2017**) 17415-17421.

24) *Solid State Luminescence Enhancement in π-Conjugated Materials: Unraveling the Mechanism beyond the Framework of AIE/AIEE*
J. Shi, L. E. Aguilar Suarez, S.-J. Yoon, S. Varghese, C. Serpa, S. Y. Park, L. Lüer, D. Roca Sanjuán, B. Milián Medina, J. Gierschner, J. Phys. Chem. C 121 (**2017**) 23166-23183.

25) *Twist Elasticity Controlled Crystal Emission in Highly Luminescent Polymorphs of Cyano-Substituted Distyrylbenzene (βDCS)*
J. Shi, S.-J. Yoon, L. Viani, B. Milián-Medina, S. Y. Park, J. Gierschner, Adv. Opt. Mater. 5 (**2017**) 1700340.

26) *Tetrakis{[(p-dodecacarboranyl)methyl]stilbenyl}ethylene: A Luminescent Tetraphenylethylene (TPE) Core System*
J. Cabrera-González, S. Bhattacharyya, B. Milián-Medina, F. Teixidor, N. Farfán, R. Arcos-Ramos, V. Vargas-Reyes, J. Gierschner, R. Nuñez, Eur. J. Inorg. Chem. (**2017**) 4575–4580.

27) *Fluorescent Carborane-Vinylstilbene Functionalised Octasilsesquioxanes: Synthesis, Structural, Thermal and Photophysical Properties*
J. Cabrera-González, A. Ferrer-Ugalde, S. Bhattacharyya, M. Chaari, F. Teixidor, J. Gierschner, R. Nuñez, J. Mater. Chem. C (**2017**) 5, 10211-10219.

28) *Highly Luminescent 2D-type Slab Crystals Based on a Molecular Charge-Transfer Complex as Promising Organic Light-Emitting Transistor Materials*

S. K. Park, J. H. Kim, T. Ohto, R. Yamada, A. O. F. Jones, D. R. Whang, I. Cho, S. Oh, S. H. Hong, J. E. Kwon, J. H. Kim, Y. Olivier, R. Fischer, R. Resel, J. Gierschner, H. Tada, S. Y. Park, Adv. Mater. 29 (**2017**) 1701346.

29) Molecular Scale Shear Response of the Organic Semiconductor β-DBDCS (100) Surface
R. Álvarez-Asencio, J. S. Moreno-Ramírez, C. Pimentel, S. Casado, M. Matta, J. Gierschner, L. Muccioli, S.-J. Yoon, S. Varghese, S. Y. Park, E. Gnecco, C. M. Pina, Phys. Rev. B 96 (**2017**) 115422.

30) Crystallization-Induced Emission Enhancement and Amplified Spontaneous Emission from a CF_3-containing Excited-State Intramolecular-Proton-Transfer Molecule
S. Park, J. E. Kwon, S.-Y. Park, O.-H. Kwon, J. K. Kim, S.-J. Yoon, J. W. Chung, D. R. Whang, S. K. Park, D. K. Lee, D.-J. Jang, J. Gierschner, S. Y. Park, Adv. Opt. Mater. 5 (**2017**) 1700353.

31) Excited State Absorption Spectra of Dissolved and Aggregated Distyrylbenzene - a TD-DFT State and Vibronic Analysis
E. F. Oliveira, J. Shi, F. C. Lavarda, L. Lüer, B. Milián-Medina, J. Gierschner, J. Chem. Phys. 147 (**2017**) 034903.

32) Highly Light-Sensitive Luminescent Cyanostilbene Flexible Dimers
M. Martínez-Abadía, S. Varghese, P. Romero, J. Gierschner, R. Giménez, M. B. Ros, Adv. Opt. Mater. 5 (**2017**)1600860.

33) 'Though It Be but Little, It is Fierce' - Excited State Engineering of Conjugated Organic Materials by Fluorination
B. Milián-Medina, J. Gierschner, J. Phys. Chem. Lett. 8 (**2017**) 91-101.

34) Highly Enhanced Fluorescence of Supramolecular Polymers Based on Cyanostilbene Derivative and Cucurbit[8]uril in Aqueous Solution
H.-J. Kim, D. R. Whang, J. Gierschner, S. Y. Park, Angew. Chem. Int. Ed. 55 (**2016**) 15915–15919.

35) Resonant Energy Transport in Dye-Filled Monolithic Crystals of Zeolite L – Modeling of Inhomogeneity
L. Viani, A. Minoia, J. Cornil, D. Beljonne, H.-J. Egelhaaf, J. Gierschner, J. Phys. Chem. C 120 (**2016**) 27192–27199.

36) Naphthalenediimide Polymers with Finely Tuned In-Chain π-Conjugation. Electronic Structure, Film Microstructure, and Charge Transport Properties
T. Erdmann, S. Fabiano, B. Milián-Medina, D. Hanifi, Z. Chen, M. Berggren, J. Gierschner, A. Salleo, A. Kiriy, B. Voit, A. Facchetti, Adv. Mater. 28 (**2016**) 9169–9174.

37) Regio(ir)regular Naphthalenediimide- and Perylenediimide-Bithiophene Copolymers: How MO Localization Controls the Bandgap
B. Milián-Medina, M. Wykes, Z. Chen, A. Facchetti, J. Gierschner, J. Mater. Chem. C 4 (**2016**) 9405-9410.

38) ¿Conjugated? Copolymers from a Pechmann Dye Derivative
A. D. Thilanga Liyanage, B. Milián-Medina, B. Zhang, J. Gierschner, M. D. Watson, Macromol. Chem. Phys. 217 (**2016**) 2068-2073.

39) Photoluminescence in Carborane-Stilbene Triads: a Combined Structural, Spectroscopic and Computational study
J. Cabrera-González, C. Viñas, M. Haukka, S. Bhattacharyya, J. Gierschner, R. Núñez, Chem. Eur. J. 22 (**2016**) 13588-13598.

40) Effective Conjugation in Conjugated Polymers with Strongly Twisted Backbones: a Case Study on Fluorinated MEHPPV
R. Milad, J. Shi, A. Aguirre, A. Cardone, B. Milián-Medina, G. M. Farinola, M. Abderrabba, J. Gierschner, J. Mater. Chem. C 4 (**2016**) 6900-6906.

41) Tuning of the Electronic and Photophysical Properties of Ladder-Type Quaterphenyl by Selective Methylene-Bridge Fluorination
B. Dänekamp, B. Kobin, S. Bhattacharyya, S. Hecht, B. Milián-Medina, J. Gierschner, Phys. Chem. Chem. Phys. 18 (**2016**) 16501-16508.

42) Stabilizing and Modulating Color by Copigmentation: Insights from Theory and Experiment
P. Trouillas, J. C. Sancho-García, V. De Freitas, J. Gierschner, M. Otyepka, O. Dangles, Chem. Rev. 116 (**2016**) 4937-4982.

43) Polymorphism and Amplified Spontaneous Emission in a Dicyano-Distyrylbenzene Derivative with Multiple Trifluoromethyl Substituents: Intermolecular Interactions in Play
S. Varghese, S. K. Park, S. Casado, R. Resel, R. Wannemacher, L. Lüer, S. Y. Park, J. Gierschner, Adv. Funct. Mater. 26 (**2016**) 2349-2356.

44) Synthesis and Conformation of a Novel Fluorescein-Zn-Porphyrin Dyad and Intramolecular Energy Transfer
O. Rezazgui, P. Trouillas, S. Qiu, B. Siegler, J. Gierschner, S. Leroy-Lhez, New J. Chem. 40 (**2016**) 3843-3856.

45) Organic Single Crystal Lasers - a Materials View
J. Gierschner, S. Varghese, S. Y. Park, Adv. Opt. Mater. 4 (**2016**) 348-364.

46) Sub-nanometer Resolution of an Organic Semiconductor Crystal Surface using Friction Force Microscopy in Water
C. Pimentel, S. Varghese, S.-J. Yoon, S. Y. Park, J. Gierschner, E. Gnecco, C. M. Pina, J. Phys.: Condens. Matter 28 (**2016**) 134002.

47) Multi-Luminescent Switching of Metal-Free Organic Phosphors for Luminometric Detection of Organic Solvents
M. S. Kwon, J. H. Jordahl, A. W. Phillips, K. Chung, S. Lee, J. Gierschner, J. Lahann, J. Kim, Chem. Sci. 7 (**2016**) 2359-2363.

48) Calculation of Low Bandgap Homopolymers: Comparison of TD-DFT Methods with Experimental Oligomer Series
E. F. Oliveira, J. C. Roldao, B. Milián-Medina, F. C. Lavarda, J. Gierschner, Chem. Phys. Lett. 645 (**2016**) 169-173.

49) Stimuli-Responsive Reversible Fluorescence Switching in a Crystalline Donor-Acceptor Mixture Film: Mixed Stack Charge-Transfer Emission versus Segregated Stack Monomer Emission
S. K. Park, I. Cho, J. Gierschner, J. H. Kim, J. H. Kim, J. E. Kwon, O. K. Kwon, D. R. Whang, J. H. Park, B.-K. An, S. Y. Park, Angew. Chem. Int. Ed. 55 (**2016**) 203-207.

50) Suppressing Molecular Motions for Enhanced Room-Temperature Phosphorescence of Metal-Free Organic Materials
M. S. Kwon, Y. Yu, C. Coburn, A. W. Phillips, K. Chung, A. Shanker, J. Jung, G. Kim, K. Pipe, S. R. Forrest, J. H. Youk, J. Gierschner, J. Kim, Nature Commun. 6 (**2015**) 8947.

51) Vibronic Coupling in Molecular Crystals: a Franck-Condon Herzberg-Teller Model of H-Aggregate Fluorescence Based on Quantum Chemical Cluster Calculations
M. Wykes, R. Parambil Mangattu, D. Beljonne, J. Gierschner, J. Chem. Phys. 143 (**2015**) 114116.

52) Excited State Features and Dynamics in a Distyrylbenzene Based Mixed Stack Donor-Acceptor Co-Crystal with Luminescent Charge Transfer Characteristics
M. Wykes, S. K. Park, S. Bhattacharyya, S. Varghese, J. E. Kwon, D. R. Whang, I. Cho, R. Wannemacher, L. Lüer, S. Y. Park, J. Gierschner, J. Phys. Chem. Lett. 6 (**2015**) 3682–3687.

53) *Shear-Triggered Crystallization and Light Emission of a Thermally Stable Organic Supercooled Liquid*
K. Chung, M. S. Kwon, B. M. Leung, A. G. Wong-Foy, M. S. Kim, J. Kim, S. Takayama, J. Gierschner, A. J. Matzger, J. Kim, ACS Cent. Sci. 1 (**2015**) 94-102.

54) *Optical Properties of Wine Pigments: Theoretical Guidelines with new Methodological Perspectives*
P. Trouillas, F. Di Melo, J. Gierschner, M. Linares, J.-C. Sancho-García, M. Otyepka, Tetrahedron 71 (**2015**) 3079-3088.

55) *Bent-Core Liquid Crystalline Cyanostilbenes: Fluorescence Switching and Thermochromism*
M. Martínez Abadía, S. Varghese, B. Milián-Medina, J. Gierschner, R. Giménez, M. B. Ros, Phys. Chem. Chem. Phys. 17 (**2015**) 11715-11724.

56) *High Contrast Red-Green-Blue Tricolor Fluorescence Switching in Bicomponent Molecular Film*
H.-J. Kim, D. R. Whang, J. Gierschner, C. H. Lee, S. Y. Park, Angew. Chem. Int. Ed. 54 (**2015**) 4330-4333.

57) *A Distyrylbenzene Based Highly Efficient Near-Infrared Emitting Organic Solid*
M. A. Kim, D. R. Whang, J. Gierschner, S. Y. Park, J. Mater. Chem. C 3 (**2015**) 231-234.

58) *Design Principles of Chemiluminescence (CL) Chemodosimeter for Highly Sensitive, Selective, and Self-Signaling Detection of Fluoride Anion: Luminol Protective Approach*
M. S. Kwon, G. Jang, D. Bilby, B. Milián-Medina, J. Gierschner, T. S. Lee, J. Kim, RSC Advances 4 (**2014**) 46488-46493.

59) *Molecular Resolution Friction Microscopy of Cu Phthalocyanine Thin Films on Dolomite (104) in Water*
P. Nita, C. Pimentel, F. Luo, B. Milián-Medina, J. Gierschner, C. M. Pina, E. Gnecco, Nansocale 6 (**2014**) 8334-8339.

60) *Orthogonal Resonator Modes and Low Lasing Threshold in Highly Emissive Distyrylbenzene-Based Molecular Crystals*
S. Varghese, S-J. Yoon, S. Casado, R. Fischer, R. Wannemacher, S. Y. Park, J. Gierschner, Adv. Opt. Mater. 2 (**2014**) 542–548.

61) *Rationally Designed Molecular D–A–D Triad for Piezochromic and Acidochromic Fluorescence On–Off Switching*
M. S. Kwon, J. Gierschner, J. Seo, S. Y. Park, J. Mat. Chem. C 2 (**2014**) 2552-2557.

62) *Energy Transfer at the Zeolite L Boundaries: Towards New Photo- and Electro-Responsive Materials*
F. Cucinotta, A. Guenet, C. Bizzarri, W. Mroz, C. Botta, B. Milián-Medina, J. Gierschner, L. De Cola, ChemPlusChem 79 (**2014**) 45-57.

63) *Computational Engineering of Low Bandgap Copolymers*
M. Wykes, B. Milián-Medina, J. Gierschner, Front. Chem 1 (**2013**) 35.

64) *Luminescent Distyrylbenzenes: Tailoring Molecular Structure and Crystalline Morphology*
J. Gierschner, S. Y. Park, J. Mater. Chem. C. 1 (**2013**) 5818-5832.

65) *Highly Emissive H-Aggregates or Aggregation-Induced Emission Quenching? The Photophysics of All-Trans Para-Distyrylbenzene*
J. Gierschner, L. Lüer, B. Milián-Medina, D. Oelkrug, H.-J. Egelhaaf, J. Phys. Chem. Lett. 4 (**2013**) 2686-2697.

66) *Stimulated Emission Properties of Sterically Modified Distyrylbenzene-Based H-Aggregate Single Crystals*
S. Varghese, S. K. Park, S. Casado, R. Fischer, R. Resel, B. Milián-Medina, R. Wannemacher, S. Y. Park, J. Gierschner, J. Phys. Chem. Lett. 4 (**2013**) 1597–1602.

67) *Tailor-made Highly Luminescent and Ambipolar Transporting Organic Mixed Stacked Charge-Transfer Crystals: an Isometric Donor-Acceptor Approach*
S. K. Park, S. Varghese, J. H. Kim, S.-J. Yoon, O. K. Kwon, B.-K. An, J. Gierschner, S. Y. Park, J. Am. Chem. Soc. 135 (**2013**) 4757-4764.

68) *Color-Tuned, Highly Emissive Dicyanodistyrylbenzene Single Crystals: Manipulating Intermolecular Stacking Interactions for Spontaneous and Stimulated Emission Characteristics*
S.-J. Yoon, S. Varghese, S. K. Park, R. Wannemacher, J. Gierschner, S. Y. Park, Adv. Opt. Mater. 1 (**2013**) 232-237.

69) *Correlation Effects in the Optical Spectra of Porphyrin Oligomer Chains: Exciton Confinement and Length Dependence*
C. Hogan, M. Palummo, J. Gierschner, A. Rubio, J. Chem. Phys. 138 (**2013**) 024312.

70) *Fluoro-Functionalization of Vinylene Units in a Polyarylenevinylene for Polymer Solar Cells: Impact of Fluorination on Morphological and Optical Properties and on Photovoltaic Performances*
A. Cardone, C. Martinelli, M. Losurdo, E. Dilonardo, G. Bruno, G. Scavia, S. Destri, P. Cosma, L. Salamandra, A. Reale, A. Di Carlo, A. Aguirre, B. Milián-Medina, J. Gierschner, G. M. Farinola, J. Mater. Chem. A 1 (**2013**) 715-727.

71) *Stimulated Resonance Raman Scattering and Lasing Oscillation in Highly Emissive Distyrylbenzene Based Molecular Crystals*
S. Varghese, S.-J. Yoon, E. M. Calzado, S. Casado, P. G. Boj, M. A. Díaz-García, R. Resel, R. Fischer, B. Milián-Medina, R. Wannemacher, S. Y. Park, J. Gierschner, Adv. Mater. 24 (**2012**) 6473-6478.

72) *Unique Piezochromic Fluorescent Behavior of Dicyanodistyrylbenzene Based Donor–Acceptor–Donor Triad: Mechanically Controlled Photo-induced Electron Transfer (eT) in Molecular Assemblies*
M. S. Kwon, J. Gierschner, S.-J. Yoon, S. Y. Park, Adv. Mater. 24 (**2012**) 5487–5492.

73) *Directional Exciton Transport in Supramolecular Nanostructured Assemblies*
J. Gierschner, Phys.Chem.Chem.Phys. 14 (**2012**) 13146-13153.

74) *π-Conjugation*
B. Milián-Medina, J. Gierschner, WIREs Comput. Mol. Sci. 2 (**2012**) 513-524.

75) *π-Conjugated Cyanostilbene Derivatives: A Unique Self-Assembly Motif for Molecular Nanostructures with Enhanced Emission and Transport*
B.-K. An, J. Gierschner, S. Y. Park, Acc. Chem. Res. 45 (**2012**) 544-554.

76) *Computational Design of Low Singlet-Triplet Gap All-Organic Molecules for OLED application*
B. Milián-Medina, J. Gierschner, Org. El. 13 (**2012**) 985-991.

77) *UV/Vis Spectra of Natural Polyphenols: a Time-dependent Density Functional Theory Study*
E. H. Anouar, J. Gierschner, J.-L. Duroux, P. Trouillas, Food. Chem. 131 (**2012**) 79-89.

78) *Tuning Interchain and Intrachain Interactions in Polyfluorene Copolymers*
Y.-S. Huang, J. Gierschner, J. P. Schmidtke, R. H. Friend, D. Beljonne, Phys. Rev. B. 84 (**2011**) 205311

79) *Excited State Switching by Per-Fluorination of para-Oligophenylenes*
B. Milián-Medina, S. Varghese, R. Ragni, H. Boerner, E. Ortí, G. M. Farinola, J. Gierschner, J. Chem. Phys. 135 (**2011**) 124509.

80) *Polarized Fluorescence from Single Stopcock Molecules at Channel Entrances of an All-Organic Host-Guest Compound*
A. M. Chizhik, R. Berger, A. I. Chizhik, A. Lyubimtsev, L. Viani, J. Cornil, S. Bär, M. Hanack, J. Hulliger, A. J. Meixner, H.-J. Egelhaaf, J. Gierschner, Chem. Mater. 23 (2011) 1088-1090.

81) *Oligothienoacenes versus oligothiophenes: Impact of ring fusion on the optical properties*
J. Aragó, P. M. Viruela, J. Gierschner, E. Ortí, B. Milián Medina, Phys. Chem. Chem. Phys. 13 (2011) 1457-1465.

82) *Electronic properties and supramolecular organization of terminal bis-alkylethynyl-substituted benzodithiophenes*
M. A. M. Leenen, F. Cucinotta, L. Viani, A. Mavrinskiy, W. Pisula, J. Gierschner, J. Cornil, A. Prodi-Schwab, H. Thiem, K. Müllen, L. De Cola, J. Phys. Chem. B. 114 (2010) 14614–14620.

83) *Multi-Stimuli Two-Color Luminescence Switching via Different Slip-Stacking of Highly Fluorescent Molecular Sheets*
S.-J. Yoon, J. W. Chung, J. Gierschner, K. S. Kim, M.-G. Choi, D. Kim, S. Y. Park, J. Am. Chem. Soc. 132 (**2010**) 13675–13683.

84) *Alignment and Relaxation Dynamics of Dye Molecules in Host-Guest Inclusion Compounds as Probed by Dielectric Spectroscopy*
J. Tsuwi, R. Berger, G. Labat, G. Couderc, N.-R. Behrnd, P. Ottiger, F. Cucinotta, K. Schürmann, M. Bertoni , L. Viani, J. Gierschner, J. Cornil, A. Prodi-Schwab, L. De Cola, M. Wübbenhorst, J. Hulliger, J. Phys. Chem. A 114 (**2010**) 6956-6963.

85) *Theoretical Characterization of Charge Transport in One-dimensional Collinear Arrays of Organic Conjugated Molecules*
L. Viani, Y. Olivier, S. Athanasopoulos, D. A. de Silva Filho, J. Hulliger, J.-L. Brédas, J. Gierschner, J. Cornil, ChemPhysChem 11 (**2010**) 1062-1068.

86) *Weak Forces at Work in Dye-Loaded Zeolite Materials: Spectroscopic Investigation on Cation-Sulfur Interactions*
G. Macchi, C. Botta, G. Calzaferri, M. Catti, J. Cornil, J. Gierschner, F. Meinardi, R. Tubino, Phys. Chem. Chem. Phys. 12 (**2010**) 2599-2605.

87) *Conjugated Polymers with Large Effective Stokes Shift:Benzobisdioxole-based Poly(phenylene-ethynylene)s*
T. Dutta, K. B. Woody, S. R. Parkin, M. D. Watson, J. Gierschner, J. Am. Chem. Soc. 131 (**2009**) 17321–17327.

88) *A Deep Red-Emitting Perylenediimide-Iridium-Complex Dyad: Following the Photophysical Deactivation Pathways*

R. D. Costa, F. J. Céspedes-Guirao, H. J. Bolink, F. Fernández-Lázaro, A. Sastre-Santos, E. Ortí, J. Gierschner, J. Phys. Chem C 113 (**2009**) 19292–19297.

89) *A White-Light-Emitting Molecule: Frustrated Energy Transfer Between Constituent Emitting Centers*
S. Park, J. E. Kwon, S. H. Kim, J. Seo, K. W. Chung, S.-Y. Park, D.-J. Jang, B. Milián Medina, J. Gierschner, S. Y. Park, J. Am. Chem. Soc. 131 (**2009**) 14043–14049.

90) *On the origin of small band gaps in alternating thiophene – thienopyrazine oligomers*
B. P. Karsten, L. Viani, J. Gierschner, J. Cornil, R. A. J. Janssen, J. Phys. Chem. A 113 (**2009**) 10343–10350.

91) *Spatial Control of Energy Transfer in Supramolecular Host-Guest Architectures*
L. Viani, L. Poulsen Tolbod, M. Jazdzyk, G. Patrinoiu, F. Cordella, A. Mura, G. Bongiovanni, C. Botta, D. Beljonne, J. Cornil, M. Hanack, H.-J. Egelhaaf, J. Gierschner, J. Phys. Chem. B. 113 (**2009**) 10566–10570.

92) *Efficient Deep-Red Light-Emitting Electrochemical Cells based on a Perylenediimide-Iridium-Complex Dyad*
R. D. Costa, F. J. Céspedes-Guirao, E. Ortí, H. J. Bolink, J. Gierschner, F. Fernández-Lázaro, A. Sastre-Santos, Chem. Comm. (**2009**) 3886-3888.

93) *Electronic Structure of Small Bandgap Polymers Based on Cyclopentadithiophenes and Acceptor Units*
B. P. Karsten, J. C. Bijleveld, L. Viani, J. Cornil, J. Gierschner, R. A. J. Janssen, J. Mater. Chem. 19 (**2009**), 5343-5350.

94) *Dynamics of Guest Molecules in PHTP Inclusion Compounds as Probed by Solid-State NMR and Fluorescence Spectroscopy*
G. Srinivasan, J. A. Villanueva-Garibay, K. Müller, D. Oelkrug, B. Milián Medina, D. Beljonne, J. Cornil, M. Wykes, L. Viani, J. Gierschner, R. Martinez Alvarez, M. Jazdzyk, M. Hanack, H.-J. Egelhaaf, Phys. Chem. Chem. Phys. 11 (**2009**) 4996-5009.

95) *Exciton versus Electronic Couplings in Molecular Assemblies: The Importance of Non-Nearest Neighbour Interactions*
J. Gierschner, Y.-S. Huang, B. Van Averbeke, J. Cornil, R. H. Friend, D. Beljonne, J. Chem. Phys 130 (**2009**) 044105.

96) *Spectroscopic Signatures for Planar Equilibrium Geometries in Methyl-Substituted Oligothiophenes*
G. Macchi, B. Milián Medina, M. Zambianchi, R. Tubino, J. Cornil, G. Barbarella, J. Gierschner, F. Meinardi, Phys. Chem. Chem. Phys. 11 (**2009**) 984-990.

97) *Conformational Disorder and Ultrafast Exciton Relaxation in PPV-family Conjugated Polymers*
T. E. Dykstra, E. Hennebicq, D. Beljonne, J. Gierschner, G. Claudio, E. R. Bittner, J. Knoester, G. D. Scholes, J. Phys. Chem. B 113 (**2009**) 656-667.

98) *EDOT-type Materials: Planar but not Rigid*
B. Milián Medina, D. Wasserberg, S. C. J. Meskers, E. Mena-Osteritz, P. Bäuerle, J. Gierschner, J. Phys. Chem. A 112 (**2008**) 13282–13286.

99) *An Oligomer Study on Small Bandgap Polymers*
B. P. Karsten, L. Viani, J. Gierschner, J. Cornil, R. A. J. Janssen, J. Phys. Chem. A 112 (**2008**) 10764–10773.

100) *Molecular Packing Effects on the Optical Spectra and Triplet Dynamics in Oligofluorene Films*
J. Cabanillas-Gonzalez, C. Sciascia, G. Lanzani, S. Toffanin, R. Capelli, M. C. Ramon, M. Muccini, J. Gierschner, T.-Y. Hwu, K.-T. Wong,, J. Phys. Chem. B 112 (**2008**) 11605-11609.

101) *Highly fluorinated Benzobisbenzothiophenes*
Y. Wang, S. R. Parkin, J. Gierschner, M. D. Watson, Org. Lett. 10 (**2008**) 3307-3310.

102) *Independent Tuning of Electronic Levels in Pentacene by Site-Specific Substitution*
B. Milián Medina, J. E. Anthony, J. Gierschner, ChemPhysChem. 9 (**2008**) 1519-1523.

103) *Oligophenylenevinylenes in Spatially Confined Nanochannels: Monitoring Intermolecular Interactions by UV/Vis and Raman Spectroscopy*
M. Aloshyna, B. Milián Medina, L. Poulsen, J. Moreau, D. Beljonne, J. Cornil, G. Di Silvestro, M.

Cerminara, F. Meinardi, R. Tubino, H. Detert, S. Schrader, H.-J. Egelhaaf, C. Botta, J. Gierschner, Adv. Funct. Mater. 18 (**2008**) 915-921.

104) *A New Functionalization Strategy for Pentacene*
J. E. Anthony, J. Gierschner, C. A. Landis, S. R. Parkin, J. B. Sherman, R. C. Bakus II, Chem. Comm. (**2007**) 4746-4748.

105) *Optical spectroscopy of a polyfluorene copolymer at high pressure: intra- and inter-molecular interactions*
J. P. Schmidtke, J.-S. Kim, J. Gierschner, C. Silva, R. H. Friend, Phys. Rev. Lett. 99 (**2007**) 167401.

106) *Electronic Structure and Charge Transport Properties of Polythiophene Chains Containing Thienothiophene Units: A Joint Experimental and Theoretical Study*
B. Milián Medina, A. Van Vooren, P. Brocorens, J. Gierschner, M. Shkunov, M. Heeney, I. McCulloch, R. Lazzaroni, J. Cornil, Chem. Mater. 19 (**2007**) 4949-4956.

107) *Three-Dimensional Energy Transport in Highly Luminescent Host-Guest Crystals: A Quantitative Experimental and Theoretical Study*
L. Poulsen, M. Jazdzyk, J.-E. Communal, J. C. Sancho-García, A. Mura, G. Bongiovanni, D. Beljonne, J. Cornil, M. Hanack, H.-J. Egelhaaf, J. Gierschner, J. Am. Chem. Soc. 129 (**2007**) 8585-8593.

108) *Migration-Assisted Nonlinear Quenching in Random Media*
D. Khoptyar, J. Gierschner, H.-J. Egelhaaf, J. Opt. Soc. Am. B 24 (**2007**) 1527-1534.

109) *Liquid Crystalline Octaalkoxycarbonyl Phthalocyanines: Design, Synthesis, Electronic Structure, Self-aggregation and Mesomorphism*
S. Sergeyev, E. Pouzet, O. Debever, J. Levin, J. Gierschner, J. Cornil, R. Gómez Aspe, Y. H. Geerts, J. Mater. Chem 17 (**2007**) 1777-1784.

110) *Hole-Vibronic Coupling in Oligothiophenes: Impact of Backbone Torsional Flexibility on Relaxation Energies*
D. A. da Silva Filho, V. Coropceanu, D. Fichou, N. E. Gruhn, T. Bill, J. Gierschner, J. Cornil, J.-L. Brédas, Phil. Trans. R. Soc. A 365 (**2007**) 1435-1452.

111) *Effect of Fluorination on the Electronic Levels and Optical Excitations of π-Conjugated Oligomers*
B. Milián Medina, D. Beljonne, H.-J. Egelhaaf, J. Gierschner, J. Chem. Phys. 126 (**2007**) 111101.

112) *Optical Bandgaps of π-Conjugated Organic Materials at the Polymer Limit: Experiment and Theory*
J. Gierschner, J. Cornil, H.-J. Egelhaaf, Adv. Mater. 19 (**2007**) 173-191.

113) *Tuning of Molecular and Solid State Properties by Fluorination: A Theoretical Study*
J. Gierschner, B. Milián Medina, H.-J. Egelhaaf, D. Beljonne, J.-L. Brédas, Polym. Mater. Sci. Eng. 96 (**2007**) 753-754.

114) *Highly Fluorescent Crystalline and Liquid Crystalline Columnar Phases of Pyrene-Based Structures*
A. Hayer, V. de Halleux, A. Köhler, A. El-Garoughy, E.W. Meijer, J. Barberá, J. Tant, J. Levin, M. Lehmann, J. Gierschner, J. Cornil, Y. H. Geerts, J. Phys. Chem. B (**2006**), 7653-7659.

115) *Solid State Optical Properties of Polyconjugated Molecules: π-Stack contra Herringbone*
J. Gierschner, M. Ehni, H.-J. Egelhaaf, B. Milián Medina, D. Beljonne, H. Benmansour, G. C. Bazan, J. Chem. Phys. 123 (**2005**) 144914.

116) *Comment on 'Structure-Property Relationships for Electron-Vibrational Coupling in Conjugated Organic Oligomeric Systems'*
J. Gierschner, J. Phys. Chem. B 109 (**2005**) 22081.

117) *Nanometric scale investigation of the nonlinear efficiency of perhydrotriphenylene inclusion compounds*
K. Komorowska, S. Brasselet, G. Dutier, I. Ledoux, J. Zyss, L. Poulsen, M. Jazdzyk, H.-J. Egelhaaf, J. Gierschner, M. Hanack, Chem. Phys. 318 (**2005**) 12-20.

118) *Design of π-Conjugated Organic Materials for One-Dimensional Energy Transport in Nanochannels*
J. C. Sancho Garcia, J. L. Brédas, D. Beljonne, J. Cornil, R. Martinez Alvarez, M. Hanack, L. Poulsen, J. Gierschner, H.-G. Mack, H.-J. Egelhaaf, D. Oelkrug, J. Phys. Chem. B. 109 (**2005**) 4872-4880.

119) *Breakdown of the Mirror Image Symmetry in the Optical Absorption/Emisssion Spectra of Oligo(para-phenylenes)*

G. Heimel, M. Daghofer, J. Gierschner, E. J. W. List, A. C. Grimsdale, K. Müllen, D. Beljonne, J. L. Brédas, E. Zojer, J. Chem. Phys. 122 (**2005**) 054501.

120) *Theoretical Characterization and Design of End-substituted Distyrylbenzenes as Excitation Shuttles in One-dimensional Channels*
J. C. Sancho Garcia, L. Poulsen, J. Gierschner, R. Martinez Alvarez, E. Hennebicq, M. Hanack, H.-J. Egelhaaf, D. Oelkrug, D. Beljonne, J. L. Brédas, J. Cornil, Adv. Mater. 16 (**2004**) 1193-1197.

121) *Optical Properties of Oligophenylenevinylenes*
J. Gierschner, D. Oelkrug, in H. Nalwa (Ed.): Encyclopedia of Nanoscience and Nanotechnology, Vol. 8, American Scientific Publishers (**2004**) 219-238.

122) *Modeling of the Optical Properties of Cofacial Chromophore Pairs: Stilbenophane*
J. Gierschner, H.-G. Mack, D. Oelkrug, I. Waldner, H. Rau, J. Phys. Chem. A. 108 (**2004**) 257-263.

123) *Time-resolved Fluorescence Spectroscopy on Single Oligophenylenevinylene Nanoparticles*
J. Gierschner, H.-J. Egelhaaf, D. Oelkrug, S. Botchway, A. W. Parker, Tech. Rep. - Counc. Cent. Lab. Res. Counc. **2003-2004**, 131-133.

124) *Luminescence of Molecules Confined in Nanochannels*
J. Gierschner, H.-J. Egelhaaf, H.-G. Mack, D. Oelkrug, R. Martinez Alvarez, M. Hanack, Synth. Met. 137 (**2003**) 1449-1450.

125) *Optical Spectra of Oligothiophenes: Vibronic States, Torsional Motions, and Solvent Shifts*
J. Gierschner, H.-G. Mack, H.-J. Egelhaaf, S. Schweizer, B. Doser, D. Oelkrug, Synth. Met. 138 (**2003**) 311-315.

126) *Fluorescence and Absorption Spectra of Oligophenylenevinylenes: Vibronic Coupling, Band Shapes and Solvatochromism*
J. Gierschner, H.-G. Mack, L. Lüer, D. Oelkrug, J. Chem. Phys. 116 (**2002**) 8596-8609.

127) *Polarizability Effects and Energy Transfer in Quinquethiophene Doped Bithiophene and OPV films*
H.-J. Egelhaaf, J. Gierschner, D. Oelkrug, Synth. Met. 127 (**2002**) 221-227.

128) *Highly Luminescent Oligo(phenylenevinylene) Films: The stereochemical Approach*
K.-H. Schweikhart, M. Hohloch, E. Steinhuber, M. Hanack, L. Lüer, J. Gierschner, H.-J. Egelhaaf, D. Oelkrug, Synth. Met. 121 (**2001**) 1641-1642.

129) *Evolution of Optical Absorption from Small Oligomers to Ideally Conjugated PPV and MEH-PPV Oligomers*
D. Oelkrug, J. Gierschner, H.-J. Egelhaaf, L. Lüer, A. Tompert, K. Müllen, U. Stalmach, H. Meier, Synth. Met. 121 (**2001**) 1693-1694.

130) *One Dimensional Coupling of Oligophenylenevinylenes in Perhydrotriphenylene Matrices*
J. Gierschner, L. Lüer, D. Oelkrug, E. Musluoglu, B. Behnisch, M. Hanack, Synth. Met. 121 (**2001**) 1695-1696.

131) *Preparation and Optical Properties of Oligophenylenevinylene/Perhydrotriphenylene Inclusion Compounds*
J. Gierschner, L. Lüer, D. Oelkrug, E. Musluoglu, B. Behnisch, M. Hanack, Adv. Mater. 12 (**2000**) 757-761.

132) *Zum Einfluß intermolekularer Wechselwirkungen auf die Photophysik in Filmen und Nanopartikeln p-konjugierter organischer Moleküle - Optische Spektroskopie an Oligophenylenvinylenen*
J. Gierschner, Verlag Köhler, Tübingen **2000** (ISBN 3-932694-76-7).

133) *Photoinduced Absorption in Thin Oligo(phenylenevinylene) Films*
D. Oelkrug, H.-J. Egelhaaf, B. Lehr, J. Gierschner, L. Lüer, P. Matousek, M. Towrie, Tech. Rep. - Counc. Cent. Lab. Res. Counc. (**1999**) 1-9.

134) *Optical Constants of Highly Oriented Oligothiophene Films and Nanoparticles*
H.-J. Egelhaaf, J. Haiber, J. Gierschner, D. Oelkrug, Opt. Mater. 12 (**1999**) 395-401.

135) *Electronic Deactivation and Energy Transfer in Doped Oligophenylenevinylene Nanoparticles*
J. Gierschner, H.-J. Egelhaaf, D. Oelkrug, K. Müllen, J. Fluorescence 8 (**1998**) 37-44.

136) *Tuning of Fluorescence Yields in Films and Nanoparticles of Oligophenylenevinylenes*
D. Oelkrug, A. Tompert, J. Gierschner, H.-J. Egelhaaf, M. Hanack, M. Hohloch, E. Steinhuber, J. Phys. Chem. B 102 (**1998**) 1902-1907.

137) *Absorption, Fluorescence and Light Scattering of Oligothiophene and Oligophenylenevinylene Nanoaggregates*
J. Gierschner, H.-J. Egelhaaf, D. Oelkrug, Synth. Met. 84 (**1997**) 529-530.

138) *Characterization of Oriented Oligo- (phenylenevinylene) Films and Nano-Aggregates by UV/Vis-Absorption and Fluorescence Spectroscopy*
H.-J. Egelhaaf, J. Gierschner, D. Oelkrug, Synth. Met. 83 (**1996**) 221-226.

139) *Electronic Deactivation in Single Chains, Nano-Aggregates and Ultrathin Films of Conjugated Oligomers*
D. Oelkrug, H.-J. Egelhaaf, J. Gierschner, A. Tompert, Synth. Met. 76 (**1996**) 249-253.