Zhi-Jian Chen

List of Publications by Citations

54 papers	5,427 citations	30 h-index	62 g-index
62 ext. papers	5,821 ext. citations	7.6 avg, IF	5.39 L-index

#	Paper	IF	Citations
54	Self-assembled pi-stacks of functional dyes in solution: structural and thermodynamic features. *Chemical Society Reviews*, **2009**, 38, 564-84	58.5	804
53	Photoluminescence and conductivity of self-assembled pi-pi stacks of perylene bisimide dyes. *Chemistry - A European Journal*, **2007**, 13, 436-49	4.8	517
52	Supramolecular p-n-heterojunctions by co-self-organization of oligo(p-phenylene vinylene) and perylene bisimide dyes. *Journal of the American Chemical Society*, **2004**, 126, 10611-8	16.4	383
51	Morphology control of fluorescent nanoaggregates by co-self-assembly of wedge- and dumbbell-shaped amphiphilic perylene bisimides. *Journal of the American Chemical Society*, **2007**, 129, 4886-7	16.4	371
50	Effect of core twisting on self-assembly and optical properties of perylene bisimide dyes in solution and columnar liquid crystalline phases. *Chemistry - A European Journal*, **2007**, 13, 450-65	4.8	325
49	Preparation and characterization of regioisomerically pure 1,7-disubstituted perylene bisimide dyes. *Journal of Organic Chemistry*, **2004**, 69, 7933-9	4.2	291
48	Photoinduced electron transfer in hydrogen-bonded oligo(p-phenylene vinylene)-perylene bisimide chiral assemblies. *Journal of the American Chemical Society*, **2002**, 124, 10252-3	16.4	267
47	Tetrachloro-substituted perylene bisimide dyes as promising n-type organic semiconductors: studies on structural, electrochemical and charge transport properties. *ChemPhysChem*, **2004**, 5, 137-40	3.2	242
46	One-dimensional luminescent nanoaggregates of perylene bisimides. *Chemical Communications*, **2006**, 1188-90	5.8	193
45	On the geometry dependence of molecular dimer spectra with an application to aggregates of perylene bisimide. *Chemical Physics*, **2006**, 328, 354-362	2.3	157
44	Influence of intermolecular orientation on the photoinduced charge transfer kinetics in self-assembled aggregates of donor-acceptor arrays. *Journal of the American Chemical Society*, **2006**, 128, 649-57	16.4	156
43	Control of ambipolar thin film architectures by co-self-assembling oligo(p-phenylenevinylene)s and perylene bisimides. *Journal of the American Chemical Society*, **2006**, 128, 9535-40	16.4	148
42	Functional organogels from highly efficient organogelator based on perylene bisimide semiconductor. *Chemical Communications*, **2006**, 3871-3	5.8	144
41	Solvent and substituent effects on aggregation constants of perylene bisimide □stacks--a linear free energy relationship analysis. *Organic and Biomolecular Chemistry*, **2012**, 10, 5845-55	3.9	140
40	Exciton delocalization and dynamics in helical □stacks of self-assembled perylene bisimides. *Chemical Science*, **2013**, 4, 388-397	9.4	138
39	Helical growth of semiconducting columnar dye assemblies based on chiral perylene bisimides. *Organic Letters*, **2007**, 9, 1085-8	6.2	136
38	Near-IR Absorbing J-Aggregate of an Amphiphilic BF -Azadipyrromethene Dye by Kinetic Cooperative Self-Assembly. *Angewandte Chemie - International Edition*, **2017**, 56, 5729-5733	16.4	119

37	Two-dimensional self-assembly into multicomponent hydrogen-bonded nanostructures. *Nano Letters*, **2005**, 5, 77-81	11.5	112
36	Water-soluble BODIPY and aza-BODIPY dyes: synthetic progress and applications. *Frontiers of Chemical Science and Engineering*, **2014**, 8, 405-417	4.5	79
35	Bias-dependent visualization of electron donor (D) and electron acceptor (A) moieties in a chiral DAD triad molecule. *Journal of the American Chemical Society*, **2003**, 125, 14968-9	16.4	77
34	Charge Separation and Recombination in Photoexcited Oligo(p-phenylene vinylene): Perylene Bisimide Arrays Close to the Marcus Inverted Region. *Journal of Physical Chemistry A*, **2004**, 108, 6933-6937	2.8	59
33	Dramatic increase in charge carrier lifetime in a liquid crystalline perylene bisimide derivative upon bay substitution with chlorine. *Journal of Materials Chemistry*, **2005**, 15, 1270-1276		58
32	The importance of nanoscopic ordering on the kinetics of photoinduced charge transfer in aggregated pi-conjugated hydrogen-bonded donor-acceptor systems. *Journal of Physical Chemistry B*, **2006**, 110, 16967-78	3.4	56
31	Co-self-assembled nanoaggregates of BODIPY amphiphiles for dual colour imaging of live cells. *Chemical Communications*, **2015**, 51, 12447-50	5.8	43
30	Towards supramolecular electronics. *Synthetic Metals*, **2004**, 147, 43-48	3.6	43
29	Dynamic Observations of the Hydrolysis of a DPPC Monolayer at the Air/Water Interface Catalyzed by Phospholipase A(2) This work was supported by the research contract between the German Max-Planck-Society and the Chinese Academy of Sciences as well as the National Natural Science Foundation of China (NNSF). J.L. thanks the president fund of the Chinese Academy of Science and	16.4	41
28	Aqueous self-assembly of a charged BODIPY amphiphile via nucleation-growth mechanism. *Physical Chemistry Chemical Physics*, **2015**, 17, 9167-72	3.6	33
27	Near-Infrared Laser-Triggered Dimorphic Transformation of BF-Azadipyrromethene Nanoaggregates for Enhanced Solid Tumor Penetration. *ACS Nano*, **2020**, 14, 3640-3650	16.7	32
26	Living Supramolecular Polymerization of an Aza-BODIPY Dye Controlled by a Hydrogen-Bond-Accepting Triazole Unit Introduced by Click Chemistry. *Angewandte Chemie - International Edition*, **2020**, 59, 5185-5192	16.4	32
25	Near-IR Absorbing J-Aggregate of an Amphiphilic BF2-Azadipyrromethene Dye by Kinetic Cooperative Self-Assembly. *Angewandte Chemie*, **2017**, 129, 5823-5827	3.6	31
24	Scanning tunneling microscopy and spectroscopy of donor-acceptor-donor triads at the liquid/solid interface. *ChemPhysChem*, **2005**, 6, 2389-95	3.2	26
23	Green fabrication of antibacterial polymer/silver nanoparticle nanohybrids by dual-spinneret electrospinning. *RSC Advances*, **2015**, 5, 40141-40147	3.7	23
22	Performance enhancement of perovskite solar cells by employing TiO nanorod arrays decorated with CuInS quantum dots. *Journal of Colloid and Interface Science*, **2018**, 513, 693-699	9.3	23
21	Coupled Cooperative Supramolecular Polymerization: A New Model Applied to the Competing Aggregation Pathways of an Amphiphilic aza-BODIPY Dye into Spherical and Rod-Like Aggregates. *Chemistry - A European Journal*, **2018**, 24, 16388-16394	4.8	18
20	Monomerization of Cationic Phthalocyanine in AOT Reversed Micelles *Langmuir*, **2001**, 17, 7957-7959	4	15

19	Alignment of supramolecular J-aggregates based on uracil-functionalized BODIPY dye for polarized photoluminescence. *Chemical Communications*, **2020**, 56, 12069-12072	5.8	15
18	Tetrathienyl-functionalized red- and NIR-absorbing BODIPY dyes appending various peripheral substituents. *Organic and Biomolecular Chemistry*, **2017**, 15, 1393-1399	3.9	11
17	Bioinspired Adaptive Microplate Arrays for Magnetically Tuned Optics. *Advanced Optical Materials*, **2017**, 5, 1601043	8.1	11
16	Living Supramolecular Polymerization of an Aza-BODIPY Dye Controlled by a Hydrogen-Bond-Accepting Triazole Unit Introduced by Click Chemistry. *Angewandte Chemie*, **2020**, 132, 5223-5230	3.6	10
15	Tracing Single Electrons in a Disordered Polymer Film at Room Temperature. *Journal of Physical Chemistry Letters*, **2016**, 7, 1478-83	6.4	10
14	Near-infrared fluorescent amphiphilic Aza-BODIPY dye: Synthesis, solvatochromic properties, and selective detection of Cu2+. *Dyes and Pigments*, **2020**, 183, 108714	4.6	6
13	J-aggregation induced emission enhancement of BODIPY dyes via H-bonding directed supramolecular polymerization: the importance of substituents at boron. *Organic Chemistry Frontiers*, **2021**, 8, 4078-4085	5.2	6
12	Tetraphenylethylene- and fluorene-functionalized near-infrared aza-BODIPY dyes for living cell imaging. *RSC Advances*, **2017**, 7, 55839-55845	3.7	5
11	Perylene diimide derivative via ionic self-assembly: helical supramolecular structure and selective detection of ATP. *Journal of Materials Chemistry C*, **2020**, 8, 10422-10430	7.1	4
10	Solubility Measurements and Prediction of Coenzyme Q10 Solubility in Different Solvent Systems. *Journal of Solution Chemistry*, **2013**, 42, 764-771	1.8	4
9	Synthesis and aggregation properties of boron-dipyrromethene dyes conjugated with guanine units. *Journal of Porphyrins and Phthalocyanines*, **2018**, 22, 944-952	1.8	3
8	Siloxane tethered perylene diimide: from monotropic phase structures to tunable photoconductivity. *Journal of Materials Chemistry C*,	7.1	3
7	Analysis of rheological behaviors of two-dimensional emulsion globules with asymmetric internal structures in modest extensional flows. *Physics of Fluids*, **2019**, 31, 042003	4.4	2
6	An amphiphilic B,O-chelated aza-BODIPY dye: synthesis, pH-sensitivity, and aggregation behaviour in a HO/DMSO mixed solvent. *Organic and Biomolecular Chemistry*, **2021**, 19, 6108-6114	3.9	2
5	Polymorphism and crystal transformation of penicillin sulfoxide. *Frontiers of Chemical Science and Engineering*, **2011**, 5, 442-447	4.5	1
4	NIR absorbing dimeric aza-BODIPY dye with J-type aggregation and photothermal properties. *Tetrahedron Letters*, **2021**, 76, 153216	2	1
3	Blue emissive dimethylmethylene-bridged triphenylamine derivatives appending cross-linkable groups. *Organic and Biomolecular Chemistry*, **2020**, 18, 3754-3760	3.9	0
2	Titelbild: Near-IR Absorbing J-Aggregate of an Amphiphilic BF2-Azadipyrromethene Dye by Kinetic Cooperative Self-Assembly (Angew. Chem. 21/2017). *Angewandte Chemie*, **2017**, 129, 5725-5725	3.6	

1 Structural and Nanotribological Properties of a BODIPY Self-Assembly. *Frontiers in Chemistry*, **2021**, 9, 704915 5