Frank WÃ¼rthner

List of Publications by Year
in descending order

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625 papers	53,978 citations	764 119 h-index	2323 199 g-index
677 all docs	677 docs citations	677 times ranked	27235 citing authors

#	Article	IF	Citations
1	Jâ€Aggregates: From Serendipitous Discovery to Supramolecular Engineering of Functional Dye Materials. Angewandte Chemie - International Edition, 2011, 50, 3376-3410.	7.2	2,075
2	Perylene bisimide dyes as versatile building blocks for functional supramolecular architectures. Chemical Communications, 2004, , 1564-1579.	2.2	2,044
3	Perylene Bisimide Dye Assemblies as Archetype Functional Supramolecular Materials. Chemical Reviews, 2016, 116, 962-1052.	23.0	1,303
4	Self-assembled Ï€-stacks of functional dyes in solution: structural and thermodynamic features. Chemical Society Reviews, 2009, 38, 564-584.	18.7	918
5	Self-Sorting Phenomena in Complex Supramolecular Systems. Chemical Reviews, 2011, 111, 5784-5814.	23.0	703
6	High-Performance Air-Stable n-Channel Organic Thin Film Transistors Based on Halogenated Perylene Bisimide Semiconductors. Journal of the American Chemical Society, 2009, 131, 6215-6228.	6.6	619
7	FluorescentJ-type Aggregates and Thermotropic Columnar Mesophases of Perylene Bisimide Dyes. Chemistry - A European Journal, 2001, 7, 2245-2253.	1.7	579
8	Vesicular perylene dye nanocapsules as supramolecular fluorescent pH sensor systems. Nature Chemistry, 2009, 1, 623-629.	6.6	563
9	Photoluminescence and Conductivity of Self-Assembled Ï€â€“Ï€ Stacks of Perylene Bisimide Dyes. Chemistry - A European Journal, 2007, 13, 436-449.	1.7	552
10	Powering the future of molecular artificial photosynthesis with light-harvesting metallosupramolecular dye assemblies. Chemical Society Reviews, 2013, 42, 1847-1870.	18.7	544
11	Naphthalene and perylene diimides for organic transistors. Chemical Communications, 2011, 47, 5109.	2.2	488
12	Supramolecular Construction of Fluorescent J-Aggregates Based on Hydrogen-Bonded Perylene Dyes. Angewandte Chemie - International Edition, 2007, 46, 5541-5544.	7.2	448
13	Metallosupramolecular squares: from structure to function. Chemical Society Reviews, 2004, 33, 133-146.	18.7	445
14	Mechanism of Self-Assembly Process and Seeded Supramolecular Polymerization of Perylene Bisimide Organogelator. Journal of the American Chemical Society, 2015, 137, 3300-3307.	6.6	433
15	Molecular Assemblies of Perylene Bisimide Dyes in Water. Angewandte Chemie - International Edition, 2012, 51, 6328-6348.	7.2	417
16	Control of Hâ€•and Jâ€Type Ï€ Stacking by Peripheral Alkyl Chains and Selfâ€Sorting Phenomena in Perylene Bisimide Homoâ€•and Heteroaggregates. Chemistry - A European Journal, 2008, 14, 11343-11357.	1.7	416
17	Supramolecular pâ€™n-Heterojunctions by Co-Self-Organization of Oligo(p-phenylene Vinylene) and Perylene Bisimide Dyes. Journal of the American Chemical Society, 2004, 126, 10611-10618.	6.6	400
18	Photoproduction of Proton Gradients with Ï€-Stacked Fluorophore Scaffolds in Lipid Bilayers. Science, 2006, 313, 84-86.	6.0	397

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19	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, 4886-4887.	6.6	393
20	Aggregationâ€Induced Emission (AIE): A Historical Perspective. Angewandte Chemie - International Edition, 2020, 59, 14192-14196.	7.2	383
21	Organic Semiconductors based on Dyes and Color Pigments. Advanced Materials, 2016, 28, 3615-3645.	11.1	377
22	All-in-one visible-light-driven water splitting by combining nanoparticulate and molecular co-catalysts on CdS nanorods. Nature Energy, 2018, 3, 862-869.	19.8	356
23	Fluorescent H-Aggregates of Merocyanine Dyes. Angewandte Chemie - International Edition, 2006, 45, 7026-7030.	7.2	355
24	Supramolecular polymerization through kinetic pathway control and living chain growth. Nature Reviews Chemistry, 2020, 4, 38-53.	13.8	351
25	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, 450-465.	1.7	342
26	A Crystalâ€Engineered Hydrogenâ€Bonded Octachloroperylene Diimide with a Twisted Core: An nâ€Channel Organic Semiconductor. Angewandte Chemie - International Edition, 2010, 49, 740-743.	7.2	337
27	Fluorescent J-Aggregates of Core-Substituted Perylene Bisimides: Studies on Structureâ^'Property Relationship, Nucleationâ^'Elongation Mechanism, and Sergeants-and-Soldiers Principle. Journal of the American Chemical Society, 2009, 131, 6719-6732.	6.6	329
28	Preparation and Characterization of Regioisomerically Pure 1,7-Disubstituted Perylene Bisimide Dyes. Journal of Organic Chemistry, 2004, 69, 7933-7939.	1.7	327
29	Strategies for the Synthesis of Functional Naphthalene Diimides. Angewandte Chemie - International Edition, 2014, 53, 7428-7448.	7.2	323
30	Dimerization of Merocyanine Dyes. Structural and Energetic Characterization of Dipolar Dye Aggregates and Implications for Nonlinear Optical Materials. Journal of the American Chemical Society, 2002, 124, 9431-9447.	6.6	307
31	Photoinduced Electron Transfer in Hydrogen-Bonded Oligo(p-phenylene vinylene)â^'Perylene Bisimide Chiral Assemblies. Journal of the American Chemical Society, 2002, 124, 10252-10253.	6.6	292
32	Exciton Trapping in Ï€-Conjugated Materials: A Quantum-Chemistry-Based Protocol Applied to Perylene Bisimide Dye Aggregates. Journal of the American Chemical Society, 2008, 130, 12858-12859.	6.6	290
33	Transformation from Hâ€•to Jâ€Aggregated Perylene Bisimide Dyes by Complexation with Cyanurates. Angewandte Chemie - International Edition, 2008, 47, 3367-3371.	7.2	285
34	Metallosupramolecular approach toward functional coordination polymers. Journal of Polymer Science Part A, 2005, 43, 4981-4995.	2.5	272
35	Tetrachloro-substituted Perylene Bisimide Dyes as Promising n-Type Organic Semiconductors: Studies on Structural, Electrochemical and Charge Transport Properties. ChemPhysChem, 2004, 5, 137-140.	1.0	260
36	Core-Substituted Naphthalene Bisimides: New Fluorophors with Tunable Emission Wavelength for FRET Studies. Chemistry - A European Journal, 2002, 8, 4742-4750.	1.7	259

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37	Fluorescent Supramolecular Polymers:Â Metal Directed Self-Assembly of Perylene Bisimide Building Blocks. Macromolecules, 2005, 38, 1315-1325.	2.2	253
38	Exciton Transport in Molecular Aggregates â€“ From Natural Antennas to Synthetic Chromophore Systems. Advanced Energy Materials, 2017, 7, 1700236.	10.2	249
39	Plastic Transistors Reach Maturity for Mass Applications in Microelectronics. Angewandte Chemie - International Edition, 2001, 40, 1037-1039.	7.2	240
40	Efficient Solutionâ€Processed Bulk Heterojunction Solar Cells by Antiparallel Supramolecular Arrangement of Dipolar Donorâ€“Acceptor Dyes. Angewandte Chemie - International Edition, 2011, 50, 11628-11632.	7.2	239
41	Progress in the synthesis of perylene bisimide dyes. Organic Chemistry Frontiers, 2019, 6, 1272-1318.	2.3	238
42	Photoconductive Cathode Interlayer for Highly Efficient Inverted Polymer Solar Cells. Journal of the American Chemical Society, 2015, 137, 6995-6998.	6.6	237
43	Coreâ€Fluorinated Perylene Bisimide Dyes: Air Stable nâ€Channel Organic Semiconductors for Thin Film Transistors with Exceptionally High Onâ€toâ€Off Current Ratios. Advanced Materials, 2007, 19, 3692-3695.	11.1	230
44	Outstanding Shortâ€Circuit Currents in BHJ Solar Cells Based on NIRâ€Absorbing Acceptorâ€Substituted Squaraines. Angewandte Chemie - International Edition, 2009, 48, 8776-8779.	7.2	228
45	Highâ€Performance Airâ€Stable nâ€Type Organic Transistors Based on Coreâ€Chlorinated Naphthalene Tetracarboxylic Diimides. Advanced Functional Materials, 2010, 20, 2148-2156.	7.8	221
46	Systems Chemistry Approach in Organic Photovoltaics. Chemistry - A European Journal, 2010, 16, 9366-9373.	1.7	220
47	Synthesis and Optical and Redox Properties of Core-Substituted Naphthalene Diimide Dyes. Journal of Organic Chemistry, 2006, 71, 8098-8105.	1.7	217
48	Intercalation of Organic Dye Molecules into Double-Stranded DNA -- General Principles and Recent Developments. , 0, , 161-204.		213
49	Dye-Based Organogels: Stimuli-Responsive Soft Materials Based on One-Dimensional Self-Assembling Aromatic Dyes. , 0, , 119-160.		212
50	Impact of Alkyl Spacer Length on Aggregation Pathways in Kinetically Controlled Supramolecular Polymerization. Journal of the American Chemical Society, 2016, 138, 670-678.	6.6	212
51	Hierarchical Organization of Functional Perylene Chromophores to Mesoscopic Superstructures by Hydrogen Bonding and Ï€-Ï€ Interactions. Advanced Materials, 1999, 11, 754-758.	11.1	210
52	Chromophore Design for Photorefractive Organic Materials. ChemPhysChem, 2002, 3, 17-31.	1.0	210
53	A supramolecular ruthenium macrocycle with high catalytic activity for water oxidation that mechanistically mimics photosystem II. Nature Chemistry, 2016, 8, 576-583.	6.6	210
54	Dipoleâ€“Dipole Interaction Driven Self-Assembly of Merocyanine Dyes: From Dimers to Nanoscale Objects and Supramolecular Materials. Accounts of Chemical Research, 2016, 49, 868-876.	7.6	205

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55	One-dimensional luminescent nanoaggregates of perylene bisimides. Chemical Communications, 2006, , 1188.	2.2	204
56	Chlorophyll J-Aggregates: From Bioinspired Dye Stacks to Nanotubes, Liquid Crystals, and Biosupramolecular Electronics. Accounts of Chemical Research, 2013, 46, 2498-2512.	7.6	201
57	Supramolecular Polymorphism in One-Dimensional Self-Assembly by Kinetic Pathway Control. Journal of the American Chemical Society, 2019, 141, 6092-6107.	6.6	194
58	Highly fluorescent and electroactive molecular squares containing perylene bisimide ligands. Chemical Communications, 2000, , 445-446.	2.2	192
59	Ultrafast Energy-Electron Transfer Cascade in a Multichromophoric Light-Harvesting Molecular Square. Journal of the American Chemical Society, 2005, 127, 6719-6729.	6.6	188
60	Supramolecular Stereomutation in Kinetic and Thermodynamic Self-Assembly of Helical Merocyanine Dye Nanorods. Angewandte Chemie - International Edition, 2005, 44, 5071-5074.	7.2	185
61	Naphthalene and perylene diimides â€“ better alternatives to fullerenes for organic electronics?. Chemical Communications, 2018, 54, 13763-13772.	2.2	185
62	Impact of mesoscale order on open-circuit voltage in organic solar cells. Nature Materials, 2015, 14, 434-439.	13.3	184
63	Supramolecular block copolymers by kinetically controlled co-self-assembly of planar and core-twisted perylene bisimides. Nature Communications, 2015, 6, 7009.	5.8	183
64	Bay-substituted perylene bisimides: Twisted fluorophores for supramolecular chemistry. Pure and Applied Chemistry, 2006, 78, 2341-2349.	0.9	180
65	Wavelength-Dependent Electron and Energy Transfer Pathways in a Side-to-Face Ruthenium Porphyrin/Perylene Bisimide Assembly. Journal of the American Chemical Society, 2005, 127, 1454-1462.	6.6	179
66	Core-Tetrasubstituted Naphthalene Diimides:â€‰ Synthesis, Optical Properties, and Redox Characteristics. Journal of Organic Chemistry, 2007, 72, 8070-8075.	1.7	176
67	A Black Perylene Bisimide Super Gelator with an Unexpected Jâ€Type Absorption Band. Advanced Materials, 2008, 20, 1695-1698.	11.1	176
68	Toward Fluorescent Memories with Nondestructive Readout: Photoswitching of Fluorescence by Intramolecular Electron Transfer in a Diaryl Etheneâ€Perylene Bisimide Photochromic System. Angewandte Chemie - International Edition, 2008, 47, 6616-6619.	7.2	174
69	Effects of Bay Substituents on the Racemization Barriers of Perylene Bisimides:â€‰ Resolution of Atropo-Enantiomers. Journal of the American Chemical Society, 2007, 129, 14319-14326.	6.6	172
70	Bulk heterojunction organic solar cells based on merocyanine colorants. Chemical Communications, 2008, , 6489.	2.2	172
71	Synthesis and Characterization of Optical and Redox Properties of Bithiophene-Functionalized Diketopyrrolopyrrole Chromophores. Journal of Organic Chemistry, 2011, 76, 2426-2432.	1.7	172
72	Influence of Intermolecular Orientation on the Photoinduced Charge Transfer Kinetics in Self-Assembled Aggregates of Donorâ^'Acceptor Arrays. Journal of the American Chemical Society, 2006, 128, 649-657.	6.6	171

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73	Solvent and substituent effects on aggregation constants of perylene bisimide Ï€-stacks â€“ a linear free energy relationship analysis. Organic and Biomolecular Chemistry, 2012, 10, 5845.	1.5	170
74	Highly Fluorescent Lyotropic Mesophases and Organogels Based on Jâ€Aggregates of Coreâ€Twisted Perylene Bisimide Dyes. Chemistry - A European Journal, 2008, 14, 8074-8078.	1.7	169
75	Exciton delocalization and dynamics in helical Ï€-stacks of self-assembled perylene bisimides. Chemical Science, 2013, 4, 388-397.	3.7	167
76	Hierarchical Self-Organization of Perylene Bisimideâ€“Melamine Assemblies to Fluorescent Mesoscopic Superstructures. Chemistry - A European Journal, 2000, 6, 3871-3886.	1.7	167
77	Supramolecular Polymerization and Gel Formation of Bis(Merocyanine) Dyes Driven by Dipolar Aggregation. Journal of the American Chemical Society, 2004, 126, 8336-8348.	6.6	166
78	Nearâ€IR Absorbing Jâ€Aggregate of an Amphiphilic BF₂â€Azadipyrromethene Dye by Kinetic Cooperative Selfâ€Assembly. Angewandte Chemie - International Edition, 2017, 56, 5729-5733.	7.2	166
79	On the geometry dependence of molecular dimer spectra with an application to aggregates of perylene bisimide. Chemical Physics, 2006, 328, 354-362.	0.9	165
80	A Triangleâˆ’Square Equilibrium of Metallosupramolecular Assemblies Based on Pd(II) and Pt(II) Corners and Diazadibenzoperylene Bridging Ligands. Journal of the American Chemical Society, 2001, 123, 5424-5430.	6.6	164
81	Giant Electroactive M₄L₆ Tetrahedral Host Self-Assembled with Fe(II) Vertices and Perylene Bisimide Dye Edges. Journal of the American Chemical Society, 2013, 135, 15656-15661.	6.6	164
82	Airâ€Stable nâ€Channel Organic Single Crystal Fieldâ€Effect Transistors Based on Microribbons of Coreâ€Chlorinated Naphthalene Diimide. Advanced Materials, 2013, 25, 6951-6955.	11.1	161
83	Microtubular Selfâ€Assembly of Covalent Organic Frameworks. Angewandte Chemie - International Edition, 2018, 57, 846-850.	7.2	158
84	Living Supramolecular Polymerization of a Perylene Bisimide Dye into Fluorescent Jâ€Aggregates. Angewandte Chemie - International Edition, 2017, 56, 16008-16012.	7.2	157
85	Highly fluorescent water-soluble polyglycerol-dendronized perylene bisimide dyes. Chemical Communications, 2010, 46, 1884-1886.	2.2	156
86	Highly Ordered Merocyanine Dye Assemblies by Supramolecular Polymerization and Hierarchical Self-Organization. Angewandte Chemie - International Edition, 2003, 42, 3247-3250.	7.2	155
87	Functional organogels from highly efficient organogelator based on perylene bisimide semiconductor. Chemical Communications, 2006, , 3871-3873.	2.2	154
88	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, 9535-9540.	6.6	154
89	Synthesis and Solvatochromic Properties of Donor-Acceptor-Substituted Oligothiophenes. Journal of Organic Chemistry, 1995, 60, 2082-2091.	1.7	152
90	Self-Assembly of Ferrocene-Functionalized Perylene Bisimide Bridging Ligands with Pt(II) Corner to Electrochemically Active Molecular Squares. Journal of the American Chemical Society, 2003, 125, 9716-9725.	6.6	152

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91	Chlorins Programmed for Self-Assembly. , 0, , 1-38.		151
92	One-Dimensional Exciton Diffusion in Perylene Bisimide Aggregates. Journal of Physical Chemistry A, 2011, 115, 648-654.	1.1	149
93	Perspectives in Dye Chemistry: A Rational Approach toward Functional Materials by Understanding the Aggregate State. Journal of the American Chemical Society, 2021, 143, 4500-4518.	6.6	149
94	Direct observation of ultrafast coherent exciton dynamics in helical Ï€-stacks of self-assembled perylene bisimides. Nature Communications, 2015, 6, 8646.	5.8	148
95	Air-stable n-channel organic thin-film transistors with high field-effect mobility based on N,Nâ€²-bis(heptafluorobutyl)-3,4:9,10-perylene diimide. Applied Physics Letters, 2007, 91, .	1.5	147
96	Helical Growth of Semiconducting Columnar Dye Assemblies Based on Chiral Perylene Bisimides. Organic Letters, 2007, 9, 1085-1088.	2.4	145
97	Selective Synthesis of Î±-Substituted Oligothiophenes. Synthesis, 1993, 1993, 1099-1103.	1.2	143
98	Supramolecularly Engineered J-Aggregates Based on Perylene Bisimide Dyes. Accounts of Chemical Research, 2021, 54, 642-653.	7.6	143
99	Fluorescent and Electroactive Cyclic Assemblies from Perylene Tetracarboxylic Acid Bisimide Ligands and Metal Phosphane Triflates. Chemistry - A European Journal, 2001, 7, 894-902.	1.7	142
100	Simple, Highly Efficient Vacuumâ€Processed Bulk Heterojunction Solar Cells Based on Merocyanine Dyes. Advanced Energy Materials, 2011, 1, 888-893.	10.2	141
101	Single-crystal field-effect transistors of new Cl2-NDI polymorph processed by sublimation in air. Nature Communications, 2015, 6, 5954.	5.8	141
102	Supramolecular adducts of squaraine and protein for noninvasive tumor imaging and photothermal therapy inÂvivo. Biomaterials, 2014, 35, 1004-1014.	5.7	140
103	Spectroscopic Demonstration of Exciton Dynamics and Excimer Formation in a Sterically Controlled Perylene Bisimide Dimer Aggregate. Journal of Physical Chemistry Letters, 2014, 5, 3601-3607.	2.1	139
104	Self-Assembly of Semiconductor Organogelator Nanowires for Photoinduced Charge Separation. ACS Nano, 2009, 3, 1107-1114.	7.3	137
105	Discrete Ï€-Stacks of Perylene Bisimide Dyes within Folda-Dimers: Insight into Long- and Short-Range Exciton Coupling. Journal of the American Chemical Society, 2018, 140, 9986-9995.	6.6	136
106	5-Dimethylamino-5â€²-nitro-2, 2â€²-bithiopheneâ€”a New Dye with Pronounced Positive Solvatochromism. Angewandte Chemie International Edition in English, 1993, 32, 719-721.	4.4	135
107	Light-Switchable Catalysis in Synthetic Receptors. Angewandte Chemie International Edition in English, 1995, 34, 446-448.	4.4	133
108	Efficient Energy Transfer from Peripheral Chromophores to the Self-Assembled Zinc Chlorin Rod Antenna:Â A Bioinspired Light-Harvesting System to Bridge the â€œGreen Gapâ€• Journal of the American Chemical Society, 2006, 128, 6542-6543.	6.6	132

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109	Nearâ€IR Phosphorescent Ruthenium(II) and Iridium(III) Perylene Bisimide Metal Complexes. Angewandte Chemie - International Edition, 2015, 54, 1570-1573.	7.2	132
110	Collective Fluorescence Blinking in Linear J-Aggregates Assisted by Long-Distance Exciton Migration. Nano Letters, 2010, 10, 620-626.	4.5	131
111	Bright Nearâ€Infrared Fluorophores Based on Squaraines by Unexpected Halogen Effects. Angewandte Chemie - International Edition, 2012, 51, 164-167.	7.2	131
112	Chiral Perylene Bisimideâ€“Melamine Assemblies: Hydrogen Bond-Directed Growth of Helically Stacked Dyes with Chiroptical Properties. Advanced Functional Materials, 2002, 12, 209.	7.8	130
113	Ultrafast Photoinduced Symmetry-Breaking Charge Separation and Electron Sharing in Perylenediimide Molecular Triangles. Journal of the American Chemical Society, 2015, 137, 13236-13239.	6.6	130
114	Anthryloligothienylporphyrins: Energy Transfer and Light-Harvesting Systems. Chemistry - A European Journal, 1998, 4, 260-269.	1.7	128
115	Ultrafast Bidirectional Photoswitching of a Spiropyran. Journal of the American Chemical Society, 2010, 132, 16510-16519.	6.6	128
116	Tailored merocyaninedyes for solution-processed BHJ solar cells. Journal of Materials Chemistry, 2010, 20, 240-243.	6.7	124
117	Direct Observation of Excimer-Mediated Intramolecular Electron Transfer in a Cofacially-Stacked Perylene Bisimide Pair. Journal of the American Chemical Society, 2016, 138, 9029-9032.	6.6	124
118	Electronic and Crystal Engineering of Acenes for Solution-Processible Self-Assembling Organic Semiconductors. ChemPhysChem, 2006, 7, 793-797.	1.0	123
119	Ultrafast Exciton Self-Trapping upon Geometry Deformation in Perylene-Based Molecular Aggregates. Journal of Physical Chemistry Letters, 2013, 4, 792-796.	2.1	123
120	Photoluminescent supramolecular polymers: metal-ion directed polymerization of terpyridine-functionalized perylene bisimide dyes. Chemical Communications, 2002, , 1878-1879.	2.2	122
121	A Perylene Bisimide Cyclophane as a â€œTurnâ€Onâ€• and â€œTurnâ€Offâ€• Fluorescence Probe. Angewandte Chemie - International Edition, 2015, 54, 10165-10168.	7.2	122
122	Computational and spectroscopic studies of organic mixed-valence compounds: where is the charge?. Physical Chemistry Chemical Physics, 2011, 13, 16973.	1.3	121
123	Dipolar Dye Aggregates: A Problem for Nonlinear Optics, but a Chance for Supramolecular Chemistry. Angewandte Chemie - International Edition, 2000, 39, 1978-1981.	7.2	119
124	Two-Dimensional Self-Assembly into Multicomponent Hydrogen-Bonded Nanostructures. Nano Letters, 2005, 5, 77-81.	4.5	115
125	Reversible Self-Organization of Semisynthetic Zinc Chlorins into Well-Defined Rod Antennae. Angewandte Chemie - International Edition, 2005, 44, 3147-3151.	7.2	114
126	Biphasic Self-Assembly Pathways and Size-Dependent Photophysical Properties of Perylene Bisimide Dye Aggregates. Journal of the American Chemical Society, 2013, 135, 18722-18725.	6.6	113

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127	Evolution of Homochiral Helical Dye Assemblies: Involvement of Autocatalysis in the â€œMajorityâ€Rulesâ€• Effect. Angewandte Chemie - International Edition, 2008, 47, 1232-1236.	7.2	112
128	ATOP Dyes. Optimization of a Multifunctional Merocyanine Chromophore for High Refractive Index Modulation in Photorefractive Materials. Journal of the American Chemical Society, 2001, 123, 2810-2824.	6.6	111
129	Self-Assembled Zinc Chlorin Rod Antennae Powered by Peripheral Light-Harvesting Chromophores. Journal of the American Chemical Society, 2008, 130, 5929-5939.	6.6	111
130	High-Performance Organic Thin-Film Transistors of J-Stacked Squaraine Dyes. Journal of the American Chemical Society, 2014, 136, 2351-2362.	6.6	111
131	Perylene Bisimide Dimer Aggregates: Fundamental Insights into Selfâ€Assembly by NMR and UV/Vis Spectroscopy. Chemistry - A European Journal, 2012, 18, 13665-13677.	1.7	110
132	Energy Transfer in Calixarene-Based Cofacial-Positioned Perylene Bisimide Arrays. Journal of the American Chemical Society, 2006, 128, 3870-3871.	6.6	109
133	Hierarchical Growth of Fluorescent Dye Aggregates in Water by Fusion of Segmented Nanostructures. Angewandte Chemie - International Edition, 2014, 53, 1270-1274.	7.2	108
134	Supramolecular Block Copolymers by Seeded Living Polymerization of Perylene Bisimides. Journal of the American Chemical Society, 2019, 141, 12044-12054.	6.6	107
135	Facile Synthesis of 3-(Ï‰-Haloalkyl)thiophenes as Key Building Blocks for Functionalized Thiophenes and Polythiophenes. Angewandte Chemie International Edition in English, 1990, 29, 419-420.	4.4	106
136	Hydrogen-Bonded Assemblies of Dyes and Extended Ï€-Conjugated Systems. , 0, , 83-118.		106
137	Understanding Ground- and Excited-State Properties of Perylene Tetracarboxylic Acid Bisimide Crystals by Means of Quantum Chemical Computations. Journal of the American Chemical Society, 2009, 131, 15660-15668.	6.6	104
138	Bright Fluorescence and Hostâ€“Guest Sensing with a Nanoscale M₄L₆ Tetrahedron Accessed by Selfâ€Assembly of Zincâ€“Imine Chelate Vertices and Perylene Bisimide Edges. Angewandte Chemie - International Edition, 2015, 54, 7285-7289.	7.2	103
139	Tunable Low-LUMO Boron-Doped Polycyclic Aromatic Hydrocarbons by General One-Pot Câ€“H Borylations. Journal of the American Chemical Society, 2019, 141, 9096-9104.	6.6	103
140	Gelation of a Highly Fluorescent Urea-Functionalized Perylene Bisimide Dye. Organic Letters, 2005, 7, 967-970.	2.4	102
141	Aqueous Solution Processed Photoconductive Cathode Interlayer for High Performance Polymer Solar Cells with Thick Interlayer and Thick Active Layer. Advanced Materials, 2016, 28, 7521-7526.	11.1	102
142	Impact of Molecular Flexibility on Binding Strength and Self-Sorting of Chiral Ï€-Surfaces. Journal of the American Chemical Society, 2011, 133, 9580-9591.	6.6	101
143	Ultrafast Exciton Delocalization, Localization, and Excimer Formation Dynamics in a Highly Defined Perylene Bisimide Quadruple Ï€-Stack. Journal of the American Chemical Society, 2018, 140, 4253-4258.	6.6	101
144	Solvent Effect on Color, Band Shape, and Chargeâ€Density Distribution for Merocyanine Dyes Close to the Cyanine Limit. Angewandte Chemie - International Edition, 2008, 47, 4529-4532.	7.2	100

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145	Merocyanine Dyes in the Cyanine Limit: A New Class of Chromophores for Photorefractive Materials. Angewandte Chemie International Edition in English, 1997, 36, 2765-2768.	4.4	99
146	An ambient stable core-substituted perylene bisimide dianion: isolation and single crystal structure analysis. Chemical Science, 2015, 6, 1663-1667.	3.7	99
147	Efficient Multiexciton State Generation in Charge-Transfer-Coupled Perylene Bisimide Dimers via Structural Control. Journal of the American Chemical Society, 2020, 142, 7845-7857.	6.6	99
148	Electrooptical Chromophores for Nonlinear Optical and Photorefractive Applications. Advanced Materials, 1999, 11, 536-541.	11.1	98
149	A core-extended naphthalene diimide as a p-channel semiconductor. Chemical Communications, 2011, 47, 11504.	2.2	98
150	Merocyanine/C₆₀ Planar Heterojunction Solar Cells: Effect of Dye Orientation on Exciton Dissociation and Solar Cell Performance. Advanced Functional Materials, 2012, 22, 86-96.	7.8	98
151	Diketopyrrolopyrrole as a p-channel organic semiconductor for high performance OTFTs. Chemical Communications, 2011, 47, 1767-1769.	2.2	96
152	Bay-substituted perylene bisimide dye with an undistorted planar scaffold and outstanding solid state fluorescence properties. Chemical Communications, 2012, 48, 12050.	2.2	95
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