

# Zhaohui Wang

## List of Publications by Citations

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242  
papers

13,639  
citations

59  
h-index

109  
g-index

261  
ext. papers

15,375  
ext. citations

9.3  
avg, IF

6.83  
L-index

#	Paper	IF	Citations
242	Non-fullerene acceptors for organic solar cells. <i>Nature Reviews Materials</i> , <b>2018</b> , 3,	73.3	1634
241	High-Performance Solution-Processed Non-Fullerene Organic Solar Cells Based on Selenophene-Containing Perylene Bisimide Acceptor. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 375-80	16.4	579
240	Non-Fullerene-Acceptor-Based Bulk-Heterojunction Organic Solar Cells with Efficiency over 7. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 11156-62	16.4	440
239	Three-Bladed Rylene Propellers with Three-Dimensional Network Assembly for Organic Electronics. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 10184-90	16.4	391
238	Heteroarenes as high performance organic semiconductors. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 6113-27	58.5	346
237	Polymer Donors for High-Performance Non-Fullerene Organic Solar Cells. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 4442-4453	16.4	270
236	Bay-linked perylene bisimides as promising non-fullerene acceptors for organic solar cells. <i>Chemical Communications</i> , <b>2014</b> , 50, 1024-6	5.8	262
235	Tailor-made rylene arrays for high performance n-channel semiconductors. <i>Accounts of Chemical Research</i> , <b>2014</b> , 47, 3135-47	24.3	250
234	Solution-processed, high-performance nanoribbon transistors based on dithioperylene. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 1-3	16.4	239
233	Ternary Organic Solar Cells Based on Two Compatible Nonfullerene Acceptors with Power Conversion Efficiency >10. <i>Advanced Materials</i> , <b>2016</b> , 28, 10008-10015	24	234
232	An Electron Acceptor with Porphyrin and Perylene Bisimides for Efficient Non-Fullerene Solar Cells. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 2694-2698	16.4	202
231	Thermoresponsive polypeptides from pegylated poly-L-glutamates. <i>Biomacromolecules</i> , <b>2011</b> , 12, 2859-63	6.9	202
230	Hexakis(4-iodophenyl)-peri-hexabenzocoronene- a versatile building block for highly ordered discotic liquid crystalline materials. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 177-86	16.4	188
229	High mobility, air stable, organic single crystal transistors of an n-type diperylene bisimide. <i>Advanced Materials</i> , <b>2012</b> , 24, 2626-30	24	187
228	New developments in non-fullerene small molecule acceptors for polymer solar cells. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 1291-1303	7.8	175
227	High-performance and tailorable pressure sensor based on ultrathin conductive polymer film. <i>Small</i> , <b>2014</b> , 10, 1466-72	11	157
226	Organic Single-Crystalline Ribbons of a Rigid "H"-type Anthracene Derivative and High-Performance, Short-Channel Field-Effect Transistors of Individual Micro/Nanometer-Sized Ribbons Fabricated by an "Organic Ribbon Mask" Technique. <i>Advanced Materials</i> , <b>2008</b> , 20, 2735-40	24	150

225	Fully conjugated tri(perylene bisimides): an approach to the construction of n-type graphene nanoribbons. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 17970-6	16.4	147
224	Skin-Inspired Haptic Memory Arrays with an Electrically Reconfigurable Architecture. <i>Advanced Materials</i> , <b>2016</b> , 28, 1559-66	24	135
223	High-performance transistor based on individual single-crystalline micrometer wire of perylo[1,12-b,c,d]thiophene. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 1882-3	16.4	134
222	Suppressing aggregation in a large polycyclic aromatic hydrocarbon. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 1334-9	16.4	130
221	Asymmetric Diketopyrrolopyrrole Conjugated Polymers for Field-Effect Transistors and Polymer Solar Cells Processed from a Nonchlorinated Solvent. <i>Advanced Materials</i> , <b>2016</b> , 28, 943-50	24	128
220	Air-stable n-type semiconductor: core-perfluoroalkylated perylene bisimides. <i>Organic Letters</i> , <b>2008</b> , 10, 529-32	6.2	118
219	Hybrid rylene arrays via combination of Stille coupling and C-H transformation as high-performance electron transport materials. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 5770-3	16.4	117
218	From Branched Polyphenylenes to Graphite Ribbons. <i>Macromolecules</i> , <b>2003</b> , 36, 7082-7089	5.5	117
217	Exceptional coupling of tetrachloroperylene bisimide: combination of Ullmann reaction and C-H transformation. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 10664-5	16.4	108
216	Self-assembly of electron donor-acceptor dyads into ordered architectures in two and three dimensions: surface patterning and columnar "double cables". <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 3567-75	16.4	107
215	Influence of Molecular Geometry of Perylene Diimide Dimers and Polymers on Bulk Heterojunction Morphology Toward High-Performance Nonfullerene Polymer Solar Cells. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 5326-5332	15.6	106
214	Electron-deficient N-heteroaromatic linkers for the elaboration of large, soluble polycyclic aromatic hydrocarbons and their use in the synthesis of some very large transition metal complexes. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 11743-9	16.4	101
213	High-Performance, Stable Organic Field-Effect Transistors Based on trans-1,2-(Dithieno[2,3-b:3',2'-d]thiophene)ethene. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 1993-1999	9.6	100
212	Enhanced Efficiency in Fullerene-Free Polymer Solar Cell by Incorporating Fine-designed Donor and Acceptor Materials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 9274-80	9.5	97
211	Efficient Organic Solar Cells with Extremely High Open-Circuit Voltages and Low Voltage Losses by Suppressing Nonradiative Recombination Losses. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801699	21.8	97
210	Perylene Diimide Trimers Based Bulk Heterojunction Organic Solar Cells with Efficiency over 7%. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600060	21.8	97
209	Heteroatom-annulated perylenes: practical synthesis, photophysical properties, and solid-state packing arrangement. <i>Journal of Organic Chemistry</i> , <b>2008</b> , 73, 7369-72	4.2	96
208	Spiro-Fused Perylene Diimide Arrays. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 15914-15920	16.4	90

207	A Densely and Uniformly Packed Organic Semiconductor Based on Annulated Triithiophenes for High-Performance Thin Film Transistors. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 272-276	15.6	84
206	Graphitic molecules with partial "zig/zag" periphery. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 7794-5	16.4	82
205	Bis-N-annulated quaterrylene: an approach to processable graphene nanoribbons. <i>Organic Letters</i> , <b>2009</b> , 11, 1385-7	6.2	81
204	Exceptional Intersystem Crossing in Di(perylene bisimide)s: A Structural Platform toward Photosensitizers for Singlet Oxygen Generation. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 2499-2502	6.4	80
203	One-pot synthesis of stable NIR tetracene diimides via double cross-coupling. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 18054-7	16.4	80
202	Advances in Non-Fullerene Acceptor Based Ternary Organic Solar Cells. <i>Solar Rrl</i> , <b>2018</b> , 2, 1700158	7.1	79
201	Synthesis and luminescence properties of novel ferrocene-bipthalimides dyads. <i>Journal of Organometallic Chemistry</i> , <b>2002</b> , 645, 168-175	2.3	77
200	Tri-N-annulated hexarylene: an approach to well-defined graphene nanoribbons with large dipoles. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 4208-13	16.4	74
199	Fine-tuned nanostructures assembled from L-lysine-functionalized perylene bisimides. <i>Langmuir</i> , <b>2011</b> , 27, 11364-71	4	73
198	Perylene Diimide-Embedded Double [8]Helicenes. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 7092-7099	16.4	72
197	Selecting a donor polymer for realizing favorable morphology in efficient non-fullerene acceptor-based solar cells. <i>Small</i> , <b>2014</b> , 10, 4658-63	11	72
196	High-Performance Non-Fullerene Organic Solar Cells Based on a Selenium-Containing Polymer Donor and a Twisted Perylene Bisimide Acceptor. <i>Advanced Science</i> , <b>2016</b> , 3, 1600117	13.6	72
195	Efficient Ternary Organic Solar Cells Enabled by the Integration of Nonfullerene and Fullerene Acceptors with a Broad Composition Tolerance. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1807006	15.6	70
194	High Performance Polymer Nanowire Field-Effect Transistors with Distinct Molecular Orientations. <i>Advanced Materials</i> , <b>2015</b> , 27, 4963-8	24	68
193	S-heterocyclic annulated perylene bisimide: synthesis and co-crystal with pyrene. <i>Chemical Communications</i> , <b>2006</b> , 4587-9	5.8	68
192	"Double-concave" graphene: permethoxylated hexa-peri-hexabenzocoronene and its cocrystals with hexafluorobenzene and fullerene. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 1247-50	16.4	68
191	One-pot facile synthesis of pyridyl annulated perylene bisimides. <i>Organic Letters</i> , <b>2010</b> , 12, 228-31	6.2	67
190	The Crucial Role of Chlorinated Thiophene Orientation in Conjugated Polymers for Photovoltaic Devices. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 12911-12915	16.4	66

189	N-Annulated perylene-based metal-free organic sensitizers for dye-sensitized solar cells. <i>Chemical Communications</i> , <b>2015</b> , 51, 4842-5	5.8	66
188	n-Type charge transport and mobility of fluorinated perylene bisimide semiconductors. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 5327-34	3.4	66
187	Corannulylene Pentapetalae. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 5402-5408	16.4	63
186	Localization/delocalization of charges in bay-linked perylene bisimides. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 6764-75	4.8	59
185	Nanographene Imides Featuring Dual-Core Sixfold [5]Helicenes. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 178-183	16.4	59
184	Oligomers of hexa-peri-hexabenzocoronenes as "super-oligophenylenes": synthesis, electronic properties, and self-assembly. <i>Journal of Organic Chemistry</i> , <b>2004</b> , 69, 8194-204	4.2	57
183	New D-A-BA organic sensitizers for efficient dye-sensitized solar cells. <i>Chemical Communications</i> , <b>2015</b> , 51, 3590-2	5.8	55
182	The ultrafast intramolecular dynamics of phthalocyanine and porphyrin derivatives. <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 5377-5379	3.9	55
181	Effect of Fluorination on Molecular Orientation of Conjugated Polymers in High Performance Field-Effect Transistors. <i>Macromolecules</i> , <b>2016</b> , 49, 6431-6438	5.5	55
180	Cyano-substituted perylene diimides with linearly correlated LUMO levels. <i>Organic Letters</i> , <b>2014</b> , 16, 394-7	6.2	54
179	Heterocyclic annulated di(peryene bisimide): constructing bowl-shaped peryene bisimides by the combination of steric congestion and ring strain. <i>Journal of Organic Chemistry</i> , <b>2009</b> , 74, 6275-82	4.2	54
178	Synthesis and Application of Rylene Imide Dyes as Organic Semiconducting Materials. <i>Chemistry - an Asian Journal</i> , <b>2018</b> , 13, 20-30	4.5	54
177	Electron-Transporting Bis(heterotetracenes) with Tunable Helical Packing. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 10933-10937	16.4	53
176	Surface supported gold-organic hybrids: on-surface synthesis and surface directed orientation. <i>Small</i> , <b>2014</b> , 10, 1361-8	11	53
175	Photochemical cycling of iron mediated by dicarboxylates: special effect of malonate. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 263-8	10.3	53
174	Triperylene Hexaimides Based All-Small-Molecule Solar Cells with an Efficiency over 6% and Open Circuit Voltage of 1.04 V. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601664	21.8	51
173	Rational design of helical columnar packing in single crystals. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 1972-5	16.4	49
172	Synthesis and properties of heterocyclic acene diimides. <i>Organic Letters</i> , <b>2013</b> , 15, 682-5	6.2	48

171	Highly regiospecific synthetic approach to monobay-functionalized perylene bisimide and di(peryene bisimide). <i>Organic Letters</i> , <b>2009</b> , 11, 3084-7	6.2	48
170	A Decatwistacene with an Overall 170° Torsion. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 15373-15377	16.4	47
169	Copper-mediated domino process for the synthesis of tetraiodinated di(peryene bisimide). <i>Organic Letters</i> , <b>2008</b> , 10, 2337-40	6.2	47
168	Single crystalline microribbons of perylo[1,12-b,c,d]selenophene for high performance transistors. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 153306	3.4	46
167	Ferrocene as a highly volatile solid additive in non-fullerene organic solar cells with enhanced photovoltaic performance. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 5117-5125	35.4	46
166	Influence of alkyl chains on photovoltaic properties of 3D rylene propeller electron acceptors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 3475-3482	13	44
165	Direct functionalization of polycyclic aromatics via radical perfluoroalkylation. <i>Organic Letters</i> , <b>2010</b> , 12, 2374-7	6.2	44
164	Capillary-Bridge Mediated Assembly of Conjugated Polymer Arrays toward Organic Photodetectors. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1701347	15.6	43
163	Partially stripped insulated nanowires: a lightly substituted hexa-peri-hexabenzocoronene-based columnar liquid crystal. <i>Chemical Communications</i> , <b>2004</b> , 336-7	5.8	42
162	Bridge-Mediated Charge Separation in Isomeric N-Annulated Perylene Diimide Dimers. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 12789-12796	16.4	41
161	Photochemical Coupling of Iron Redox Reactions and Transformation of Low-Molecular-Weight Organic Matter. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 2044-2051	6.4	41
160	Tetrachloro-tetra(peryene bisimides): an approach towards N-type graphene nanoribbons. <i>Chemical Communications</i> , <b>2010</b> , 46, 1926-8	5.8	41
159	A Study on the Epitaxial Ordering Process of the Polycaprolactone on the Highly Oriented Polyethylene Substrate. <i>Macromolecules</i> , <b>2010</b> , 43, 362-366	5.5	41
158	Structural selection of graphene supramolecular assembly oriented by molecular conformation and alkyl chain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 16849-54	11.5	41
157	Suppression of Recombination Energy Losses by Decreasing the Energetic Offsets in Perylene Diimide-Based Nonfullerene Organic Solar Cells. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2729-2735	20.1	41
156	Toward efficient non-fullerene polymer solar cells: Selection of donor polymers. <i>Organic Electronics</i> , <b>2015</b> , 17, 295-303	3.5	40
155	Direct meta-selective alkylation of perylene bisimides via palladium-catalyzed C-H functionalization. <i>Organic Letters</i> , <b>2009</b> , 11, 5430-3	6.2	40
154	Photochemical coupling reactions between Fe(III)/Fe(II), Cr(VI)/Cr(III), and polycarboxylates: inhibitory effect of Cr species. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 7260-6	10.3	39

153	Nonfullerene-Acceptor All-Small-Molecule Organic Solar Cells Based on Highly Twisted Perylene Bisimide with an Efficiency of over 6. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 2739-2746	9.5	38
152	A high performance three-dimensional thiophene-annulated perylene dye as an acceptor for organic solar cells. <i>Chemical Communications</i> , <b>2016</b> , 52, 11500-11503	5.8	37
151	Giant Rylene Imide-Based Electron Acceptors for Organic Photovoltaics. <i>Accounts of Chemical Research</i> , <b>2021</b> , 54, 961-975	24.3	37
150	Diaceno[a,e]pentalenes: An Excellent Molecular Platform for High-Performance Organic Semiconductors. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 17016-22	4.8	36
149	High performance n-type single crystalline transistors of naphthalene bis(dicarboximide) and their anisotropic transport in crystals. <i>Chemical Communications</i> , <b>2012</b> , 48, 5154-6	5.8	36
148	N-Alkyl substituted di(peryene bisimides) as air-stable electron transport materials for solution-processible thin-film transistors with enhanced performance. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 3200	7.1	36
147	Light-assisted decomposition of dyes over iron-bearing soil clays in the presence of H <sub>2</sub> O <sub>2</sub> . <i>Journal of Hazardous Materials</i> , <b>2009</b> , 168, 1246-52	12.8	36
146	Synthesis and properties of naphthobisbenzothiophene diimides. <i>Organic Letters</i> , <b>2013</b> , 15, 1366-9	6.2	35
145	Synthesis and properties of ethylene-annulated di(peryene diimides). <i>Organic Letters</i> , <b>2012</b> , 14, 5278-816.2		35
144	Photocatalytic Oxidation of Organic Pollutants Catalyzed by an Iron Complex at Biocompatible pH Values: Using O <sub>2</sub> as Main Oxidant in a Fenton-like Reaction. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 4089-4095	3.8	35
143	Regioselective functionalization of core-persubstituted perylene diimides. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 5209-13	4.8	34
142	Nanoscale array of inversely biased molecular rectifiers. <i>Chemical Physics Letters</i> , <b>2004</b> , 387, 372-376	2.5	34
141	High performance, air stable n-type single crystal transistors based on core-tetrachlorinated perylene diimides. <i>Chemical Communications</i> , <b>2014</b> , 50, 12462-4	5.8	33
140	Novel Air Stable Organic Radical Semiconductor of Dimers of Dithienothiophene, Single Crystals, and Field-Effect Transistors. <i>Advanced Materials</i> , <b>2016</b> , 28, 7466-71	24	33
139	Spirobifluorene-Based Conjugated Polymers for Polymer Solar Cells with High Open-Circuit Voltage. <i>Macromolecules</i> , <b>2012</b> , 45, 3017-3022	5.5	32
138	Alkyl Chain Regiochemistry of Benzotriazole-Based Donor Polymers Influencing Morphology and Performances of Non-Fullerene Organic Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702427	21.8	31
137	Hexacene Diimides. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 12175-12180	16.4	31
136	Pyridine-bridged diketopyrrolopyrrole conjugated polymers for field-effect transistors and polymer solar cells. <i>Polymer Chemistry</i> , <b>2015</b> , 6, 4775-4783	4.9	31

- 135 One-pot synthesis of well-defined oligo-butadiynylene-naphthalene diimides. *Organic Letters*, **2010**, 12, 3460-3 6.2 31
- 134 Synthesis, crystal structure, enhanced photoluminescence properties and fluoride detection ability of S-heterocyclic annulated perylene diimide-polyhedral oligosilsesquioxane dye. *Journal of Materials Chemistry C*, **2017**, 5, 2566-2576 7.1 30
- 133 Synthesis, packing arrangement and transistor performance of dimers of dithienothiophenes. *Journal of Materials Chemistry*, **2009**, 19, 8216 30
- 132 Polycyclic aromatic hydrocarbons with orthogonal tetraimides as n-type semiconductors. *Chemical Communications*, **2016**, 52, 13209-13212 5.8 29
- 131 Core-extended rylene dyes via thiophene annulation. *Chemical Communications*, **2012**, 48, 8204-6 5.8 28
- 130 Molecular evidence for the intermolecular S $\cdots$ S interaction in the surface molecular packing motifs of a fused thiophene derivative. *Chemical Communications*, **2013**, 49, 1829-31 5.8 28
- 129 Self-assembled monolayer and multilayer films based on L-lysine functionalized perylene bisimide. *Journal of Materials Chemistry*, **2012**, 22, 4312-4318 27
- 128 Integration of nitrogen into coronene bisimides. *Tetrahedron*, **2012**, 68, 9234-9239 2.4 26
- 127 Organic cocrystals: the development of ferroelectric properties. *Science China Materials*, **2016**, 59, 523-530 25
- 126 A Decatwistacene with an Overall 170 $\circ$  Torsion. *Angewandte Chemie*, **2017**, 129, 15575-15579 3.6 25
- 125 Vapor Phase Epitaxy of Perylo[1,12-b,c,d]thiophene on Highly Oriented Polyethylene Thin Films. *Macromolecules*, **2009**, 42, 9321-9324 5.5 25
- 124 Theoretical Analysis of Ultrafast Fluorescence Depletion of Vibrational Relaxation of Dye Molecules in Solution. *Journal of Physical Chemistry A*, **1998**, 102, 4266-4270 2.8 25
- 123 A C<sub>2</sub>-symmetric triple [5]helicene based on N-annulated triperylene hexaimide for chiroptical electronics. *Science China Chemistry*, **2020**, 63, 208-214 7.9 25
- 122 Perfluoroalkyl-substituted conjugated polymers as electron acceptors for all-polymer solar cells: the effect of diiodoperfluoroalkane additives. *Journal of Materials Chemistry A*, **2016**, 4, 7736-7745 13 25
- 121 Polymer Donors for High-Performance Non-Fullerene Organic Solar Cells. *Angewandte Chemie*, **2019**, 131, 4488-4499 3.6 25
- 120 High Efficiency Non-fullerene Organic Tandem Photovoltaics Based on Ternary Blend Subcells. *Nano Letters*, **2018**, 18, 7977-7984 11.5 25
- 119 Simultaneously Enhanced Reverse Intersystem Crossing and Radiative Decay in Thermally Activated Delayed Fluorophors with Multiple Through-space Charge Transfers. *Angewandte Chemie - International Edition*, **2021**, 60, 23771-23776 16.4 25
- 118 Structure-dependent all-optical switching in graphene-nanoribbon-like molecules: fully conjugated tri(peryene bisimides). *Journal of Physical Chemistry A*, **2010**, 114, 9130-5 2.8 24



117	Chiral nanoribbons based on doubly-linked oligo-perylene bisimides. <i>Chemical Communications</i> , <b>2010</b> , 46, 6078-80	5.8	23
116	Fulvalene-Embedded Perylene Diimide and Its Stable Radical Anion. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 752-757	16.4	23
115	Columnar liquid crystalline bis-N-annulated quaterrylenes. <i>Chemical Communications</i> , <b>2011</b> , 47, 10088-90	5.8	22
114	An Electron Acceptor with Porphyrin and Perylene Bisimides for Efficient Non-Fullerene Solar Cells. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 2738-2742	3.6	21
113	Synthesis of nitrogen-doped monolayer graphene with high transparent and n-type electrical properties. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 6172-6177	7.1	21
112	Epitaxially-crystallized oriented naphthalene bis(dicarboximide) morphology for significant performance improvement of electron-transporting thin-film transistors. <i>Chemical Communications</i> , <b>2016</b> , 52, 4902-5	5.8	21
111	Tailorable aqueous dispersion of single-walled carbon nanotubes using tetrachloroperylene-based bolaamphiphiles via noncovalent modification. <i>Langmuir</i> , <b>2014</b> , 30, 8615-20	4	21
110	Molecular crystal lithography: a facile and low-cost approach to fabricate nanogap electrodes. <i>Advanced Materials</i> , <b>2012</b> , 24, 694-8	24	21
109	Double-Concave Graphene: Permethylated Hexa-peri-hexabenzocoronene and Its Cocrystals with Hexafluorobenzene and Fullerene. <i>Angewandte Chemie</i> , <b>2005</b> , 117, 1273-1276	3.6	21
108	Nanographene Imides Featuring Dual-Core Sixfold [5]Helicenes. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 184-189	3.6	21
107	Controlled formation of large-area single-crystalline TIPS-pentacene arrays through superhydrophobic micropillar flow-coating. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 2702-2707	7.1	20
106	Facile synthesis of a pyrrole-fused dibenzo[a,e]pentalene and its application as a new extended, ladder-type fused aromatic system. <i>Chemical Communications</i> , <b>2015</b> , 51, 693-6	5.8	20
105	Tuning charge transport from unipolar (n-type) to ambipolar in bis(naphthalene diimide) derivatives by introducing $\pi$ -conjugated heterocyclic bridging moieties. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 7230-7240	7.1	20
104	Donor-linked di(peryene bisimide)s: arrays exhibiting fast electron transfer for photosynthesis mimics. <i>Journal of Physical Chemistry A</i> , <b>2013</b> , 117, 1712-20	2.8	20
103	Rylene Annulated Subphthalocyanine: A Promising Cone-Shaped Non-Fullerene Acceptor for Organic Solar Cells <b>2019</b> , 1, 404-409		19
102	Molecular and crystal structure diversity, and physical properties of tetrathiafulvalene derivatives substituted with various aryl groups through sulfur bridges. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 12517-25	4.8	19
101	Triangle-shaped polycyclic aromatics based on tribenzocoronene: facile synthesis and physical properties. <i>Tetrahedron</i> , <b>2009</b> , 65, 3417-3424	2.4	19
100	Conjugated polymers with deep LUMO levels for field-effect transistors and polymer/polymer solar cells. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 8255-8261	7.1	18

99	Conjugated polymer with ternary electron-deficient units for ambipolar nanowire field-effect transistors. <i>Journal of Polymer Science Part A</i> , <b>2016</b> , 54, 34-38	2.5	18
98	Bis(perylene diimide) with DACH bridge as non-fullerene electron acceptor for organic solar cells. <i>RSC Advances</i> , <b>2016</b> , 6, 14027-14033	3.7	18
97	Thermally sensitive self-assembly of glucose-functionalized tetrachloro-perylene bisimides: from twisted ribbons to microplates. <i>Langmuir</i> , <b>2014</b> , 30, 11040-5	4	18
96	Theoretical predictions of red and near-infrared strongly emitting X-annulated rylenes. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 074510	3.9	18
95	Hybrid Corannulene-Perylene Dyes: Facile Synthesis and Optoelectronic Properties. <i>Chemistry - an Asian Journal</i> , <b>2016</b> , 11, 2695-2699	4.5	18
94	Electron-Transporting Bis(heterotetracenes) with Tunable Helical Packing. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 11099-11103	3.6	18
93	Symmetry-Induced Orderly Assembly Achieving High-Performance Perylene Diimide-Based Nonfullerene Organic Solar Cells. <i>CCS Chemistry</i> , <b>2021</b> , 3, 78-84	7.2	18
92	Rigid Nonfullerene Acceptors Based on Triptycene-Perylene Dye for Organic Solar Cells. <i>Chemistry - an Asian Journal</i> , <b>2017</b> , 12, 1286-1290	4.5	17
91	Fluoroalkyl-modified naphthodithiophene diimides. <i>Chemical Communications</i> , <b>2016</b> , 53, 188-191	5.8	17
90	Twisted terrylene dyes: synthesis and application in organic solar cells. <i>Organic Chemistry Frontiers</i> , <b>2017</b> , 4, 811-816	5.2	17
89	Tuning Charge Generation Process of Rylene Imide-Based Solar Cells via Chalcogen-Atom-Annulation. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 3636-3643	9.6	17
88	Steering Two-Dimensional Porous Networks with $\pi$ -Hole Interactions of Br $\cdots$ S and Br $\cdots$ Br. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 3041-3048	9.6	17
87	Synthesis and photovoltaic behaviors of benzothiadiazole- and triphenylamine-based alternating copolymers. <i>Polymer</i> , <b>2012</b> , 53, 324-332	3.9	17
86	PEGylated nanoparticles of diperylene bisimides with high efficiency of 10 <sup>2</sup> generation. <i>Dyes and Pigments</i> , <b>2013</b> , 97, 129-133	4.6	17
85	Isomeric N-Annulated Perylene Diimide Dimers for Organic Solar Cells. <i>Chemistry - an Asian Journal</i> , <b>2018</b> , 13, 918-923	4.5	16
84	Surface Host-Guest Supramolecular Assemblies on Porphyrin-Based Covalent Organic Grids. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 15753-15757	3.8	16
83	A Dewetting-Induced Assembly Strategy for Precisely Patterning Organic Single Crystals in OFETs. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 18978-84	9.5	16
82	Isomeric indacenedibenzothiophenes: synthesis, photoelectric properties and ambipolar semiconductivity. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 5202-5206	7.1	16

81	Cocrystallization Tailoring Multiple Radiative Decay Pathways for Amplified Spontaneous Emission. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 281-289	16.4	16
80	Dibromomaleimide Derivative as an Efficient Polymer Coupling Agent for Building Topological Polymers. <i>Macromolecular Chemistry and Physics</i> , <b>2013</b> , 214, 470-477	2.6	15
79	Innovative sensitizer DiPBI outperforms PCBM. <i>Advanced Materials</i> , <b>2012</b> , 24, 2104-8	24	15
78	Facile synthesis of Janus "double-concave" tribenzo[a,g,m]coronenes. <i>Journal of Organic Chemistry</i> , <b>2007</b> , 72, 3917-20	4.2	15
77	Red-emissive poly(phenylene vinylene)-derivated semiconductors with well-balanced ambipolar electrical transporting properties. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 10868-10879	7.1	14
76	P3HT:DiPBI bulk heterojunction solar cells: morphology and electronic structure probed by multiscale simulation and UV/vis spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 6217-27	3.6	14
75	Laterally expanded rylene diimides with uniform branched side chains for solution-processed air stable n-channel thin film transistors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 18098-103	9.5	14
74	High-performance electron-transporting hybrid rylenes with low threshold voltage. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 7513	7.1	14
73	Intramolecular Fluorescence Quenching in Ferrocene-Naphthalimide Dyads. <i>Chemistry Letters</i> , <b>1999</b> , 28, 423-424	1.7	14
72	Fuller-Rylenes: Cross-Dimensional Molecular Carbons. <i>CCS Chemistry</i> , <b>2020</b> , 2, 271-279	7.2	14
71	Dodecatwistarene Imides with Zigzag-Twisted Conformation for Organic Electronics. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 2008-2012	16.4	14
70	Synthesis and Applications of $\pi$ -Extended Naphthalene Diimides. <i>Chemical Record</i> , <b>2016</b> , 16, 873-85	6.6	14
69	Lateral Extension of a Benzodithiophene System: Construction of Heteroacenes Containing Various Chalcogens. <i>Chemistry - an Asian Journal</i> , <b>2017</b> , 12, 1879-1882	4.5	13
68	Near-infrared electron acceptors based on terrylene diimides for organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 18808-18812	13	13
67	Synthesis and Properties of Diazapentacene Diimides. <i>Asian Journal of Organic Chemistry</i> , <b>2014</b> , 3, 114-117	13	12
66	Decorating tetrathiafulvalene (TTF) with fluorinated phenyls through sulfur bridges: facile synthesis, properties, and aggregation through fluorine interactions. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 9650-6	4.8	12
65	Perpendicularly entangled perylene diimides for high performance electron transport materials. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 7812	7.1	12
64	Construction of well-defined butadiynylene-linked perylene bisimide arrays via cross-coupling. <i>Dyes and Pigments</i> , <b>2013</b> , 97, 244-249	4.6	12

63	Palladium-Catalyzed Si-C Bond Formation toward Sila-Annulated Perylene Diimides. <i>Organic Letters</i> , <b>2017</b> , 19, 4331-4334	6.2	12
62	Suppressed charge recombination in polymer solar cells based on perylene diimide derivative acceptors via solvent vapor annealing. <i>Organic Electronics</i> , <b>2015</b> , 18, 24-31	3.5	12
61	Designing a near-infrared circularly polarized luminescent dye by dissymmetric spiro-fusion. <i>Chemical Communications</i> , <b>2020</b> , 56, 912-915	5.8	12
60	High-Mobility N-Type Organic Field-Effect Transistors of Rylene Compounds Fabricated by a Trace-Spin-Coating Technique. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1500430	6.4	11
59	Inclusion complexes of fullerenes with flexible tetrathiafulvalene derivatives bearing four aryls through sulfur bridges. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 8071-8076	7.1	11
58	High-Performance Porphyrin-Based Dye-Sensitized Solar Cells with Iodine and Cobalt Redox Shuttles. <i>ChemSusChem</i> , <b>2017</b> , 10, 938-945	8.3	10
57	Poly(pentacyclic lactam-alt-diketopyrrolopyrrole) for field-effect transistors and polymer solar cells processed from non-chlorinated solvents. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 164-170	4.9	10
56	Conjugated donor-acceptor copolymers from dicyanated naphthalene diimide. <i>Tetrahedron</i> , <b>2014</b> , 70, 6265-6270	2.4	10
55	All-polymer solar cells based on PTACs/P3HT blends with large open-circuit voltage. <i>Dyes and Pigments</i> , <b>2013</b> , 99, 1065-1071	4.6	10
54	Synergistic effect of the selenophene-containing central core and the regioisomeric monochlorinated terminals on the molecular packing, crystallinity, film morphology, and photovoltaic performance of selenophene-based nonfullerene acceptors. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 1923-1935	7.1	10
53	Perylene Bisimides as efficient electron transport layers in planar heterojunction perovskite solar cells. <i>Science China Chemistry</i> , <b>2016</b> , 59, 1658-1662	7.9	9
52	Surface-induced highly oriented perylo[1,12-b,c,d]selenophene thin films for high performance organic field-effect transistors. <i>Organic Electronics</i> , <b>2016</b> , 35, 186-192	3.5	9
51	Poly (zinc phthalocyanine) Nanoribbons and Their Application in the High-Sensitive Detection of Lead Ions. <i>Macromolecular Chemistry and Physics</i> , <b>2012</b> , 213, 1051-1059	2.6	9
50	Prototypical single-molecule transistors with supramolecular gates: varying dipole orientation. <i>Synthetic Metals</i> , <b>2004</b> , 146, 269-272	3.6	9
49	Synthesis of novel dyes containing ferrocene. <i>Dyes and Pigments</i> , <b>2001</b> , 51, 161-165	4.6	9
48	Highly Contorted 1,2,5-Thiadiazole-Fused Aromatics for Solution-Processed Field-Effect Transistors: Synthesis and Properties. <i>Chemistry - an Asian Journal</i> , <b>2016</b> , 11, 2188-200	4.5	9
47	Top-Pinning Controlled Dewetting for Fabrication of Large-Scaled Polymer Microwires and Applications in OFETs. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1600111	6.4	9
46	Cosensitized Porphyrin System for High-Performance Solar Cells with TOF-SIMS Analysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 16081-16090	9.5	8

45	Effect of conjugation length on the properties of fused perylene diimides with variable isoindigos. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 12263-12269	7.1	8
44	Influence of alkyl chain branching point on the electron transport properties of di(peryene diimides) thin film transistors. <i>RSC Advances</i> , <b>2016</b> , 6, 55946-55952	3.7	8
43	Hybrid molecular nanostructures with donor-acceptor chains. <i>Science China Chemistry</i> , <b>2013</b> , 56, 124-130	7.9	8
42	Relaxation dynamics of stretched polymer chains traced by shear induced Shish-Kebab structure. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2013</b> , 51, 907-914	2.6	8
41	Synthesis of Isomeric Perylenodithiophene Diimides. <i>Organic Letters</i> , <b>2018</b> , 20, 6606-6609	6.2	8
40	Synthesis and properties of isoindigo and benzo[1,2-b:4,5-b']bis[b]benzothiophene oligomers. <i>Chemical Communications</i> , <b>2018</b> , 54, 11152-11155	5.8	8
39	Synthesis of Novel Ferrocene-Naphthalimide Dyads. <i>Journal of Chemical Research Synopses</i> , <b>1999</b> , 438-439		7
38	Alternating Tetrafluorobenzene and Thiophene Units by Direct Arylation for Organic Electronics. <i>Chemistry - an Asian Journal</i> , <b>2019</b> , 14, 1443-1447	4.5	6
37	Terrylene diimide-based middle-low bandgap electron acceptors for organic photovoltaics. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 4441-4446	7.1	6
36	Rylene annulated phthalocyanine: a fully conjugated block for the construction of a supramolecular two-dimensional framework. <i>Chemical Communications</i> , <b>2018</b> , 54, 7294-7297	5.8	6
35	Defect-controlled synthesis of graphene based nano-size electronic devices using in situ thermal treatment. <i>Organic Electronics</i> , <b>2014</b> , 15, 685-691	3.5	6
34	A Ligand-free Copper-promoted Dimerization of Perylene Bisimide by Aromatic C-C Homocoupling and C-H Activation. <i>Asian Journal of Organic Chemistry</i> , <b>2013</b> , 2, 558-560	3	6
33	High performance Langmuir-Schaeffer film transistors based on air stable n-type diperylene bisimide. <i>Organic Electronics</i> , <b>2013</b> , 14, 2610-2616	3.5	6
32	Integrating pyracylene and naphthalenediimides into planar structures: Synthesis and characterization. <i>Dyes and Pigments</i> , <b>2019</b> , 168, 295-299	4.6	5
31	Electrochemical Degradation of Lignin by ROS. <i>Sustainable Chemistry</i> , <b>2020</b> , 1, 345-360	3.6	5
30	Large area uniformly oriented multilayer graphene with high transparency and conducting properties derived from highly oriented polyethylene films. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 6048-6055	7.1	5
29	Sensitization of Titania Semiconductor: A Promising Strategy to Utilize Visible Light <b>2013</b> , 199-240		5
28	Synthesis of a three-dimensional spiro-annulated polycyclic aromatic hydrocarbon. <i>Tetrahedron Letters</i> , <b>2009</b> , 50, 4110-4113	2	5

27	Rylene-Fullerene Hybrid an Emerging Electron Acceptor for High-Performing and Photothermal-Stable Ternary Solar Cells. <i>Small</i> , <b>2021</b> , e2104060	11	5
26	Fulvalene-Embedded Perylene Diimide and Its Stable Radical Anion. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 762-767	3.6	5
25	Role of Synergistic C <sub>60</sub> H <sub>12</sub> N and C <sub>60</sub> H <sub>12</sub> O H-Bonding Interactions in Self-Assemblies of a Phthalocyanine Derivative and Several Pyridine Derivatives. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 24158-24163	3.8	5
24	The Crucial Role of Chlorinated Thiophene Orientation in Conjugated Polymers for Photovoltaic Devices. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 13093-13097	3.6	4
23	Synthesis and properties of novel functional polymers from tetrachlorinated perylene bisimide. <i>Journal of Polymer Science Part A</i> , <b>2012</b> , 50, 3485-3492	2.5	4
22	Substitution effect on the adlayer formation of tetrachloroperylene bisimides on HOPG surface. <i>Surface Science</i> , <b>2010</b> , 604, 2078-2083	1.8	4
21	Dodecatwistarene Imides with Zigzag-Twisted Conformation for Organic Electronics. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 2024-2028	3.6	4
20	Noncovalent $\pi$ -stacked robust topological organic framework. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 20397-20403	11.5	4
19	Heavy-Atom-Free Room-Temperature Phosphorescent Rylene Imide for High-Performing Organic Photovoltaics. <i>Advanced Science</i> , <b>2021</b> , e2103975	13.6	3
18	Chemoselective On-surface Homocoupling of Terminal Alkynes Catalyzed by Exogenous Cupric Ions. <i>Chemistry - an Asian Journal</i> , <b>2020</b> , 15, 2627-2630	4.5	3
17	Memory Arrays: Skin-Inspired Haptic Memory Arrays with an Electrically Reconfigurable Architecture (Adv. Mater. 8/2016). <i>Advanced Materials</i> , <b>2016</b> , 28, 1526-1526	24	3
16	Vibratile Dihydrophenazines with Controllable Luminescence Enabled by Precise Regulation of $\pi$ -Conjugated Wings. <i>CCS Chemistry</i> , 2239-2248	7.2	3
15	Simultaneously Enhanced Reverse Intersystem Crossing and Radiative Decay in Thermally Activated Delayed Fluorophors with Multiple Through-space Charge Transfers. <i>Angewandte Chemie</i> ,	3.6	3
14	Molecular Tuning of Titanium Complexes with Controllable Work Function for Efficient Organic Photovoltaics. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 20800-20807	3.8	2
13	TPD doped polystyrene as charge transporter in DiPBI sensitized photorefractive composites. <i>Optical Materials Express</i> , <b>2012</b> , 2, 856	2.6	2
12	Differently Linked Perylene Bisimide Dimers with Various Twisting and Phase Structures for Nonfullerene All-Small-Molecule Organic Solar Cells. <i>ACS Omega</i> , <b>2020</b> , 5, 18449-18457	3.9	2
11	Cocrystallization Tailoring Multiple Radiative Decay Pathways for Amplified Spontaneous Emission. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 285-293	3.6	2
10	Dicyanopentafulvene-fused perylene diimide and its stable radical anion. <i>Dyes and Pigments</i> , <b>2021</b> , 193, 109489	4.6	2

9	Fuller-Rylenes: Paving the Way for Promising Acceptors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 29513-29519	9.5	1
8	Principles and Guidelines of Sampling, Extraction, and Instrumental Analysis Techniques for Measurements of Organic Pollutants in Environmental Matrices <b>2011</b> , 283-314		1
7	Photocatalytic Degradation of Organic Contaminants on Mineral Surfaces <b>2011</b> , 91-111		1
6	Monocyclic and Dicyclic Dehydro[20]annulenes Integrated with Perylene Diimide. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 19018-19023	16.4	1
5	B,N-Embedded Double Hetero[7]helicenes. <i>Chinese Journal of Organic Chemistry</i> , <b>2021</b> , 41, 4844	3	0
4	Monocyclic and Dicyclic Dehydro[20]annulenes Integrated with Perylene Diimide. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 19166-19171	3.6	0
3	Rücktitelbild: An Electron Acceptor with Porphyrin and Perylene Bisimides for Efficient Non-Fullerene Solar Cells (Angew. Chem. 10/2017). <i>Angewandte Chemie</i> , <b>2017</b> , 129, 2850-2850	3.6	
2	Dipolar-modulated charge-doped trilayer organic semiconductor n-n heterojunction. <i>Small</i> , <b>2012</b> , 8, 546-51		
1	Morphological Evolution of Tetrachlorinated Perylene Bisimides with Lengthy Alkyl Substituent Polycrystalline Thin Films during Reversible Phase Transitions. <i>ACS Omega</i> , <b>2020</b> , 5, 843-850	3.9	