Xiao-Tao Hao

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186 5,065 papers citations

6,847 8.1 ext. citations avg, IF

36

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L-index

#	Paper	IF	Citations
186	A general low-temperature route for large-scale fabrication of highly oriented ZnO nanorod/nanotube arrays. <i>Journal of the American Chemical Society</i> , 2005 , 127, 2378-9	16.4	452
185	Single-Junction Organic Photovoltaic Cell with 19% Efficiency. <i>Advanced Materials</i> , 2021 , 33, e2102420	24	302
184	Morphology Control Enables Efficient Ternary Organic Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e18030	045	197
183	Ternary Organic Solar Cells with Efficiency >16.5% Based on Two Compatible Nonfullerene Acceptors. <i>Advanced Materials</i> , 2019 , 31, e1905645	24	190
182	A Well-Mixed Phase Formed by Two Compatible Non-Fullerene Acceptors Enables Ternary Organic Solar Cells with Efficiency over 18.6. <i>Advanced Materials</i> , 2021 , 33, e2101733	24	145
181	Reduced non-radiative charge recombination enables organic photovoltaic cell approaching 19% efficiency. <i>Joule</i> , 2021 , 5, 2408-2419	27.8	144
180	Thickness dependence of structural, optical and electrical properties of ZnO:Al films prepared on flexible substrates. <i>Applied Surface Science</i> , 2001 , 183, 137-142	6.7	127
179	Intrinsic and Extrinsic Fluorescence in Carbon Nanodots: Ultrafast Time-Resolved Fluorescence and Carrier Dynamics. <i>Advanced Optical Materials</i> , 2013 , 1, 173-178	8.1	126
178	Regulating the vertical phase distribution by fullerene-derivative in high performance ternary organic solar cells. <i>Nano Energy</i> , 2018 , 46, 81-90	17.1	108
177	Solution-Processed Organic Solar Cells with High Open-Circuit Voltage of 1.3 V and Low Non-Radiative Voltage Loss of 0.16 V. <i>Advanced Materials</i> , 2020 , 32, e2002122	24	96
176	Designing a ternary photovoltaic cell for indoor light harvesting with a power conversion efficiency exceeding 20%. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8579-8585	13	95
175	Versatile Ternary Approach for Novel Organic Solar Cells: A Review. <i>Solar Rrl</i> , 2019 , 3, 1800263	7.1	94
174	Dual FEster resonance energy transfer effects in non-fullerene ternary organic solar cells with the third component embedded in the donor and acceptor. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12120)- 1 213(o ⁸⁴
173	Ternary Organic Solar Cells with Small Nonradiative Recombination Loss. <i>ACS Energy Letters</i> , 2019 , 4, 1196-1203	20.1	84
172	Flexible top-emitting electroluminescent devices on polyethylene terephthalate substrates. <i>Applied Physics Letters</i> , 2005 , 86, 153508	3.4	79
171	Integrating Ultrathin Bulk-Heterojunction Organic Semiconductor Intermediary for High-Performance Low-Bandgap Perovskite Solar Cells with Low Energy Loss. <i>Advanced Functional Materials</i> , 2018 , 28, 1804427	15.6	79
170	High-performance low-temperature transparent conducting aluminum-doped ZnO thin films and applications. <i>Journal of Crystal Growth</i> , 2006 , 287, 44-47	1.6	74

169	Hyperbranched Blue-Light-Emitting Alternating Copolymers of Tetrabromoarylmethane/Silane and 9,9-Dihexylfluorene-2,7-diboronic Acid. <i>Macromolecules</i> , 2004 , 37, 5965-5970	5.5	74
168	Single-Junction Organic Solar Cells with 19.17% Efficiency Enabled by Introducing One Asymmetric Guest Acceptor <i>Advanced Materials</i> , 2022 , e2110147	24	71
167	Efficient Ternary Organic Solar Cells Enabled by the Integration of Nonfullerene and Fullerene Acceptors with a Broad Composition Tolerance. <i>Advanced Functional Materials</i> , 2019 , 29, 1807006	15.6	70
166	Charge transfer from poly(3-hexylthiophene) to graphene oxide and reduced graphene oxide. <i>RSC Advances</i> , 2015 , 5, 89515-89520	3.7	65
165	Fully doctor-bladed planar heterojunction perovskite solar cells under ambient condition. <i>Organic Electronics</i> , 2018 , 58, 153-158	3.5	63
164	Monolithic perovskite/Si tandem solar cells exceeding 22% efficiency via optimizing top cell absorber. <i>Nano Energy</i> , 2018 , 53, 798-807	17.1	56
163	Fifster Resonance Energy Transfer and Energy Cascade in Broadband Photodetectors with Ternary Polymer Bulk Heterojunction. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 21913-21920	3.8	53
162	Spatial Fluorescence Inhomogeneities in Light-Emitting Conjugated Polymer Films. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 1520-1525	6.4	50
161	Controllable Growth of Lead-Free All-Inorganic Perovskite Nanowire Array with Fast and Stable Near-Infrared Photodetection. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 17566-17573	3.8	49
160	Recent Advances of Plasmonic Organic Solar Cells: Photophysical Investigations. <i>Polymers</i> , 2018 , 10,	4.5	49
159	Hyperbranched Blue to Red Light-Emitting Polymers with Tetraarylsilyl Cores: Synthesis, Optical and Electroluminescence Properties, and ab Initio Modeling Studies. <i>Macromolecules</i> , 2005 , 38, 4157-41	<i>6</i> 8 ⁵	47
158	Ferrocene as a highly volatile solid additive in non-fullerene organic solar cells with enhanced photovoltaic performance. <i>Energy and Environmental Science</i> , 2020 , 13, 5117-5125	35.4	46
157	Preparation and structural properties for GaN films grown on Si (1 1 1) by annealing. <i>Applied Surface Science</i> , 2002 , 193, 254-260	6.7	45
156	Improving the Compatibility of Donor Polymers in Efficient Ternary Organic Solar Cells via Post-Additive Soaking Treatment. <i>ACS Applied Materials & Dost-Additive Soaking Treatment</i> (2017) Post-Additive Soaking Treatment. <i>ACS Applied Materials & Dost-Additive Soaking Treatment</i> (2017) Post-Additive Soaking Treatment. <i>ACS Applied Materials & Dost-Additive Soaking Treatment</i> (2018) Post-Additive Soaking Treatment.	9.5	44
155	Ternary organic solar cells based on two compatible PDI-based acceptors with an enhanced power conversion efficiency. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3552-3557	13	44
154	An Obvious Improvement in the Performance of Ternary Organic Solar Cells with "Guest" Donor Present at the "Host" Donor/Acceptor Interface. <i>ACS Applied Materials & Donor, Interfaces</i> , 2016 , 8, 23212-	-215	40
153	Comparison of the electrical and optical properties for SnO2:Sb films deposited on polyimide and glass substrates. <i>Applied Surface Science</i> , 2003 , 214, 208-213	6.7	39
152	17% efficiency all-small-molecule organic solar cells enabled by nanoscale phase separation with a hierarchical branched structure. <i>Energy and Environmental Science</i> ,	35.4	39

151	Balanced Electric Field Dependent Mobilities: A Key to Access High Fill Factors in Organic Bulk Heterojunction Solar Cells. <i>Solar Rrl</i> , 2018 , 2, 1700239	7.1	38
150	Energy Loss in Organic Solar Cells: Mechanisms, Strategies, and Prospects. <i>Solar Rrl</i> , 2020 , 4, 2000130	7.1	36
149	Thickness dependence of properties of SnO2:Sb films deposited on flexible substrates. <i>Applied Surface Science</i> , 2002 , 191, 313-318	6.7	36
148	Comparison of the properties for ZnO:Al films deposited on polyimide and glass substrates. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002 , 90, 50-54	3.1	35
147	Surface modification via self-assembling large cations for improved performance and modulated hysteresis of perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6793-6800	13	35
146	Bias voltage dependence of properties for ZnO:Al films deposited on flexible substrate. <i>Surface and Coatings Technology</i> , 2002 , 161, 58-61	4.4	34
145	Three-dimensional femtosecond laser fabrication of waveguide beam splitters in LiNbO_3 crystal. <i>Optical Materials Express</i> , 2015 , 5, 1274	2.6	33
144	Anisotropic Magnetoelectric Coupling and Cotton-Mouton Effects in the Organic Magnetic Charge-Transfer Complex Pyrene-FTCNQ. ACS Applied Materials & amp; Interfaces, 2018, 10, 44654-4465	9.5	31
143	Homogeneous phase separation in polymer:fullerene bulk heterojunction organic solar cells. <i>Organic Electronics</i> , 2015 , 25, 266-274	3.5	30
142	Enhanced Electron Transport and Heat Transfer Boost Light Stability of Ternary Organic Photovoltaic Cells Incorporating Non-Fullerene Small Molecule and Polymer Acceptors. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900497	6.4	30
141	Thick-Film High-Performance Bulk-Heterojunction Solar Cells Retaining 90% PCEs of the Optimized Thin Film Cells. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700007	6.4	29
140	Functionalized Graphene Oxide Enables a High-Performance Bulk Heterojunction Organic Solar Cell with a Thick Active Layer. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6238-6248	6.4	29
139	Conformational Changes and Photophysical Behavior in Poly[2-methoxy-5-(2?-ethyl-hexyloxy)-1,4-phenylene vinylene] Thin Films Cast under an Electric Field. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 11657-11661	3.8	28
138	Hole Transfer Originating from Weakly Bound Exciton Dissociation in Acceptor-Donor-Acceptor Nonfullerene Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7100-7106	6.4	26
137	Observing electron transport and percolation in selected bulk heterojunctions bearing fullerene derivatives, non-fullerene small molecules, and polymeric acceptors. <i>Nano Energy</i> , 2019 , 64, 103950	17.1	25
136	Recent progress of PM6:Y6-based high efficiency organic solar cells. <i>Surfaces and Interfaces</i> , 2021 , 23, 100921	4.1	25
135	Revealing the Role of Methylammonium Chloride for Improving the Performance of 2D Perovskite Solar Cells. <i>ACS Applied Materials & Amp; Interfaces</i> , 2020 , 12, 25980-25990	9.5	24
134	Vertically optimized phase separation with improved exciton diffusion enables efficient organic solar cells with thick active layers <i>Nature Communications</i> , 2022 , 13, 2369	17.4	23

133	Suppressing Thermally Induced Fullerene Aggregation in Organic Solar Cells by Employing Plastic Network. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 9843-9851	3.8	21
132	Poly(3-hexylthiophene) coated graphene oxide for improved performance of bulk heterojunction polymer solar cells. <i>Organic Electronics</i> , 2017 , 44, 149-158	3.5	20
131	Surfactant-mediated formation of polymeric microlenses from interfacial microdroplets. <i>Soft Matter</i> , 2014 , 10, 957-64	3.6	20
130	Polymer Compression in Shear Flow. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1912-1916	6.4	20
129	Femtosecond Laser Writing of Optical-Lattice-Like Cladding Structures for Three-Dimensional Waveguide Beam Splitters in LiNbO3 Crystal. <i>Journal of Lightwave Technology</i> , 2016 , 34, 3587-3591	4	20
128	Chemically driven supramolecular self-assembly of porphyrin donors for high-performance organic solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 14675-14680	13	20
127	Bulk-Heterojunction with Long-Range Ordering: C Single-Crystal with Incorporated Conjugated Polymer Networks. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1630-1635	16.4	19
126	Suppressing Kinetic Aggregation of Non-Fullerene Acceptor via Versatile Alloy States Enables High-Efficiency and Stable Ternary Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 210031	16 ^{5.6}	18
125	Rationalizing device performance of perylenediimide derivatives as acceptors for bulk-heterojunction organic solar cells. <i>Organic Electronics</i> , 2019 , 65, 156-161	3.5	18
124	Ternary Strategy Enabling High-Efficiency Rigid and Flexible Organic Solar Cells with Reduced Non-radiative Voltage Loss. <i>Energy and Environmental Science</i> ,	35.4	17
123	Organic Chiral Charge Transfer Magnets. ACS Nano, 2019, 13, 4705-4711	16.7	16
122	Performance improvement of TiO2/Ag/TiO2multilayer transparent conducting electrode films for application on photodetectors. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 115108	3	16
121	Investigation of the dye-sensitized solar cell designed by a series of mixed metal oxides based on ZnAl-layered double hydroxide. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	16
120	RF magnetron sputtering SnO2: Sb films deposited on organic substrates. <i>Solid State Communications</i> , 2002 , 121, 345-349	1.6	16
119	FEster resonance energy transfer and morphology optimization for high-performance ternary organic photodetectors. <i>Organic Electronics</i> , 2019 , 67, 146-152	3.5	16
118	High-Performance Ternary Organic Solar Cells with Morphology-Modulated Hole Transfer and Improved Ultraviolet Photostability. <i>Solar Rrl</i> , 2020 , 4, 2000165	7.1	15
117	Carbon nanotubes as the effective charge transport pathways for planar perovskite photodetector. Organic Electronics, 2018 , 59, 156-163	3.5	15
116	Resolving the Mechanisms of Photocurrent Improvement in Ternary Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 18294-18302	3.8	15

115	Electrical and optical properties of SnO2:Sb films prepared on polyimide substrate by r.f. bias sputtering. <i>Applied Surface Science</i> , 2002 , 189, 157-161	6.7	15
114	Green up-conversion and near-infrared luminescence of femtosecond-laser-written waveguides in Er3+, MgO co-doped nearly stoichiometric LiNbO3 crystal. <i>Optics Express</i> , 2016 , 24, 25482-25490	3.3	15
113	Effects of Processing Solvent on the Photophysics and Nanomorphology of Poly(3-butyl-thiophene) Nanowires:PCBM Blends. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 1872-9	6.4	15
112	Preparation and photovoltaic properties of dye-sensitized solar cells based on zinc titanium mixed metal oxides. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 568, 59-65	5.1	14
111	Magnetic and Electric Control of Circularly Polarized Emission through Tuning Chirality-Generated Orbital Angular Momentum in Organic Helical Polymeric Nanofibers. <i>Advanced Materials</i> , 2019 , 31, e1902	2 4857	14
110	Spatially Resolved Photophysical Dynamics in Perovskite Microplates Fabricated Using an Antisolvent Treatment. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 26250-26255	3.8	14
109	Purified dispersions of graphene in a nonpolar solvent via solvothermal reduction of graphene oxide. <i>Chemical Communications</i> , 2015 , 51, 3824-7	5.8	14
108	Log-Rolling Alignment in Friction-Transferred Light-Emitting Conjugated Polymer Thin Films. Macromolecules, 2010 , 43, 10475-10480	5.5	14
107	Recent Progress of Organic Solar Cells with Insulating Polymers. <i>Solar Rrl</i> , 2020 , 4, 2000539	7.1	14
106	Effective Exciton Dissociation and Reduced Charge Recombination in Thick-Film Organic Solar Cells via Incorporation of Insulating Polypropylene. <i>Solar Rrl</i> , 2019 , 3, 1900087	7.1	13
105	High-Performance Non-Fused Wide Bandgap Acceptor for Versatile Photovoltaic Applications. <i>Advanced Materials</i> , 2021 , e2108090	24	13
104	Femtosecond laser written optical waveguides in z-cut MgO:LiNbO3 crystal: Fabrication and optical damage investigation. <i>Optical Materials</i> , 2016 , 57, 169-173	3.3	13
103	The effect of CuS counter electrodes for the CdS/CdSe quantum dot co-sensitized solar cells based on zinc titanium mixed metal oxides. <i>Journal of Materials Science</i> , 2019 , 54, 4884-4892	4.3	13
102	Exploring the mechanisms of exciton diffusion improvement in ternary polymer solar cells: From ultrafast to ultraslow temporal scale. <i>Nano Energy</i> , 2021 , 79, 105513	17.1	13
101	Aqueous self-assembled perovskite microfibers for sensitive photodetectors. <i>Organic Electronics</i> , 2017 , 48, 106-111	3.5	12
100	3D Charge Transport Pathway in Organic Solar Cells via Incorporation of Discotic Liquid Crystal Columns. <i>Solar Rrl</i> , 2020 , 4, 2000047	7.1	12
99	Optimizing the Crystallinity and Phase Separation of PTB7:PC71BM Films by Modified Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 2572-2581	3.8	12
98	Erbium (III) tris(8-hydroxyquinoline) doped zinc oxide interfacial layer for improved performance of polymer solar cells. <i>Organic Electronics</i> , 2018 , 62, 65-71	3.5	12

97	Role of Central Metal Ions in 8-Hydroxyquinoline-Doped ZnO Interfacial Layers for Improving the Performance of Polymer Solar Cells. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1801172	4.6	12
96	Helical-chiroptical nanowires generated orbital angular momentum for the detection of circularly polarized light. <i>Applied Physics Letters</i> , 2020 , 116, 053301	3.4	11
95	The photovoltaic performance of CdS/CdSe quantum dots co-sensitized solar cells based on zinc titanium mixed metal oxides. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 115, 113669	, 3	11
94	Suppressing trap states and energy loss by optimizing vertical phase distribution through ternary strategy in organic solar cells. <i>Science China Chemistry</i> , 2021 , 64, 599-607	7.9	11
93	Trap State Induced Recombination Effects on Indoor Organic Photovoltaic Cells. <i>ACS Energy Letters</i> , 2021 , 6, 3203-3211	20.1	11
92	Effects of various donor:acceptor blend ratios on photophysical properties in non-fullerene organic bulk heterojunctions. <i>Chinese Chemical Letters</i> , 2019 , 30, 995-999	8.1	10
91	Multiple Temporal-Scale Photocarrier Dynamics Induced by Synergistic Effects of Fluorination and Chlorination in Highly Efficient Nonfullerene Organic Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 1900552	7.1	10
90	Ferroelectric Polarization in CsPbI3/CsSnI3 Perovskite Heterostructure. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 17820-17824	3.8	10
89	Low resistivity phase-pure n-type Cu2O films realized via post-deposition nitrogen plasma treatment. <i>Journal of Alloys and Compounds</i> , 2018 , 769, 484-489	5.7	10
88	Effect of the Energy Offset on the Charge Dynamics in Nonfullerene Organic Solar Cells. <i>ACS Applied Materials & Discourse Materials</i>	9.5	10
87	Modulating the morphology and molecular arrangement via the well-compatible polymer donor in multiple working mechanisms interwined ternary organic solar cells. <i>Organic Electronics</i> , 2019 , 66, 13-23	3.5	10
86	Improved compatibility of DDAB-functionalized graphene oxide with a conjugated polymer by isocyanate treatment. <i>RSC Advances</i> , 2017 , 7, 17633-17639	3.7	9
85	Optically Controlled Magnetization and Magnetoelectric Effect in Organic Multiferroic Heterojunction. <i>Advanced Optical Materials</i> , 2017 , 5, 1700644	8.1	9
84	Recent Progress of Organic Solar Cells with Insulating Polymers. <i>Solar Rrl</i> , 2020 , 4, 2070124	7.1	9
83	A novel ZnS/SiO2 double passivation layers for the CdS/CdSe quantum dots co-sensitized solar cells based on zinc titanium mixed metal oxides. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 208, 110380	6.4	9
82	The prospective photo anode composed of zinc tin mixed metal oxides for the dye-sensitized solar cells. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 547, 111-116	5.1	9
81	Molecular packing correlated fluorescence in TIPS-pentacene films. Organic Electronics, 2017, 49, 340-34	16 .5	9
80	Structural and optical properties of conjugated polymer and carbon-based non-fullerene material blend films for photovoltaic applications. <i>Optical Materials Express</i> , 2017 , 7, 687	2.6	9

79	The structure and optical properties of regio-regular poly(3-hexylthiophene) and carboxylic multi-walled carbon nanotubes composite films. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 505502	3	9
78	Molar Mass Determination of Water-Soluble Light-Emitting Conjugated Polymers by Fluorescence-Based Analytical Ultracentrifugation. <i>Macromolecules</i> , 2009 , 42, 2737-2740	5.5	9
77	Baseplate Temperature-Dependent Vertical Composition Gradient in Pseudo-Bilayer Films for Printing Non-Fullerene Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2102135	21.8	9
76	Organic Multiferroic Magnetoelastic Complexes. <i>Advanced Materials</i> , 2020 , 32, e2003293	24	9
75	Enhanced light-harvesting of benzodithiophene conjugated porphyrin electron donors in organic solar cells. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 380-386	7.1	9
74	Laser-induced crystallization and conformation control of poly(3-hexylthiophene) for improving the performance of organic solar cells. <i>Organic Electronics</i> , 2017 , 49, 157-164	3.5	8
73	Quantitatively Characterized Crystallization Effect on Recombination Energy Loss in Non-Fullerene Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2019 ,	3.8	8
72	Waveguides and proportional beam splitters in bulk poly(methyl methacrylate) produced by direct femtosecond-laser inscription. <i>Optical Materials</i> , 2015 , 49, 110-115	3.3	8
71	Modification of Hole Transport Layers for Fabricating High Performance Non-fullerene Polymer Solar Cells. <i>Chinese Journal of Chemistry</i> , 2020 , 38, 817-822	4.9	8
70	Charge transfer dynamics in poly(3-hexylthiophene): nanodiamond blend films. <i>Diamond and Related Materials</i> , 2016 , 64, 8-12	3.5	8
69	Femtosecond laser processing induced low loss waveguides in multicomponent glasses. <i>Optical Materials Express</i> , 2017 , 7, 3580	2.6	8
68	Characterization of GaN films grown on silicon (1 1 1) substrates. <i>Physica B: Condensed Matter</i> , 2003 , 325, 230-234	2.8	8
67	Preparation and properties of GaN nanostructures by post-nitridation technique. <i>Physica B: Condensed Matter</i> , 2003 , 334, 287-291	2.8	8
66	Ternary-Assisted Sequential Solution Deposition Enables Efficient All-Polymer Solar Cells with Tailored Vertical-Phase Distribution. <i>Advanced Functional Materials</i> ,2200478	15.6	8
65	Reducing Limitations of Aggregation-Induced Photocarrier Trapping for Photovoltaic Stability via Tailoring Intermolecular Electron P honon Coupling in Highly Efficient Quaternary Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2022 , 12, 2103371	21.8	8
64	Room-temperature subnanosecond waveguide lasers in Nd:YVO Q-switched by phase-change VO: A comparison with 2D materials. <i>Scientific Reports</i> , 2017 , 7, 46162	4.9	7
63	Spin-Photon Coupling in Organic Chiral Crystals. <i>Nano Letters</i> , 2019 , 19, 9008-9012	11.5	7
62	Benzo[1,2-b:4,5-b?]difuran Based Polymer Donor for High-Efficiency (>16%) and Stable Organic Solar Cells. <i>Advanced Energy Materials</i> ,2103684	21.8	7

Synergistic effect of incorporating intra- and inter-molecular charge transfer in nonfullerene 61 acceptor molecules for highly-efficient organic solar cells. Journal of Materials Chemistry A, 2021, 9, 16834-16840Enhancing light harvesting and charge transport in organic solar cells via integrating 60 lanthanide-doped upconversation materials. Journal Physics D: Applied Physics, 2018, 51, 265105 Unveiling the important role of non-fullerene acceptors crystallinity on optimizing 59 7 nanomorphology and charge transfer in ternary organic solar cells. Organic Electronics, **2018**, 62, 643-65 $2^{0.5}$ Competition between singlet fission and singlet exciton dissociation at the interface in 58 6 3.5 TIPS-pentacene:IT-4F blend. Organic Electronics, 2019, 71, 296-302 Quasiparticle electronic structure and optical absorption of diamond nanoparticles from ab initio 6 3.9 57 many-body perturbation theory. Journal of Chemical Physics, 2014, 140, 214315 DEEP-UV CONFOCAL FLUORESCENCE IMAGING AND SUPER-RESOLUTION OPTICAL MICROSCOPY 6 56 1.2 OF BIOLOGICAL SAMPLES. Journal of Innovative Optical Health Sciences, 2012, 05, 1250025 Hydrophilic Fullerene Derivative Doping in Active Layer and Electron Transport Layer for Enhancing 6 7.1 55 Oxygen Stability of Perovskite Solar Cells. Solar Rrl, 2020, 4, 1900249 Stiffening the Pb-X Framework through a Econjugated Small-Molecule Cross-Linker for High-Performance Inorganic CsPbIBr Perovskite Solar Cells. ACS Applied Materials & Distriction Among Interfaces, 6 9.5 54 **2021**, 13, 40489-40501 Unraveling the unstable amorphous phase evolution effect on burn-in loss in polymer-fullerene 5 53 3.5 solar cells. Organic Electronics, 2019, 71, 156-163 Optimization of waveguide structures for beam splitters fabricated in fused silica by direct 52 4.2 femtosecond-laser inscription. Optics and Laser Technology, 2015, 74, 60-64 Steric Poly(diarylfluorene-co-benzothiadiazole) for Efficient Amplified Spontaneous Emission and Polymer Light-Emitting Diodes: Benefit from Preventing Interchain Aggregation and Polaron 8.1 51 5 Formation. Advanced Optical Materials, 2020, 8, 1901616 Fister resonance energy transfer and charge transfer dynamics in ternary organic nanoparticles. 50 3.5 Organic Electronics, 2018, 57, 140-145 Effect of alkyl side-chain length on the photophysical, morphology and photoresponse properties 49 3 5 of poly(3-alkylthiophene). Journal Physics D: Applied Physics, 2015, 48, 485501 Quantifying phase separation and interfacial area in organic photovoltaic bulk heterojunction 48 2.3 processed with solvent additives. Chemical Physics, 2015, 457, 7-12 Aggregation of water-soluble conjugated polymers in Couette shear flow. Journal of Physical 47 5 3.4 Chemistry B, 2009, 113, 13138-41 Toward Novel Flexible Display - Top-Emitting OLEDs on Al-Laminated PET Substrates. Proceedings 46 14.3 of the IEEE, 2005, 93, 1440-1446 One-micron-thick organic indoor light harvesters with low photocurrent loss and fill factors over 45 13 5 67%. Journal of Materials Chemistry A, **2021**, 9, 13515-13521 Chromaticity manipulation of indoor photovoltaic cells. Applied Physics Letters, 2021, 118, 043301 44 3.4

43	High-Efficiency Thickness-Insensitive Organic Solar Cells with an Insulating Polymer. <i>ACS Applied Materials & District Acros</i> , 2021, 13, 11134-11143	9.5	5
42	Exploring charge transfer processes and crystallization dynamics in donor-acceptor crystals. <i>Organic Electronics</i> , 2018 , 58, 105-110	3.5	4
41	Effect of the third component on charge transfer character in ternary organic solar cells with a cascade-type electronic structure. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019 , 383, 126001	2.3	4
40	Systematic control of optical features in aluminosilicate glass waveguides using direct femtosecond laser writing. <i>Optical Materials</i> , 2017 , 72, 501-507	3.3	4
39	Investigation of preparation and characterization of GaN films on sapphire (0001) substrates. <i>Applied Surface Science</i> , 2002 , 202, 295-300	6.7	4
38	Chemical vapor deposition growth of phase-selective inorganic lead halide perovskite films for sensitive photodetectors. <i>Chinese Chemical Letters</i> , 2021 , 32, 489-492	8.1	4
37	Giant Nonlinear Optical Response of Lead-Free All-inorganic CsSnBr3 Nanoplates. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 803-811	3.8	4
36	A sandwich-like structural model revealed for quasi-2D perovskite films. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 5362-5372	7.1	4
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