

Bin Hu

List of Publications by Year in descending order

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times ranked

9842
citing authors

#	ARTICLE	IF	CITATIONS
1	Amine-Assisted Ligand-Exchange Method to Enhance Photovoltaic Parameters in FAPbI ₃ Nanocrystal Solar Cells. ACS Energy Letters, 2024, 9, 2807-2815.	17.5	5
2	Highly Efficient Blue Thermally Activated Delayed Fluorescence Emitters with a Triphenylamine-Based Macrocyclic Donor. Advanced Optical Materials, 2023, 11, .	7.1	6
3	Light-Induced Structural Dynamics and Charge Transport in Layered Halide Perovskite Thin Films. Nano Letters, 2023, 23, 429-436.	8.8	7
4	Extending Anisotropy Dynamics of Light-Emitting Dipoles as Necessary Condition Toward Developing Highly Efficient OLEDs. Advanced Optical Materials, 2023, 11, .	7.1	10
5	Dual Emission Bands of a 2D Perovskite Single Crystal with Charge Transfer State Characteristics. ACS Nano, 2023, 17, 12200-12207.	15.4	5
6	Photophysics and Spin-Physics Studies on Persistent Upconversion Luminescence from Nonlinearly Polarizable Ferroelectric-Like Lattice Prepared by Orderly Packing Donor-Acceptor Structures under Multiphoton Excitation. Advanced Optical Materials, 2022, 10, .	7.1	3
7	Giant magneto field effect in up-conversion amplified spontaneous emission via spatially extended states in organic-inorganic hybrid perovskites. Opto-Electronic Advances, 2022, 5, 200051-200051.	19.3	9
8	Magnetic Field Effects in Hybrid Organic-Inorganic Perovskites. , 2022, , 113-136.		0
9	Origin of Defects and Positron Annihilation in Hybrid and All-Inorganic Perovskites. Chemistry of Materials, 2022, 34, 297-306.	6.9	10
10	Exploiting the full advantages of colloidal perovskite nanocrystals for large-area efficient light-emitting diodes. Nature Nanotechnology, 2022, 17, 590-597.	23.9	132
11	Lithium Chloride-Substituted Methylammonium Lead Tribromide Perovskites for Dual β /Neutron Sensing. ACS Applied Materials & Interfaces, 2022, 14, 34571-34582.	8.1	5
12	M-STAR: Magnetism second target advanced reflectometer at the Spallation Neutron Source. Review of Scientific Instruments, 2022, 93, 103903.	1.6	1
13	Enabling AC electroluminescence in quasi-2D perovskites by uniformly arranging different-n-value nanoplates to allow bidirectional charge transport. Nano Energy, 2021, 79, 105413.	16.3	12
14	π -Conjugation and H-Bond-Directed Supramolecular Self-Assembly: Key Features for Efficient Long-Lived Room Temperature Phosphorescent Organic Molecular Crystals. Angewandte Chemie - International Edition, 2021, 60, 2446-2454.	15.0	34
15	Direct Observation of Photoinduced Ion Migration in Lead Halide Perovskites. Advanced Functional Materials, 2021, 31, .	17.1	49
16	π -Conjugation and H-Bond-Directed Supramolecular Self-Assembly: Key Features for Efficient Long-Lived Room Temperature Phosphorescent Organic Molecular Crystals. Angewandte Chemie, 2021, 133, 2476-2484.	1.5	10
17	Improved Radiation Sensing with Methylammonium Lead Tribromide Perovskite Semiconductors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 986, 164710.	1.3	11
18	Comprehensive defect suppression in perovskite nanocrystals for high-efficiency light-emitting diodes. Nature Photonics, 2021, 15, 148-155.	21.1	713

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19	Revealing long-range orbit-orbit interaction between coherent light-emitting excitons occurring in amplified spontaneous emission in CsPbBr ₃ microstructures. <i>Journal of Materials Chemistry C</i> , 2021, 9, 6034-6039.	5.1	4
20	A graphical guide for constructing a finite element model of the cervical spine with digital orthopedic software. <i>Annals of Translational Medicine</i> , 2021, 9, 169-169.	1.8	16
21	Enhancing the mechanical properties of SCF/PEEK composites in FDM via process-parameter optimization. <i>High Performance Polymers</i> , 2021, 33, 914-923.	1.6	19
22	Strain in Metal Halide Perovskites: The Critical Role of A-Site Cation. <i>ACS Applied Energy Materials</i> , 2021, 4, 2068-2072.	5.4	16
23	Slow Hot-Carrier Cooling Enabled by Uniformly Arranging Different- <i>n</i> -Value Nanoplates in Quasi-2D Perovskites through Long-Range Orbit-Orbit Interaction toward Enhancing Photovoltaic Actions. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4072-4078.	4.6	8
24	Optically Induced Static Magnetization in Metal Halide Perovskite for Spin-Related Optoelectronics. <i>Advanced Science</i> , 2021, 8, .	12.8	17
25	Ferroelectric and Charge Transport Properties in Strain-Engineered Two-Dimensional Lead Iodide Perovskites. <i>Chemistry of Materials</i> , 2021, 33, 4077-4088.	6.9	13
26	Spin-orbital coupling and slow phonon effects enabled persistent photoluminescence in organic crystal under isomer doping. <i>Nature Communications</i> , 2021, 12, .	14.1	12
27	Aligning Transition Dipole Moment toward Light Amplification and Polarized Emission in Hybrid Perovskites. <i>Advanced Optical Materials</i> , 2021, 9, .	7.1	7
28	A modified rotating isosceles triangle osteotomy using a 3D-printed patient-specific guide for the treatment of cubitus varus in children: a case report and literature review. <i>Translational Pediatrics</i> , 2021, 10, 215-222.	1.4	3
29	Packing-Shape Effects of Optical Properties in Amplified Spontaneous Emission through Dynamics of Orbit-Orbit Polarization Interaction in Hybrid Perovskite Quantum Dots Based on Self-Assembly. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11894-11901.	4.6	2
30	Mechanically tuning spin-orbit coupling effects in organic-inorganic hybrid perovskites. <i>Nano Energy</i> , 2020, 67, 104285.	16.3	6
31	Concave and Convex Bending Influenced Mechanical Stability in Flexible Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2340-2345.	3.2	18
32	Unveiling the underlying mechanism of record-high efficiency organic near-infrared photodetector harnessing a single-component photoactive layer. <i>Materials Horizons</i> , 2020, 7, 1171-1179.	10.3	18
33	Surface Modification of SnO ₂ via MAPbI ₃ Nanowires for a Highly Efficient Non-Fullerene Acceptor-Based Organic Solar Cell. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 5120-5127.	8.1	30
34	Exploring Orbit-Orbit Interaction in Relationship to Photoluminescence Quantum Efficiency in Perovskite Quantum Dots through Rashba Effect. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1-6.	4.6	22
35	Self-Stimulated Dissociation in Non-Fullerene Organic Bulk-Heterojunction Solar Cells. <i>Joule</i> , 2020, 4, 2443-2457.	29.1	41
36	Stabilization of Blue Emitters with Thermally Activated Delayed Fluorescence by the Steric Effect: A Case Study by means of Magnetic Field Effects. <i>Physical Review Applied</i> , 2020, 14, .	4.0	18

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37	External Field-Tunable Internal Orbit-orbit Interaction in Flexible Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 10323-10328.	4.6	3
38	Doping Induced Orbit-orbit Interaction between Excitons While Enhancing Photovoltaic Performance in Tin Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6996-7001.	4.6	11
39	Exploring Light Polarization Effects of Photovoltaic Actions in Organic-Inorganic Hybrid Perovskites with Asymmetric and Symmetric Unit Structures. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38054-38060.	8.1	3
40	Identifying Photoinduced Dipolar Polarization and Orbit-orbit Interaction between Excitons in Organic-Inorganic Hybrid Perovskites. <i>Advanced Functional Materials</i> , 2020, 30, .	17.1	13
41	Establishing charge-transfer excitons in 2D perovskite heterostructures. <i>Nature Communications</i> , 2020, 11, .	14.1	71
42	Optomechanical Effects Occurring in a Hybrid Metal-Halide Perovskite Single Crystal Based on Photoinduced Resonant Ultrasound Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5407-5411.	4.6	0
43	Identifying Different Spin Mixing Channels Occurring in Charge-Transfer States. <i>Journal of Physical Chemistry C</i> , 2020, 124, 14832-14837.	3.2	6
44	Revealing photoinduced bulk polarization and spin-orbit coupling effects in high-efficiency 2D/3D Pb-Sn alloyed perovskite solar cells. <i>Nano Energy</i> , 2020, 76, 104999.	16.3	21
45	Twin domains modulate light-matter interactions in metal halide perovskites. <i>APL Materials</i> , 2020, 8, .	4.1	18
46	PEDOT:PSS and Ni-based thermoelectric generator for solar thermal energy conversion. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3914-3922.	5.1	22
47	Enhancing Device Performance in Quasi-2D Perovskite ((BA) ₂ (MA) ₃ Pb ₄ I ₁₃) Solar Cells Using PbCl ₂ Additives. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 11190-11196.	8.1	36
48	Exploring mechanisms for generating spin-orbital coupling through donor-acceptor design to realize spin flipping in thermally activated delayed fluorescence. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3395-3401.	5.1	25
49	Strain-Chemical Gradient and Polarization in Metal Halide Perovskites. <i>Advanced Electronic Materials</i> , 2020, 6, .	5.0	21
50	Tuning spin-orbit coupling towards enhancing photocurrent in hybrid organic-inorganic perovskites by using mixed organic cations. <i>Organic Electronics</i> , 2020, 81, 105671.	2.6	11
51	Extremely Long Spin Lifetime of Light-Emitting States in Quasi-2D Perovskites through Orbit-orbit Interaction. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3647-3652.	4.6	18
52	Multi-Model Imaging of Local Chemistry and Ferroic Properties of Hybrid Organic-Inorganic Perovskites. <i>Microscopy and Microanalysis</i> , 2019, 25, 2076-2077.	0.5	3
53	Polarization effects of transition dipoles on photoluminescence and photocurrent in organic-inorganic hybrid perovskites. <i>Nano Energy</i> , 2019, 65, 104004.	16.3	7
54	Spin-Polarized Electronic Transport through Ferromagnet/Organic-Inorganic Hybrid Perovskite Spinterfaces at Room Temperature. <i>Advanced Materials Interfaces</i> , 2019, 6, .	4.2	24

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55	Fundamental Thermoelectric Properties in Organic Heterojunctions from Molecular to Thin-Film and Hybrid Designs. <i>Advanced Electronic Materials</i> , 2019, 5, .	5.0	5
56	Exploring Deep and Shallow Trap States in a Non-Fullerene Acceptor ITIC-Based Organic Bulk Heterojunction Photovoltaic System. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20691-20697.	3.2	18
57	Substrate-Dependent Spin-Orbit Coupling in Hybrid Perovskite Thin Films. <i>Advanced Functional Materials</i> , 2019, 29, .	17.1	27
58	Ferroic twin domains in metal halide perovskites. <i>MRS Advances</i> , 2019, 4, 2817-2830.	0.9	7
59	Uniform Permutation of Quasi-2D Perovskites by Vacuum Poling for Efficient, High-Fill-Factor Solar Cells. <i>Joule</i> , 2019, 3, 3061-3071.	29.1	195
60	Two-Photon Up-Conversion Photoluminescence Realized through Spatially Extended Gap States in Quasi-2D Perovskite Films. <i>Advanced Materials</i> , 2019, 31, .	24.7	25
61	Revealing the Cooperative Relationship between Spin, Energy, and Polarization Parameters toward Developing High-Efficiency Exciplex Light-Emitting Diodes. <i>Advanced Materials</i> , 2019, 31, .	24.7	54
62	Light-Ferroic Interaction in Hybrid Organic-Inorganic Perovskites. <i>Advanced Optical Materials</i> , 2019, 7, .	7.1	25
63	Using Mechanical Stress to Investigate the Rashba Effect in Organic-Inorganic Hybrid Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5446-5450.	4.6	7
64	Enabling Self-passivation by Attaching Small Grains on Surfaces of Large Grains toward High-Performance Perovskite LEDs. <i>IScience</i> , 2019, 19, 378-387.	3.8	26
65	Insight into the reaction mechanism of water, oxygen and nitrogen molecules on a tin iodine perovskite surface. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5779-5793.	9.3	44
66	Poly(ethylene oxide)-assisted energy funneling for efficient perovskite light emission. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8287-8293.	5.1	12
67	Magnetic field effects on excited states, charge transport, and electrical polarization in organic semiconductors in spin and orbital regimes. <i>Advances in Physics</i> , 2019, 68, 49-121.	3.0	66
68	Tuning Charge Generation Process of Rylene Imide-Based Solar Cells via Chalcogen-Atom-Annulation. <i>Chemistry of Materials</i> , 2019, 31, 3636-3643.	6.9	22
69	Amplified Spontaneous Emission Realized by Cogrowing Large/Small Grains with Self-Passivating Defects and Aligning Transition Dipoles. <i>Advanced Optical Materials</i> , 2019, 7, .	7.1	20
70	Methylammonium lead tribromide semiconductors: Ionizing radiation detection and electronic properties. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019, 927, 401-406.	1.3	38
71	Deep levels, charge transport and mixed conductivity in organometallic halide perovskites. <i>Energy and Environmental Science</i> , 2019, 12, 1413-1425.	30.6	65
72	Investigating underlying mechanism in spectral narrowing phenomenon induced by microcavity in organic light emitting diodes. <i>Nature Communications</i> , 2019, 10, .	14.1	33

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73	Environmental Gating and Galvanic Effects in Single Crystals of Organic-Inorganic Halide Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14722-14733.	8.1	16
74	Spin-Dependent Electron-Hole Recombination and Dissociation in Nonfullerene Acceptor ITIC-Based Organic Photovoltaic Systems. <i>Solar Rrl</i> , 2019, 3, .	4.7	17
75	Bismuth Doping-Induced Stable Seebeck Effect Based on MAPbI ₃ Polycrystalline Thin Films. <i>Advanced Functional Materials</i> , 2019, 29, .	17.1	47
76	Improved Radiation Sensing with Methylammonium Lead Bromide Perovskite Semiconductors. , 2019, 29, 1-3.		1
77	Reply to: On the ferroelectricity of CH ₃ NH ₃ PbI ₃ perovskites. <i>Nature Materials</i> , 2019, 18, 1051-1053.	20.9	22
78	Enhanced Seebeck Effect of a MAPbBr ₃ Single Crystal by an Organic and a Metal Modified Layer. <i>Advanced Electronic Materials</i> , 2019, 5, .	5.0	17
79	A Distributed Hybrid Event-Time-Driven Scheme for Optimization Over Sensor Networks. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 7199-7208.	8.4	17
80	Engineering Hybrid Perovskite Materials for Spectroscopic Sensing of Ionizing Radiation. , 2019, , .		0
81	Photoexcitation-Controllable Magnetization in Magnetic-Semiconducting Nanohybrid Containing Fe_2O_3 -Graphene (0D-2D) van der Waals Heterostructure Based on Steady-State Pump-Probe Light Scattering Measurement in Magnetic Field. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6912-6917.	3.2	3
82	Introducing optically polarizable molecules into perovskite solar cells by simultaneously enhanced spin-orbital coupling, suppressed non-radiative recombination and improved transport balance towards enhancing photovoltaic actions. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6164-6171.	5.1	18
83	Enhancing Photovoltaic Performance of Inverted Planar Perovskite Solar Cells by Cobalt-Doped Nickel Oxide Hole Transport Layer. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14153-14159.	8.1	75
84	Unraveling surface and bulk trap states in lead halide perovskite solar cells using impedance spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 095501.	3.1	23
85	Exploring Anomalous Polarization Dynamics in Organometallic Halide Perovskites. <i>Advanced Materials</i> , 2018, 30, .	24.7	42
86	Exploring the role of spin-triplets and trap states in photovoltaic processes of perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5055-5062.	5.1	11
87	Sign reversal of magneto-capacitance in an organic heterojunction based opto-spintronic system. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4671-4676.	5.1	10
88	All-acrylic superelastomers: facile synthesis and exceptional mechanical behavior. <i>Polymer Chemistry</i> , 2018, 9, 160-168.	3.9	19
89	Precursor purity effects on solution-based growth of MAPbBr ₃ single crystals towards efficient radiation sensing. <i>CrystEngComm</i> , 2018, 20, 7818-7825.	2.5	46
90	Effect of Bathocuproine Organic Additive on Optoelectronic Properties of Highly Efficient Methylammonium Lead Bromide Perovskite Light-Emitting Diodes. <i>ACS Applied Energy Materials</i> , 2018, 1, 6992-6998.	5.4	23

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91	Improving photovoltaic performance of inverted planar structure perovskite solar cells via introducing photogenerated dipoles in the electron transport layer. <i>Organic Electronics</i> , 2018, 63, 137-142.	2.6	16
92	Revisiting the Impact of Interfacial Transport Layers on Organic Bulk Heterojunction Systems. <i>ACS Applied Energy Materials</i> , 2018, 1, 3457-3468.	5.4	7
93	Giant current amplification induced by ion migration in perovskite single crystal photodetectors. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8042-8050.	5.1	32
94	Large Magneto-Current Effect in the Electrochemical Detection of Oxalate in Aqueous Solution. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19880-19885.	3.2	14
95	Chemical nature of ferroelastic twin domains in CH ₃ NH ₃ PbI ₃ perovskite. <i>Nature Materials</i> , 2018, 17, 1013-1019.	20.9	191
96	Surface polarization and recombination in organic-inorganic hybrid perovskite solar cells based on photo- and electrically induced negative capacitance studies. <i>Organic Electronics</i> , 2018, 62, 203-208.	2.6	29
97	Dynamic behavior of CH ₃ NH ₃ PbI ₃ perovskite twin domains. <i>Applied Physics Letters</i> , 2018, 113, .	3.2	27
98	Time resolved surface photovoltage measurements using a big data capture approach to KPFM. <i>Nanotechnology</i> , 2018, 29, 445703.	2.7	38
99	Charge-transfer versus energy-transfer in quasi-2D perovskite light-emitting diodes. <i>Nano Energy</i> , 2018, 50, 615-622.	16.3	108
100	Dynamic Impact of Electrode Materials on Interface of Single-Crystalline Methylammonium Lead Bromide Perovskite. <i>Advanced Materials Interfaces</i> , 2018, 5, .	4.2	35
101	Simultaneously Increased Seebeck Coefficient and Electrical Conductivity by Photoinduced Excited State Base on the Organic Thin Film Device. <i>Science of Advanced Materials</i> , 2018, 10, 827-834.	0.9	2
102	Experimental studies on magnetization in the excited state by using the magnetic field effect of light scattering based on multi-layer graphene particles suspended in organic solvents. <i>Nanoscale</i> , 2017, 9, 2563-2568.	5.1	7
103	Magneto-Photoluminescence Based on Two-Photon Excitation in Lanthanide-Doped Up-Conversion Crystal Particles. <i>Small</i> , 2017, 13, .	11.6	3
104	Highly Narrowband Photomultiplication Type Organic Photodetectors. <i>Nano Letters</i> , 2017, 17, 1995-2002.	8.8	314
105	Simultaneously enhancing dissociation and suppressing recombination in perovskite solar cells. <i>Nano Energy</i> , 2017, 36, 95-101.	16.3	30
106	Magnetodielectric Response from Spin-Orbital Interaction Occurring at Interface of Ferromagnetic Co and Organometal Halide Perovskite Layers via Rashba Effect. <i>Advanced Materials</i> , 2017, 29, .	24.7	20
107	Tuning the Seebeck effect in C ₆₀ -based hybrid thermoelectric devices through temperature-dependent surface polarization and thermally-modulated interface dipoles. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 14793-14800.	2.8	10
108	Fabricate organic thermoelectric modules use modified PCBM and PEDOT:PSS materials. <i>Frontiers of Optoelectronics</i> , 2017, 10, 117-123.	4.8	22

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109	An extremely high power factor in Seebeck effects based on a new n-type copper-based organic/inorganic hybrid $C_6H_4NH_2CuBr_2I$ film with metal-like conductivity. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13834-13841.	9.3	34
110	Exploring spin-orbital coupling effects on photovoltaic actions in Sn and Pb based perovskite solar cells. <i>Nano Energy</i> , 2017, 38, 297-303.	16.3	46
111	Efficient deep-red electroluminescent donor-acceptor copolymers based on 6,7-dichloroquinoxaline. <i>Organic Electronics</i> , 2017, 46, 276-282.	2.6	16
112	Magneto-optical behaviors at a 2-D ferromagnetic/organic semiconductor interface for singlet fission. <i>Organic Electronics</i> , 2017, 45, 169-173.	2.6	4
113	Photoinduced Bulk Polarization and Its Effects on Photovoltaic Actions in Perovskite Solar Cells. <i>ACS Nano</i> , 2017, 11, 11542-11549.	15.4	50
114	Effects of Spin States on Photovoltaic Actions in Organo-Metal Halide Perovskite Solar Cells Based on Circularly Polarized Photoexcitation. <i>ACS Photonics</i> , 2017, 4, 2821-2827.	7.0	19
115	An Amidine-Type Dopant for Solution-Processed Field-Effect Transistors and Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2017, 27, .	17.1	45
116	A Review on Organic-Inorganic Halide Perovskite Photodetectors: Device Engineering and Fundamental Physics. <i>Advanced Materials</i> , 2017, 29, .	24.7	658
117	Breaking the Time Barrier in Kelvin Probe Force Microscopy: Fast Free Force Reconstruction Using the G-Mode Platform. <i>ACS Nano</i> , 2017, 11, 8717-8729.	15.4	65
118	Generating Huge Magnetocurrent by Using Spin-Dependent Dehydrogenation Based on Electrochemical System. <i>Journal of Physical Chemistry C</i> , 2017, 121, 28420-28424.	3.2	11
119	Metal/Ion Interactions Induced p-n Junction in Methylammonium Lead Triiodide Perovskite Single Crystals. <i>Journal of the American Chemical Society</i> , 2017, 139, 17285-17288.	15.7	35
120	Optically tunable magneto-capacitance based on electron-hole pairs in organic electronic devices. <i>Organic Electronics</i> , 2017, 49, 300-304.	2.6	4
121	Effect of Photogenerated Dipoles in the Hole Transport Layer on Photovoltaic Performance of Organic-Inorganic Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, .	22.7	55
122	Magneto-Seebeck effect in an ITO/PEDOT:PSS/Au thin-film device. <i>AIP Advances</i> , 2016, 6, .	1.3	3
123	Novel photoswitchable dielectric properties on nanomaterials of electronic core-shell $\text{Fe}_3\text{O}_4@\text{Au}@$ fullerosomes for GHz frequency applications. <i>Nanoscale</i> , 2016, 8, 6589-6599.	5.1	9
124	Electrode material dependent p- or n-like thermoelectric behavior of single electrochemically synthesized poly(2,2'-bithiophene) layer application to thin film thermoelectric generator. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 2191-2196.	2.3	6
125	n and p-type properties in organo-metal halide perovskites studied by Seebeck effects. <i>Organic Electronics</i> , 2016, 35, 216-220.	2.6	16
126	Effect of Polymer Grafting Density on Mechanophore Activation at Heterointerfaces. <i>ACS Macro Letters</i> , 2016, 5, 819-822.	5.1	35

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127	Revealing optically induced dipole-dipole interaction effects on charge dissociation at donor:acceptor interfaces in organic solar cells under device-operating condition. <i>Nano Energy</i> , 2016, 26, 595-602.	16.3	18
128	Spin-dependent deprotonation induced giant magnetocurrent in electrochemical cells. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 9897-9901.	2.8	6
129	Revealing Underlying Processes Involved in Light Soaking Effects and Hysteresis Phenomena in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, .	22.7	281
130	Enhanced π - π^* Electron Coupling in the Excited State by Combining Intramolecular Charge-Transfer States with Surface-Modified Magnetic Nanoparticles in Organic-Magnetic Nanocomposites. <i>Advanced Electronic Materials</i> , 2015, 1, .	5.0	5
131	Abnormal Magnetic Field Effects on Electrogenerated Chemiluminescence. <i>Scientific Reports</i> , 2015, 5, .	3.7	2
132	Effects of a ferroelectric interface on thermionic injection-induced cooling in single-heterojunction devices based on thin-film electrode/medium/electrode design. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14431-14437.	9.3	0
133	Dynamic Coupling between Electrode Interface and Donor/Acceptor Interface via Charge Dissociation in Organic Solar Cells at Device-Operating Condition. <i>Journal of Physical Chemistry C</i> , 2015, 119, 2727-2732.	3.2	11
134	Seebeck Effects in N-Type and P-Type Polymers Driven Simultaneously by Surface Polarization and Entropy Differences Based on Conductor/Polymer/Conductor Thin-Film Devices. <i>ACS Nano</i> , 2015, 9, 5208-5213.	15.4	20
135	Magneto-Optical Studies on Spin-Dependent Charge Recombination and Dissociation in Perovskite Solar Cells. <i>Advanced Materials</i> , 2015, 27, 2899-2906.	24.7	112
136	Fundamental physics behind high-efficiency organo-metal halide perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15372-15385.	9.3	123
137	Changing the Sign of Exchange Interaction in Radical Pairs to Tune Magnetic Field Effect on Electrogenerated Chemiluminescence. <i>Journal of Physical Chemistry C</i> , 2015, 119, 8089-8094.	3.2	9
138	Optically tunable Seebeck effect from intramolecular proton-transfer materials in organic vertical thin-film thermoelectric device. <i>Organic Electronics</i> , 2015, 26, 117-120.	2.6	8
139	Interaction Between Optically-Generated Charge-Transfer States and Magnetized Charge-Transfer States toward Magneto-Electric Coupling. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4319-4325.	4.6	6
140	Distinguishing the Importance of Fullerene Phase Separation from Polymer Ordering in the Performance of Low Band Gap Polymer:Bi-Fullerene Heterojunctions. <i>Advanced Functional Materials</i> , 2014, 24, 7284-7290.	17.1	18
141	Power system optimal dispatch under low-carbon economy with significant photovoltaic generation. , 2014, 31, 70-75.		1
142	A Straightforward Synthesis of Chlorine-Bearing Donor-Acceptor Alternating Copolymers with Deep Frontier Orbital Levels. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 1388-1395.	2.6	18
143	Optimal scheduling of electric vehicle battery swap station based on time-of-use pricing. , 2014, , 1-6.		5
144	Optically tunable spin-exchange energy at donor:acceptor interfaces in organic solar cells. <i>Applied Physics Letters</i> , 2014, 105, .	3.2	7

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145	Tuning the Morphology and Performance of Low Bandgap Polymer:Fullerene Heterojunctions via Solvent Annealing in Selective Solvents. <i>Advanced Functional Materials</i> , 2014, 24, 5129-5136.	17.1	45
146	Origin of the fill factor loss in bulk-heterojunction organic solar cells. <i>Applied Physics Letters</i> , 2014, 104, .	3.2	34
147	Dielectric Interface Effects on Surface Charge Accumulation and Collection towards High-Efficiency Organic Solar Cells. <i>Journal of Applied Physics</i> , 2014, 115, 154506.	2.3	20
148	Surface polarization enhanced Seebeck effects in vertical multi-layer metal-polymer-metal thin-film devices. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22201-22206.	2.8	17
149	The impact of selective solvents on the evolution of structure and function in solvent annealed organic photovoltaics. <i>RSC Advances</i> , 2014, 4, 27931-27938.	4.5	18
150	The Impact of Fullerene Structure on Its Miscibility with P3HT and Its Correlation of Performance in Organic Photovoltaics. <i>Chemistry of Materials</i> , 2014, 26, 3993-4003.	6.9	25
151	Hybrid Micellar Hydrogels of a Thermosensitive ABA Triblock Copolymer and Hairy Nanoparticles: Effect of Spatial Location of Hairy Nanoparticles on Gel Properties. <i>Langmuir</i> , 2014, 30, 11212-11224.	3.8	15
152	Control of morphology and function of low band gap polymer-bis-fullerene mixed heterojunctions in organic photovoltaics with selective solvent vapor annealing. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9883.	9.3	27
153	Optically Tunable Magneto-Capacitance Phenomenon in Organic Semiconducting Materials Developed by Electrical Polarization of Intermolecular Charge-Transfer States. <i>Advanced Materials</i> , 2014, 26, 3956-3961.	24.7	31
154	Inter-triplet spin-spin interaction effects on inter-conversion between different spin states in intermediate triplet-triplet pairs towards singlet fission. <i>Organic Electronics</i> , 2014, 15, 2168-2172.	2.6	5
155	Surface-charge accumulation effects on open-circuit voltage in organic solar cells based on photoinduced impedance analysis. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 4971-4976.	2.8	32
156	Magnetophotoluminescence line-shape narrowing through interactions between excited states in organic semiconducting materials. <i>Physical Review B</i> , 2014, 89, .	3.2	32
157	In-situ investigation of interfacial effects on charge accumulation and extraction in organic solar cells based on transient photocurrent studies. <i>Organic Electronics</i> , 2014, 15, 1624-1630.	2.6	7
158	Straight forward synthesis of conjugated polymers for deep red to NIR PLED containing chlorine atoms on the backbone. <i>Organic Electronics</i> , 2014, 15, 1440-1447.	2.6	14
159	Addressing dynamic photovoltaic processes at electrode:active layer and donor:acceptor interfaces in organic solar cells under device-operating conditions. <i>Science China Chemistry</i> , 2014, 58, 239-247.	7.7	4
160	Near Field Enhanced Photocurrent Generation in P-type Dye-Sensitized Solar Cells. <i>Scientific Reports</i> , 2014, 4, .	3.7	25
161	Magneto-Dielectric Effects Induced by Optically-Generated Intermolecular Charge-Transfer States in Organic Semiconducting Materials. <i>Scientific Reports</i> , 2013, 3, .	3.7	26
162	Effect of purity on the electro-optical properties of single wall nanotube-based transparent conductive electrodes. <i>Carbon</i> , 2013, 64, 1-5.	10.4	9

#	ARTICLE	IF	CITATIONS
163	Precise Structural Development and its Correlation to Function in Conjugated Polymer: Fullerene Thin Films by Controlled Solvent Annealing. <i>Advanced Functional Materials</i> , 2013, 23, 1701-1710.	17.1	64
164	Effects of bulk and interfacial charge accumulation on fill factor in organic solar cells. <i>Applied Physics Letters</i> , 2013, 102, .	3.2	37
165	Enhancing Seebeck Effects by Using Excited States in Organic Semiconducting Polymer MEH-PPV Based on Multilayer Electrode/Polymer/Electrode Thin-Film Structure. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10264-10269.	3.2	25
166	Thermal annealing effect on internal electrical polarization in organic solar cells. <i>Organic Electronics</i> , 2013, 14, 2192-2197.	2.6	18
167	Tripletâ€“charge annihilation versus tripletâ€“triplet annihilation in organic semiconductors. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1330-1336.	5.1	62
168	Spin Radical Enhanced Magnetocapacitance Effect in Intermolecular Excited States. <i>Journal of Physical Chemistry B</i> , 2013, 117, 14136-14140.	2.9	10
169	Magnetoconductance responses of triplet polaron pair charge reaction in hyperfine coupling regime. <i>Applied Physics Letters</i> , 2013, 103, 253304.	3.2	7
170	Changing inter-molecular spin-orbital coupling for generating magnetic field effects in phosphorescent organic semiconductors. <i>Applied Physics Letters</i> , 2012, 100, 013301.	3.2	12
171	The impact of controlled solvent exposure on the morphology, structure and function of bulk heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012, 107, 112-124.	6.2	48
172	High Seebeck effects from conducting polymer: Poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) based thin-film device with hybrid metal/polymer/metal architecture. <i>Applied Physics Letters</i> , 2012, 101, .	3.2	14
173	Doping Effects on Internally Coupled Seebeck Coefficient, Electrical, and Thermal Conductivities in Aluminum-Doped TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2012, 116, 13020-13025.	3.2	50
174	Magnetocurrent of Charge-Polarizable C ₆₀ -Diphenylaminofluorene Monoadduct-Derived Magnetic Nanocomposites. <i>Journal of the American Chemical Society</i> , 2012, 134, 3549-3554.	15.7	12
175	Giant Magnetic Field Effects on Electroluminescence in Electrochemical Cells. <i>Advanced Materials</i> , 2011, 23, 2216-2220.	24.7	31
176	High Seebeck Effects from Hybrid Metal/Polymer/Metal Thinâ€“Film Devices. <i>Advanced Materials</i> , 2011, 23, 4120-4124.	24.7	52
177	Intraâ€“molecular Donorâ€“Acceptor Interaction Effects on Charge Dissociation, Charge Transport, and Charge Collection in Bulkâ€“Heterojunction Organic Solar Cells. <i>Advanced Energy Materials</i> , 2011, 1, 923-929.	22.7	57
178	Effects of single walled carbon nanotubes on the electroluminescent performance of organic light-emitting diodes. <i>Organic Electronics</i> , 2011, 12, 1098-1102.	2.6	3
179	The effect of complexation with platinum in polyfluorene derivatives: A photo- and electro-luminescence study. <i>Journal of Luminescence</i> , 2011, 131, 710-720.	3.6	8
180	Electrical dipole-dipole interaction effects on magnetocurrent in organic phosphorescent materials. <i>Applied Physics Letters</i> , 2011, 99, .	3.2	9

#	ARTICLE	IF	CITATIONS
181	Magnetoconductance responses in organic charge-transfer-complex molecules. Applied Physics Letters, 2011, 99, .	3.2	23
182	Polymer Blends from Optoelectronics to Spintronics. ACS Symposium Series, 2010, , 85-92.	0.0	1
183	Magnetic Studies of Photovoltaic Processes in Organic Solar Cells. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1801-1806.	4.1	5
184	The magneto conductance responses in polymer photovoltaic devices. Organic Electronics, 2010, 11, 677-685.	2.6	8
185	Direct measurement of the magnetic field effects on carrier mobilities and recombination in tri-(8-hydroxyquinoline)-aluminum based light-emitting diodes. Applied Physics Letters, 2010, 97, 073301.	3.2	33
186	Magneto-Optical Investigations on the Formation and Dissociation of Intermolecular Charge-Transfer Complexes at Donor ⁺ Acceptor Interfaces in Bulk-Heterojunction Organic Solar Cells. Journal of Physical Chemistry B, 2010, 114, 5704-5709.	2.9	33
187	Inversion of magnetic field effects on electrical current and electroluminescence in tri-(8-hydroxyquinoline)-aluminum based light-emitting diodes. Applied Physics Letters, 2009, 95, 123306.	3.2	31
188	Magnetic ⁺ Field Effects in Organic Semiconducting Materials and Devices. Advanced Materials, 2009, 21, 1500-1516.	24.7	337
189	Positive and negative magnetic field effects in organic semiconducting materials. Synthetic Metals, 2009, 159, 2323-2325.	4.6	9
190	Solar energy-conversion processes in organic solar cells. Jom, 2008, 60, 49-53.	2.1	22
191	Photovoltaic Processes of Singlet and Triplet Excited States in Organic Solar Cells. Advanced Functional Materials, 2008, 18, 2611-2617.	17.1	99
192	Reply to "Magnetoresistance in organic semiconductors". Nature Materials, 2008, 7, 598-599.	20.9	7
193	Improvement of photovoltaic response based on enhancement of spin-orbital coupling and triplet states in organic solar cells. Journal of Applied Physics, 2008, 103, 043909.	2.3	53
194	Spin-Orbital Coupling Effects on Magnetoresistance in Organic Light-Emitting Diodes. Materials Research Society Symposia Proceedings, 2007, 965, .	0.1	0
195	Tuning magnetoresistance and magnetic-field-dependent electroluminescence through mixing a strong-spin-orbital-coupling molecule and a weak-spin-orbital-coupling polymer. Physical Review B, 2007, 75, .	3.2	100
196	Spin injection from ferromagnetic Co nanoclusters into organic semiconducting polymers. Physical Review B, 2007, 75, .	3.2	29
197	Spin Injection and Magnetoresistance in Organic Semiconductor Devices. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
198	Enhancement of quantum efficiency of organic light emitting devices by doping magnetic nanoparticles. Applied Physics Letters, 2007, 90, 232110.	3.2	40

#	ARTICLE	IF	CITATIONS
199	Tuning magnetoresistance between positive and negative values in organic semiconductors. <i>Nature Materials</i> , 2007, 6, 985-991.	20.9	367
200	Dissociation processes of singlet and triplet excitons in organic photovoltaic cells. <i>Applied Physics Letters</i> , 2006, 89, 131116.	3.2	32
201	Metal electrode effects on spin-orbital coupling and magnetoresistance in organic semiconductor devices. <i>Applied Physics Letters</i> , 2006, 89, 203510.	3.2	40
202	Bright and colour stable white polymer light-emitting diodes. <i>Semiconductor Science and Technology</i> , 2006, 21, L16-L19.	2.3	28
203	Effects of ferromagnetic nanowires on singlet and triplet exciton fractions in fluorescent and phosphorescent organic semiconductors. <i>Applied Physics Letters</i> , 2006, 88, 022114.	3.2	32
204	Morphology-dependent exciton emission and energy transfer in fluorene-polymer-related fluorescent and phosphorescent composite films spin cast from a mixture of two dissimilar organic solvents. <i>Journal of Applied Physics</i> , 2005, 98, 103510.	2.3	8
205	Carbon nanotube effects on electroluminescence and photovoltaic response in conjugated polymers. <i>Applied Physics Letters</i> , 2005, 87, 263118.	3.2	54
206	Novel fluorine containing polyfluorenes with efficient blue electroluminescence. <i>Polymer</i> , 2004, 45, 7071-7081.	4.2	59
207	Blue, green, red, and white electroluminescence from multichromophore polymer blends. <i>Journal of Applied Physics</i> , 2003, 93, 1995-2001.	2.3	66
208	Electron and hole transport in a green-emitting alternating block copolymer: space-charge-limited conduction with traps. <i>Journal Physics D: Applied Physics</i> , 1999, 32, 2568-2572.	3.1	25
209	Charge carrier mobility in electroluminescent alternating block copolymers. <i>Journal of Applied Physics</i> , 1999, 86, 3181-3186.	2.3	21
210	A Highly Luminescent Poly[(m-phenylenevinylene)-alt-(p-phenylenevinylene)] with Defined Conjugation Length and Improved Solubility. <i>Macromolecules</i> , 1999, 32, 3946-3950.	5.2	109
211	Synthesis of a green-emitting alternating block copolymer. <i>Polymers for Advanced Technologies</i> , 1998, 9, 504-510.	3.3	31
212	Interfacial effects in polymer LEDs. <i>Chemical Physics</i> , 1998, 227, 263-270.	2.2	60
213	A Processible Poly(phenyleneethynylene) with Strong Photoluminescence: Synthesis and Characterization of Poly[(m-phenyleneethynylene)-alt-(p-phenyleneethynylene)]. <i>Macromolecules</i> , 1998, 31, 6730-6732.	5.2	77
214	Electroluminescence in polymers. <i>Macromolecular Symposia</i> , 1997, 124, 83-87.	0.8	5
215	Light Emitting Properties of Fluorine-Substituted Poly(1,4-phenylene vinylenes). <i>Macromolecules</i> , 1997, 30, 8286-8292.	5.2	75
216	Red Light Emitting Push-Pull Disubstituted Poly(1,4-phenylenevinylene)s. <i>Macromolecules</i> , 1996, 29, 4287-4292.	5.2	62

#	ARTICLE	IF	CITATIONS
217	Photoluminescence and electroluminescence of new PPV-based light-emitting copolymers. Journal of Luminescence, 1994, 60-61, 919-922.	3.6	23
218	Pressure dependence of the photoluminescence of polyparaphenylene. Physical Review B, 1991, 43, 14001-14008.	3.2	8
219	Engineering Hybrid Perovskite Materials for Spectroscopic Sensing of Ionizing Radiation. , 0, , .		0