

Jin Young Kim

List of Publications by Year in descending order

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366
papers

27,206
citations

10956

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all docs

368
docs citations

368
times ranked

25033
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Tandem Polymer Solar Cells Fabricated by All-Solution Processing. <i>Science</i> , 2007, 317, 222-225.	6.0	3,142
2	Pseudo-halide anion engineering for $\text{I}^{\pm}\text{-FAPbI}_3$ perovskite solar cells. <i>Nature</i> , 2021, 592, 381-385.	13.7	2,095
3	Processing Additives for Improved Efficiency from Bulk Heterojunction Solar Cells. <i>Journal of the American Chemical Society</i> , 2008, 130, 3619-3623.	6.6	1,511
4	High-Efficiency Perovskite Solar Cells. <i>Chemical Reviews</i> , 2020, 120, 7867-7918.	23.0	1,480
5	Conformal quantum dot SnO_2 layers as electron transporters for efficient perovskite solar cells. <i>Science</i> , 2022, 375, 302-306.	6.0	872
6	High-Performance Solution-Processed Non-Fullerene Organic Solar Cells Based on Selenophene-Containing Perylene Bisimide Acceptor. <i>Journal of the American Chemical Society</i> , 2016, 138, 375-380.	6.6	643
7	Versatile surface plasmon resonance of carbon-dot-supported silver nanoparticles in polymer optoelectronic devices. <i>Nature Photonics</i> , 2013, 7, 732-738.	15.6	501
8	Cesium-doped methylammonium lead iodide perovskite light absorber for hybrid solar cells. <i>Nano Energy</i> , 2014, 7, 80-85.	8.2	459
9	Efficient, stable silicon tandem cells enabled by anion-engineered wide-bandgap perovskites. <i>Science</i> , 2020, 368, 155-160.	6.0	420
10	Soft network composite materials with deterministic and bio-inspired designs. <i>Nature Communications</i> , 2015, 6, 6566.	5.8	392
11	Boosting the Power Conversion Efficiency of Perovskite Solar Cells Using Self-Organized Polymeric Hole Extraction Layers with High Work Function. <i>Advanced Materials</i> , 2014, 26, 6461-6466.	11.1	321
12	An ultra-thin, un-doped NiO hole transporting layer of highly efficient (16.4%) organic-inorganic hybrid perovskite solar cells. <i>Nanoscale</i> , 2016, 8, 11403-11412.	2.8	307
13	Small-Bandgap Polymer Solar Cells with Unprecedented Short-Circuit Current Density and High Fill Factor. <i>Advanced Materials</i> , 2015, 27, 3318-3324.	11.1	294
14	Conjugated polyelectrolyte hole transport layer for inverted-type perovskite solar cells. <i>Nature Communications</i> , 2015, 6, 7348.	5.8	281
15	Mixed solvents for the optimization of morphology in solution-processed, inverted-type perovskite/fullerene hybrid solar cells. <i>Nanoscale</i> , 2014, 6, 6679.	2.8	275
16	Multipositional Silica-Coated Silver Nanoparticles for High-Performance Polymer Solar Cells. <i>Nano Letters</i> , 2013, 13, 2204-2208.	4.5	244
17	Combination of Titanium Oxide and a Conjugated Polyelectrolyte for High-Performance Inverted-Type Organic Optoelectronic Devices. <i>Advanced Materials</i> , 2011, 23, 2759-2763.	11.1	242
18	Effect of the Molecular Weight of Poly(3-hexylthiophene) on the Morphology and Performance of Polymer Bulk Heterojunction Solar Cells. <i>Macromolecular Rapid Communications</i> , 2007, 28, 1776-1780.	2.0	226

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19	Alkyl Side-Chain Engineering in Wide-Bandgap Copolymers Leading to Power Conversion Efficiencies over 10%. <i>Advanced Materials</i> , 2017, 29, 1604251.	11.1	213
20	Nb-Doped TiO ₂ : A New Compact Layer Material for TiO ₂ Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6878-6882.	1.5	210
21	Functionalized Methanofullerenes Used as n-Type Materials in Bulk-Heterojunction Polymer Solar Cells and in Field-Effect Transistors. <i>Journal of the American Chemical Society</i> , 2008, 130, 6444-6450.	6.6	208
22	NiO core-shell inverse opal electrodes for supercapacitors. <i>Chemical Communications</i> , 2011, 47, 5214.	2.2	202
23	High-Efficiency Colloidal Quantum Dot Photovoltaics via Robust Self-Assembled Monolayers. <i>Nano Letters</i> , 2015, 15, 7691-7696.	4.5	198
24	Capillary Printing of Highly Aligned Silver Nanowire Transparent Electrodes for High-Performance Optoelectronic Devices. <i>Nano Letters</i> , 2015, 15, 7933-7942.	4.5	196
25	Highly controllable transparent and conducting thin films using layer-by-layer assembly of oppositely charged reduced graphene oxides. <i>Journal of Materials Chemistry</i> , 2011, 21, 3438-3442.	6.7	194
26	Two-Step Sol-Gel Method-Based TiO ₂ Nanoparticles with Uniform Morphology and Size for Efficient Photo-Energy Conversion Devices. <i>Chemistry of Materials</i> , 2010, 22, 1958-1965.	3.2	166
27	Amine-Based Polar Solvent Treatment for Highly Efficient Inverted Polymer Solar Cells. <i>Advanced Materials</i> , 2014, 26, 494-500.	11.1	159
28	High-Performance Organic Optoelectronic Devices Enhanced by Surface Plasmon Resonance. <i>Advanced Materials</i> , 2011, 23, 5689-5693.	11.1	152
29	Improved Quantum Efficiency of Highly Efficient Perovskite BaSnO ₃ -Based Dye-Sensitized Solar Cells. <i>ACS Nano</i> , 2013, 7, 1027-1035.	7.3	150
30	Interplay of Intramolecular Noncovalent Coulomb Interactions for Semicrystalline Photovoltaic Polymers. <i>Chemistry of Materials</i> , 2015, 27, 5997-6007.	3.2	150
31	Ternary Organic Solar Cells Based on Two Highly Efficient Polymer Donors with Enhanced Power Conversion Efficiency. <i>Advanced Energy Materials</i> , 2016, 6, 1502109.	10.2	147
32	High-Temperature Short-Time Annealing Process for High-Performance Large-Area Perovskite Solar Cells. <i>ACS Nano</i> , 2017, 11, 6057-6064.	7.3	142
33	Oxygen Vacancy-Introduced BaSnO ₃ Photoanodes with Tunable Band Structures for Efficient Solar-Driven Water Splitting. <i>Advanced Materials</i> , 2019, 31, e1903316.	11.1	140
34	High-efficiency polymer solar cells with a cost-effective quinoxaline polymer through nanoscale morphology control induced by practical processing additives. <i>Energy and Environmental Science</i> , 2013, 6, 1909.	15.6	137
35	Highly Efficient Polymer Light-Emitting Diodes Using Graphene Oxide as a Hole Transport Layer. <i>ACS Nano</i> , 2012, 6, 2984-2991.	7.3	127
36	Recent progress in indoor organic photovoltaics. <i>Nanoscale</i> , 2020, 12, 5792-5804.	2.8	126

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37	Double-Sided Junctions Enable High-Performance Colloidal-Quantum-Dot Photovoltaics. <i>Advanced Materials</i> , 2016, 28, 4142-4148.	11.1	121
38	Band-gap-graded Cu ₂ ZnSn(S _{1-x} Se _x) ₄ Solar Cells Fabricated by an Ethanol-based, Particulate Precursor Ink Route. <i>Scientific Reports</i> , 2013, 3, 3069.	1.6	120
39	300% Enhancement of Carrier Mobility in Uniaxially-Oriented Perovskite Films Formed by Topotactic-Oriented Attachment. <i>Advanced Materials</i> , 2017, 29, 1606831.	11.1	120
40	Poly(fluorenevinylene) Derivative by Gilch Polymerization for Light-Emitting Diode Applications. <i>Macromolecules</i> , 2002, 35, 7532-7534.	2.2	119
41	Effects of Annealing Temperature on the Charge-Collection and Light-Harvesting Properties of TiO ₂ Nanotube-Based Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010, 114, 13433-13441.	1.5	114
42	Low-Temperature Hydrothermal Synthesis of Pure BiFeO ₃ Nanopowders Using Triethanolamine and Their Applications as Visible-Light Photocatalysts. <i>Journal of the American Ceramic Society</i> , 2008, 91, 3753-3755.	1.9	112
43	Enhanced Efficiency of Single and Tandem Organic Solar Cells Incorporating a Diketopyrrolopyrrole-Based Low-Bandgap Polymer by Utilizing Combined ZnO/Polyelectrolyte Electron-Transport Layers. <i>Advanced Materials</i> , 2013, 25, 4783-4788.	11.1	111
44	A Selenophene Analogue of PCDTBT: Selective Fine-Tuning of LUMO to Lower of the Bandgap for Efficient Polymer Solar Cells. <i>Macromolecules</i> , 2012, 45, 8658-8664.	2.2	110
45	General Strategy for Fabricating Transparent TiO ₂ Nanotube Arrays for Dye-Sensitized Photoelectrodes: Illumination Geometry and Transport Properties. <i>ACS Nano</i> , 2011, 5, 2647-2656.	7.3	109
46	Silver-Based Nanoparticles for Surface Plasmon Resonance in Organic Optoelectronics. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 164-175.	1.2	106
47	Fluorine Functionalized Graphene Nano Platelets for Highly Stable Inverted Perovskite Solar Cells. <i>Nano Letters</i> , 2017, 17, 6385-6390.	4.5	106
48	Graphene Oxide Nanoribbon as Hole Extraction Layer to Enhance Efficiency and Stability of Polymer Solar Cells. <i>Advanced Materials</i> , 2014, 26, 786-790.	11.1	102
49	In ₂ S ₃ Atomic Layer Deposition and Its Application as a Sensitizer on TiO ₂ Nanotube Arrays for Solar Energy Conversion. <i>Journal of Physical Chemistry C</i> , 2010, 114, 8032-8039.	1.5	100
50	Completely Transparent Conducting Oxide-Free and Flexible Dye-Sensitized Solar Cells Fabricated on Plastic Substrates. <i>ACS Nano</i> , 2015, 9, 3760-3771.	7.3	100
51	Ultrathin, lightweight and flexible perovskite solar cells with an excellent power-per-weight performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1107-1114.	5.2	100
52	Semicrystalline D-A Copolymers with Different Chain Curvature for Applications in Polymer Optoelectronic Devices. <i>Macromolecules</i> , 2014, 47, 1604-1612.	2.2	95
53	An Organic Surface Modifier to Produce a High Work Function Transparent Electrode for High Performance Polymer Solar Cells. <i>Advanced Materials</i> , 2015, 27, 892-896.	11.1	94
54	Surface modification of metal oxide using ionic liquid molecules in hybrid organic-inorganic optoelectronic devices. <i>Journal of Materials Chemistry</i> , 2011, 21, 2051.	6.7	93

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55	Zn ₂ SnO ₄ -Based Photoelectrodes for Organolead Halide Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22991-22994.	1.5	92
56	Single Component Organic Solar Cells Based on Oligothiophene- π -Fullerene Conjugate. <i>Advanced Functional Materials</i> , 2017, 27, 1702474.	7.8	91
57	Water-Based Thixotropic Polymer Gel Electrolyte for Dye-Sensitized Solar Cells. <i>ACS Nano</i> , 2013, 7, 4050-4056.	7.3	89
58	Crystallographically preferred oriented TiO ₂ nanotube arrays for efficient photovoltaic energy conversion. <i>Energy and Environmental Science</i> , 2012, 5, 7989.	15.6	88
59	Synthesis of PCDTBT-Based Fluorinated Polymers for High Open-Circuit Voltage in Organic Photovoltaics: Towards an Understanding of Relationships between Polymer Energy Levels Engineering and Ideal Morphology Control. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7523-7534.	4.0	88
60	Highly Efficient Copper- π -Zinc- π -Tin- π -Selenide (CZTSe) Solar Cells by Electrodeposition. <i>ChemSusChem</i> , 2014, 7, 1073-1077.	3.6	88
61	Influence of anatase-rutile phase transformation on dielectric properties of sol-gel derived TiO ₂ thin films. <i>Journal of Electroceramics</i> , 2006, 16, 447-451.	0.8	87
62	Highly durable and flexible dye-sensitized solar cells fabricated on plastic substrates: PVDF-nanofiber-reinforced TiO ₂ photoelectrodes. <i>Energy and Environmental Science</i> , 2012, 5, 8950.	15.6	87
63	Synthesis and Electroluminescence Properties of Poly(9,9-di-n-octylfluorenyl-2,7-vinylene) Derivatives for Light-Emitting Display. <i>Macromolecules</i> , 2003, 36, 3841-3847.	2.2	85
64	Investigation of Charge Carrier Behavior in High Performance Ternary Blend Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1600637.	10.2	85
65	Hot slot die coating for additive-free fabrication of high performance roll-to-roll processed polymer solar cells. <i>Energy and Environmental Science</i> , 2018, 11, 3248-3255.	15.6	85
66	Highly Efficient and Uniform 1-cm ² Perovskite Solar Cells with an Electrochemically Deposited NiO _x Hole-Extraction Layer. <i>ChemSusChem</i> , 2017, 10, 2660-2667.	3.6	84
67	High-efficiency photovoltaic cells with wide optical band gap polymers based on fluorinated phenylene-alkoxybenzothiadiazole. <i>Energy and Environmental Science</i> , 2017, 10, 1443-1455.	15.6	84
68	Synergistic enhancement and mechanism study of mechanical and moisture stability of perovskite solar cells introducing polyethylene-imine into the CH ₃ NH ₃ PbI ₃ /HTM interface. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22176-22182.	5.2	80
69	Carrier generation and transport in bulk heterojunction films processed with 1,8-octanedithiol as a processing additive. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	78
70	Effect of multi-armed triphenylamine-based hole transporting materials for high performance perovskite solar cells. <i>Chemical Science</i> , 2016, 7, 5517-5522.	3.7	78
71	A Three-Terminal Monolithic Perovskite/Si Tandem Solar Cell Characterization Platform. <i>Joule</i> , 2019, 3, 807-818.	11.7	78
72	Synthesis of a New Cross-Linkable Perfluorocyclobutane-Based Hole-Transport Material. <i>Organic Letters</i> , 2006, 8, 4703-4706.	2.4	73

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73	Design, Synthesis, and Electroluminescent Property of CN [~] Poly(dihexylfluorenevinylene) for LEDs. <i>Macromolecules</i> , 2003, 36, 6970-6975.	2.2	71
74	Importance of 4- <i>tert</i> -Butylpyridine in Electrolyte for Dye-Sensitized Solar Cells Employing SnO ₂ Electrode. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22759-22766.	1.5	71
75	New Hybrid Hole Extraction Layer of Perovskite Solar Cells with a Planar p ⁺ -i ⁿ Geometry. <i>Journal of Physical Chemistry C</i> , 2015, 119, 27285-27290.	1.5	71
76	Stabilized Blue Emission from Organic Light-Emitting Diodes Using Poly(2,6-(4,4-bis(2-ethylhexyl)-4H-cyclopenta[def]phenanthrene)). <i>Macromolecules</i> , 2005, 38, 6285-6289.	2.2	70
77	Stabilized Polymers with Novel Indenoindene Backbone against Photodegradation for LEDs and Solar Cells. <i>Macromolecules</i> , 2008, 41, 7296-7305.	2.2	70
78	Redox-active charge carriers of conducting polymers as a tuner of conductivity and its potential window. <i>Scientific Reports</i> , 2013, 3, 2454.	1.6	70
79	Highly efficient plasmonic organic optoelectronic devices based on a conducting polymer electrode incorporated with silver nanoparticles. <i>Energy and Environmental Science</i> , 2013, 6, 1949.	15.6	69
80	Electroluminescence in polymer-fullerene photovoltaic cells. <i>Applied Physics Letters</i> , 2005, 86, 183502.	1.5	67
81	Nanoparticle-Enhanced Silver-Nanowire Plasmonic Electrodes for High-Performance Organic Optoelectronic Devices. <i>Advanced Materials</i> , 2018, 30, e1800659.	11.1	67
82	Water Splitting Exceeding 17% Solar-to-Hydrogen Conversion Efficiency Using Solution-Processed Ni-Based Electrocatalysts and Perovskite/Si Tandem Solar Cell. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33835-33843.	4.0	67
83	Engineering the morphology <i>via</i> processing additives in multiple all-polymer solar cells for improved performance. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10421-10432.	5.2	65
84	Novel Electroluminescent Polymers with Fluoro Groups in Vinylene Units. <i>Macromolecules</i> , 2004, 37, 6711-6715.	2.2	63
85	Reduced Graphene Oxide (rGO)-Wrapped Fullerene (C ₆₀) Wires. <i>ACS Nano</i> , 2011, 5, 8365-8371.	7.3	63
86	Improved Performance in Polymer Solar Cells Using Mixed PC ₆₁ BM/PC ₇₁ BM Acceptors. <i>Advanced Energy Materials</i> , 2015, 5, 1401687.	10.2	63
87	Interfacial electron accumulation for efficient homo-junction perovskite solar cells. <i>Nano Energy</i> , 2016, 28, 269-276.	8.2	63
88	Controlled synthesis of aligned Ni-NiO core-shell nanowire arrays on glass substrates as a new supercapacitor electrode. <i>RSC Advances</i> , 2012, 2, 8281.	1.7	62
89	Slot-Die and Roll-to-Roll Processed Single Junction Organic Photovoltaic Cells with the Highest Efficiency. <i>Advanced Energy Materials</i> , 2019, 9, 1901805.	10.2	62
90	Interface Engineering Driven Stabilization of Halide Perovskites against Moisture, Heat, and Light for Optoelectronic Applications. <i>Advanced Energy Materials</i> , 2020, 10, 2000768.	10.2	62

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91	Effects of heterojunction on photoelectrocatalytic properties of ZnO/TiO ₂ ZnO/TiO ₂ films. International Journal of Hydrogen Energy, 2007, 32, 3137-3140.	3.8	61
92	Efficient Conventional and Inverted Type Photovoltaic Cells Using a Planar Alternating Polythiophene Copolymer. Chemistry - A European Journal, 2012, 18, 2551-2558.	1.7	61
93	Functional Multilayered Transparent Conducting Oxide Thin Films for Photovoltaic Devices. Journal of Physical Chemistry C, 2009, 113, 1083-1087.	1.5	60
94	Vivid and Fully Saturated Blue Light-Emitting Diodes Based on Ligand-Modified Halide Perovskite Nanocrystals. ACS Applied Materials & Interfaces, 2019, 11, 23401-23409.	4.0	60
95	Inverted Colloidal Quantum Dot Solar Cells. Advanced Materials, 2014, 26, 3321-3327.	11.1	59
96	Preparation of a Nanoporous CaCO ₃ -Coated TiO ₂ Electrode and Its Application to a Dye-Sensitized Solar Cell. Langmuir, 2007, 23, 11907-11910.	1.6	58
97	A universal processing additive for high-performance polymer solar cells. RSC Advances, 2017, 7, 7476-7482.	1.7	58
98	In Situ Observation of the Stability of Anatase Nanoparticles and Their Transformation to Rutile in an Acidic Solution. Langmuir, 2004, 20, 11732-11737.	1.6	57
99	Syntheses and properties of electroluminescent polyfluorene-based conjugated polymers, containing oxadiazole and carbazole units as pendants, for LEDs. Polymer, 2005, 46, 12158-12165.	1.8	57
100	Near-complete charge separation in tailored BiVO ₄ -based heterostructure photoanodes toward artificial leaf. Applied Catalysis B: Environmental, 2021, 293, 120217.	10.8	57
101	Ambipolar organic field-effect transistors fabricated using a composite of semiconducting polymer and soluble fullerene. Applied Physics Letters, 2006, 89, 153505.	1.5	56
102	Conjugated Polyelectrolytes as Efficient Hole Transport Layers in Perovskite Light-Emitting Diodes. ACS Nano, 2018, 12, 5826-5833.	7.3	56
103	Tailoring the Morphology and Structure of Nanosized Zn ₂ SiO ₄ : Mn ²⁺ Phosphors Using the Hydrothermal Method and Their Luminescence Properties. Journal of Physical Chemistry C, 2010, 114, 10330-10335.	1.5	54
104	Highly Crystalline and Low Bandgap Donor Polymers for Efficient Polymer Solar Cells. Advanced Materials, 2012, 24, 538-542.	11.1	53
105	Easily Attainable Phenothiazine-Based Polymers for Polymer Solar Cells: Advantage of Insertion of S ₂ O ₂ -dioxides into its Polymer for Inverted Structure Solar Cells. Macromolecules, 2012, 45, 1847-1857.	2.2	52
106	Nanoscope Management of Molecular Packing and Orientation of Small Molecules by a Combination of Linear and Branched Alkyl Side Chains. ACS Nano, 2014, 8, 5988-6003.	7.3	52
107	Alkoxybenzothiadiazole-Based Fullerene and Nonfullerene Polymer Solar Cells with High Shunt Resistance for Indoor Photovoltaic Applications. ACS Applied Materials & Interfaces, 2018, 10, 3885-3894.	4.0	52
108	Efficient Exciton Diffusion in Organic Bilayer Heterojunctions with Nonfullerene Small Molecular Acceptors. ACS Energy Letters, 2020, 5, 1628-1635.	8.8	52

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109	Effect of Rubidium Incorporation on the Structural, Electrical, and Photovoltaic Properties of Methylammonium Lead Iodide-Based Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41898-41905.	4.0	51
110	Green-solvent processable semiconducting polymers applicable in additive-free perovskite and polymer solar cells: molecular weights, photovoltaic performance, and thermal stability. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5538-5543.	5.2	51
111	Nanowire-Based Three-Dimensional Transparent Conducting Oxide Electrodes for Extremely Fast Charge Collection. <i>Advanced Energy Materials</i> , 2011, 1, 829-835.	10.2	50
112	Controlled Interfacial Electron Dynamics in Highly Efficient Zn ₂ SnO ₄ -Based Dye-Sensitized Solar Cells. <i>ChemSusChem</i> , 2014, 7, 501-509.	3.6	50
113	Simple Large-Scale Synthesis of Hydroxyapatite Nanoparticles: In Situ Observation of Crystallization Process. <i>Langmuir</i> , 2010, 26, 384-388.	1.6	49
114	Quinoxaline-thiophene based thick photovoltaic devices with an efficiency of ~148%. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9967-9976.	5.2	49
115	Ladder-type heteroacene polymers bearing carbazole and thiophene ring units and their use in field-effect transistors and photovoltaic cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 843-850.	6.7	48
116	Rapid Dye Adsorption via Surface Modification of TiO ₂ Photoanodes for Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5201-5207.	4.0	48
117	Highly efficient perovskite solar cells based on mechanically durable molybdenum cathode. <i>Nano Energy</i> , 2015, 17, 131-139.	8.2	48
118	Photocurrent Extraction Efficiency near Unity in a Thick Polymer Bulk Heterojunction. <i>Advanced Functional Materials</i> , 2016, 26, 3324-3330.	7.8	48
119	Interfacial engineering for highly efficient organic solar cells. <i>Current Applied Physics</i> , 2017, 17, 370-391.	1.1	47
120	Study of Burn-In Loss in Green Solvent-Processed Ternary Blended Organic Photovoltaics Derived from UV-Crosslinkable Semiconducting Polymers and Nonfullerene Acceptors. <i>Advanced Energy Materials</i> , 2019, 9, 1901829.	10.2	47
121	Tailoring of Energy Levels in D-A Organic Dyes via Fluorination of Acceptor Units for Efficient Dye-Sensitized Solar Cells. <i>Scientific Reports</i> , 2015, 5, 7711.	1.6	45
122	Bulk Heterojunction Materials Composed of Poly(2,5-bis(3-tetradecylthiophen-2-yl)thieno[3,2-b]thiophene): Ultrafast Electron Transfer and Carrier Recombination. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7853-7857.	1.5	44
123	Tailoring oriented TiO ₂ nanotube morphology for improved Li storage kinetics. <i>Electrochimica Acta</i> , 2013, 88, 123-128.	2.6	44
124	Spectroscopically tracking charge separation in polymer:fullerene blends with a three-phase morphology. <i>Energy and Environmental Science</i> , 2015, 8, 2713-2724.	15.6	44
125	Enhancement of the photoelectric performance of dye-sensitized solar cells by using a CaCO ₃ -coated TiO ₂ nanoparticle film as an electrode. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 2405-2412.	3.0	43
126	Perturbation of the Electron Transport Mechanism by Proton Intercalation in Nanoporous TiO ₂ Films. <i>Nano Letters</i> , 2012, 12, 2112-2116.	4.5	43

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127	Device Architectures for Enhanced Photon Recycling in Thin-Film Multijunction Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1400919.	10.2	41
128	Peroptronic devices: perovskite-based light-emitting solar cells. <i>Energy and Environmental Science</i> , 2017, 10, 1950-1957.	15.6	41
129	A synthetic approach to a fullerene-rich dendron and its linear polymer via ring-opening metathesis polymerization. <i>Chemical Communications</i> , 2011, 47, 3078.	2.2	40
130	Preparation of Cu ₂ ZnSnS ₄ thin films via electrochemical deposition and rapid thermal annealing. <i>Thin Solid Films</i> , 2013, 546, 294-298.	0.8	40
131	Synthesis of fluorinated analogues of a practical polymer TQ for improved open-circuit voltages in polymer solar cells. <i>Polymer Chemistry</i> , 2014, 5, 2540.	1.9	40
132	Dithienogermole-Containing Small-Molecule Solar Cells with 7.3% Efficiency: In-Depth Study on the Effects of Heteroatom Substitution of Si with Ge. <i>Advanced Energy Materials</i> , 2015, 5, 1402044.	10.2	40
133	Toward the Realization of A Practical Diketopyrrolopyrrole-Based Small Molecule for Improved Efficiency in Ternary BHJ Solar Cells. <i>Macromolecular Rapid Communications</i> , 2012, 33, 140-145.	2.0	39
134	Effects of Ionic Liquid Molecules in Hybrid PbS Quantum Dot-Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1757-1760.	4.0	39
135	Plasmonic Transition via Interparticle Coupling of Au@Ag Core-Shell Nanostructures Sheathed in Double Hydrophilic Block Copolymer for High-Performance Polymer Solar Cell. <i>Chemistry of Materials</i> , 2015, 27, 4789-4798.	3.2	39
136	Pseudohalides in Lead-Based Perovskite Semiconductors. <i>Advanced Materials</i> , 2019, 31, e1807029.	11.1	39
137	Color-Tunable Electroluminescent Polymers by Substituents on the Poly(p-phenylenevinylene) Derivatives for Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2002, 14, 5090-5097.	3.2	37
138	Influence of Anatase-Rutile Phase Transformation on Dielectric Properties of Sol-Gel Derived TiO ₂ Thin Films. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 6148-6151.	0.8	37
139	The effect of introducing a buffer layer to polymer solar cells on cell efficiency. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 1119-1122.	3.0	37
140	Simultaneous Enhancement of Solar Cell Efficiency and Photostability via Chemical Tuning of Electron Donating Units in Diketopyrrolopyrrole-Based Push-Pull Type Polymers. <i>Macromolecules</i> , 2014, 47, 6270-6280.	2.2	37
141	A thermally stable, barium-stabilized AB_3 perovskite for optoelectronic devices. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21740-21746.	5.2	37
142	Bandgap Tailored Nonfullerene Acceptors for Low-Energy-Loss Near-Infrared Organic Photovoltaics. , 2020, 2, 395-402.		37
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