

# Tae-Woo Lee

## List of Publications by Year in descending order

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Version: 2024-02-01

299  
papers

25,288  
citations

9264

74  
h-index

7348

152  
g-index

307  
all docs

307  
docs citations

307  
times ranked

23721  
citing authors

#	ARTICLE	IF	CITATIONS
1	Overcoming the electroluminescence efficiency limitations of perovskite light-emitting diodes. Science, 2015, 350, 1222-1225.	12.6	2,440
2	Extremely efficient flexible organic light-emitting diodes with modified graphene anode. Nature Photonics, 2012, 6, 105-110.	31.4	1,272
3	Multicolored Organic/Inorganic Hybrid Perovskite Light-Emitting Diodes. Advanced Materials, 2015, 27, 1248-1254.	21.0	1,077
4	A bioinspired flexible organic artificial afferent nerve. Science, 2018, 360, 998-1003.	12.6	982
5	Perovskites for Next-Generation Optical Sources. Chemical Reviews, 2019, 119, 7444-7477.	47.7	640
6	Comprehensive defect suppression in perovskite nanocrystals for high-efficiency light-emitting diodes. Nature Photonics, 2021, 15, 148-155.	31.4	590
7	Solution processable small molecules for organic light-emitting diodes. Journal of Materials Chemistry, 2010, 20, 6392.	6.7	555
8	Efficient Visible Quasi-2D Perovskite Light-Emitting Diodes. Advanced Materials, 2016, 28, 7515-7520.	21.0	554
9	Metal halide perovskite light emitters. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11694-11702.	7.1	465
10	Planar heterojunction organometal halide perovskite solar cells: roles of interfacial layers. Energy and Environmental Science, 2016, 9, 12-30.	30.8	449
11	Planar CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Solar Cells with Constant 17.2% Average Power Conversion Efficiency Irrespective of the Scan Rate. Advanced Materials, 2015, 27, 3424-3430.	21.0	435
12	Organic core-sheath nanowire artificial synapses with femtojoule energy consumption. Science Advances, 2016, 2, e1501326.	10.3	406
13	Improving the Stability of Metal Halide Perovskite Materials and Light-Emitting Diodes. Advanced Materials, 2018, 30, e1704587.	21.0	368
14	Stretchable organic optoelectronic sensorimotor synapse. Science Advances, 2018, 4, eaat7387.	10.3	359
15	Quantitative multispectral biosensing and 1D imaging using quasi-3D plasmonic crystals. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 17143-17148.	7.1	321
16	Boosting the Power Conversion Efficiency of Perovskite Solar Cells Using Self-Organized Polymeric Hole Extraction Layers with High Work Function. Advanced Materials, 2014, 26, 6461-6466.	21.0	321
17	Organometal Halide Perovskite Artificial Synapses. Advanced Materials, 2016, 28, 5916-5922.	21.0	319
18	Highly Efficient Light-Emitting Diodes of Colloidal Metal-Halide Perovskite Nanocrystals beyond Quantum Size. ACS Nano, 2017, 11, 6586-6593.	14.6	310

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19	Flexible Neuromorphic Electronics for Computing, Soft Robotics, and Neuroprosthetics. Advanced Materials, 2020, 32, e1903558.	21.0	289
20	Large-scale organic nanowire lithography and electronics. Nature Communications, 2013, 4, 1773.	12.8	262
21	Electroluminescence from Graphene Quantum Dots Prepared by Amidative Cutting of Tattered Graphite. Nano Letters, 2014, 14, 1306-1311.	9.1	260
22	Three-Dimensional Bulk Heterojunction Morphology for Achieving High Internal Quantum Efficiency in Polymer Solar Cells. Advanced Functional Materials, 2009, 19, 2398-2406.	14.9	236
23	Retina-Inspired Carbon Nitride-Based Photonic Synapses for Selective Detection of UV Light. Advanced Materials, 2020, 32, e1906899.	21.0	222
24	Ultrapure Green Light-Emitting Diodes Using Two-Dimensional Formamidinium Perovskites: Achieving Recommendation 2020 Color Coordinates. Nano Letters, 2017, 17, 5277-5284.	9.1	221
25	Growth, detachment and transfer of highly-ordered TiO <sub>2</sub> nanotube arrays: use in dye-sensitized solar cells. Chemical Communications, 2008, , 2867.	4.1	218
26	Universal energy level tailoring of self-organized hole extraction layers in organic solar cells and organic-inorganic hybrid perovskite solar cells. Energy and Environmental Science, 2016, 9, 932-939.	30.8	218
27	Organic Synapses for Neuromorphic Electronics: From Brain-Inspired Computing to Sensorimotor Nerve. Accounts of Chemical Research, 2019, 52, 964-974.	15.6	213
28	Efficient Flexible Organic/Inorganic Hybrid Perovskite Light-Emitting Diodes Based on Graphene Anode. Advanced Materials, 2017, 29, 1605587.	21.0	200
29	Polyethylene Imine as an Ideal Interlayer for Highly Efficient Inverted Polymer Light-Emitting Diodes. Advanced Functional Materials, 2014, 24, 3808-3814.	14.9	196
30	High efficiency perovskite light-emitting diodes of ligand-engineered colloidal formamidinium lead bromide nanoparticles. Nano Energy, 2017, 38, 51-58.	16.0	195
31	Graphene-based flexible electronic devices. Materials Science and Engineering Reports, 2017, 118, 1-43.	31.8	194
32	High-Efficiency Solution-Processed Inorganic Metal Halide Perovskite Light-Emitting Diodes. Advanced Materials, 2017, 29, 1700579.	21.0	193
33	Subwavelength light bending by metal slit structures. Optics Express, 2005, 13, 9652.	3.4	185
34	Characteristics of Solution-Processed Small-Molecule Organic Films and Light-Emitting Diodes Compared with their Vacuum-Deposited Counterparts. Advanced Functional Materials, 2009, 19, 1625-1630.	14.9	176
35	High-efficiency stacked white organic light-emitting diodes. Applied Physics Letters, 2008, 92, .	3.3	169
36	Synergetic electrode architecture for efficient graphene-based flexible organic light-emitting diodes. Nature Communications, 2016, 7, 11791.	12.8	163

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37	A roll-to-roll welding process for planarized silver nanowire electrodes. <i>Nanoscale</i> , 2014, 6, 11828-11834.	5.6	161
38	Graphenes Converted from Polymers. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 493-497.	4.6	158
39	Synthesis and Nonvolatile Memory Behavior of Redox-Active Conjugated Polymer-Containing Ferrocene. <i>Journal of the American Chemical Society</i> , 2007, 129, 9842-9843.	13.7	154
40	Control of the Surface Composition of a Conductingâ€Polymer Complex Film to Tune the Work Function. <i>Advanced Functional Materials</i> , 2008, 18, 2246-2252.	14.9	151
41	Synthesis of transparent mesoporous tungsten trioxide films with enhanced photoelectrochemical response: application to unassisted solar water splitting. <i>Energy and Environmental Science</i> , 2011, 4, 1465.	30.8	142
42	Highly Efficient pâ€iâ€n and Tandem Organic Lightâ€Emitting Devices Using an Airâ€Stable and Lowâ€Temperatureâ€Evaporable Metal Azide as an nâ€Dopant. <i>Advanced Functional Materials</i> , 2010, 20, 1797-1802.	14.9	136
43	Highly Efficient, Simplified, Solutionâ€Processed Thermally Activated Delayedâ€Fluorescence Organic Lightâ€Emitting Diodes. <i>Advanced Materials</i> , 2016, 28, 734-741.	21.0	133
44	Flexible and Transparent Metallic Grid Electrodes Prepared by Evaporative Assembly. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 12380-12387.	8.0	128
45	Recent progress in fabrication techniques of graphene nanoribbons. <i>Materials Horizons</i> , 2016, 3, 186-207.	12.2	127
46	Organic light-emitting diodes formed by soft contact lamination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 429-433.	7.1	126
47	Ultrahigh-efficiency solution-processed simplified small-molecule organic light-emitting diodes using universal host materials. <i>Science Advances</i> , 2016, 2, e1601428.	10.3	122
48	A 2D Titanium Carbide MXene Flexible Electrode for Highâ€Efficiency Lightâ€Emitting Diodes. <i>Advanced Materials</i> , 2020, 32, e2000919.	21.0	122
49	Versatile neuromorphic electronics by modulating synaptic decay of single organic synaptic transistor: From artificial neural networks to neuro-prosthetics. <i>Nano Energy</i> , 2019, 65, 104035.	16.0	115
50	Dramatic Substituent Effects on the Photoluminescence of Boron Complexes of 2â€(Benzothiazolâ€2â€yl)phenols. <i>Chemistry - A European Journal</i> , 2012, 18, 9886-9893.	3.3	109
51	High-Efficiency Polycrystalline Perovskite Light-Emitting Diodes Based on Mixed Cations. <i>ACS Nano</i> , 2018, 12, 2883-2892.	14.6	109
52	Dimensionality Dependent Plasticity in Halide Perovskite Artificial Synapses for Neuromorphic Computing. <i>Advanced Electronic Materials</i> , 2019, 5, 1900008.	5.1	109
53	Proton-transfer-induced 3D/2D hybrid perovskites suppress ion migration and reduce luminance overshoot. <i>Nature Communications</i> , 2020, 11, 3378.	12.8	108
54	Silver-Based Nanoparticles for Surface Plasmon Resonance in Organic Optoelectronics. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 164-175.	2.3	106

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55	Strategies to Improve Luminescence Efficiency of Metal-Halide Perovskites and Light-Emitting Diodes. <i>Advanced Materials</i> , 2019, 31, e1804595.	21.0	102
56	Characterization of stability and challenges to improve lifetime in perovskite LEDs. <i>Nature Photonics</i> , 2021, 15, 630-634.	31.4	101
57	Unravelling additive-based nanocrystal pinning for high efficiency organic-inorganic halide perovskite light-emitting diodes. <i>Nano Energy</i> , 2017, 42, 157-165.	16.0	98
58	Organic Nanowire Fabrication and Device Applications. <i>Small</i> , 2015, 11, 45-62.	10.0	97
59	Extremely stable graphene electrodes doped with macromolecular acid. <i>Nature Communications</i> , 2018, 9, 2037.	12.8	96
60	Soluble Self-Doped Conducting Polymer Compositions with Tunable Work Function as Hole Injection/Extraction Layers in Organic Optoelectronics. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6274-6277.	13.8	95
61	Efficient Ruddlesden-Popper Perovskite Light-Emitting Diodes with Randomly Oriented Nanocrystals. <i>Advanced Functional Materials</i> , 2019, 29, 1901225.	14.9	95
62	Self-Doped Conducting Polymer as a Hole-Extraction Layer in Organic-Inorganic Hybrid Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500678.	3.7	93
63	Roles of Interlayers in Efficient Organic Photovoltaic Devices. <i>Macromolecular Rapid Communications</i> , 2010, 31, 2095-2108.	3.9	92
64	Molecularly Controlled Interfacial Layer Strategy Toward Highly Efficient Simple-Structured Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2012, 24, 1487-1493.	21.0	92
65	Ultrathin Organic Solar Cells with Graphene Doped by Ferroelectric Polarization. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 3299-3304.	8.0	91
66	Ultrasensitive artificial synapse based on conjugated polyelectrolyte. <i>Nano Energy</i> , 2018, 48, 575-581.	16.0	85
67	Water-Soluble Polyfluorenes as an Electron Injecting Layer in PLEDs for Extremely High Quantum Efficiency. <i>Advanced Materials</i> , 2008, 20, 1624-1629.	21.0	83
68	Electrospun Organic Nanofiber Electronics and Photonics. <i>Macromolecular Materials and Engineering</i> , 2013, 298, 475-486.	3.6	83
69	Deformable Organic Nanowire Field-Effect Transistors. <i>Advanced Materials</i> , 2018, 30, 1704401.	21.0	82
70	Organic solar cells using CVD-grown graphene electrodes. <i>Nanotechnology</i> , 2014, 25, 014012.	2.6	81
71	Exploiting the full advantages of colloidal perovskite nanocrystals for large-area efficient light-emitting diodes. <i>Nature Nanotechnology</i> , 2022, 17, 590-597.	31.5	81
72	Organic light emitting board for dynamic interactive display. <i>Nature Communications</i> , 2017, 8, 14964.	12.8	80

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73	Organic electronic synapses with low energy consumption. <i>Joule</i> , 2021, 5, 794-810.	24.0	79
74	Versatile p-type Chemical Doping to Achieve Ideal Flexible Graphene Electrodes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6197-6201.	13.8	78
75	Laminated Graphene Films for Flexible Transparent Thin Film Encapsulation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 14725-14731.	8.0	78
76	Efficient Perovskite Light-Emitting Diodes Using Polycrystalline Core-Shell-Mimicked Nanograins. <i>Advanced Functional Materials</i> , 2019, 29, 1902017.	14.9	76
77	Hole-injecting conducting-polymer compositions for highly efficient and stable organic light-emitting diodes. <i>Applied Physics Letters</i> , 2005, 87, 231106.	3.3	75
78	High Color-Purity Green, Orange, and Red Light-Emitting Diodes Based on Chemically Functionalized Graphene Quantum Dots. <i>Scientific Reports</i> , 2016, 6, 24205.	3.3	72
79	Versatile Metal Nanowiring Platform for Large-Scale Nano- and Opto-Electronic Devices. <i>Advanced Materials</i> , 2016, 28, 9109-9116.	21.0	69
80	AC Field-Induced Polymer Electroluminescence with Single Wall Carbon Nanotubes. <i>Nano Letters</i> , 2011, 11, 966-972.	9.1	68
81	N-doped Graphene Field-Effect Transistors with Enhanced Electron Mobility and Air-Stability. <i>Small</i> , 2014, 10, 1999-2005.	10.0	68
82	Boosting Efficiency in Polycrystalline Metal Halide Perovskite Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2019, 4, 1134-1149.	17.4	68
83	Evidence of band bending observed by electroabsorption studies in polymer light emitting device with ionomer/Al or LiF/Al cathode. <i>Applied Physics Letters</i> , 2000, 76, 2152-2154.	3.3	65
84	Hole-transporting interlayers for improving the device lifetime in the polymer light-emitting diodes. <i>Applied Physics Letters</i> , 2006, 89, 123505.	3.3	64
85	Charge carrier recombination and ion migration in metal-halide perovskite nanoparticle films for efficient light-emitting diodes. <i>Nano Energy</i> , 2018, 52, 329-335.	16.0	64
86	Conducting Polymers as Anode Buffer Materials in Organic and Perovskite Optoelectronics. <i>Advanced Optical Materials</i> , 2017, 5, 1600512.	7.3	63
87	Efficient Photoluminescence and Electroluminescence from Environmentally Stable Polymer/Clay Nanocomposites. <i>Chemistry of Materials</i> , 2001, 13, 2217-2222.	6.7	62
88	Seeing Molecules by Eye: Surface Plasmon Resonance Imaging at Visible Wavelengths with High Spatial Resolution and Submonolayer Sensitivity. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5013-5017.	13.8	62
89	Controlled TiO <sub>2</sub> Nanotube Arrays as an Active Material for High Power Energy-Storage Devices. <i>Journal of the Electrochemical Society</i> , 2009, 156, A584.	2.9	62
90	Hybrid Perovskites: Effective Crystal Growth for Optoelectronic Applications. <i>Advanced Energy Materials</i> , 2017, 7, 1602596.	19.5	62

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91	Energy level alignment of dipolar interface layer in organic and hybrid perovskite solar cells. Journal of Materials Chemistry C, 2018, 6, 2915-2924.	5.5	62
92	Exciton and lattice dynamics in low-temperature processable CsPbBr <sub>3</sub> thin-films. Materials Today Energy, 2018, 7, 199-207.	4.7	62
93	Flexible Lamination Encapsulation. Advanced Materials, 2015, 27, 4308-4314.	21.0	61
94	N,Sâ€¢Induced Electronic States of Carbon Nanodots Toward White Electroluminescence. Advanced Optical Materials, 2016, 4, 276-284.	7.3	60
95	Universal high work function flexible anode for simplified ITO-free organic and perovskite light-emitting diodes with ultra-high efficiency. NPG Asia Materials, 2017, 9, e411-e411.	7.9	60
96	Rapid Fabrication of Designable Largeâ€¢Scale Aligned Graphene Nanoribbons by Electroâ€¢hydrodynamic Nanowire Lithography. Advanced Materials, 2014, 26, 3459-3464.	21.0	59
97	Elucidating the Crucial Role of Hole Injection Layer in Degradation of Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2015, 7, 3117-3125.	8.0	59
98	Polymer light-emitting devices using ionomers as an electron injecting and hole blocking layer. Journal of Applied Physics, 2001, 90, 2128-2134.	2.5	58
99	Fine Control of Perovskite Crystallization and Reducing Luminescence Quenching Using Selfâ€¢Doped Polyaniline Hole Injection Layer for Efficient Perovskite Lightâ€¢Emitting Diodes. Advanced Functional Materials, 2019, 29, 1807535.	14.9	58
100	Ultrashort laser pulse doubling by metal-halide perovskite multiple quantum wells. Nature Communications, 2020, 11, 3361.	12.8	57
101	Approaching ultimate flexible organic light-emitting diodes using a graphene anode. NPG Asia Materials, 2016, 8, e303-e303.	7.9	55
102	Nonâ€¢Volatile Ferroelectric Memory with Positionâ€¢Addressable Polymer Semiconducting Nanowire. Small, 2014, 10, 1976-1984.	10.0	54
103	Organic and perovskite memristors for neuromorphic computing. Organic Electronics, 2021, 98, 106301.	2.6	54
104	Effect of electrical annealing on the luminous efficiency of thermally annealed polymer light-emitting diodes. Applied Physics Letters, 2000, 77, 3334-3336.	3.3	53
105	Individually Positionâ€¢Addressable Metalâ€¢Nanofiber Electrodes for Largeâ€¢Area Electronics. Advanced Materials, 2014, 26, 8010-8016.	21.0	53
106	Characterizing the Efficiency of Perovskite Solar Cells and Light-Emitting Diodes. Joule, 2020, 4, 1206-1235.	24.0	53
107	Extremely Stable Luminescent Crosslinked Perovskite Nanoparticles under Harsh Environments over 1.5 Years. Advanced Materials, 2021, 33, e2005255.	21.0	53
108	Room-Temperature-Processable Wire-Templated Nanoelectrodes for Flexible and Transparent All-Wire Electronics. ACS Nano, 2017, 11, 3681-3689.	14.6	52



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109	Water Passivation of Perovskite Nanocrystals Enables Air-Stable Intrinsically Stretchable Color-Conversion Layers for Stretchable Displays. <i>Advanced Materials</i> , 2020, 32, e2001989.	21.0	51
110	Achieving Microstructure-Controlled Synaptic Plasticity and Long-Term Retention in Ion-Gel-Gated Organic Synaptic Transistors. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000012.	6.1	51
111	Extremely Bright Full Color Alternating Current Electroluminescence of Solution-Blended Fluorescent Polymers with Self-Assembled Block Copolymer Micelles. <i>ACS Nano</i> , 2013, 7, 10809-10817.	14.6	50
112	Electrospun polymer/quantum dot composite fibers as down conversion phosphor layers for white light-emitting diodes. <i>RSC Advances</i> , 2014, 4, 11585.	3.6	50
113	Polyaniline-Based Conducting Polymer Compositions with a High Work Function for Hole-Injection Layers in Organic Light-Emitting Diodes: Formation of Ohmic Contacts. <i>ChemSusChem</i> , 2011, 4, 363-368.	6.8	49
114	Device architecture for efficient, low-hysteresis flexible perovskite solar cells: Replacing TiO <sub>2</sub> with C60 assisted by polyethylenimine ethoxylated interfacial layers. <i>Solar Energy Materials and Solar Cells</i> , 2017, 161, 338-346.	6.2	49
115	High-efficiency polymer light-emitting devices using organic salts: A multilayer structure to improve light-emitting electrochemical cells. <i>Applied Physics Letters</i> , 2002, 81, 214-216.	3.3	46
116	On-Fabrication Solid-State N-Doping of Graphene by an Electron-Transporting Metal Oxide Layer for Efficient Inverted Organic Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1600172.	19.5	46
117	Engineering electrodes and metal halide perovskite materials for flexible/stretchable perovskite solar cells and light-emitting diodes. <i>Energy and Environmental Science</i> , 2021, 14, 2009-2035.	30.8	46
118	Controllable n-Type Doping on CVD-Grown Single- and Double-Layer Graphene Mixture. <i>Advanced Materials</i> , 2015, 27, 1619-1623.	21.0	43
119	Fabrication of high-quality single-crystal Cu thin films using radio-frequency sputtering. <i>Scientific Reports</i> , 2014, 4, 6230.	3.3	43
120	Flexible transparent electrodes for organic light-emitting diodes. <i>Journal of Information Display</i> , 2015, 16, 71-84.	4.0	43
121	Synergetic Influences of Mixed-Host Emitting Layer Structures and Hole Injection Layers on Efficiency and Lifetime of Simplified Phosphorescent Organic Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 6152-6163.	8.0	43
122	Wearable Bioelectronics: Opportunities for Chemistry. <i>Accounts of Chemical Research</i> , 2019, 52, 521-522.	15.6	43
123	Approaches Toward Efficient and Stable Electron Extraction Contact in Organic Photovoltaic Cells: Inspiration from Organic Light-Emitting Diodes. <i>Electronic Materials Letters</i> , 2010, 6, 41-50.	2.2	42
124	One-dimensional conjugated polymer nanomaterials for flexible and stretchable electronics. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3538-3550.	5.5	42
125	Novel Hyperbranched Phthalocyanine as a Hole Injection Nanolayer in Organic Light-Emitting Diodes. <i>Macromolecular Rapid Communications</i> , 2007, 28, 1657-1662.	3.9	41
126	High-efficiency polymer photovoltaic cells using a solution-processable insulating interfacial nanolayer: the role of the insulating nanolayer. <i>Journal of Materials Chemistry</i> , 2012, 22, 25148.	6.7	41



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127	A High Performance Nondoped Blue Organic Light-Emitting Device Based on a Diphenylfluoranthene-Substituted Fluorene Derivative. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6227-6230.	3.1	40
128	Humidity controlled crystallization of thin $\text{CH}_3\text{NH}_3\text{PbI}_3$ films for high performance perovskite solar cell. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016, 10, 381-387.	2.4	39
129	Highly Conductive Transparent and Flexible Electrodes Including Double-Stacked Thin Metal Films for Transparent Flexible Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 16343-16350.	8.0	39
130	Constructing inverse opal structured hematite photoanodes via electrochemical process and their application to photoelectrochemical water splitting. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11717.	2.8	38
131	An Easy Route to Red Emitting Homoleptic $\text{Ir}^{\text{III}}$ Complex for Highly Efficient Solution-Processed Phosphorescent Organic Light-Emitting Diodes. <i>Chemistry - A European Journal</i> , 2014, 20, 8260-8264.	3.3	38
132	Perovskite Emitters as a Platform Material for Down-Conversion Applications. <i>Advanced Materials Technologies</i> , 2020, 5, 2000091.	5.8	38
133	Study on a set of bis-cyclometalated $\text{Ir}(\text{III})$ complexes with a common ancillary ligand. <i>Dalton Transactions</i> , 2008, , 4732.	3.3	36
134	Value-added Synthesis of Graphene: Recycling Industrial Carbon Waste into Electrodes for High-Performance Electronic Devices. <i>Scientific Reports</i> , 2015, 5, 16710.	3.3	36
135	Metal Halide Perovskites: From Crystal Formations to Light-Emitting Diode Applications. <i>Small Methods</i> , 2018, 2, 1800093.	8.6	36
136	Direct-printed nanoscale metal-oxide-wire electronics. <i>Nano Energy</i> , 2019, 58, 437-446.	16.0	36
137	Inverse opal tungsten trioxide films with mesoporous skeletons: synthesis and photoelectrochemical responses. <i>Chemical Communications</i> , 2012, 48, 11939.	4.1	35
138	Simple, Inexpensive, and Rapid Approach to Fabricate Cross-Shaped Memristors Using an Inorganic Nanowire Digital Alignment Technique and a One-Step Reduction Process. <i>Advanced Materials</i> , 2016, 28, 527-532.	21.0	35
139	White polymer light-emitting devices from ternary-polymer blend with concentration gradient. <i>Chemical Physics Letters</i> , 2005, 403, 293-297.	2.6	34
140	Transparent flexible conductor of poly(methyl methacrylate) containing highly-dispersed multiwalled carbon nanotube. <i>Organic Electronics</i> , 2008, 9, 1-13.	2.6	34
141	Optimization of 3D Plasmonic Crystal Structures for Refractive Index Sensing. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10493-10499.	3.1	34
142	Flexible organic light-emitting diodes for solid-state lighting. <i>Journal of Photonics for Energy</i> , 2015, 5, 053599.	1.3	34
143	Low-threshold blue amplified spontaneous emission in a statistical copolymer and its blend. <i>Applied Physics Letters</i> , 2002, 81, 424-426.	3.3	33
144	Role of Ultrathin Metal Fluoride Layer in Organic Photovoltaic Cells: Mechanism of Efficiency and Lifetime Enhancement. <i>ChemSusChem</i> , 2014, 7, 1125-1132.	6.8	33

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145	Ligand-Assisted Sulfide Surface Treatment of CsPbI <sub>3</sub> Perovskite Quantum Dots to Increase Photoluminescence and Recovery. ACS Photonics, 2021, 8, 1979-1987.	6.6	33
146	Structural and Thermal Disorder of Solution-Processed CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> Hybrid Perovskite Thin Films. ACS Applied Materials & Interfaces, 2017, 9, 10344-10348.	8.0	32
147	White emission from a ternary polymer blend by incomplete cascade energy transfer. Synthetic Metals, 2001, 122, 437-441.	3.9	31
148	Highly Efficient Hybrid Inorganic-Organic Light-Emitting Diodes by using Air-Stable Metal Oxides and a Thick Emitting Layer. ChemSusChem, 2010, 3, 1021-1023.	6.8	31
149	Electroplated core-shell nanowire network electrodes for highly efficient organic light-emitting diodes. Nano Convergence, 2022, 9, 1.	12.1	31
150	Soft Embossing of Nanoscale Optical and Plasmonic Structures in Glass. ACS Nano, 2011, 5, 5763-5774.	14.6	30
151	Air-stable inverted structure of hybrid solar cells using a cesium-doped ZnO electron transport layer prepared by a sol-gel process. Journal of Materials Chemistry A, 2013, 1, 11802.	10.3	30
152	Recent Progress in Development of Wearable Pressure Sensors Derived from Biological Materials. Advanced Healthcare Materials, 2021, 10, e2100460.	7.6	30
153	A soluble self-doped conducting polyaniline graft copolymer as a hole injection layer in polymer light-emitting diodes. Polymer, 2007, 48, 7236-7240.	3.8	29
154	Understanding the Synergistic Effect of Device Architecture Design toward Efficient Perovskite Light-Emitting Diodes Using Interfacial Layer Engineering. Advanced Materials Interfaces, 2021, 8, 2001712.	3.7	29
155	A stable blue host material for organic light-emitting diodes. Applied Physics Letters, 2007, 91, .	3.3	28
156	Surface smoothness and conductivity control of vapor-phase polymerized poly(3,4-ethylenedioxythiophene) thin coating for flexible optoelectronic applications. Thin Solid Films, 2008, 516, 6020-6027.	1.8	28
157	Controlling Surface Enrichment in Polymeric Hole Extraction Layers to Achieve High-Efficiency Organic Photovoltaic Cells. ChemSusChem, 2012, 5, 2053-2057.	6.8	28
158	Ideal conducting polymer anode for perovskite light-emitting diodes by molecular interaction decoupling. Nano Energy, 2019, 60, 324-331.	16.0	28
159	Aromatic nonpolar organogels for efficient and stable perovskite green emitters. Nature Communications, 2020, 11, 4638.	12.8	28
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