## Tae-Woo Lee

List of Publications by Year in descending order

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TAF-MOOLFE

#	Article	IF	CITATIONS
1	Unraveling the origin of near-infrared emission in carbon dots by ultrafast spectroscopy. Carbon, 2022, 188, 229-237.	10.3	12
2	Electroplated core–shell nanowire network electrodes for highly efficient organic light-emitting diodes. Nano Convergence, 2022, 9, 1.	12.1	31
3	Mixed Solvent Engineering for Morphology Optimization of the Electron Transport Layer in Perovskite Photovoltaics. ACS Applied Energy Materials, 2022, 5, 387-396.	5.1	8
4	Exploiting the full advantages of colloidal perovskite nanocrystals for large-area efficient light-emitting diodes. Nature Nanotechnology, 2022, 17, 590-597.	31.5	81
5	Organic Artificial Nerve Electronics. , 2022, , 413-452.		0
6	Synthesis and characterization of homoleptic triply cyclometalated iridium(III) complex containing 6-(pyridin-2-yl)isoquinoline moiety for solution-processable orange-phosphorescent organic light-emitting diodes. Dyes and Pigments, 2021, 185, 108880.	3.7	10
7	Extremely Stable Luminescent Crosslinked Perovskite Nanoparticles under Harsh Environments over 1.5 Years. Advanced Materials, 2021, 33, e2005255.	21.0	53
8	Understanding the Synergistic Effect of Device Architecture Design toward Efficient Perovskite Lightâ€Emitting Diodes Using Interfacial Layer Engineering. Advanced Materials Interfaces, 2021, 8, 2001712.	3.7	29
9	Abnormal spatial heterogeneity governing the charge-carrier mechanism in efficient Ruddlesden–Popper perovskite solar cells. Energy and Environmental Science, 2021, 14, 4915-4925.	30.8	24
10	Comprehensive defect suppression in perovskite nanocrystals for high-efficiency light-emitting diodes. Nature Photonics, 2021, 15, 148-155.	31.4	590
11	Chiral polymer hosts for circularly polarized electroluminescence devices. Chemical Science, 2021, 12, 8668-8681.	7.4	28
12	Organic electronic synapses with low energy consumption. Joule, 2021, 5, 794-810.	24.0	79
13	Organic synaptic transistors for flexible and stretchable artificial sensory nerves. MRS Bulletin, 2021, 46, 321-329.	3.5	21
14	Tailoring the Structure of Lowâ€Dimensional Halide Perovskite through a Room Temperature Solution Process: Role of Ligands. Small Methods, 2021, 5, e2100054.	8.6	8
15	Supraâ€Binary Polarization in a Ferroelectric Nanowire. Advanced Materials, 2021, 33, e2101981.	21.0	4
16	Quantum-confinement effect on the linewidth broadening of metal halide perovskite-based quantum dots. Journal of Physics Condensed Matter, 2021, 33, .	1.8	4
17	Recent Progress in Development of Wearable Pressure Sensors Derived from Biological Materials. Advanced Healthcare Materials, 2021, 10, e2100460.	7.6	30
18	Energy Spotlight. ACS Energy Letters, 2021, 6, 2635-2637.	17.4	0

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19	Synergistic Molecular Engineering of Holeâ€Injecting Conducting Polymers Overcomes Luminescence Quenching in Perovskite Lightâ€Emitting Diodes. Advanced Optical Materials, 2021, 9, 2100646.	7.3	14
20	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
21	Characterization of stability and challenges to improve lifetime in perovskite LEDs. Nature Photonics, 2021, 15, 630-634.	31.4	101
22	Hydrogen-bonded cation-composition-engineered color-stable blue PeLEDs. Science Bulletin, 2021, 66, 2159-2161.	9.0	0
23	Organic and perovskite memristors for neuromorphic computing. Organic Electronics, 2021, 98, 106301.	2.6	54
24	Perovskite Nanoparticles: Extremely Stable Luminescent Crosslinked Perovskite Nanoparticles under Harsh Environments over 1.5 Years (Adv. Mater. 3/2021). Advanced Materials, 2021, 33, 2170017.	21.0	0
25	Engineering electrodes and metal halide perovskite materials for flexible/stretchable perovskite solar cells and light-emitting diodes. Energy and Environmental Science, 2021, 14, 2009-2035.	30.8	46
26	Chemically Robust Indium Tin Oxide/Graphene Anode for Efficient Perovskite Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2021, 13, 9074-9080.	8.0	6
27	Production of C, N Alternating 2D Materials Using Covalent Modification and Their Electroluminescence Performance. Small Science, 2021, 1, 2000042.	9.9	9
28	Flexible Neuromorphic Electronics for Computing, Soft Robotics, and Neuroprosthetics. Advanced Materials, 2020, 32, e1903558.	21.0	289
29	Importance of Interfacial Band Structure between the Substrate and Mn <sub>3</sub> O <sub>4</sub> Nanocatalysts during Electrochemical Water Oxidation. ACS Catalysis, 2020, 10, 1237-1245.	11.2	23
30	Ultrashort laser pulse doubling by metal-halide perovskite multiple quantum wells. Nature Communications, 2020, 11, 3361.	12.8	57
31	Suppressing ï€â€"ï€ stacking interactions for enhanced solid-state emission of flat aromatic molecules <i>via</i> edge functionalization with picket-fence-type groups. Journal of Materials Chemistry C, 2020, 8, 17289-17296.	5.5	16
32	Controllable deposition of organic metal halide perovskite films with wafer-scale uniformity by single source flash evaporation. Scientific Reports, 2020, 10, 18781.	3.3	6
33	Electroplated Silver–Nickel Core–Shell Nanowire Network Electrodes for Highly Efficient Perovskite Nanoparticle Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2020, 12, 39479-39486.	8.0	21
34	Water Passivation of Perovskite Nanocrystals Enables Air‣table Intrinsically Stretchable Colorâ€Conversion Layers for Stretchable Displays. Advanced Materials, 2020, 32, e2001989.	21.0	51
35	Achieving Microstructureâ€Controlled Synaptic Plasticity and Longâ€Term Retention in Ionâ€Gelâ€Gated Organic Synaptic Transistors. Advanced Intelligent Systems, 2020, 2, 2000012.	6.1	51
36	Aromatic nonpolar organogels for efficient and stable perovskite green emitters. Nature Communications, 2020, 11, 4638.	12.8	28

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37	Molecularâ€Scale Strategies to Achieve High Efficiency and Low Efficiency Rollâ€off in Simplified Solutionâ€Processed Organic Lightâ€Emitting Diodes. Advanced Functional Materials, 2020, 30, 2005292.	14.9	21
38	Production of Metalâ€Free C, N Alternating Nanoplatelets and Their In Vivo Fluorescence Imaging Performance without Labeling. Advanced Functional Materials, 2020, 30, 2004800.	14.9	5
39	Perovskite Emitters as a Platform Material for Downâ€Conversion Applications. Advanced Materials Technologies, 2020, 5, 2000091.	5.8	38
40	Display that bend and stretch: Some smartphones can now fold like a wallet. In a few years, you may wear one on your skin. IEEE Spectrum, 2020, 57, 24-29.	0.7	2
41	Effect of Interfacial Layers on the Device Lifetime of Perovskite Solar Cells. Small Methods, 2020, 4, 2000065.	8.6	22
42	All-Solution-Processed BiVO <sub>4</sub> /TiO <sub>2</sub> Photoanode with NiCo <sub>2</sub> O <sub>4</sub> Nanofiber Cocatalyst for Enhanced Solar Water Oxidation. ACS Applied Energy Materials, 2020, 3, 5646-5656.	5.1	23
43	Characterizing the Efficiency of Perovskite Solar Cells and Light-Emitting Diodes. Joule, 2020, 4, 1206-1235.	24.0	53
44	Photonic Synapses: Retinaâ€Inspired Carbon Nitrideâ€Based Photonic Synapses for Selective Detection of UV Light (Adv. Mater. 11/2020). Advanced Materials, 2020, 32, 2070080.	21.0	16
45	Proton-transfer-induced 3D/2D hybrid perovskites suppress ion migration and reduce luminance overshoot. Nature Communications, 2020, 11, 3378.	12.8	108
46	Enhancing photoluminescence quantum efficiency of metal halide perovskites by examining luminescence-limiting factors. APL Materials, 2020, 8, .	5.1	22
47	Retinaâ€Inspired Carbon Nitrideâ€Based Photonic Synapses for Selective Detection of UV Light. Advanced Materials, 2020, 32, e1906899.	21.0	222
48	A 2D Titanium Carbide MXene Flexible Electrode for Highâ€Efficiency Lightâ€Emitting Diodes. Advanced Materials, 2020, 32, e2000919.	21.0	122
49	Electroluminescence of Perovskite Nanocrystals with Ligand Engineering. Trends in Chemistry, 2020, 2, 837-849.	8.5	22
50	Performance analysis of magnetic gear with Halbach array for high power and high speed. International Journal of Applied Electromagnetics and Mechanics, 2020, 64, 959-967.	0.6	0
51	Degradation Protection of Color Dyes Encapsulated by Graphene Barrier Films. Chemistry of Materials, 2019, 31, 7173-7177.	6.7	10
52	Quasi Two-Dimensional Perovskites: Efficient Ruddlesden-Popper Perovskite Light-Emitting Diodes with Randomly Oriented Nanocrystals (Adv. Funct. Mater. 27/2019). Advanced Functional Materials, 2019, 29, 1970187.	14.9	6
53	Versatile neuromorphic electronics by modulating synaptic decay of single organic synaptic transistor: From artificial neural networks to neuro-prosthetics. Nano Energy, 2019, 65, 104035.	16.0	115
54	Low-dimensional iodide perovskite nanocrystals enable efficient red emission. Nanoscale, 2019, 11, 12793-12797.	5.6	13

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55	Pâ€110: Efficient Quantum Dot Lightâ€Emitting Diodes by Reducing Oxygen Vacancies of ZnO Nanoparticles with Recycling Process. Digest of Technical Papers SID International Symposium, 2019, 50, 1666-1668.	0.3	1
56	Boosting Efficiency in Polycrystalline Metal Halide Perovskite Light-Emitting Diodes. ACS Energy Letters, 2019, 4, 1134-1149.	17.4	68
5 <b>7</b>	Perovskites for Next-Generation Optical Sources. Chemical Reviews, 2019, 119, 7444-7477.	47.7	640
58	Organic Synapses for Neuromorphic Electronics: From Brain-Inspired Computing to Sensorimotor Nervetronics. Accounts of Chemical Research, 2019, 52, 964-974.	15.6	213
59	Wearable Bioelectronics: Opportunities for Chemistry. Accounts of Chemical Research, 2019, 52, 521-522.	15.6	43
60	Valueâ€Added Recycling of Inexpensive Carbon Sources to Graphene and Carbon Nanotubes. Advanced Sustainable Systems, 2019, 3, 1800016.	5.3	20
61	Dimensionality Dependent Plasticity in Halide Perovskite Artificial Synapses for Neuromorphic Computing. Advanced Electronic Materials, 2019, 5, 1900008.	5.1	109
62	Ideal conducting polymer anode for perovskite light-emitting diodes by molecular interaction decoupling. Nano Energy, 2019, 60, 324-331.	16.0	28
63	Flexible artificial synesthesia electronics with sound-synchronized electroluminescence. Nano Energy, 2019, 59, 773-783.	16.0	21
64	Efficient Ruddlesden–Popper Perovskite Lightâ€Emitting Diodes with Randomly Oriented Nanocrystals. Advanced Functional Materials, 2019, 29, 1901225.	14.9	95
65	Efficient Perovskite Lightâ€Emitting Diodes Using Polycrystalline Core–Shellâ€Mimicked Nanograins. Advanced Functional Materials, 2019, 29, 1902017.	14.9	76
66	Emerging Halide Perovskite Materials and Devices for Optoelectronics. Advanced Materials, 2019, 31, e1905077.	21.0	9
67	Perovskite LEDs: Strategies to Improve Luminescence Efficiency of Metalâ€Halide Perovskites and Lightâ€Emitting Diodes (Adv. Mater. 47/2019). Advanced Materials, 2019, 31, 1970335.	21.0	9
68	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
69	Strategies to Improve Luminescence Efficiency of Metalâ€Halide Perovskites and Lightâ€Emitting Diodes. Advanced Materials, 2019, 31, e1804595.	21.0	102
70	Strategies to Improve Electrical and Electronic Properties of PEDOT:PSS for Organic and Perovskite Optoelectronic Devices. Macromolecular Research, 2019, 27, 2-9.	2.4	21
71	Direct-printed nanoscale metal-oxide-wire electronics. Nano Energy, 2019, 58, 437-446.	16.0	36
72	High-Efficiency Polycrystalline Perovskite Light-Emitting Diodes Based on Mixed Cations. ACS Nano, 2018, 12, 2883-2892.	14.6	109

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73	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
74	Influence of A-site cation on the thermal stability of metal halide perovskite polycrystalline films. Journal of Information Display, 2018, 19, 53-60.	4.0	22
75	Improving the Stability of Metal Halide Perovskite Materials and Lightâ€Emitting Diodes. Advanced Materials, 2018, 30, e1704587.	21.0	368
76	Solution-Processed n-Type Graphene Doping for Cathode in Inverted Polymer Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2018, 10, 4874-4881.	8.0	24
77	Deformable Organic Nanowire Fieldâ€Effect Transistors. Advanced Materials, 2018, 30, 1704401.	21.0	82
78	Ultrasensitive artificial synapse based on conjugated polyelectrolyte. Nano Energy, 2018, 48, 575-581.	16.0	85
79	Ultra-High-Resolution Organic Light-Emitting Diodes with Color Conversion Electrode. ACS Photonics, 2018, 5, 1891-1897.	6.6	11
80	One-dimensional conjugated polymer nanomaterials for flexible and stretchable electronics. Journal of Materials Chemistry C, 2018, 6, 3538-3550.	5.5	42
81	Exciton and lattice dynamics in low-temperature processable CsPbBr3 thin-films. Materials Today Energy, 2018, 7, 199-207.	4.7	62
82	3D Printed Ion-Selective Field Effect Transistors. , 2018, , .		0
83	Stretchable organic optoelectronic sensorimotor synapse. Science Advances, 2018, 4, eaat7387.	10.3	359
84	Increased luminescent efficiency of perovskite light emitting diodes based on modified two-step deposition method providing gradient concentration. APL Materials, 2018, 6, 111101.	5.1	3
85	Highly Luminescent Organic Nanorods from Air Oxidation of <i>paraâ€</i> Substituted Anilines for Freestanding Deepâ€Red Color Filters. Advanced Optical Materials, 2018, 6, 1800577.	7.3	2
86	Nanosinusoidal Surface Zinc Oxide for Optical Out-coupling of Inverted Organic Light-Emitting Diodes. ACS Photonics, 2018, 5, 4061-4067.	6.6	15
87	Extremely stable graphene electrodes doped with macromolecular acid. Nature Communications, 2018, 9, 2037.	12.8	96
88	Color Purifying Optical Nanothin Film for Three Primary Colors in Optoelectronics. ACS Photonics, 2018, 5, 3322-3330.	6.6	21
89	A bioinspired flexible organic artificial afferent nerve. Science, 2018, 360, 998-1003.	12.6	982
90	Metal Halide Perovskites: From Crystal Formations to Lightâ€Emittingâ€Diode Applications. Small Methods, 2018, 2, 1800093.	8.6	36

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91	Nanometric Plasmonic Rulers Based on Orthogonal Plasmonic Gap Modes in Metal Nanoblocks. Applied Sciences (Switzerland), 2018, 8, 386.	2.5	1
92	Charge carrier recombination and ion migration in metal-halide perovskite nanoparticle films for efficient light-emitting diodes. Nano Energy, 2018, 52, 329-335.	16.0	64
93	Efficient Flexible Organic/Inorganic Hybrid Perovskite Lightâ€Emitting Diodes Based on Graphene Anode. Advanced Materials, 2017, 29, 1605587.	21.0	200
94	Largeâ€Scale Highly Aligned Nanowire Printing. Macromolecular Materials and Engineering, 2017, 302, 1600507.	3.6	22
95	Organic light emitting board for dynamic interactive display. Nature Communications, 2017, 8, 14964.	12.8	80
96	Highly Conductive Transparent and Flexible Electrodes Including Double-Stacked Thin Metal Films for Transparent Flexible Electronics. ACS Applied Materials & Interfaces, 2017, 9, 16343-16350.	8.0	39
97	Graphene-based flexible electronic devices. Materials Science and Engineering Reports, 2017, 118, 1-43.	31.8	194
98	Improvement of both efficiency and stability in organic photovoltaics by using water-soluble anionic conjugated polyelectrolyte interlayer. Materials Today Energy, 2017, 5, 66-71.	4.7	8
99	Pâ€127: Angle Insensitive Flexible Color Filter Electrodes. Digest of Technical Papers SID International Symposium, 2017, 48, 1738-1741.	0.3	2
100	Highly Efficient Light-Emitting Diodes of Colloidal Metal–Halide Perovskite Nanocrystals beyond Quantum Size. ACS Nano, 2017, 11, 6586-6593.	14.6	310
101	Hybrid Perovskites: Effective Crystal Growth for Optoelectronic Applications. Advanced Energy Materials, 2017, 7, 1602596.	19.5	62
102	Highâ€Efficiency Solutionâ€Processed Inorganic Metal Halide Perovskite Lightâ€Emitting Diodes. Advanced Materials, 2017, 29, 1700579.	21.0	193
103	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
104	Room-Temperature-Processable Wire-Templated Nanoelectrodes for Flexible and Transparent All-Wire Electronics. ACS Nano, 2017, 11, 3681-3689.	14.6	52
105	Direct growth of graphene-dielectric bi-layer structure on device substrates from Si-based polymer. 2D Materials, 2017, 4, 024001.	4.4	12
106	Device architecture for efficient, low-hysteresis flexible perovskite solar cells: Replacing TiO2 with C60 assisted by polyethylenimine ethoxylated interfacial layers. Solar Energy Materials and Solar Cells, 2017, 161, 338-346.	6.2	49
107	Large-scale metal nanoelectrode arrays based on printed nanowire lithography for nanowire complementary inverters. Nanoscale, 2017, 9, 15766-15772.	5.6	13
108	Unravelling additive-based nanocrystal pinning for high efficiency organic-inorganic halide perovskite light-emitting diodes. Nano Energy, 2017, 42, 157-165.	16.0	98

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109	A correlation between small-molecule dependent nanomorphology and device performance of organic light-emitting diodes with ternary blend emitting layers. Journal of Materials Chemistry C, 2017, 5, 9761-9769.	5.5	11
110	Polaronic Charge Carrier–Lattice Interactions in Lead Halide Perovskites. ChemSusChem, 2017, 10, 3705-3711.	6.8	18
111	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
112	Ultrapure Green Light-Emitting Diodes Using Two-Dimensional Formamidinium Perovskites: Achieving Recommendation 2020 Color Coordinates. Nano Letters, 2017, 17, 5277-5284.	9.1	221
113	Thermal effect analysis on crosstalk and performance of optoelectronic transmitter modules for optical interconnects. Optical and Quantum Electronics, 2017, 49, 1.	3.3	1
114	Interface-Engineered Charge-Transport Properties in Benzenedithiol Molecular Electronic Junctions via Chemically p-Doped Graphene Electrodes. ACS Applied Materials & Interfaces, 2017, 9, 42043-42049.	8.0	10
115	Design of full-duplex and multifunction bidirectional CMOS transceiver for optical interconnect applications. Optical and Quantum Electronics, 2017, 49, 1.	3.3	0
116	Conducting Polymers as Anode Buffer Materials in Organic and Perovskite Optoelectronics. Advanced Optical Materials, 2017, 5, 1600512.	7.3	63
117	Solution-processed electron-only tandem polymer light-emitting diodes for broad wavelength light emission. Journal of Materials Chemistry C, 2017, 5, 110-117.	5.5	20
118	A Metal-Insulator-Metal Deep Subwavelength Cavity Based on Cutoff Frequency Modulation. Applied Sciences (Switzerland), 2017, 7, 86.	2.5	8
119	Refractive index sensing and surface-enhanced Raman spectroscopy using silver–gold layered bimetallic plasmonic crystals. Beilstein Journal of Nanotechnology, 2017, 8, 2492-2503.	2.8	4
120	High efficiency perovskite light-emitting diodes of ligand-engineered colloidal formamidinium lead bromide nanoparticles. Nano Energy, 2017, 38, 51-58.	16.0	195
121	Low cross-talk, deep subwavelength plasmonic metal/insulator/metal waveguide intersections with broadband tunability. Photonics Research, 2016, 4, 272.	7.0	9
122	Efficient Visible Quasiâ€2D Perovskite Lightâ€Emitting Diodes. Advanced Materials, 2016, 28, 7515-7520.	21.0	554
123	Humidity controlled crystallization of thin CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> films for high performance perovskite solar cell. Physica Status Solidi - Rapid Research Letters, 2016, 10, 381-387.	2.4	39
124	Versatile pâ€Type Chemical Doping to Achieve Ideal Flexible Graphene Electrodes. Angewandte Chemie - International Edition, 2016, 55, 6197-6201.	13.8	78
125	Simple, Inexpensive, and Rapid Approach to Fabricate Crossâ€5haped Memristors Using an Inorganicâ€Nanowireâ€Digitalâ€Alignment Technique and a Oneâ€5tep Reduction Process. Advanced Materials, 2016, 28, 527-532.	21.0	35
126	Scalable Noninvasive Organic Fiber Lithography for Largeâ€Area Optoelectronics. Advanced Optical Materials, 2016, 4, 967-972.	7.3	13

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127	Versatile pâ€Type Chemical Doping to Achieve Ideal Flexible Graphene Electrodes. Angewandte Chemie, 2016, 128, 6305-6309.	2.0	8
128	Nanowires: Simple, Inexpensive, and Rapid Approach to Fabricate Crossâ€Shaped Memristors Using an Inorganicâ€Nanowireâ€Digitalâ€Alignment Technique and a Oneâ€Step Reduction Process (Adv. Mater. 3/2016). Advanced Materials, 2016, 28, 591-591.	21.0	0
129	Controlled surface oxidation of multi-layered graphene anode to increase hole injection efficiency in organic electronic devices. 2D Materials, 2016, 3, 014003.	4.4	12
130	A field-induced hole generation layer for high performance alternating current polymer electroluminescence and its application to extremely flexible devices. Journal of Materials Chemistry C, 2016, 4, 4434-4441.	5.5	17
131	Optical transceiver with in-chip temperature compensation module design and fabrication. Optical and Quantum Electronics, 2016, 48, 1.	3.3	0
132	Perovskite Lightâ€Emitting Diodes: Efficient Visible Quasiâ€2D Perovskite Lightâ€Emitting Diodes (Adv. Mater.) Tj	ETQq0 0	0.rgBT /Ove
133	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
134	Versatile Metal Nanowiring Platform for Large‣cale Nano―and Optoâ€Electronic Devices. Advanced Materials, 2016, 28, 9109-9116.	21.0	69
135	Approaching ultimate flexible organic light-emitting diodes using a graphene anode. NPG Asia Materials, 2016, 8, e303-e303.	7.9	55
136	Artificial Synapses: Organometal Halide Perovskite Artificial Synapses (Adv. Mater. 28/2016). Advanced Materials, 2016, 28, 6019-6019.	21.0	5
137	High Color-Purity Green, Orange, and Red Light-Emitting Diodes Based on Chemically Functionalized Graphene Quantum Dots. Scientific Reports, 2016, 6, 24205.	3.3	72
138	Synergetic electrode architecture for efficient graphene-based flexible organic light-emitting diodes. Nature Communications, 2016, 7, 11791.	12.8	163
139	Magnetic domains in H-mediated Zn0.9Co0.1O microdisk arrays. RSC Advances, 2016, 6, 57375-57379.	3.6	1
140	Ultrahigh-efficiency solution-processed simplified small-molecule organic light-emitting diodes using universal host materials. Science Advances, 2016, 2, e1601428.	10.3	122
141	Optoâ€Electronic Devices: Versatile Metal Nanowiring Platform for Largeâ€6cale Nano―and Optoâ€Electronic Devices (Adv. Mater. 41/2016). Advanced Materials, 2016, 28, 9232-9232.	21.0	2
142	Organic core-sheath nanowire artificial synapses with femtojoule energy consumption. Science Advances, 2016, 2, e1501326.	10.3	406
143	OLEDs: Scalable Noninvasive Organic Fiber Lithography for Large-Area Optoelectronics (Advanced) Tj ETQq1 1 0.7	'84314 rg 7.3	BT /Overloc
144	Highly Efficient, Simplified, Solutionâ€Processed Thermally Activated Delayedâ€Fluorescence Organic Lightâ€Emitting Diodes. Advanced Materials, 2016, 28, 734-741.	21.0	133

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145	Selfâ€Doped Conducting Polymer as a Holeâ€Extraction Layer in Organic–Inorganic Hybrid Perovskite Solar Cells. Advanced Materials Interfaces, 2016, 3, 1500678.	3.7	93
146	N,Sâ€Induced Electronic States of Carbon Nanodots Toward White Electroluminescence. Advanced Optical Materials, 2016, 4, 276-284.	7.3	60
147	Effects of thermal treatment on organic-inorganic hybrid perovskite films and luminous efficiency of light-emitting diodes. Current Applied Physics, 2016, 16, 1069-1074.	2.4	23
148	Laminated Graphene Films for Flexible Transparent Thin Film Encapsulation. ACS Applied Materials & Interfaces, 2016, 8, 14725-14731.	8.0	78
149	Organometal Halide Perovskite Artificial Synapses. Advanced Materials, 2016, 28, 5916-5922.	21.0	319
150	Onâ€Fabrication Solid‣tate Nâ€Doping of Graphene by an Electronâ€Transporting Metal Oxide Layer for Efficient Inverted Organic Solar Cells. Advanced Energy Materials, 2016, 6, 1600172.	19.5	46
151	Synergetic Influences of Mixed-Host Emitting Layer Structures and Hole Injection Layers on Efficiency and Lifetime of Simplified Phosphorescent Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2016, 8, 6152-6163.	8.0	43
152	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
153	Recent progress in fabrication techniques of graphene nanoribbons. Materials Horizons, 2016, 3, 186-207.	12.2	127
154	Design and analysis of a multichannel transceiver for high-speed optical interconnects. Optical and Quantum Electronics, 2016, 48, 1.	3.3	0
155	Planar heterojunction organometal halide perovskite solar cells: roles of interfacial layers. Energy and Environmental Science, 2016, 9, 12-30.	30.8	449
156	Improving the Efficiency of Flexible Organic Light-emitting Diodes via Alternating High- and Low-index Layers. , 2016, , .		1
157	Solar Cells: Planar CH3NH3PbI3Perovskite Solar Cells with Constant 17.2% Average Power Conversion Efficiency Irrespective of the Scan Rate (Adv. Mater. 22/2015). Advanced Materials, 2015, 27, 3464-3464.	21.0	3
158	Value-added Synthesis of Graphene: Recycling Industrial Carbon Waste into Electrodes for High-Performance Electronic Devices. Scientific Reports, 2015, 5, 16710.	3.3	36
159	Flexible Lamination Encapsulation. Advanced Materials, 2015, 27, 4308-4314.	21.0	61
160	Elucidating the Role of Conjugated Polyelectrolyte Interlayers for Highâ€Efficiency Organic Photovoltaics. ChemSusChem, 2015, 8, 3062-3068.	6.8	27
161	Silver-Based Nanoparticles for Surface Plasmon Resonance in Organic Optoelectronics. Particle and Particle Systems Characterization, 2015, 32, 164-175.	2.3	106
162	Dual-Function Metal–Insulator–Metal Plasmonic Optical Filter. IEEE Photonics Journal, 2015, 7, 1-8.	2.0	9

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163	B12-O-24 <i>In-situ</i> observation of temperature dependent nanomorphology-performance relations in emitting layer of OLEDs by TEM. Microscopy (Oxford, England), 2015, 64, i30.2-i30.	1.5	0
164	Spectral tuning of an add-drop filter by using double dielectric microdisks. , 2015, , .		0
165	Flexible Encapsulation: Flexible Lamination Encapsulation (Adv. Mater. 29/2015). Advanced Materials, 2015, 27, 4387-4387.	21.0	2
166	Three-dimensional plasmonic ruler based on silver metal blocks. , 2015, , .		0
167	Overcoming the electroluminescence efficiency limitations of perovskite light-emitting diodes. Science, 2015, 350, 1222-1225.	12.6	2,440
168	Lightâ€Emitting Diodes: Multicolored Organic/Inorganic Hybrid Perovskite Lightâ€Emitting Diodes (Adv.) Tj ETQo	0 0 0 rgB <sup>-</sup> 21.0 rgB <sup>-</sup>	[ /gverlock 1
169	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
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