

Nripan Mathews

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A Microfabricated Dual Slip-Pressure Sensor with Compliant Polymer-Liquid Metal Nanocomposite for Robotic Manipulation. <i>Soft Robotics</i> , 2022, 9, 509-517.	8.0	4
2	Soft Actuator Materials for Electrically Driven Haptic Interfaces. <i>Advanced Intelligent Systems</i> , 2022, 4, 2100061.	6.1	29
3	Advances and Potentials of NiO _x Surface Treatments for p ⁺ n Perovskite Solar Cells. <i>Solar Rrl</i> , 2022, 6, 2100700.	5.8	25
4	Halide Perovskite Solar Cells for Building Integrated Photovoltaics: Transforming Building Façades into Power Generators. <i>Advanced Materials</i> , 2022, 34, e2104661.	21.0	37
5	Low-temperature Atomic Layer Deposited Electron Transport Layers for Co-evaporated Perovskite Solar Cells. <i>Solar Rrl</i> , 2022, 6, 2100842.	5.8	16
6	Reversible Photochromism in 110° Oriented Layered Halide Perovskite. <i>ACS Nano</i> , 2022, 16, 2942-2952.	14.6	23
7	Tailoring the Energy Manifold of Quasi-two-dimensional Perovskites for Efficient Carrier Extraction. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	15
8	Alkali Additives Enable Efficient Large Area (>55 cm ²) Slot-die Coated Perovskite Solar Modules. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	39
9	Upcycling Silicon Photovoltaic Waste into Thermoelectrics. <i>Advanced Materials</i> , 2022, 34, e2110518.	21.0	25
10	Enhanced Thermal Stability of Planar Perovskite Solar Cells Through Triphenylphosphine Interface Passivation. <i>ChemSusChem</i> , 2022, , .	6.8	9
11	Advances and Potentials of NiO _x Surface Treatments for p ⁺ n Perovskite Solar Cells. <i>Solar Rrl</i> , 2022, 6, .	5.8	5
12	Inorganic electrochromic transistors as environmentally adaptable photodetectors. <i>Nano Energy</i> , 2022, 97, 107142.	16.0	14
13	Efficient bandgap widening in co-evaporated MAPbI ₃ perovskite. <i>Sustainable Energy and Fuels</i> , 2022, 6, 2428-2438.	4.9	8
14	Interfacial passivation with 4-chlorobenzene sulfonyl chloride for stable and efficient planar perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2022, 10, 9044-9051.	5.5	8
15	Upcycling Silicon Photovoltaic Waste into Thermoelectrics (Adv. Mater. 19/2022). <i>Advanced Materials</i> , 2022, 34, .	21.0	0
16	Defect Passivation Using a Phosphonic Acid Surface Modifier for Efficient RP Perovskite Blue-Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 34238-34246.	8.0	15
17	The Physics of Interlayer Exciton Delocalization in Ruddlesden-Popper Lead Halide Perovskites. <i>Nano Letters</i> , 2021, 21, 405-413.	9.1	22
18	Room temperature synthesis of low-dimensional rubidium copper halide colloidal nanocrystals with near unity photoluminescence quantum yield. <i>Nanoscale</i> , 2021, 13, 59-65.	5.6	20

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19	Toward Efficient and Stable Perovskite Photovoltaics with Fluorinated Phosphonate Salt Surface Passivation. <i>ACS Applied Energy Materials</i> , 2021, 4, 2716-2723.	5.1	8
20	Effects of All-Organic Interlayer Surface Modifiers on the Efficiency and Stability of Perovskite Solar Cells. <i>ChemSusChem</i> , 2021, 14, 1524-1533.	6.8	5
21	Excellent Intrinsic Long-Term Thermal Stability of Co-Evaporated MAPbI ₃ Solar Cells at 85 Å°C. <i>Advanced Functional Materials</i> , 2021, 31, 2100557.	14.9	36
22	Tunable Electroluminescence for Pure White Emission From a Perovskite-Based LED. <i>Advanced Electronic Materials</i> , 2021, 7, 2001227.	5.1	2
23	Precise Control of CsPbBr ₃ Perovskite Nanocrystal Growth at Room Temperature: Size Tunability and Synthetic Insights. <i>Chemistry of Materials</i> , 2021, 33, 2387-2397.	6.7	40
24	Diffusive and Drift Halide Perovskite Memristive Barristors as Nociceptive and Synaptic Emulators for Neuromorphic Computing. <i>Advanced Materials</i> , 2021, 33, 2007851.	21.0	83
25	Suppressing the Î-Phase and Photoinstability through a Hypophosphorous Acid Additive in Carbon-Based Mixed-Cation Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2021, 125, 6585-6592.	3.1	9
26	Formation of Corrugated $n = 1$ 2D Tin Iodide Perovskites and Their Use as Lead-Free Solar Absorbers. <i>ACS Nano</i> , 2021, 15, 6395-6409.	14.6	18
27	Adaptive Latent Inhibition in Associatively Responsive Optoelectronic Synapse. <i>Advanced Functional Materials</i> , 2021, 31, 2100807.	14.9	24
28	Co-Evaporated MAPbI ₃ : Excellent Intrinsic Long-Term Thermal Stability of Co-Evaporated MAPbI ₃ Solar Cells at 85 Å°C (Adv. Funct. Mater. 22/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170155.	14.9	0
29	Deterministic Light Yield, Fast Scintillation, and Microcolumn Structures in Lead Halide Perovskite Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2021, 125, 14082-14088.	3.1	25
30	Halide perovskite memristors as flexible and reconfigurable physical unclonable functions. <i>Nature Communications</i> , 2021, 12, 3681.	12.8	107
31	Co-Evaporated MAPbI ₃ with Graded Fermi Levels Enables Highly Performing, Scalable, and Flexible p-n Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2103252.	14.9	40
32	Unveiling the role of carbon black in printable mesoscopic perovskite solar cells. <i>Journal of Power Sources</i> , 2021, 501, 230019.	7.8	19
33	One-Pot Synthesis and Structural Evolution of Colloidal Cesium Lead Halide-Lead Sulfide Heterostructure Nanocrystals for Optoelectronic Applications. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9569-9578.	4.6	15
34	MXene incorporated polymeric hybrids for stiffness modulation in printed adaptive surfaces. <i>Nano Energy</i> , 2021, 90, 106548.	16.0	4
35	Inducing thermoreversible optical transitions in urethane-acrylate systems via ionic liquid incorporation for stretchable smart devices. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13615-13624.	10.3	11
36	Colorful Perovskite Solar Cells: Progress, Strategies, and Potentials. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1321-1329.	4.6	39

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37	Molecular design of two-dimensional perovskite cations for efficient energy cascade in perovskite light-emitting diodes. <i>Applied Physics Letters</i> , 2021, 119, 154101.	3.3	3
38	Synthesis of bismuth sulphoiodide thin films from single precursor solution. <i>Solar Energy</i> , 2021, 230, 714-720.	6.1	7
39	Additives in Halide Perovskite for Blue-Light-Emitting Diodes: Passivating Agents or Crystallization Modulators?. <i>ACS Energy Letters</i> , 2021, 6, 4265-4272.	17.4	24
40	Cubic NaSbS ₂ as an Ionic–Electronic Coupled Semiconductor for Switchable Photovoltaic and Neuromorphic Device Applications. <i>Advanced Materials</i> , 2020, 32, e1906976.	21.0	34
41	Perovskite nanostructures: Leveraging quantum effects to challenge optoelectronic limits. <i>Materials Today</i> , 2020, 33, 122-140.	14.2	26
42	Highly stable and efficient planar perovskite solar cells using ternary metal oxide electron transport layers. <i>Journal of Power Sources</i> , 2020, 448, 227362.	7.8	23
43	Inducing formation of a corrugated, white-light emitting 2D lead-bromide perovskite <i>via</i> subtle changes in templating cation. <i>Journal of Materials Chemistry C</i> , 2020, 8, 889-893.	5.5	40
44	Four-Terminal Perovskite on Silicon Tandem Solar Cells Optimal Measurement Schemes. <i>Energy Technology</i> , 2020, 8, 1901267.	3.8	13
45	Bifacial, Color-Tunable Semitransparent Perovskite Solar Cells for Building-Integrated Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 484-493.	8.0	80
46	Interlayer Engineering for Flexible Large-Area Planar Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 777-784.	5.1	13
47	Interfacial 2-hydroxybenzophenone passivation for highly efficient and stable perovskite solar cells. <i>Journal of Power Sources</i> , 2020, 475, 228665.	7.8	2
48	Design of Perovskite Thermally Co-Evaporated Highly Efficient Mini-Modules with High Geometrical Fill Factors. <i>Solar Rrl</i> , 2020, 4, 2000473.	5.8	29
49	Potassium Acetate-Based Treatment for Thermally Co-Evaporated Perovskite Solar Cells. <i>Coatings</i> , 2020, 10, 1163.	2.6	9
50	Investigating the structure–function relationship in triple cation perovskite nanocrystals for light-emitting diode applications. <i>Journal of Materials Chemistry C</i> , 2020, 8, 11805-11821.	5.5	27
51	Hybrid organic–inorganic halide perovskites for scaled-in neuromorphic devices. <i>MRS Bulletin</i> , 2020, 45, 641-648.	3.5	21
52	High- <i>k</i> , Ultrastretchable Self-Enclosed Ionic Liquid-Elastomer Composites for Soft Robotics and Flexible Electronics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37561-37570.	8.0	51
53	White Electroluminescence from Perovskite–Organic Heterojunction. <i>ACS Energy Letters</i> , 2020, 5, 2690-2697.	17.4	21
54	Disordered Polymer Antireflective Coating for Improved Perovskite Photovoltaics. <i>ACS Photonics</i> , 2020, 7, 1971-1977.	6.6	14

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55	Lead Halide Perovskite Nanocrystals: Room Temperature Syntheses toward Commercial Viability. <i>Advanced Energy Materials</i> , 2020, 10, 2001349.	19.5	63
56	Organic neuromorphic devices: Past, present, and future challenges. <i>MRS Bulletin</i> , 2020, 45, 619-630.	3.5	59
57	Self healable neuromorphic memristor elements for decentralized sensory signal processing in robotics. <i>Nature Communications</i> , 2020, 11, 4030.	12.8	63
58	Design of 2D Templating Molecules for Mixed-Dimensional Perovskite Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2020, 32, 8097-8105.	6.7	24
59	Realizing Reduced Imperfections via Quantum Dots Interdiffusion in High Efficiency Perovskite Solar Cells. <i>Advanced Materials</i> , 2020, 32, e2003296.	21.0	50
60	Halide Perovskite Quantum Dots Photosensitized Amorphous Oxide Transistors for Multimodal Synapses. <i>Advanced Materials Technologies</i> , 2020, 5, 2000514.	5.8	38
61	Enhanced stability and photovoltaic performance of planar perovskite solar cells through anilinium thiobenzoate interfacial engineering. <i>Journal of Power Sources</i> , 2020, 479, 228811.	7.8	9
62	Stabilizing the Electroluminescence of Halide Perovskites with Potassium Passivation. <i>ACS Energy Letters</i> , 2020, 5, 1804-1813.	17.4	41
63	Direct Band Gap Mixed-Valence Organic-Inorganic Gold Perovskite as Visible Light Absorbers. <i>Chemistry of Materials</i> , 2020, 32, 6318-6325.	6.7	24
64	Hybrid 2D [Pb(CH ₃ NH ₂) ₂] ₂ Coordination Polymer Precursor for Scalable Perovskite Deposition. <i>ACS Energy Letters</i> , 2020, 5, 2305-2312.	17.4	18
65	Directed Assembly of Liquid Metal-Elastomer Conductors for Stretchable and Self-Healing Electronics. <i>Advanced Materials</i> , 2020, 32, e2001642.	21.0	72
66	Enabling high performance n-type metal oxide semiconductors at low temperatures for thin film transistors. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1822-1844.	6.0	40
67	Hot Carriers in Halide Perovskites: How Hot Truly?. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2743-2750.	4.6	41
68	Energy band and optical modeling of charge transport mechanism and photo-distribution of MoO ₃ /Al-doped MoO ₃ in organic tandem cells. <i>Functional Materials Letters</i> , 2020, 13, 2051003.	1.2	3
69	Bilayer BaSnO ₃ thin film transistors on silicon substrates. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5231-5238.	5.5	3
70	Optogenetics inspired transition metal dichalcogenide neuristors for in-memory deep recurrent neural networks. <i>Nature Communications</i> , 2020, 11, 3211.	12.8	36
71	Efficient and stable planar perovskite solar cells using co-doped tin oxide as the electron transport layer. <i>Journal of Power Sources</i> , 2020, 471, 228443.	7.8	14
72	Forming-Less Compliance-Free Multistate Memristors as Synaptic Connections for Brain-Inspired Computing. <i>ACS Applied Electronic Materials</i> , 2020, 2, 817-826.	4.3	7

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73	Molecular Engineering of Pure 2D Lead-Iodide Perovskite Solar Absorbers Displaying Reduced Band Gaps and Dielectric Confinement. <i>ChemSusChem</i> , 2020, 13, 2693-2701.	6.8	14
74	Controlling the film structure by regulating 2D Ruddlesden-Popper perovskite formation enthalpy for efficient and stable tri-cation perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5874-5881.	10.3	23
75	Mixed-Dimensional Naphthylmethylammonium-Methylammonium Lead Iodide Perovskites with Improved Thermal Stability. <i>Scientific Reports</i> , 2020, 10, 429.	3.3	39
76	Cesium Lead Halide Perovskite Nanocrystals Prepared by Anion Exchange for Light-Emitting Diodes. <i>ACS Applied Nano Materials</i> , 2020, 3, 1766-1774.	5.0	30
77	Targeted Synthesis of Trimeric Organic-Bromoplumbate Hybrids That Display Intrinsic, Highly Stokes-Shifted, Broadband Emission. <i>Chemistry of Materials</i> , 2020, 32, 4431-4441.	6.7	25
78	Advances in Perovskite Optoelectronics: Bridging the Gap Between Laboratory and Fabrication. <i>Advanced Energy Materials</i> , 2020, 10, 2000393.	19.5	3
79	Metal Coordination Sphere Deformation Induced Highly Stokes-Shifted, Ultra Broadband Emission in 2D Hybrid Lead-Bromide Perovskites and Investigation of Its Origin. <i>Angewandte Chemie</i> , 2020, 132, 10883-10888.	2.0	7
80	Metal Coordination Sphere Deformation Induced Highly Stokes-Shifted, Ultra Broadband Emission in 2D Hybrid Lead-Bromide Perovskites and Investigation of Its Origin. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10791-10796.	13.8	42
81	Highly Efficient Thermally Co-evaporated Perovskite Solar Cells and Mini-modules. <i>Joule</i> , 2020, 4, 1035-1053.	24.0	257
82	Designing the Perovskite Structural Landscape for Efficient Blue Emission. <i>ACS Energy Letters</i> , 2020, 5, 1593-1600.	17.4	71
83	Broadband emission from zero-dimensional Cs ₄ PbI ₆ perovskite nanocrystals. <i>RSC Advances</i> , 2020, 10, 13431-13436.	3.6	31
84	Ultrafast long-range spin-funneling in solution-processed Ruddlesden-Popper halide perovskites. <i>Nature Communications</i> , 2019, 10, 3456.	12.8	38
85	Highly Efficient Semitransparent Perovskite Solar Cells for Four Terminal Perovskite-Silicon Tandems. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 34178-34187.	8.0	71
86	High-throughput Computational Study of Halide Double Perovskite Inorganic Compounds. <i>Chemistry of Materials</i> , 2019, 31, 5392-5401.	6.7	102
87	Cesium Oleate Passivation for Stable Perovskite Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27882-27889.	8.0	12
88	Perturbation-Induced Seeding and Crystallization of Hybrid Perovskites over Surface-Modified Substrates for Optoelectronic Devices. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27727-27734.	8.0	12
89	Heterogeneous electron transporting layer for reproducible, efficient and stable planar perovskite solar cells. <i>Journal of Power Sources</i> , 2019, 437, 226907.	7.8	7
90	Cesium Copper Iodide Tailored Nanoplates and Nanorods for Blue, Yellow, and White Emission. <i>Chemistry of Materials</i> , 2019, 31, 9003-9011.	6.7	111

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91	Indirect tail states formation by thermal-induced polar fluctuations in halide perovskites. Nature Communications, 2019, 10, 484.	12.8	88
92	Effects of energetics with {001} facet-dominant anatase TiO ₂ scaffold on electron transport in CH ₃ NH ₃ PbI ₃ perovskite solar cells. Electrochimica Acta, 2019, 300, 445-454.	5.2	16
93	Completely Solvent-free Protocols to Access Phase-Pure, Metastable Metal Halide Perovskites and Functional Photodetectors from the Precursor Salts. IScience, 2019, 16, 312-325.	4.1	80
94	Evolution of Perovskite Crystallization in Printed Mesoscopic Perovskite Solar Cells. Energy Technology, 2019, 7, 1900343.	3.8	21
95	Role of Water in Suppressing Recombination Pathways in CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 25474-25482.	8.0	33
96	Self-assembly of a robust hydrogen-bonded octylphosphonate network on cesium lead bromide perovskite nanocrystals for light-emitting diodes. Nanoscale, 2019, 11, 12370-12380.	5.6	67
97	Field-Driven Athermal Activation of Amorphous Metal Oxide Semiconductors for Flexible Programmable Logic Circuits and Neuromorphic Electronics. Small, 2019, 15, e1901457.	10.0	11
98	Improved photovoltaic performance of triple-cation mixed-halide perovskite solar cells with binary trivalent metals incorporated into the titanium dioxide electron transport layer. Journal of Materials Chemistry C, 2019, 7, 5028-5036.	5.5	36
99	Stable Sn ²⁺ doped FAPbI ₃ nanocrystals for near-infrared LEDs. Chemical Communications, 2019, 55, 5451-5454.	4.1	21
100	Localized Traps Limited Recombination in Lead Bromide Perovskites. Advanced Energy Materials, 2019, 9, 1803119.	19.5	28
101	Si photocathode with Ag-supported dendritic Cu catalyst for CO ₂ reduction. Energy and Environmental Science, 2019, 12, 1068-1077.	30.8	93
102	Cu-doped nickel oxide interface layer with nanoscale thickness for efficient and highly stable printable carbon-based perovskite solar cell. Solar Energy, 2019, 182, 225-236.	6.1	58
103	Small-area Passivated Contact monoPoly TM Silicon Solar Cells for Tandem Device Integration. , 2019, , .		2
104	Hot carrier extraction in CH ₃ NH ₃ PbI ₃ unveiled by pump-push-probe spectroscopy. Science Advances, 2019, 5, eaax3620.	10.3	56
105	Regulating Vertical Domain Distribution in Ruddlesden-Popper Perovskites for Electroluminescence Devices. Journal of Physical Chemistry Letters, 2019, 10, 7949-7955.	4.6	5
106	Perovskite Nanoparticles: Synthesis, Properties, and Novel Applications in Photovoltaics and LEDs. Small Methods, 2019, 3, 1800231.	8.6	77
107	Large-area, flexible, integrable and transparent DEAs for haptics. , 2019, , .		1
108	Precursor non-stoichiometry to enable improved CH ₃ NH ₃ PbBr ₃ nanocrystal LED performance. Physical Chemistry Chemical Physics, 2018, 20, 5918-5925.	2.8	6

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109	Crown Ethers Enable Room-Temperature Synthesis of CsPbBr ₃ Quantum Dots for Light-Emitting Diodes. ACS Energy Letters, 2018, 3, 526-531.	17.4	92
110	Perovskite templating <i>via</i> a bathophenanthroline additive for efficient light-emitting devices. Journal of Materials Chemistry C, 2018, 6, 2295-2302.	5.5	12
111	Limitations of Cs ₃ Bi ₂ I ₉ as Lead-Free Photovoltaic Absorber Materials. ACS Applied Materials & Interfaces, 2018, 10, 35000-35007.	8.0	133
112	One-Step Inkjet Printed Perovskite in Air for Efficient Light Harvesting. Solar Rrl, 2018, 2, 1700217.	5.8	90
113	Enhancing moisture tolerance in efficient hybrid 3D/2D perovskite photovoltaics. Journal of Materials Chemistry A, 2018, 6, 2122-2128.	10.3	163
114	Spinel Co ₃ O ₄ nanomaterials for efficient and stable large area carbon-based printed perovskite solar cells. Nanoscale, 2018, 10, 2341-2350.	5.6	106
115	Grain Size Modulation and Interfacial Engineering of CH ₃ NH ₃ PbBr ₃ Emitter Films through Incorporation of Tetraethylammonium Bromide. ChemPhysChem, 2018, 19, 1075-1080.	2.1	13
116	Synergistic Gating of Electro-Photoactive 2D Chalcogenide Neuristors: Coexistence of Hebbian and Homeostatic Synaptic Metaplasticity. Advanced Materials, 2018, 30, e1800220.	21.0	261
117	Enhanced Exciton and Photon Confinement in Ruddlesden-Popper Perovskite Microplatelets for Highly Stable Low-Threshold Polarized Lasing. Advanced Materials, 2018, 30, e1707235.	21.0	101
118	Extended Absorption Window and Improved Stability of Cesium-Based Triple-Cation Perovskite Solar Cells Passivated with Perfluorinated Organics. ACS Energy Letters, 2018, 3, 1068-1076.	17.4	44
119	Additive Selection Strategy for High Performance Perovskite Photovoltaics. Journal of Physical Chemistry C, 2018, 122, 13884-13893.	3.1	71
120	Self-assembled hierarchical nanostructured perovskites enable highly efficient LEDs <i>via</i> an energy cascade. Energy and Environmental Science, 2018, 11, 1770-1778.	30.8	135
121	Influence of size and shape of sub-micrometer light scattering centers in ZnO-assisted TiO ₂ photoanode for dye-sensitized solar cells. Physica B: Condensed Matter, 2018, 532, 225-229.	2.7	11
122	Effect of Cation Composition on the Mechanical Stability of Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1702116.	19.5	130
123	Highly Transparent and Integrable Surface Texture Change Device for Localized Tactile Feedback. Small, 2018, 14, 1702312.	10.0	31
124	A rapid low temperature self-healable polymeric composite for flexible electronic devices. Journal of Materials Chemistry A, 2018, 6, 21428-21434.	10.3	26
125	Solution grown double heterostructure on a large hybrid halide perovskite crystal. CrystEngComm, 2018, 20, 6653-6661.	2.6	4
126	Highly Efficient Perovskite Solar Cells with Ba(OH) ₂ Interface Modification of Mesoporous TiO ₂ Electron Transport Layer. ACS Applied Energy Materials, 2018, 1, 5847-5852.	5.1	12

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127	Carrier cascade: Enabling high performance perovskite light-emitting diodes (PeLEDs). <i>Current Opinion in Electrochemistry</i> , 2018, 11, 91-97.	4.8	8
128	Low threshold and efficient multiple exciton generation in halide perovskite nanocrystals. <i>Nature Communications</i> , 2018, 9, 4197.	12.8	110
129	Ultralow Power Dual-Gated Subthreshold Oxide Neuristors: An Enabler for Higher Order Neuronal Temporal Correlations. <i>ACS Nano</i> , 2018, 12, 11263-11273.	14.6	70
130	Superior Performance of Silver Bismuth Iodide Photovoltaics Fabricated via Dynamic Hot-Casting Method under Ambient Conditions. <i>Advanced Energy Materials</i> , 2018, 8, 1802051.	19.5	84
131	Ionotronic Halide Perovskite Drift-Diffusive Synapses for Low-Power Neuromorphic Computation. <i>Advanced Materials</i> , 2018, 30, e1805454.	21.0	146
132	Recovery of Shallow Charge-Trapping Defects in CsPbX ₃ Nanocrystals through Specific Binding and Encapsulation with Amino-Functionalized Silanes. <i>ACS Energy Letters</i> , 2018, 3, 1409-1414.	17.4	60
133	Nitrogen doped cuprous oxide as low cost hole-transporting material for perovskite solar cells. <i>Scripta Materialia</i> , 2018, 153, 104-108.	5.2	16
134	Novel Plasma-Assisted Low-Temperature-Processed SnO ₂ Thin Films for Efficient Flexible Perovskite Photovoltaics. <i>ACS Energy Letters</i> , 2018, 3, 1482-1491.	17.4	75
135	Inducing Isotropic Growth in Multidimensional Cesium Lead Halide Perovskite Nanocrystals. <i>ChemPlusChem</i> , 2018, 83, 514-520.	2.8	11
136	Doping and Switchable Photovoltaic Effect in Lead-Free Perovskites Enabled by Metal Cation Transmutation. <i>Advanced Materials</i> , 2018, 30, e1802080.	21.0	30
137	Bistable Amphoteric Native Defect Model of Perovskite Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3878-3885.	4.6	12
138	Designing Efficient Energy Funneling Kinetics in Ruddlesden-Popper Perovskites for High-Performance Light-Emitting Diodes. <i>Advanced Materials</i> , 2018, 30, e1800818.	21.0	85
139	Coherent Spin and Quasiparticle Dynamics in Solution-Processed Layered 2D Lead Halide Perovskites. <i>Advanced Science</i> , 2018, 5, 1800664.	11.2	66
140	Indium Tungsten Oxide Thin Films for Flexible High-Performance Transistors and Neuromorphic Electronics. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30506-30513.	8.0	38
141	Over 20% Efficient CIGS-Perovskite Tandem Solar Cells. <i>ACS Energy Letters</i> , 2017, 2, 807-812.	17.4	135
142	Slow cooling and highly efficient extraction of hot carriers in colloidal perovskite nanocrystals. <i>Nature Communications</i> , 2017, 8, 14350.	12.8	282
143	Polaron self-localization in white-light emitting hybrid perovskites. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2771-2780.	5.5	196
144	Rational Design: A High-Throughput Computational Screening and Experimental Validation Methodology for Lead-Free and Emergent Hybrid Perovskites. <i>ACS Energy Letters</i> , 2017, 2, 837-845.	17.4	187

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145	Surface texture change on-demand and microfluidic devices based on thickness mode actuation of dielectric elastomer actuators (DEAs)., 2017, , .		0
146	Transparent Flexible Multifunctional Nanostructured Architectures for Non-optical Readout, Proximity, and Pressure Sensing. ACS Applied Materials & Interfaces, 2017, 9, 15015-15021.	8.0	58
147	Temperature and Electrical Poling Effects on Ionic Motion in MAPbI ₃ Photovoltaic Cells. Advanced Energy Materials, 2017, 7, 1700265.	19.5	26
148	Giant five-photon absorption from multidimensional core-shell halide perovskite colloidal nanocrystals. Nature Communications, 2017, 8, 15198.	12.8	177
149	Rapid Crystallization of All-Inorganic CsPbBr ₃ Perovskite for High-Brightness Light-Emitting Diodes. ACS Omega, 2017, 2, 2757-2764.	3.5	28
150	Facile Method to Reduce Surface Defects and Trap Densities in Perovskite Photovoltaics. ACS Applied Materials & Interfaces, 2017, 9, 21292-21297.	8.0	71
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309	Low dimensional organic metal-halide hybrids: molecular design & optoelectronic properties. , 0, , .		0
310	Ionic, opto-electronic properties of halide perovskites for neuromorphic applications. , 0, , .		0