List of Publications by Year in descending order

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		1883	2171
318	44,096	102	202
papers	citations	h-index	g-index
327	327	327	34148
all docs	docs citations	times ranked	citing authors

HAIRO ZENIC

#	Article	IF	CITATIONS
1	Quantum Dot Lightâ€Emitting Diodes Based on Inorganic Perovskite Cesium Lead Halides (CsPbX <sub>3</sub> ). Advanced Materials, 2015, 27, 7162-7167.	11.1	2,457
2	CsPbX <sub>3</sub> Quantum Dots for Lighting and Displays: Roomâ€Temperature Synthesis, Photoluminescence Superiorities, Underlying Origins and White Lightâ€Emitting Diodes. Advanced Functional Materials, 2016, 26, 2435-2445.	7.8	2,055
3	Blue Luminescence of ZnO Nanoparticles Based on Nonâ€Equilibrium Processes: Defect Origins and Emission Controls. Advanced Functional Materials, 2010, 20, 561-572.	7.8	1,540
4	Atomically Thin Arsenene and Antimonene: Semimetal–Semiconductor and Indirect–Direct Bandâ€Gap Transitions. Angewandte Chemie - International Edition, 2015, 54, 3112-3115.	7.2	1,211
5	Allâ€Inorganic Colloidal Perovskite Quantum Dots: A New Class of Lasing Materials with Favorable Characteristics. Advanced Materials, 2015, 27, 7101-7108.	11.1	1,095
6	Carbon and Graphene Quantum Dots for Optoelectronic and Energy Devices: A Review. Advanced Functional Materials, 2015, 25, 4929-4947.	7.8	1,072
7	50â€Fold EQE Improvement up to 6.27% of Solutionâ€Processed Allâ€Inorganic Perovskite CsPbBr <sub>3</sub> QLEDs via Surface Ligand Density Control. Advanced Materials, 2017, 29, 1603885.	11.1	982
8	Two-dimensional antimonene single crystals grown by van der Waals epitaxy. Nature Communications, 2016, 7, 13352.	5.8	798
9	Nanomaterials via Laser Ablation/Irradiation in Liquid: A Review. Advanced Functional Materials, 2012, 22, 1333-1353.	7.8	775
10	"White Graphenes― Boron Nitride Nanoribbons via Boron Nitride Nanotube Unwrapping. Nano Letters, 2010, 10, 5049-5055.	4.5	723
11	Stabilizing Cesium Lead Halide Perovskite Lattice through Mn(II) Substitution for Air-Stable Light-Emitting Diodes. Journal of the American Chemical Society, 2017, 139, 11443-11450.	6.6	705
12	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	7.3	705
13	Recent progress in 2D group-VA semiconductors: from theory to experiment. Chemical Society Reviews, 2018, 47, 982-1021.	18.7	697
14	Semiconducting Groupâ€15 Monolayers: A Broad Range of Band Gaps and High Carrier Mobilities. Angewandte Chemie - International Edition, 2016, 55, 1666-1669.	7.2	651
15	Monolayer and Fewâ€Layer Allâ€Inorganic Perovskites as a New Family of Twoâ€Dimensional Semiconductors for Printable Optoelectronic Devices. Advanced Materials, 2016, 28, 4861-4869.	11.1	614
16	Toward Efficient Orange Emissive Carbon Nanodots through Conjugated sp <sup>2</sup> â€Domain Controlling and Surface Charges Engineering. Advanced Materials, 2016, 28, 3516-3521.	11.1	583
17	Engineering surface states of carbon dots to achieve controllable luminescence for solid-luminescent composites and sensitive Be2+ detection. Scientific Reports, 2014, 4, .	1.6	544
18	All Inorganic Halide Perovskites Nanosystem: Synthesis, Structural Features, Optical Properties and Optoelectronic Applications. Small, 2017, 13, 1603996.	5.2	537

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19	ZnO-Based Hollow Nanoparticles by Selective Etching: Elimination and Reconstruction of Metalâ^'Semiconductor Interface, Improvement of Blue Emission and Photocatalysis. ACS Nano, 2008, 2, 1661-1670.	7.3	530
20	Nonlinear Absorption and Low-Threshold Multiphoton Pumped Stimulated Emission from All-Inorganic Perovskite Nanocrystals. Nano Letters, 2016, 16, 448-453.	4.5	494
21	A Comprehensive Review of One-Dimensional Metal-Oxide Nanostructure Photodetectors. Sensors, 2009, 9, 6504-6529.	2.1	491
22	Roomâ€Temperature Tripleâ€Ligand Surface Engineering Synergistically Boosts Ink Stability, Recombination Dynamics, and Charge Injection toward EQEâ€11.6% Perovskite QLEDs. Advanced Materials, 2018, 30, e1800764.	11.1	431
23	Organic–Inorganic Hybrid Passivation Enables Perovskite QLEDs with an EQE of 16.48%. Advanced Materials, 2018, 30, e1805409.	11.1	409
24	In Situ Passivation of PbBr <sub>6</sub> <sup>4–</sup> Octahedra toward Blue Luminescent CsPbBr <sub>3</sub> Nanoplatelets with Near 100% Absolute Quantum Yield. ACS Energy Letters, 2018, 3, 2030-2037.	8.8	402
25	Atomically Thin Arsenene and Antimonene: Semimetal–Semiconductor and Indirect–Direct Bandâ€Gap Transitions. Angewandte Chemie, 2015, 127, 3155-3158.	1.6	397
26	From unstable CsSnI3 to air-stable Cs2SnI6: A lead-free perovskite solar cell light absorber with bandgap of 1.48 eV and high absorption coefficient. Solar Energy Materials and Solar Cells, 2017, 159, 227-234.	3.0	388
27	Composition/Structural Evolution and Optical Properties of ZnO/Zn Nanoparticles by Laser Ablation in Liquid Media. Journal of Physical Chemistry B, 2005, 109, 18260-18266.	1.2	353
28	CsPbBr <sub>3</sub> Quantum Dots 2.0: Benzenesulfonic Acid Equivalent Ligand Awakens Complete Purification. Advanced Materials, 2019, 31, e1900767.	11.1	329
29	Two-dimensional semiconductors: recent progress and future perspectives. Journal of Materials Chemistry C, 2013, 1, 2952.	2.7	317
30	Semiconducting Groupâ€15 Monolayers: A Broad Range of Band Gaps and High Carrier Mobilities. Angewandte Chemie, 2016, 128, 1698-1701.	1.6	315
31	Improving Allâ€Inorganic Perovskite Photodetectors by Preferred Orientation and Plasmonic Effect. Small, 2016, 12, 5622-5632.	5.2	314
32	ZnO and ZnS Nanostructures: Ultraviolet-Light Emitters, Lasers, and Sensors. Critical Reviews in Solid State and Materials Sciences, 2009, 34, 190-223.	6.8	306
33	2D Vâ€V Binary Materials: Status and Challenges. Advanced Materials, 2019, 31, e1902352.	11.1	303
34	Temperature-dependent shifts of three emission bands for ZnO nanoneedle arrays. Applied Physics Letters, 2006, 88, 161101.	1.5	296
35	Healing Allâ€Inorganic Perovskite Films via Recyclable Dissolution–Recyrstallization for Compact and Smooth Carrier Channels of Optoelectronic Devices with High Stability. Advanced Functional Materials, 2016, 26, 5903-5912.	7.8	296
36	Constructing Fast Carrier Tracks into Flexible Perovskite Photodetectors To Greatly Improve Responsivity. ACS Nano, 2017, 11, 2015-2023.	7.3	274

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37	2D materials via liquid exfoliation: a review on fabrication and applications. Science Bulletin, 2015, 60, 1994-2008.	4.3	270
38	Aminoâ€Mediated Anchoring Perovskite Quantum Dots for Stable and Lowâ€Threshold Random Lasing. Advanced Materials, 2017, 29, 1701185.	11.1	269
39	Superstable Transparent Conductive Cu@Cu <sub>4</sub> Ni Nanowire Elastomer Composites against Oxidation, Bending, Stretching, and Twisting for Flexible and Stretchable Optoelectronics. Nano Letters, 2014, 14, 6298-6305.	4.5	262
40	Antimonene Oxides: Emerging Tunable Direct Bandgap Semiconductor and Novel Topological Insulator. Nano Letters, 2017, 17, 3434-3440.	4.5	250
41	Broadband Nonlinear Photoresponse of 2D TiS <sub>2</sub> for Ultrashort Pulse Generation and Allâ€Optical Thresholding Devices. Advanced Optical Materials, 2018, 6, 1701166.	3.6	248
42	Cu–N Dopants Boost Electron Transfer and Photooxidation Reactions of Carbon Dots. Angewandte Chemie - International Edition, 2015, 54, 6540-6544.	7.2	244
43	Ultralarge Allâ€Inorganic Perovskite Bulk Single Crystal for Highâ€Performance Visible–Infrared Dualâ€Modal Photodetectors. Advanced Optical Materials, 2017, 5, 1700157.	3.6	244
44	Solutionâ€Processed Low Threshold Vertical Cavity Surface Emitting Lasers from Allâ€Inorganic Perovskite Nanocrystals. Advanced Functional Materials, 2017, 27, 1605088.	7.8	242
45	Intercrossed Carbon Nanorings with Pure Surface States as Lowâ€Cost and Environmentâ€Friendly Phosphors for Whiteâ€Lightâ€Emitting Diodes. Angewandte Chemie - International Edition, 2015, 54, 1759-1764.	7.2	238
46	Two-Dimensional, Porous Nickel–Cobalt Sulfide for High-Performance Asymmetric Supercapacitors. ACS Applied Materials & Interfaces, 2015, 7, 19316-19323.	4.0	234
47	Double-Protected All-Inorganic Perovskite Nanocrystals by Crystalline Matrix and Silica for Triple-Modal Anti-Counterfeiting Codes. ACS Applied Materials & Interfaces, 2017, 9, 26556-26564.	4.0	232
48	Efficient and bright white light-emitting diodes based on single-layer heterophase halide perovskites. Nature Photonics, 2021, 15, 238-244.	15.6	231
49	Surface Chemistry of All Inorganic Halide Perovskite Nanocrystals: Passivation Mechanism and Stability. Advanced Materials Interfaces, 2018, 5, 1701662.	1.9	230
50	Template Deformationâ€Tailored ZnO Nanorod/Nanowire Arrays: Full Growth Control and Optimization of Fieldâ€Emission. Advanced Functional Materials, 2009, 19, 3165-3172.	7.8	224
51	Black phosphorene as a hole extraction layer boosting solar water splitting of oxygen evolution catalysts. Nature Communications, 2019, 10, 2001.	5.8	222
52	"Chemical Blowing―of Thinâ€Walled Bubbles: Highâ€Throughput Fabrication of Largeâ€Area, Few‣ayere and C <i><sub>x</sub></i> â€BN Nanosheets. Advanced Materials, 2011, 23, 4072-4076.	d BN 11.1	217
53	A promising two-dimensional solar cell donor: Black arsenic–phosphorus monolayer with 1.54 eV direct bandgap and mobility exceeding 14,000 cm2Vâ^'1sâ^'1. Nano Energy, 2016, 28, 433-439.	8.2	212
54	Nonlinear Saturable Absorption of Liquidâ€Exfoliated Molybdenum/Tungsten Ditelluride Nanosheets. Small, 2016, 12, 1489-1497.	5.2	211

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55	Violet photoluminescence from shell layer of Znâ^•ZnO core-shell nanoparticles induced by laser ablation. Applied Physics Letters, 2006, 88, 171910.	1.5	209
56	High Performance Metal Halide Perovskite Lightâ€Emitting Diode: From Material Design to Device Optimization. Small, 2017, 13, 1701770.	5.2	209
57	Boosting Two-Dimensional MoS <sub>2</sub> /CsPbBr <sub>3</sub> Photodetectors via Enhanced Light Absorbance and Interfacial Carrier Separation. ACS Applied Materials & Interfaces, 2018, 10, 2801-2809.	4.0	207
58	Shining Emitter in a Stable Host: Design of Halide Perovskite Scintillators for X-ray Imaging from Commercial Concept. ACS Nano, 2020, 14, 5183-5193.	7.3	205
59	A bilateral interfacial passivation strategy promoting efficiency and stability of perovskite quantum dot light-emitting diodes. Nature Communications, 2020, 11, 3902.	5.8	204
60	Controlled Synthesis of Ultrathin 2D βâ€In <sub>2</sub> S <sub>3</sub> with Broadband Photoresponse by Chemical Vapor Deposition. Advanced Functional Materials, 2017, 27, 1702448.	7.8	194
61	Monolayer MoS <sub>2</sub> –Graphene Hybrid Aerogels with Controllable Porosity for Lithium-Ion Batteries with High Reversible Capacity. ACS Applied Materials & Interfaces, 2016, 8, 2680-2687.	4.0	191
62	WS_2 saturable absorber for dissipative soliton mode locking at 106 and 155 µm. Optics Express, 2015, 23, 27509.	1.7	187
63	Morphology-Dependent Stimulated Emission and Field Emission of Ordered CdS Nanostructure Arrays. ACS Nano, 2009, 3, 949-959.	7.3	185
64	Narrowband Perovskite Photodetector-Based Image Array for Potential Application in Artificial Vision. Nano Letters, 2018, 18, 7628-7634.	4.5	180
65	Integrating large specific surface area and high conductivity in hydrogenated NiCo2O4 double-shell hollow spheres to improve supercapacitors. NPG Asia Materials, 2015, 7, e165-e165.	3.8	177
66	Few-Layer Antimonene: Anisotropic Expansion and Reversible Crystalline-Phase Evolution Enable Large-Capacity and Long-Life Na-Ion Batteries. ACS Nano, 2018, 12, 1887-1893.	7.3	175
67	Progress of Carbon Quantum Dots in Photocatalysis Applications. Particle and Particle Systems Characterization, 2016, 33, 457-472.	1.2	172
68	Energy Manipulation in Lanthanideâ€Doped Core–Shell Nanoparticles for Tunable Dualâ€Mode Luminescence toward Advanced Antiâ€Counterfeiting. Advanced Materials, 2020, 32, e2002121.	11.1	165
69	Lateral black phosphorene P–N junctions formed via chemical doping for high performance near-infrared photodetector. Nano Energy, 2016, 25, 34-41.	8.2	162
70	Controllable Pt/ZnO Porous Nanocages with Improved Photocatalytic Activity. Journal of Physical Chemistry C, 2008, 112, 19620-19624.	1.5	157
71	Polystyrene sphere-assisted one-dimensional nanostructure arrays: synthesis and applications. Journal of Materials Chemistry, 2011, 21, 40-56.	6.7	151
72	Optimizing Hybridization of 1T and 2H Phases in MoS <sub>2</sub> Monolayers to Improve Capacitances of Supercapacitors. Materials Research Letters, 2015, 3, 177-183.	4.1	149

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73	All-inorganic quantum-dot light-emitting diodes based on perovskite emitters with low turn-on voltage and high humidity stability. Journal of Materials Chemistry C, 2017, 5, 4565-4570.	2.7	149
74	Enhanced photocatalytic activity of hierarchical ZnO nanoplate-nanowire architecture as environmentally safe and facilely recyclable photocatalyst. Nanoscale, 2011, 3, 5020.	2.8	148
75	GeSe monolayer semiconductor with tunable direct band gap and small carrier effective mass. Applied Physics Letters, 2015, 107, .	1.5	148
76	Remedying Defects in Carbon Nitride To Improve both Photooxidation and H <sub>2</sub> Generation Efficiencies. ACS Catalysis, 2016, 6, 3365-3371.	5.5	148
77	Highly Efficient Carbon Dots with Reversibly Switchable Green–Red Emissions for Trichromatic White Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2018, 10, 16005-16014.	4.0	147
78	Microstructure Control of Zn/ZnO Core/Shell Nanoparticles and Their Temperature-Dependent Blue Emissions. Journal of Physical Chemistry B, 2007, 111, 14311-14317.	1.2	143
79	Recent progress of metal halide perovskite photodetectors. Journal of Materials Chemistry C, 2017, 5, 11369-11394.	2.7	138
80	Surface Halogen Compensation for Robust Performance Enhancements of CsPbX <sub>3</sub> Perovskite Quantum Dots. Advanced Optical Materials, 2019, 7, 1900276.	3.6	138
81	Advances of 2D bismuth in energy sciences. Chemical Society Reviews, 2020, 49, 263-285.	18.7	138
82	Hydrogenated arsenenes as planar magnet and Dirac material. Applied Physics Letters, 2015, 107, .	1.5	137
83	Transparent Electrodes Printed with Nanocrystal Inks for Flexible Smart Devices. Angewandte Chemie - International Edition, 2015, 54, 9760-9774.	7.2	135
84	Solutionâ€Grown CsPbBr <sub>3</sub> /Cs <sub>4</sub> PbBr <sub>6</sub> Perovskite Nanocomposites: Toward Temperatureâ€Insensitive Optical Gain. Small, 2017, 13, 1701587.	5.2	134
85	Capping CsPbBr3 with ZnO to improve performance and stability of perovskite memristors. Nano Research, 2017, 10, 1584-1594.	5.8	134
86	Photon Driven Transformation of Cesium Lead Halide Perovskites from Fewâ€Monolayer Nanoplatelets to Bulk Phase. Advanced Materials, 2016, 28, 10637-10643.	11.1	130
87	Highly Luminescent and Stable Halide Perovskite Nanocrystals. ACS Energy Letters, 2019, 4, 673-681.	8.8	129
88	Ultrathin Bismuth Nanosheets for Stable Na-Ion Batteries: Clarification of Structure and Phase Transition by in Situ Observation. Nano Letters, 2019, 19, 1118-1123.	4.5	124
89	Two-dimensional BX (X = P, As, Sb) semiconductors with mobilities approaching graphene. Nanoscale, 2016, 8, 13407-13413.	2.8	122
90	Lowâ€Voltage Photodetectors with High Responsivity Based on Solutionâ€Processed Micrometerâ€Scale Allâ€Inorganic Perovskite Nanoplatelets. Small, 2017, 13, 1700364.	5.2	119

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91	Semiconductor-topological insulator transition of two-dimensional SbAs induced by biaxial tensile strain. Physical Review B, 2016, 93, .	1.1	118
92	Efficient Blue Perovskite Lightâ€Emitting Diodes Boosted by 2D/3D Energy Cascade Channels. Advanced Functional Materials, 2020, 30, 2001732.	7.8	118
93	Twoâ€Dimensional Metal Halide Perovskites: Theory, Synthesis, and Optoelectronics. Small Methods, 2017, 1, 1600018.	4.6	115
94	Characterization, Cathodoluminescence, and Fieldâ€Emission Properties of Morphologyâ€Tunable CdS Micro/Nanostructures. Advanced Functional Materials, 2009, 19, 2423-2430.	7.8	114
95	Controllable Polyol Synthesis of Uniform Palladium Icosahedra: Effect of Twinned Structure on Deformation of Crystalline Lattices. Angewandte Chemie - International Edition, 2009, 48, 6883-6887.	7.2	114
96	Nearâ€Infrared Plasmonic 2D Semimetals for Applications in Communication and Biology. Advanced Functional Materials, 2016, 26, 1793-1802.	7.8	114
97	Size and Structure Control of Si Nanoparticles by Laser Ablation in Different Liquid Media and Further Centrifugation Classification. Journal of Physical Chemistry C, 2009, 113, 19091-19095.	1.5	112
98	Epitaxial ZnO Nanowireâ€onâ€Nanoplate Structures as Efficient and Transferable Field Emitters. Advanced Materials, 2013, 25, 5750-5755.	11.1	111
99	Two-dimensional halide perovskite as $\hat{l}^2$ -ray scintillator for nuclear radiation monitoring. Nature Communications, 2020, 11, 3395.	5.8	110
100	Amorphous ZnO based resistive random access memory. RSC Advances, 2016, 6, 17867-17872.	1.7	109
101	A Universal Ternaryâ€Solventâ€Ink Strategy toward Efficient Inkjetâ€Printed Perovskite Quantum Dot Lightâ€Emitting Diodes. Advanced Materials, 2022, 34, e2107798.	11.1	109
102	Spaceâ€Confined Growth of CsPbBr <sub>3</sub> Film Achieving Photodetectors with High Performance in All Figures of Merit. Advanced Functional Materials, 2018, 28, 1804394.	7.8	108
103	Fabrication and Size-Dependent Optical Properties of FeO Nanoparticles Induced by Laser Ablation in a Liquid Medium. Journal of Physical Chemistry C, 2008, 112, 3261-3266.	1.5	105
104	Stable, Efficient Red Perovskite Lightâ€Emitting Diodes by (α, Î)â€CsPbI <sub>3</sub> Phase Engineering. Advanced Functional Materials, 2018, 28, 1804285.	7.8	105
105	Room temperature synthesized rutile TiO <sub>2</sub> nanoparticles induced by laser ablation in liquid and their photocatalytic activity. Nanotechnology, 2009, 20, 285707.	1.3	103
106	Tubeâ€inâ€Tube TiO <sub>2</sub> Nanotubes with Porous Walls: Fabrication, Formation Mechanism, and Photocatalytic Properties. Small, 2011, 7, 445-449.	5.2	101
107	Localized surface plasmon resonance of Cu nanoparticles by laser ablation in liquid media. RSC Advances, 2015, 5, 79738-79745.	1.7	101
108	Perovskite White Light Emitting Diodes: Progress, Challenges, and Opportunities. ACS Nano, 2021, 15, 17150-17174.	7.3	101

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109	Approaching the Theoretical Capacity of Li <sub>3</sub> VO <sub>4</sub> via Electrochemical Reconstruction. Advanced Materials Interfaces, 2016, 3, 1500340.	1.9	97
110	Perovskite nanocrystals: synthesis, properties and applications. Science Bulletin, 2017, 62, 369-380.	4.3	96
111	Origin of Blue Emission from Silicon Nanoparticles: Direct Transition and Interface Recombination. Journal of Physical Chemistry C, 2011, 115, 21056-21062.	1.5	92
112	Van der Waals bilayer antimonene: A promising thermophotovoltaic cell material with 31% energy conversion efficiency. Nano Energy, 2017, 38, 561-568.	8.2	92
113	Field-Effect Transistors Based on van-der-Waals-Grown and Dry-Transferred All-Inorganic Perovskite Ultrathin Platelets. Journal of Physical Chemistry Letters, 2017, 8, 4785-4792.	2.1	91
114	Welding Perovskite Nanowires for Stable, Sensitive, Flexible Photodetectors. ACS Nano, 2020, 14, 2777-2787.	7.3	90
115	Surface optical phonon Raman scattering in Znâ^•ZnO core-shell structured nanoparticles. Applied Physics Letters, 2006, 88, 181905.	1.5	89
116	Metal Halide Perovskites: Synthesis, Ion Migration, and Application in Fieldâ€Effect Transistors. Small, 2018, 14, e1801460.	5.2	88
117	Luminescent hollow carbon shells and fullerene-like carbon spheres produced by laser ablation with toluene. Journal of Materials Chemistry, 2011, 21, 4432.	6.7	87
118	Polyhedral Zn 2 SnO 4 : Synthesis, enhanced gas sensing and photocatalytic performance. Sensors and Actuators B: Chemical, 2016, 229, 627-634.	4.0	86
119	Two-dimensional GeS with tunable electronic properties via external electric field and strain. Nanotechnology, 2016, 27, 274001.	1.3	85
120	Recent advances and prospects toward blue perovskite materials and lightâ€emitting diodes. InformaÄnÃ- Materiály, 2019, 1, 211-233.	8.5	84
121	Modulating Epitaxial Atomic Structure of Antimonene through Interface Design. Advanced Materials, 2019, 31, e1902606.	11.1	84
122	ZnO-Based Transparent Conductive Thin Films: Doping, Performance, and Processing. Journal of Nanomaterials, 2013, 2013, 1-9.	1.5	83
123	Bionic Detectors Based on Lowâ€Bandgap Inorganic Perovskite for Selective NIRâ€I Photon Detection and Imaging. Advanced Materials, 2020, 32, e1905362.	11.1	83
124	Self-powered fiber-shaped wearable omnidirectional photodetectors. Nano Energy, 2016, 30, 173-179.	8.2	82
125	Perovskite light-emitting/detecting bifunctional fibres for wearable LiFi communication. Light: Science and Applications, 2020, 9, 163.	7.7	81
126	Nonlinear Optics in Lead Halide Perovskites: Mechanisms and Applications. ACS Photonics, 2021, 8, 113-124.	3.2	80

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127	Ultra-fine Î <sup>2</sup> -SiC quantum dots fabricated by laser ablation in reactive liquid at room temperature and their violet emission. Journal of Materials Chemistry, 2009, 19, 7119.	6.7	79
128	Two-dimensional SiP: an unexplored direct band-gap semiconductor. 2D Materials, 2017, 4, 015030.	2.0	78
129	Dimensionality and Interface Engineering of 2D Homologous Perovskites for Boosted Charge-Carrier Transport and Photodetection Performances. Journal of Physical Chemistry Letters, 2017, 8, 2565-2572.	2.1	77
130	Mn2+ induced significant improvement and robust stability of radioluminescence in Cs3Cu2I5 for high-performance nuclear battery. Nature Communications, 2021, 12, 3879.	5.8	76
131	Constructing Mieâ€Scattering Porous Interfaceâ€Fused Perovskite Films to Synergistically Boost Light Harvesting and Carrier Transport. Angewandte Chemie - International Edition, 2017, 56, 5232-5236.	7.2	75
132	Large Scale Fabrication of Quasi-Aligned ZnO Stacking Nanoplates. Journal of Physical Chemistry C, 2008, 112, 5267-5270.	1.5	74
133	Leadâ€Free Halide Double Perovskites: Structure, Luminescence, and Applications. Small Structures, 2021, 2, 2000071.	6.9	71
134	Reshaping Formation and Luminescence Evolution of ZnO Quantum Dots by Laser-Induced Fragmentation in Liquid. Journal of Physical Chemistry C, 2011, 115, 5038-5043.	1.5	70
135	Interfacialâ€Tunnelingâ€Effectâ€Enhanced CsPbBr <sub>3</sub> Photodetectors Featuring High Detectivity and Stability. Advanced Functional Materials, 2019, 29, 1904461.	7.8	70
136	Lead-free, stable, high-efficiency (52%) blue luminescent FA <sub>3</sub> Bi <sub>2</sub> Br <sub>9</sub> perovskite quantum dots. Nanoscale Horizons, 2020, 5, 580-585.	4.1	70
137	Perovskite Single Crystals: Synthesis, Optoelectronic Properties, and Application. Advanced Functional Materials, 2021, 31, 2008684.	7.8	70
138	Designing sub-10-nm Metal-Oxide-Semiconductor Field-Effect Transistors via Ballistic Transport and Disparate Effective Mass: The Case of Two-Dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"&gt;<mml:mrow><mml:mi>Bi</mml:mi><mml:mi< td=""><td>1.5</td><td>69</td></mml:mi<></mml:mrow></mml:math 	1.5	69
139	Tinene: a two-dimensional Dirac material with a 72 meV band gap. Physical Chemistry Chemical Physics, 2015, 17, 12634-12638.	1.3	66
140	Hydrothermal synthesis of blue-fluorescent monolayer BN and BCNO quantum dots for bio-imaging probes. RSC Advances, 2016, 6, 79090-79094.	1.7	66
141	Ultrathin tellurium dioxide: emerging direct bandgap semiconductor with high-mobility transport anisotropy. Nanoscale, 2018, 10, 8397-8403.	2.8	66
142	Fabrication and Characterization of Beaded SiC Quantum Rings with Anomalous Red Spectral Shift. Advanced Materials, 2012, 24, 5598-5603.	11.1	65
143	Electrochemical Deposition of ZnO Nanowire Arrays: Organization, Doping, and Properties. Science of Advanced Materials, 2010, 2, 336-358.	0.1	62
144	Ordered n-type ZnO nanorod arrays. Applied Physics Letters, 2008, 92, 132112.	1.5	61

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CITATIONS

145	Allâ€Perovskite Integrated Xâ€Ray Detector with Ultrahigh Sensitivity. Advanced Optical Materials, 2020, 8, 2000273.	3.6	61
146	Enhancement of the ultraviolet emission of ZnO nanostructures by polyaniline modification. Chemical Physics Letters, 2007, 446, 370-373.	1.2	59
147	Structural Transformation, Photocatalytic, and Field-Emission Properties of Ridged TiO <sub>2</sub> Nanotubes. ACS Applied Materials & Interfaces, 2011, 3, 1352-1358.	4.0	59
148	Quantum Dots: CsPbX <sub>3</sub> Quantum Dots for Lighting and Displays: Roomâ€Temperature Synthesis, Photoluminescence Superiorities, Underlying Origins and White Lightâ€Emitting Diodes (Adv.) Tj ETQ	190 <b>708</b> 0 rgE	3T / <b>So</b> verloc
149	Switching excitonic recombination and carrier trapping in cesium lead halide perovskites by air. Communications Physics, 2018, 1, .	2.0	59
150	A class of Pb-free double perovskite halide semiconductors with intrinsic ferromagnetism, large spin splitting and high Curie temperature. Materials Horizons, 2018, 5, 961-968.	6.4	59
151	Anisotropic Inâ€Plane Ballistic Transport in Monolayer Black Arsenicâ€Phosphorus FETs. Advanced Electronic Materials, 2020, 6, 1901281.	2.6	59
152	Ternary Oxide Nanocrystals: Universal Laserâ€Hydrothermal Synthesis, Optoelectronic and Electrochemical Applications. Advanced Functional Materials, 2016, 26, 5051-5060.	7.8	58
153	Origin of green luminescence in carbon quantum dots: specific emission bands originate from oxidized carbon groups. New Journal of Chemistry, 2018, 42, 4603-4611.	1.4	58
154	Broadband and sensitive two-dimensional halide perovskite photodetector for full-spectrum underwater optical communication. Nano Research, 2021, 14, 1210-1217.	5.8	58
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