

Jun Pan

List of Publications by Year in descending order

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58
papers

7,807
citations

101384

36
h-index

149479

56
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58
all docs

58
docs citations

58
times ranked

10040
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Efficient Perovskite Quantum Dot Light-Emitting Diodes by Surface Engineering. <i>Advanced Materials</i> , 2016, 28, 8718-8725.	11.1	917
2	Bidentate Ligand-Passivated CsPbI ₃ Perovskite Nanocrystals for Stable Near-Unity Photoluminescence Quantum Yield and Efficient Red Light-Emitting Diodes. <i>Journal of the American Chemical Society</i> , 2018, 140, 562-565.	6.6	745
3	Air-stable n-type colloidal quantum dot solids. <i>Nature Materials</i> , 2014, 13, 822-828.	13.3	529
4	Pure Cs ₄ PbBr ₆ : Highly Luminescent Zero-Dimensional Perovskite Solids. <i>ACS Energy Letters</i> , 2016, 1, 840-845.	8.8	481
5	Air-Stable Surface-Passivated Perovskite Quantum Dots for Ultra-Robust, Single- and Two-Photon-Induced Amplified Spontaneous Emission. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 5027-5033.	2.1	466
6	Tailoring the Energy Landscape in Quasi-2D Halide Perovskites Enables Efficient Green-Light Emission. <i>Nano Letters</i> , 2017, 17, 3701-3709.	4.5	409
7	Amine-Free Synthesis of Cesium Lead Halide Perovskite Quantum Dots for Efficient Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2016, 26, 8757-8763.	7.8	344
8	Solution-Grown Monocrystalline Hybrid Perovskite Films for Hole-Transporter-Free Solar Cells. <i>Advanced Materials</i> , 2016, 28, 3383-3390.	11.1	298
9	Ultralow Self-Doping in Two-dimensional Hybrid Perovskite Single Crystals. <i>Nano Letters</i> , 2017, 17, 4759-4767.	4.5	251
10	Giant Photoluminescence Enhancement in CsPbCl ₃ Perovskite Nanocrystals by Simultaneous Dual-Surface Passivation. <i>ACS Energy Letters</i> , 2018, 3, 2301-2307.	8.8	244
11	High-speed colour-converting photodetector with all-inorganic CsPbBr ₃ perovskite nanocrystals for ultraviolet light communication. <i>Light: Science and Applications</i> , 2019, 8, 94.	7.7	225
12	Quantum Dots Supply Bulk- and Surface-Passivation Agents for Efficient and Stable Perovskite Solar Cells. <i>Joule</i> , 2019, 3, 1963-1976.	11.7	222
13	Perovskite Nanocrystals as a Color Converter for Visible Light Communication. <i>ACS Photonics</i> , 2016, 3, 1150-1156.	3.2	221
14	Room-Temperature Engineering of All-Inorganic Perovskite Nanocrystals with Different Dimensionalities. <i>Chemistry of Materials</i> , 2017, 29, 8978-8982.	3.2	174
15	Direct-Indirect Nature of the Bandgap in Lead-Free Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3173-3177.	2.1	172
16	Ag ₄₄ (SR) ₃₀₄ : a silver-thiolate superatom complex. <i>Nanoscale</i> , 2012, 4, 4269.	2.8	154
17	Engineering of CH ₃ NH ₃ PbI ₃ Perovskite Crystals by Alloying Large Organic Cations for Enhanced Thermal Stability and Transport Properties. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10686-10690.	7.2	152
18	Edge stabilization in reduced-dimensional perovskites. <i>Nature Communications</i> , 2020, 11, 170.	5.8	147

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19	Synthesis of single-crystal-like nanoporous carbon membranes and their application in overall water splitting. <i>Nature Communications</i> , 2017, 8, 13592.	5.8	142
20	Spiro-OMeTAD single crystals: Remarkably enhanced charge-carrier transport via mesoscale ordering. <i>Science Advances</i> , 2016, 2, e1501491.	4.7	122
21	Light-Induced Self-Assembly of Cubic CsPbBr ₃ Perovskite Nanocrystals into Nanowires. <i>Chemistry of Materials</i> , 2019, 31, 6642-6649.	3.2	119
22	Colloidal Quantum Dot Photovoltaics: The Effect of Polydispersity. <i>Nano Letters</i> , 2012, 12, 1007-1012.	4.5	104
23	Removal of Pb(II) from aqueous solution on chitosan/TiO ₂ hybrid film. <i>Journal of Hazardous Materials</i> , 2009, 161, 718-722.	6.5	99
24	Directly Deposited Quantum Dot Solids Using a Colloidally Stable Nanoparticle Ink. <i>Advanced Materials</i> , 2013, 25, 5742-5749.	11.1	99
25	Automated Synthesis of Photovoltaic-Quality Colloidal Quantum Dots Using Separate Nucleation and Growth Stages. <i>ACS Nano</i> , 2013, 7, 10158-10166.	7.3	97
26	Characterization of Size, Anisotropy, and Density Heterogeneity of Nanoparticles by Sedimentation Velocity. <i>Analytical Chemistry</i> , 2014, 86, 7688-7695.	3.2	74
27	Oriented Halide Perovskite Nanostructures and Thin Films for Optoelectronics. <i>Chemical Reviews</i> , 2021, 121, 12112-12180.	23.0	70
28	Hydrothermal Synthesis and Electrochemical Properties of Urchin-Like Core-Shell Copper Oxide Nanostructures. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9645-9650.	1.5	66
29	Peripheral Dopamine Controlled by Gut Microbes Inhibits Invariant Natural Killer T Cell-Mediated Hepatitis. <i>Frontiers in Immunology</i> , 2018, 9, 2398.	2.2	57
30	Real-Time Observation of Ultrafast Intraband Relaxation and Exciton Multiplication in PbS Quantum Dots. <i>ACS Photonics</i> , 2014, 1, 285-292.	3.2	54
31	Robust and air-stable sandwiched organo-lead halide perovskites for photodetector applications. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2545-2552.	2.7	53
32	Wearable electronics for heating and sensing based on a multifunctional PET/silver nanowire/PDMS yarn. <i>Nanoscale</i> , 2020, 12, 16562-16569.	2.8	51
33	Halogen Vacancies Enable Ligand-Assisted Self-Assembly of Perovskite Quantum Dots into Nanowires. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16077-16081.	7.2	49
34	Tensile strength optimization and characterization of chitosan/TiO ₂ hybrid film. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007, 138, 84-89.	1.7	45
35	Shape-Tunable Charge Carrier Dynamics at the Interfaces between Perovskite Nanocrystals and Molecular Acceptors. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3913-3919.	2.1	43
36	Glycine assisted synthesis of flower-like TiO ₂ hierarchical spheres and its application in photocatalysis. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012, 177, 1664-1671.	1.7	36

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37	Gram-scale fractionation of nanodiamonds by density gradient ultracentrifugation. <i>Nanoscale</i> , 2013, 5, 5017.	2.8	33
38	Tetraethylenepentamineâ€Directed Controllable Synthesis of Wurtzite ZnSe Nanostructures with Tunable Morphology. <i>Chemistry - A European Journal</i> , 2008, 14, 9786-9791.	1.7	29
39	Constructing Polymorphic Nanodomains in BaTiO ₃ Films via Epitaxial Symmetry Engineering. <i>Advanced Functional Materials</i> , 2020, 30, 1910569.	7.8	28
40	Ti ₃ C ₂ MXene-based Schottky photocathode for enhanced photoelectrochemical sensing. <i>Journal of Alloys and Compounds</i> , 2021, 859, 157787.	2.8	27
41	Alternating Current Electroluminescent Devices with Inorganic Phosphors for Deformable Displays. <i>Cell Reports Physical Science</i> , 2020, 1, 100213.	2.8	22
42	Recent Progress in the Stability of Red-Emissive Perovskite Nanocrystals for Light-Emitting Diodes. , 2022, 4, 1233-1254.		20
43	Engineering of CH ₃ NH ₃ PbI ₃ Perovskite Crystals by Alloying Large Organic Cations for Enhanced Thermal Stability and Transport Properties. <i>Angewandte Chemie</i> , 2016, 128, 10844-10848.	1.6	18
44	Halogen Vacancies Enable Ligandâ€Assisted Selfâ€Assembly of Perovskite Quantum Dots into Nanowires. <i>Angewandte Chemie</i> , 2019, 131, 16223-16227.	1.6	16
45	2D foaming of ultrathin MXene sheets with highly conductive silver nanowires for wearable electromagnetic interference shielding applications owing to multiple reflections within created free space. <i>Nano Futures</i> , 2020, 4, 035002.	1.0	16
46	Tartaric Acid and L-Cysteine Synergisticâ€Assisted Synthesis of Antimony Trisulfide Hierarchical Structures in Aqueous Solution. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 5302-5306.	1.0	15
47	A highly sensitive strain sensor with a sandwich structure composed of two silver nanoparticles layers and one silver nanowires layer for human motion detection. <i>Nanotechnology</i> , 2021, 32, 375504.	1.3	8
48	Synthesis of cadmium chalcogenide nanotubes at room temperature. <i>Materials Letters</i> , 2012, 85, 132-134.	1.3	7
49	Pâ€124: Perovskite Quantum Dots Display: Challenges and Opportunities. <i>Digest of Technical Papers SID International Symposium</i> , 2019, 50, 1712-1715.	0.1	7
50	Pâ€203: <i>Lateâ€News Poster:</i> Novel Techniques for Highly Stable Luminescent Perovskite Halide Quantum Dots. <i>Digest of Technical Papers SID International Symposium</i> , 2018, 49, 1681-1684.	0.1	6
51	Ultrasonically Assisted Synthesis of Tin Sulfide Nanorods at Room Temperature. <i>Advanced Materials Research</i> , 2009, 79-82, 313-316.	0.3	5
52	Enhanced stability of silver nanowire transparent conductive films against ultraviolet light illumination. <i>Nanotechnology</i> , 2021, 32, 055603.	1.3	5
53	Cadmium sulfide rod-bundle structures decorated with nanoparticles from an inorganic/organic composite. <i>Journal of Nanoparticle Research</i> , 2011, 13, 3535-3543.	0.8	4
54	Controllable synthesis of TiO ₂ nanomaterials by assisting with l-cysteine and ethylenediamine. <i>Journal of Materials Science</i> , 2014, 49, 897-904.	1.7	3

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55	Synthesis and Gas Sensing Properties of Urchin-Like CuO Self-Assembled by Nanorods through a Poly(ethylene glycol)-Assisted Hydrothermal Process. <i>Advanced Materials Research</i> , 2009, 79-82, 1059-1062.	0.3	2
56	Invited Paper: A New Generation of Luminescent Materials Based on Low-Dimensional Perovskites. <i>Digest of Technical Papers SID International Symposium</i> , 2017, 48, 83-86.	0.1	2
57	Highly ordered AgNW networks for patterning design. <i>Chinese Science Bulletin</i> , 2020, 65, 1376-1386.	0.4	2
58	High-Speed Ultraviolet-C Photodetector Based on Frequency Down-Converting CsPbBr ₃ Perovskite Nanocrystals on Silicon Platform. , 2019, , .		1