Lijun Zhang

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/333710/publications.pdf

Version: 2024-02-01

220 papers 17,657 citations

18482 62 h-index 128 g-index

223 all docs

223 docs citations

223 times ranked 17308 citing authors

#	Article	IF	CITATIONS
1	Efficient and stable emission of warm-white light from lead-free halide double perovskites. Nature, 2018, 563, 541-545.	27.8	1,451
2	Thermodynamically stabilized β-CsPbI ₃ â€"based perovskite solar cells with efficiencies >18%. Science, 2019, 365, 591-595.	12.6	963
3	Highly Oriented Low-Dimensional Tin Halide Perovskites with Enhanced Stability and Photovoltaic Performance. Journal of the American Chemical Society, 2017, 139, 6693-6699.	13.7	723
4	Design of Lead-Free Inorganic Halide Perovskites for Solar Cells via Cation-Transmutation. Journal of the American Chemical Society, 2017, 139, 2630-2638.	13.7	714
5	Density functional study of FeS, FeSe, and FeTe: Electronic structure, magnetism, phonons, and superconductivity. Physical Review B, 2008, 78, .	3.2	690
6	Doping Lanthanide into Perovskite Nanocrystals: Highly Improved and Expanded Optical Properties. Nano Letters, 2017, 17, 8005-8011.	9.1	672
7	Strain engineering in perovskite solar cells and its impacts on carrier dynamics. Nature Communications, 2019, 10, 815.	12.8	528
8	Ultrasensitive detection of miRNA with an antimonene-based surface plasmon resonance sensor. Nature Communications, 2019, 10, 28.	12.8	475
9	Efficient and stable Ruddlesden–Popper perovskite solar cell with tailored interlayer molecular interaction. Nature Photonics, 2020, 14, 154-163.	31.4	443
10	Materials discovery at high pressures. Nature Reviews Materials, 2017, 2, .	48.7	427
11	Zn-Alloyed CsPbI ₃ Nanocrystals for Highly Efficient Perovskite Light-Emitting Devices. Nano Letters, 2019, 19, 1552-1559.	9.1	395
12	Trifluoroacetate induced small-grained CsPbBr3 perovskite films result in efficient and stable light-emitting devices. Nature Communications, 2019, 10, 665.	12.8	350
13	Electronic correlations in the iron pnictides. Nature Physics, 2009, 5, 647-650.	16.7	317
14	Cu–In Halide Perovskite Solar Absorbers. Journal of the American Chemical Society, 2017, 139, 6718-6725.	13.7	316
15	Atomically engineering activation sites onto metallic 1T-MoS2 catalysts for enhanced electrochemical hydrogen evolution. Nature Communications, 2019, 10, 982.	12.8	311
16	Rational Design of Halide Double Perovskites for Optoelectronic Applications. Joule, 2018, 2, 1662-1673.	24.0	297
17	Chlorine-Incorporation-Induced Formation of the Layered Phase for Antimony-Based Lead-Free Perovskite Solar Cells. Journal of the American Chemical Society, 2018, 140, 1019-1027.	13.7	241
18	Stabilizing Perovskite Solar Cells to IEC61215:2016 Standards with over 9,000-h Operational Tracking. Joule, 2020, 4, 2646-2660.	24.0	218

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19	Pressure-induced emission of cesium lead halide perovskite nanocrystals. Nature Communications, 2018, 9, 4506.	12.8	212
20	Colloidal Synthesis of Ternary Copper Halide Nanocrystals for High-Efficiency Deep-Blue Light-Emitting Diodes with a Half-Lifetime above 100 h. Nano Letters, 2020, 20, 3568-3576.	9.1	200
21	Stable Yellow Light-Emitting Devices Based on Ternary Copper Halides with Broadband Emissive Self-Trapped Excitons. ACS Nano, 2020, 14, 4475-4486.	14.6	199
22	Electrically-Driven Violet Light-Emitting Devices Based on Highly Stable Lead-Free Perovskite Cs ₃ Sb ₂ Br ₉ Quantum Dots. ACS Energy Letters, 2020, 5, 385-394.	17.4	169
23	Review of Battery Cell Balancing Methodologies for Optimizing Battery Pack Performance in Electric Vehicles. IEEE Access, 2019, 7, 129335-129352.	4.2	165
24	Remaining Useful Life Prediction for Lithium-lon Batteries Based on Exponential Model and Particle Filter. IEEE Access, 2018, 6, 17729-17740.	4.2	164
25	High Colorâ€Rendering Index and Stable White Lightâ€Emitting Diodes by Assembling Two Broadband Emissive Selfâ€Trapped Excitons. Advanced Materials, 2021, 33, e2001367.	21.0	162
26	Density functional study of excess Fe in <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Fe</mml:mtext></mml:mrow><mml:mrow><mml:mrow></mml:mrow></mml:mrow></mml:msub></mml:mrow></mml:math>	> < mml:mr	156 1>1
27	Comparative Research on RC Equivalent Circuit Models for Lithium-Ion Batteries of Electric Vehicles. Applied Sciences (Switzerland), 2017, 7, 1002.	2.5	151
28	Two-Dimensional PC ₆ with Direct Band Gap and Anisotropic Carrier Mobility. Journal of the American Chemical Society, 2019, 141, 1599-1605.	13.7	144
29	Fast Diffusion of Native Defects and Impurities in Perovskite Solar Cell Material CH ₃ NH ₃ Pbl ₃ . Chemistry of Materials, 2016, 28, 4349-4357.	6.7	139
30	CALYPSO structure prediction method and its wide application. Computational Materials Science, 2016, 112, 406-415.	3.0	138
31	Solid salt confinement effect: An effective strategy to fabricate high crystalline polymer carbon nitride for enhanced photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2019, 246, 349-355.	20.2	136
32	Functionality-Directed Screening of Pb-Free Hybrid Organic–Inorganic Perovskites with Desired Intrinsic Photovoltaic Functionalities. Chemistry of Materials, 2017, 29, 524-538.	6.7	135
33	Tellurium Hydrides at High Pressures: High-Temperature Superconductors. Physical Review Letters, 2016, 116, 057002.	7.8	132
34	Formation and Diffusion of Metal Impurities in Perovskite Solar Cell Material CH ₃ NH ₃ Pbl ₃ : Implications on Solar Cell Degradation and Choice of Electrode. Advanced Science, 2018, 5, 1700662.	11.2	130
35	Thermochromic Leadâ€Free Halide Double Perovskites. Advanced Functional Materials, 2019, 29, 1807375.	14.9	120
36	CsPb(I Br1â^²)3 solar cells. Science Bulletin, 2019, 64, 1532-1539.	9.0	114

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37	Pseudohalideâ€Induced Recrystallization Engineering for CH ₃ NH ₃ Pol ₃ Film and Its Application in Highly Efficient Inverted Planar Heterojunction Perovskite Solar Cells. Advanced Functional Materials, 2018, 28, 1704836.	14.9	112
38	Intrinsic Defect Properties in Halide Double Perovskites for Optoelectronic Applications. Physical Review Applied, $2018,10,10$	3.8	109
39	Entropy Analysis on the Blood Flow through Anisotropically Tapered Arteries Filled with Magnetic Zinc-Oxide (ZnO) Nanoparticles. Entropy, 2020, 22, 1070.	2.2	108
40	Ba-induced phase segregation and band gap reduction in mixed-halide inorganic perovskite solar cells. Nature Communications, 2019, 10, 4686.	12.8	105
41	Hybrid nanofluid flow towards an elastic surface with tantalum and nickel nanoparticles, under the influence of an induced magnetic field. European Physical Journal: Special Topics, 2022, 231, 521-533.	2.6	104
42	InSe: a two-dimensional material with strong interlayer coupling. Nanoscale, 2018, 10, 7991-7998.	5.6	102
43	Bulk heterojunction gifts bismuth-based lead-free perovskite solar cells with record efficiency. Nano Energy, 2020, 68, 104362.	16.0	102
44	A Unified Understanding of the Thickness-Dependent Bandgap Transition in Hexagonal Two-Dimensional Semiconductors. Journal of Physical Chemistry Letters, 2016, 7, 597-602.	4.6	100
45	First-principles study of electron-phonon coupling in hole- and electron-doped diamonds in the virtual crystal approximation. Physical Review B, 2005, 72, .	3.2	96
46	Perovskite Solar Absorbers: Materials by Design. Small Methods, 2018, 2, 1700316.	8.6	95
47	Materials discovery via CALYPSO methodology. Journal of Physics Condensed Matter, 2015, 27, 203203.	1.8	93
48	Effects of magnetic Reynolds number on swimming of gyrotactic microorganisms between rotating circular plates filled with nanofluids. Applied Mathematics and Mechanics (English Edition), 2020, 41, 637-654.	3.6	91
49	Bismuth and antimony-based oxyhalides and chalcohalides as potential optoelectronic materials. Npj Computational Materials, 2018, 4, .	8.7	86
50	Nanoporous Sulfur-Doped Copper Oxide (Cu _{2< sub>0_{<i>x< i>< sub>5_{1â€"<i>x< i></i>}) for Overall Water Splitting. ACS Applied Materials & Distriction (2018). ACS Applied Materials & Distriction (2018). The substitute (2018) are substituted in the substitute (2018). The substitute (2018) are substituted in the substitute (2018). The substitute (2018) are substituted in the substitute (2018). The substitute (2018) are substituted in the substitute (2018) are substituted in the substitute (2018). The substitute (2018) are substituted in the substitute (2018) are substituted in the substitute (2018). The substitute (2018) are substituted in the substitute (2018) are substituted in the substitute (2018). The substitute (2018) are substituted in the substitute (2018) are substituted in the substitute (2018). The substitute (2018) are substituted in the substitute (2018) are substituted (2018) are substituted in the substitute (2018) are substituted (</i>}}	8.0	83
51	Numerical Investigation on the Swimming of Gyrotactic Microorganisms in Nanofluids through Porous Medium over a Stretched Surface. Mathematics, 2020, 8, 380.	2.2	82
52	Wide InP Nanowires with Wurtzite/Zincblende Superlattice Segments Are Type-II whereas Narrower Nanowires Become Type-I: An Atomistic Pseudopotential Calculation. Nano Letters, 2010, 10, 4055-4060.	9.1	76
53	First-principles studies of structural and electronic properties of hexagonalBC5. Physical Review B, 2006, 73, .	3.2	75
54	Evolution of Electronic Structure as a Function of Layer Thickness in Group-VIB Transition Metal Dichalcogenides: Emergence of Localization Prototypes. Nano Letters, 2015, 15, 949-957.	9.1	72

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55	Stabilization of fullerene-like boron cages by transition metal encapsulation. Nanoscale, 2015, 7, 10482-10489.	5.6	72
56	Experimental Identification of Critical Condition for Drastically Enhancing Thermoelectric Power Factor of Two-Dimensional Layered Materials. Nano Letters, 2018, 18, 7538-7545.	9.1	72
57	Phase Diagram and High-Temperature Superconductivity of Compressed Selenium Hydrides. Scientific Reports, 2015, 5, 15433.	3.3	71
58	Computer-Assisted Inverse Design of Inorganic Electrides. Physical Review X, 2017, 7, .	8.9	70
59	Dielectric Behavior as a Screen in Rational Searches for Electronic Materials: Metal Pnictide Sulfosalts. Journal of the American Chemical Society, 2018, 140, 18058-18065.	13.7	69
60	High-Pressure Phase Stability and Superconductivity of Pnictogen Hydrides and Chemical Trends for Compressed Hydrides. Chemistry of Materials, 2016, 28, 1746-1755.	6.7	68
61	Review on Health Management System for Lithium-Ion Batteries of Electric Vehicles. Electronics (Switzerland), 2018, 7, 72.	3.1	67
62	Zintl-phase compounds with <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mtext></mml:mtext></mml:mrow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><mml:mnow><m< td=""><td>>4://mml:</td><td>n66</td></m<></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:mnow></mml:msub></mml:mrow></mml:math>	> 4: //mml:	n 6 6
63	Ab initio prediction of superconductivity in molecular metallic hydrogen under high pressure. Solid State Communications, 2007, 141, 610-614.	1.9	65
64	Ultrahigh-Performance Optoelectronics Demonstrated in Ultrathin Perovskite-Based Vertical Semiconductor Heterostructures. ACS Nano, 2019, 13, 7996-8003.	14.6	64
65	Ultrastable Leadâ€Free Double Perovskite Photodetectors with Imaging Capability. Advanced Materials Interfaces, 2019, 6, 1900188.	3.7	62
66	Bottom-up growth of homogeneous Moir \tilde{A} © superlattices in bismuth oxychloride spiral nanosheets. Nature Communications, 2019, 10, 4472.	12.8	59
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