Qi Li

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Leadâ€Free Organicâ€"Inorganic Hybrid Perovskites for Photovoltaic Applications: Recent Advances and Perspectives. Advanced Materials, 2017, 29, 1605005.	21.0	568
2	Stable and Highly Efficient Photocatalysis with Leadâ€Free Doubleâ€Perovskite of Cs₂AgBiBr₆. Angewandte Chemie - International Edition, 2019, 58, 7263-7267.	13.8	283
3	Stable and Highly Efficient Photocatalysis with Leadâ€Free Doubleâ€Perovskite of Cs₂AgBiBr₆. Angewandte Chemie, 2019, 131, 7341-7345.	2.0	187
4	Metallic 1T phase MoS2 nanosheets for high-performance thermoelectric energy harvesting. Nano Energy, 2016, 26, 172-179.	16.0	178
5	Role of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>Ce</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn><m the Scintillation Mechanism of Codoped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Gd</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></m Physical Review Applied, 2014, 2, .	3.8	127
6	The Origins of Scintillator Non-Proportionality. IEEE Transactions on Nuclear Science, 2012, 59, 2038-2044.	2.0	81
7	Excitation density, diffusionâ€drift, and proportionality in scintillators. Physica Status Solidi (B): Basic Research, 2011, 248, 426-438.	1.5	74
8	A transport-based model of material trends in nonproportionality of scintillators. Journal of Applied Physics, 2011, 109, 123716.	2.5	56
9	2D Chalcogenide Nanoplate Assemblies for Thermoelectric Applications. Advanced Materials, 2017, 29, 1700070.	21.0	54
10	Coupled rate and transport equations modeling proportionality of light yield in high-energy electron tracks: CsI at 295ÂK and 100ÂK; CsI:Tl at 295ÂK. Physical Review B, 2015, 92, .	3.2	44
11	Host structure dependence of light yield and proportionality in scintillators in terms of hot and thermalized carrier transport. Physica Status Solidi - Rapid Research Letters, 2012, 6, 346-348.	2.4	43
12	Electricity generation from phase-engineered flexible MoS2 nanosheets under moisture. Nano Energy, 2021, 81, 105630.	16.0	41
13	Field electron emission of layered Bi2Se3 nanosheets with atom-thick sharp edges. Nanoscale, 2014, 6, 8306.	5.6	38
14	Quaternary Iodide K(Ca,Sr)I₃:Eu²⁺ Singleâ€Crystal Scintillators for Radiation Detection: Crystal Structure, Electronic Structure, and Optical and Scintillation Properties. Advanced Optical Materials, 2016, 4, 1518-1532.	7.3	35
15	Selfâ€Assembled Heterostructures: Selective Growth of Metallic Nanoparticles on V₂â€"VI₃ Nanoplates. Advanced Materials, 2017, 29, 1702968.	21.0	34
16	The roles of thermalized and hot carrier diffusion in determining light yield and proportionality of scintillators. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 2421-2426.	1.8	32
17	Chemical Welding on Semimetallic TiS2 Nanosheets for High-Performance Flexible n-Type Thermoelectric Films. ACS Applied Materials & Interfaces, 2017, 9, 42430-42437.	8.0	31
18	<i>Ab initio</i>energetics and kinetics study of H<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>and CH<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>in the SI clathrate hydrate. Physical Review B, 2011, 84, .	3.2	30

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19	The role of hole mobility in scintillator proportionality. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 652, 288-291.	1.6	24
20	Revealing the role of calcium codoping on optical and scintillation homogeneity in Lu2SiO5:Ce single crystals. Journal of Crystal Growth, 2018, 498, 362-371.	1.5	20
21	DX-like centers in NaI:Tl upon aliovalent codoping. Journal of Applied Physics, 2014, 116, .	2.5	18
22	First principles calculations and experiment predictions for iodine vacancy centers in SrI₂. Physica Status Solidi (B): Basic Research, 2013, 250, 233-243.	1.5	17
23	Surface modification enabled carrier mobility adjustment in CZTS nanoparticle thin films. Solar Energy Materials and Solar Cells, 2014, 127, 188-192.	6.2	17
24	Bi₂Te₃ Plates with Single Nanopore: The Formation of Surface Defects and Self-Repair Growth. Chemistry of Materials, 2018, 30, 1965-1970.	6.7	16
25	Effects of zirconium codoping on the optical and scintillation properties of SrI2:Eu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e283" altimg="si9.gif"><mml:msup><mml:mrow /><mml:mrow><mml:mn>2</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:math> single crystals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 954, 161242.	1.6	13
26	Experiments on high excitation density, quenching, and radiative kinetics in CsI:Tl scintillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 652, 284-287.	1.6	12
27	A theoretical study of the hydrogen-storage potential of (H2)4CH4in metal organic framework materials and carbon nanotubes. Journal of Physics Condensed Matter, 2012, 24, 424204.	1.8	12
28	Role of hot electron transport in scintillators: A theoretical study. Physica Status Solidi - Rapid Research Letters, 2016, 10, 762-768.	2.4	12
29	Influence on open-circuit voltage by optical heterogeneity in three-dimensional organic photovoltaics. Physical Review B, 2011, 84, .	3.2	10
30	Defect Engineering by Codoping in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>KCaI</mml:mi></mml:mrow><mml:mrow><mml:mn>3< Single-Crystalline Scintillators. Physical Review Applied, 2017, 8, .	3.8	10
31	Electron energy response of NaI:Tl and SrI2:Eu calculated from carrier mobilities and measured first- and third-order quenching. MRS Communications, 2012, 2, 139-143.	1.8	9
32	Experimental and computational results on exciton/free-carrier ratio, hot/thermalized carrier diffusion, and linear/nonlinear rate constants affecting scintillator proportionality. , 2013, , .		7
33	Role of carrier diffusion and picosecond exciton kinetics in nonproportionality of scintillator light yield. Proceedings of SPIE, 2010, , .	0.8	6
34	Scintillation Detectors of Radiation: Excitations at High Densities and Strong Gradients. Springer Series in Materials Science, 2015, , 299-358.	0.6	6
35	Excitons in scintillator materials: Optical properties and electron-energy loss spectra of NaI, LaBr₃, BaI₂, and SrI₂. Journal of Materials Research, 2017, 32, 56-63.	2.6	6
36	Dependence of nonproportionality in scintillators on diffusion of excitons and charge carriers. Proceedings of SPIE, 2011, , .	0.8	5

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37	Search for improved-performance scintillator candidates among the electronic structures of mixed halides. Proceedings of SPIE, 2014, , .	0.8	4
38	Nonlinear quenching rates in SrI₂ and CsI scintillator hosts. Materials Research Society Symposia Proceedings, 2011, 1341, 1.	0.1	3
39	Toward a user's toolkit for modeling scintillator non-proportionality and light yield. Proceedings of SPIE, 2014, , .	0.8	3
40	Material parameter basis for major and minor trends in nonproportionality of scintillators. Materials Research Society Symposia Proceedings, 2011, 1341, 1.	0.1	1