

Qi Li

List of Publications by Year in descending order

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40
papers

2,167
citations

394421

19
h-index

302126

39
g-index

40
all docs

40
docs citations

40
times ranked

3140
citing authors

#	ARTICLE	IF	CITATIONS
1	Electricity generation from phase-engineered flexible MoS ₂ nanosheets under moisture. Nano Energy, 2021, 81, 105630.	16.0	41
2	Effects of zirconium codoping on the optical and scintillation properties of Sr ₁₂ Eu<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e283" altimg="si9.gif">Si_9</math> single crystals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 954, 161242.	1.6	13
3	Stable and Highly Efficient Photocatalysis with Lead-Free Double-Perovskite of Cs₂AgBiBr₆. Angewandte Chemie - International Edition, 2019, 58, 7263-7267.	13.8	283
4	Stable and Highly Efficient Photocatalysis with Lead-Free Double-Perovskite of Cs₂AgBiBr₆. Angewandte Chemie, 2019, 131, 7341-7345.	2.0	187
5	Bi₂Te₃ Plates with Single Nanopore: The Formation of Surface Defects and Self-Repair Growth. Chemistry of Materials, 2018, 30, 1965-1970.	6.7	16
6	Revealing the role of calcium codoping on optical and scintillation homogeneity in Lu ₂ SiO ₅ :Ce single crystals. Journal of Crystal Growth, 2018, 498, 362-371.	1.5	20
7	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
8	Lead-Free Organic-Inorganic Hybrid Perovskites for Photovoltaic Applications: Recent Advances and Perspectives. Advanced Materials, 2017, 29, 1605005.	21.0	568
9	2D Chalcogenide Nanoplate Assemblies for Thermoelectric Applications. Advanced Materials, 2017, 29, 1700070.	21.0	54
10	Defect Engineering by Codoping in <math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">KCa</math> Single-Crystalline Scintillators. Physical Review Applied, 2017, 8, .	13.8	110
11	Self-Assembled Heterostructures: Selective Growth of Metallic Nanoparticles on V₂VI₃ Nanoplates. Advanced Materials, 2017, 29, 1702968.	21.0	34
12	Chemical Welding on Semimetallic TiS ₂ Nanosheets for High-Performance Flexible n-Type Thermoelectric Films. ACS Applied Materials & Interfaces, 2017, 9, 42430-42437.	8.0	31
13	Quaternary Iodide K(Ca,Sr)I₃:Eu²⁺ Single-Crystal Scintillators for Radiation Detection: Crystal Structure, Electronic Structure, and Optical and Scintillation Properties. Advanced Optical Materials, 2016, 4, 1518-1532.	7.3	35
14	Metallic 1T phase MoS ₂ nanosheets for high-performance thermoelectric energy harvesting. Nano Energy, 2016, 26, 172-179.	16.0	178
15	Role of hot electron transport in scintillators: A theoretical study. Physica Status Solidi - Rapid Research Letters, 2016, 10, 762-768.	2.4	12
16	Coupled rate and transport equations modeling proportionality of light yield in high-energy electron tracks: CsI at 295ÅK and 100ÅK; CsI:Tl at 295ÅK. Physical Review B, 2015, 92, .	3.2	44
17	Scintillation Detectors of Radiation: Excitations at High Densities and Strong Gradients. Springer Series in Materials Science, 2015, , 299-358.	0.6	6
18	Role of <math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">Ce</math> the Scintillation Mechanism of Codoped <math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">Gd</math> Physical Review Applied, 2014, 2, .	3.8	127

#	ARTICLE	IF	CITATIONS
19	Search for improved-performance scintillator candidates among the electronic structures of mixed halides. Proceedings of SPIE, 2014, , .	0.8	4
20	Toward a user's toolkit for modeling scintillator non-proportionality and light yield. Proceedings of SPIE, 2014, , .	0.8	3
21	DX-like centers in NaI:Tl upon aliovalent codoping. Journal of Applied Physics, 2014, 116, .	2.5	18
22	Surface modification enabled carrier mobility adjustment in CZTS nanoparticle thin films. Solar Energy Materials and Solar Cells, 2014, 127, 188-192.	6.2	17
23	Field electron emission of layered Bi ₂ Se ₃ nanosheets with atom-thick sharp edges. Nanoscale, 2014, 6, 8306.	5.6	38
24	First principles calculations and experiment predictions for iodine vacancy centers in SrI ₂ . Physica Status Solidi (B): Basic Research, 2013, 250, 233-243.	1.5	17
25	Experimental and computational results on exciton/free-carrier ratio, hot/thermalized carrier diffusion, and linear/nonlinear rate constants affecting scintillator proportionality. , 2013, , .		7
26	Electron energy response of NaI:Tl and SrI ₂ :Eu calculated from carrier mobilities and measured first- and third-order quenching. MRS Communications, 2012, 2, 139-143.	1.8	9
27	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
28	A theoretical study of the hydrogen-storage potential of (H ₂) ₄ CH ₄ in metal organic framework materials and carbon nanotubes. Journal of Physics Condensed Matter, 2012, 24, 424204.	1.8	12
29	The Origins of Scintillator Non-Proportionality. IEEE Transactions on Nuclear Science, 2012, 59, 2038-2044.	2.0	81
30	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
31	Dependence of nonproportionality in scintillators on diffusion of excitons and charge carriers. Proceedings of SPIE, 2011, , .	0.8	5
32	A transport-based model of material trends in nonproportionality of scintillators. Journal of Applied Physics, 2011, 109, 123716.	2.5	56
33	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
34	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
35	Excitation density, diffusion drift, and proportionality in scintillators. Physica Status Solidi (B): Basic Research, 2011, 248, 426-438.	1.5	74
36	energetics and kinetics study of H ₂ and CH ₄ in the Si clathrate hydrate. Physical Review B, 2011, 84, .	3.2	30

#	ARTICLE	IF	CITATIONS
37	Influence on open-circuit voltage by optical heterogeneity in three-dimensional organic photovoltaics. Physical Review B, 2011, 84, .	3.2	10
38	Nonlinear quenching rates in Sr ₂ and CsI scintillator hosts. Materials Research Society Symposia Proceedings, 2011, 1341, 1.	0.1	3
39	Material parameter basis for major and minor trends in nonproportionality of scintillators. Materials Research Society Symposia Proceedings, 2011, 1341, 1.	0.1	1
40	Role of carrier diffusion and picosecond exciton kinetics in nonproportionality of scintillator light yield. Proceedings of SPIE, 2010, , .	0.8	6