

Yi Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

200
citations

1163117

8
h-index

1058476

14
g-index

21
all docs

21
docs citations

21
times ranked

339
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of high-density multi-excitons in medium-size CdSe/CdZnS/ZnS colloidal quantum dots through transient spectroscopy and their optical gain properties. <i>Nanoscale</i> , 2022, 14, 5369-5376.	5.6	1
2	Review of the mechanisms for the phonon bottleneck effect in III-V semiconductors and their application for efficient hot carrier solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2022, 30, 581-596.	8.1	16
3	Simulation of Zinc-diffused InAs cells for low temperature thermophotovoltaic systems. <i>Infrared Physics and Technology</i> , 2021, 115, 103719.	2.9	5
4	A review on thermalization mechanisms and prospect absorber materials for the hot carrier solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2021, 225, 111073.	6.2	27
5	Explore the correlation between intervalley scattering and phonon bottleneck effect on the hot carrier relaxation in bulk GaSb and InN for hot carrier solar cells. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	5
6	UV-C-Sensitive Single-Channel Panoramic Detector via Mn-Doped Quantum Dots Encapsulated in SiO ₂ Film. <i>IEEE Transactions on Electron Devices</i> , 2021, , 1-8.	3.0	0
7	Study the Mechanisms of Enhanced Phonon Bottleneck Effect for the Absorber of Hot Carrier Solar Cell in III-V Multiple Quantum Wells. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 774, 012127.	0.6	1
8	A Decision-making tool of storage for non-working time demand. , 2020, , .		0
9	Explore the Intervalley Scattering on Phonon Bottleneck Effect and Its Application on Hot Carrier Solar Cells. , 2020, , .		1
10	Quantitative study on the mechanisms underlying the phonon bottleneck effect in InN/InGaN multiple quantum wells. <i>Applied Physics Letters</i> , 2020, 116, 103104.	3.3	10
11	Direct Thermal Pyrolysis Enabling the Use of Cobalt Oxides Nanoparticles from Commercial Acetates as High-Capacity Anodes for Lithium-Ion Batteries. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 13564-13571.	3.7	7
12	cells: insight into the carrier ultrafast dynamics and interfacial transport. <i>Science China Chemistry</i> , 2020, 63, 827-832.	8.2	13
13	Investigation on the effect of indium composition on ultrafast carrier dynamics in InGaN alloys. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 010903.	1.5	9
14	Slowed hot carrier cooling in multiple quantum wells for application to hot carrier solar cells. , 2019, , .		1
15	Observation of enhanced hot phonon bottleneck effect in 2D perovskites. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	47
16	Inelastic X-ray scattering measurements of III-V multiple quantum wells. <i>Applied Physics Letters</i> , 2017, 110, 043102.	3.3	5
17	Hot carrier cooling mechanisms in multiple quantum wells. , 2017, , .		2
18	Towards an understanding of hot carrier cooling mechanisms in multiple quantum wells. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 091201.	1.5	25

#	ARTICLE	IF	CITATIONS
19	Extended hot carrier lifetimes observed in bulk $\text{In}_{0.265}\text{Ga}_{0.735}\text{N}$ under high-density photoexcitation. Applied Physics Letters, 2016, 108, .	3.3	22
20	Study on the Ultrafast Carrier Dynamics in the Bulk $\text{In}_{0.265}\text{GaN}$ Thin Film. Energy Procedia, 2015, 84, 165-175.	1.8	3
21	Hot carrier solar cell absorbers: investigation of carrier cooling properties of candidate materials. , 2015, , .		0