

Daniel Suchet

List of Publications by Year in descending order

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34
papers

457
citations

933447

10
h-index

713466

21
g-index

34
all docs

34
docs citations

34
times ranked

742
citing authors

#	ARTICLE	IF	CITATIONS
1	Material challenges for solar cells in the twenty-first century: directions in emerging technologies. <i>Science and Technology of Advanced Materials</i> , 2018, 19, 336-369. Simultaneous sub-Doppler laser cooling of fermionic	6.1	162
2	Simultaneous sub-Doppler laser cooling of fermionic Li and bosonic K atoms. <i>Nature Communications</i> , 2019, 10, 1586.	2.5	42
3	Quantitative optical assessment of photonic and electronic properties in halide perovskite. <i>Nature Communications</i> , 2019, 10, 1586.	12.8	40
4	The second release of the Large Quasar Astrometric Catalog (LQAC-2). <i>Astronomy and Astrophysics</i> , 2012, 537, A99.	5.1	33
5	The construction of the large quasar astrometric catalogue (LQAC). <i>Astronomy and Astrophysics</i> , 2009, 494, 799-815.	5.1	27
6	Hot carrier relaxation and inhibited thermalization in superlattice heterostructures: The potential for phonon management. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	19
7	Long-range mediated interactions in a mixed-dimensional system. <i>Physical Review A</i> , 2017, 95, .	2.5	17
8	Identification of surface and volume hot-carrier thermalization mechanisms in ultrathin GaAs layers. <i>Journal of Applied Physics</i> , 2020, 128, 193102.	2.5	17
9	Impact of Electron-Phonon Scattering on Optical Properties of $\text{CH}_3\text{NH}_3\text{Pb}_3$ Hybrid Perovskite Material. <i>ACS Omega</i> , 2019, 4, 21487-21493.	3.5	12
10	Investigation of the spatial distribution of hot carriers in quantum-well structures via hyperspectral luminescence imaging. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	11
11	Influence of Hot-Carrier Extraction from a Photovoltaic Absorber: An Evaporative Approach. <i>Physical Review Applied</i> , 2017, 8, .	3.8	10
12	Defining and Quantifying Intermittency in the Power Sector. <i>Energies</i> , 2020, 13, 3366.	3.1	9
13	Analog simulation of Weyl particles with cold atoms. <i>Europhysics Letters</i> , 2016, 114, 26005.	2.0	8
14	An Electronic Ratchet Is Required in Nanostructured Intermediate-Band Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2018, 8, 1553-1559.	2.5	6
15	Analytical optimization of intermediate band systems: Achieving the best of two worlds. <i>Progress in Photovoltaics: Research and Applications</i> , 2018, 26, 800-807.	8.1	6
16	Area selective deposition of silicon by plasma enhanced chemical vapor deposition using a fluorinated precursor. <i>Applied Surface Science</i> , 2020, 531, 147305.	6.1	6
17	Impact of excitation energy on hot carrier properties in InGaAs multi-quantum well structure. <i>Progress in Photovoltaics: Research and Applications</i> , 2022, 30, 1354-1362.	8.1	5
18	Detailed balance calculations for hot-carrier solar cells: coupling high absorptivity with low thermalization through light trapping. <i>EPJ Photovoltaics</i> , 2019, 10, 1.	1.6	4

#	ARTICLE	IF	CITATIONS
19	Mapping Transport Properties of Halide Perovskites via Short-Time-Dynamics Scaling Laws and Subnanosecond-Time-Resolution Imaging. <i>Physical Review Applied</i> , 2021, 16, .	3.8	4
20	Non-ideal nanostructured intermediate band solar cells with an electronic ratchet. , 2018, , .		3
21	Advanced analysis for hot-carriers photoluminescence spectrum. , 2020, , .		3
22	Modeling and characterization of double resonant tunneling diodes for application as energy selective contacts in hot carrier solar cells. , 2017, , .		2
23	Hot Carrier Extraction Using Energy Selective Contacts and Feedback On The Remaining Distribution. , 2018, , .		2
24	Beneficial impact of a thin tunnel barrier in quantum well intermediate-band solar cell. <i>EPJ Photovoltaics</i> , 2018, 9, 11.	1.6	2
25	Optimized Operation of Quantum-Dot Intermediate-Band Solar Cells Deduced from Electronic Transport Modeling. <i>Physical Review Applied</i> , 2020, 13, .	3.8	2
26	A Bayesian approach to luminescent down-conversion. <i>Journal of Chemical Physics</i> , 2021, 154, 014201.	3.0	2
27	Fabrication and optical characterization of ultrathin III-V transferred heterostructures for hot-carrier absorbers. , 2020, , .		2
28	Physics of the inter-subband transition in quantum-dot intermediate-band solar cell. , 2020, , .		1
29	Nanoscale Wet Chemical Engineering of III-V Quantum Dots for Emerging Solar Applications. <i>ECS Transactions</i> , 2019, 89, 37-46.	0.5	0
30	Quasithermalization of collisionless particles in quadrupole potentials. <i>Physical Review A</i> , 2020, 101, .	2.5	0
31	Hot carriers and thermalization properties of type-II In As/AlAsSb MQW and superlattice solar cells. , 2021, , .		0
32	Impact of the excitation wavelength on the properties of photo-generated hot carriers in InGaAs MQW. , 2021, , .		0
33	Light absorption enhancement in ultra-thin layers for hot-carrier solar cells: first developments towards the experimental demonstration of an enhanced hot-carrier effect with light trapping. , 2019, , .		0
34	Hot-carrier multijunction solar cells: sensitivity and resilience to nonidealities. <i>Journal of Photonics for Energy</i> , 2022, 12, .	1.3	0