Simon Chung

List of Publications by Year
in descending order

21	193	1478505 6	1125743 13
papers	citations	h-index	g-index

22	22	22	278
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hot carrier solar cell absorber prerequisites and candidate material systems. Solar Energy Materials and Solar Cells, 2015, 135, 124-129.	6.2	76
2	Hafnium nitride for hot carrier solar cells. Solar Energy Materials and Solar Cells, 2016, 144, 781-786.	6.2	24
3	Hot carrier dynamics in HfN and ZrN measured by transient absorption spectroscopy. Solar Energy Materials and Solar Cells, 2016, 150, 51-56.	6.2	19
4	Nanosecond long excited state lifetimes observed in hafnium nitride. Solar Energy Materials and Solar Cells, 2017, 169, 13-18.	6.2	19
5	Potential of HfN, ZrN, and TiH as hot carrier absorber and Al₂O₃/Ge quantum well/Al₂O₃and Al₂O₃/PbS quantum dots/Al₂O₃as energy selective contacts. Japanese Journal of Applied Physics, 2017, 56, 08MA03.	1.5	12
6	Ultrafast Real-Time Dynamics of CO Oxidation over an Oxide Photocatalyst. ACS Catalysis, 2020, 10, 13650-13658.	11.2	11
7	Copper Nanoparticles with High Index Facets on Basal and Vicinal ZnO Surfaces. Journal of Physical Chemistry C, 2021, 125, 23561-23569.	3.1	6
8	Evaluation of hafnium nitride and zirconium nitride as Hot Carrier absorber. , 2014, , .		5
9	Inelastic X-ray scattering measurements of IIIâ€“V multiple quantum wells. Applied Physics Letters, 2017, 110, 043102.	3.3	5
10	Metastability of palladium carbide nanoparticles during hydrogen release from liquid organic hydrogen carriers. Physical Chemistry Chemical Physics, 2021, 23, 1371-1380.	2.8	5
11	Hot carrier solar cell absorbers: materials, mechanisms and nanostructures. Proceedings of SPIE, 2014, , .	0.8	4
12	Potential of hafnium nitride for the hot carrier solar cell. Proceedings of SPIE, 2013, , .	0.8	2
13	Operando reaction cell for high energy surface sensitive x-ray diffraction and reflectometry. Review of Scientific Instruments, 2022, 93, .	1.3	2
14	Hot Carrier Solar Cells: Materials with Modulated Phonon Energy for Slowed Carrier Cooling. , 2013, , .		1
15	Development of Absorber and Energy Selective Contacts for Hot Carrier Solar Cells. , 2017, , .		1
16	Carbon Embedding of Pt Cluster Superlattices Templated by Hexagonal Boron Nitride on Ir(111). Journal of Physical Chemistry C, 2021, 125, 23435-23444.	3.1	1
17	Hot carrier solar cell absorbers: investigation of carrier cooling properties of candidate materials. , 2015, , .		0
18	Carrier dynamics and phonon properties of hafnium nitride: Potential hot carrier solar cell absorber. , 2015, , .		0

#	Article	IF	Citations
19	Ultrafast transient absorption study of hot carrier dynamics in hafnium nitride and zirconium nitride. , 2015, , .		0
20	Potential of transition metal nitrides and hydrides as hot carrier solar cell absorbers. , 2015, , .		0
21	Epitaxy and Shape Heterogeneity of a Nanoparticle Ensemble during Redox Cycles. ACS Nano, 2021, 15, 13267-13278.	14.6	0