

David Cherns

List of Publications by Year in descending order

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26
papers

953
citations

623734

14
h-index

642732

23
g-index

26
all docs

26
docs citations

26
times ranked

2065
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic and optical properties of single crystal SnS ₂ : an earth-abundant disulfide photocatalyst. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1312-1318.	10.3	246
2	Modulating the thermal conductivity in hexagonal boron nitride via controlled boron isotope concentration. <i>Communications Physics</i> , 2019, 2, .	5.3	129
3	Continuous-Flow MOVPE of Ga-Polar GaN Column Arrays and Core-Shell LED Structures. <i>Crystal Growth and Design</i> , 2013, 13, 3475-3480.	3.0	80
4	Density of Deep Trap States in Oriented TiO ₂ Nanotube Arrays. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18207-18213.	3.1	73
5	Cu ₂ ZnSnS ₄ Thin Films Generated from a Single Solution Based Precursor: The Effect of Na and Sb Doping. <i>Chemistry of Materials</i> , 2016, 28, 4991-4997.	6.7	65
6	Structure and Band Edge Energy of Highly Luminescent CdSe _x Te _x Alloyed Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6814-6820.	3.1	60
7	Enhancement of multiple-phonon resonant Raman scattering in Co-doped ZnO nanorods. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	46
8	Managing dose-, damage- and data-rates in multi-frame spectrum-imaging. <i>Microscopy (Oxford)</i> , Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 4	1.5	42
9	Rapid phosphine-free synthesis of CdSe quantum dots: promoting the generation of Se precursors using a radical initiator. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6879-6886.	10.3	31
10	A macro-scale ruck and tuck mechanism for deformation in ion-irradiated polycrystalline graphite. <i>Carbon</i> , 2021, 173, 215-231.	10.3	27
11	Structural and Optical Emission Uniformity of <i>m</i> -Plane InGaN Single Quantum Wells in Core-Shell Nanorods. <i>Crystal Growth and Design</i> , 2016, 16, 1907-1916.	3.0	26
12	Reduction of threading dislocations in ZnO/(0001) sapphire film heterostructure by epitaxial lateral overgrowth of nanorods. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	21
13	Variations in mechanisms of selective area growth of GaN on nano-patterned substrates by MOVPE. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, 32-35.	0.8	19
14	Crystal and Electronic Structure of Bismuth Thiophosphate, BiPS ₄ : An Earth-Abundant Solar Absorber. <i>Chemistry of Materials</i> , 2020, 32, 1235-1242.	6.7	19
15	Direct Observation of High Densities of Antisite Defects in Ag ₂ ZnSnSe ₄ . <i>ACS Applied Energy Materials</i> , 2018, 1, 6260-6267.	5.1	14
16	Nano-cracks in a synthetic graphite composite for nuclear applications. <i>Philosophical Magazine</i> , 2018, 98, 1272-1283.	1.6	13
17	Characterisation of 3D GaN/InGaN core-shell nanostructures by transmission electron microscopy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014, 11, 425-427.	0.8	9
18	The Li-adsorbed C(100)-(1x1):O Diamond Surface. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1282, 163.	0.1	8

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19	Transmission electron microscopy of indium gallium nitride nanorods grown by molecular beam epitaxy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014, 11, 417-420.	0.8	7
20	Lithium monolayers on single crystal C(100) oxygen-terminated diamond. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1282, 169.	0.1	5
21	Synthetic Mechanism Studies of Iron Selenides: An Emerging Class of Materials for Electrocatalysis. <i>Catalysts</i> , 2021, 11, 681.	3.5	5
22	The Effect of Growth Stoichiometry on the GaN Dislocation Core Structure. <i>Materials Research Society Symposia Proceedings</i> , 2002, 743, L2.5.1.	0.1	4
23	Characterization of (Mn, Co)-Codoped ZnO Nanorods Prepared by Thermal Diffusion. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 2435-2438.	2.1	4
24	Chemical Analysis of Ternary Semiconductors by Critical Voltage Measurements. <i>Materials Research Society Symposia Proceedings</i> , 1988, 138, 563.	0.1	0
25	The Structure of Dislocations in GaN Grown by MBE as a Function of the Gallium to Nitrogen Ratio. <i>Materials Research Society Symposia Proceedings</i> , 2003, 798, 754.	0.1	0
26	New method of reducing threading dislocation in epitaxial ZnO films grown on c-sapphire. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1035, 1.	0.1	0