

Wei Cheng

List of Publications by Year in descending order

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48
papers

598
citations

687363

13
h-index

642732

23
g-index

49
all docs

49
docs citations

49
times ranked

734
citing authors

#	ARTICLE	IF	CITATIONS
1	Calculations on the size effects of Raman intensities of silicon quantum dots. Physical Review B, 2002, 65, .	3.2	97
2	A comparison of reading comprehension across paper, computer screens, and tablets: Does tablet familiarity matter?. Journal of Computers in Education, 2014, 1, 213-225.	8.3	81
3	$\frac{2}{3} \text{Te}$	3.2	68
4	Microscopic investigation of phonon modes in SiGe alloy nanocrystals. Physical Review B, 2004, 69, .	3.2	51
5	Theoretical investigation of the surface vibrational modes in germanium nanocrystals. Physical Review B, 2003, 68, .	3.2	39
6	Microscopic theory of the low frequency Raman modes in germanium nanocrystals. Physical Review B, 2005, 71, .	3.2	24
7	Lattice dynamics investigations of phonon thermal conductivity of Si-Ge superlattices with rough interfaces. Journal of Applied Physics, 2006, 100, 103505.	2.5	22
8	Calculations of surface effects on phonon modes and Raman intensities of Ge quantum dots. Physical Review B, 2002, 66, .	3.2	21
9	Sound absorption performance of various nickel foam-base multi-layer structures in range of low frequency. Transactions of Nonferrous Metals Society of China, 2017, 27, 1989-1995.	4.2	20
10	Study of the radiation damage caused by ion implantation in ZnO and its relation to magnetism. Nuclear Instruments & Methods in Physics Research B, 2019, 455, 7-12.	1.4	18
11	Characterization and first-principles calculations of WO ₃ /TiO ₂ composite films on titanium prepared by microarc oxidation. Materials Chemistry and Physics, 2017, 201, 311-322.	4.0	17
12	Surface-polarity-dependent ferromagnetism in arsenic-implanted ZnO films prepared by MBE. Materials Letters, 2015, 144, 12-14.	2.6	16
13	Density functional study on helium and hydrogen interstitials in silicon carbide. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 2067-2074.	1.4	15
14	Sound absorption of several various nickel foam multilayer structures at aural frequencies sensitive for human ears. Transactions of Nonferrous Metals Society of China, 2018, 28, 1334-1341.	4.2	11
15	Size effect of thermal conductivity of Si nanocrystals. Solid State Communications, 2008, 147, 274-277.	1.9	7
16	Structural characterization and surface polarity determination of polar ZnO films prepared by MBE. Applied Nanoscience (Switzerland), 2023, 13, 3197-3204.	3.1	7
17	Molecular dynamics study on the structure I xenon hydrate. Science Bulletin, 2005, 50, 822-825.	1.7	6
18	Time-of-flight spectroscopy characterization of the plasma plume from a laser-ablated potassium titanyl phosphate crystal. Physica B: Condensed Matter, 2015, 466-467, 96-100.	2.7	5

#	ARTICLE	IF	CITATIONS
19	Electronic stopping power under channeling conditions for slow ions in Ge using first principles. Physical Review A, 2020, 102, .	2.5	5
20	Effects of Surface Polarity on the Structure and Magnetic Properties of Co Implanted and Co-Sm Co-Implanted Polar ZnO Films. ACS Applied Materials & Interfaces, 2022, 14, 20247-20256.	8.0	5
21	Frontier electronic energy levels of icosahedral fullerenes. Chemical Physics Letters, 1997, 281, 123-129.	2.6	4
22	Molecular dynamics study on the structure I helium hydrate*. Progress in Natural Science: Materials International, 2004, 14, 1015-1018.	4.4	4
23	IONIZATION OF Na ₂ BY HIGHLY CHARGED PARTICLES. International Journal of Modern Physics B, 2005, 19, 2886-2891.	2.0	4
24	DFT study of the coverage effects for Al adsorption on Si(111) surfaces. Computational Materials Science, 2012, 53, 382-387.	3.0	4
25	Enhanced magnetism of SiC with He defects. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 3363-3367.	2.1	4
26	Vibrational Spectra of Tetrahedral Fullerenes. Journal of Molecular Spectroscopy, 1999, 193, 1-6.	1.2	3
27	Associated gamma radiation in interaction of 14.9 MeV neutrons with natural silicon. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 648, 192-209.	1.6	3
28	STRUCTURAL, ELASTIC AND ELECTRONIC PROPERTIES OF OXYGEN SUBSTITUTION IN CUBIC Zr_3N_4 AND Ti_3N_4 . International Journal of Modern Physics B, 2013, 27, 1350095.	2.0	3
29	Potential Issues on Initiatively Utilizing E-Textbooks in K-12 Classrooms. , 2013, , .		3
30	Magnetism of hydrogen-irradiated silicon carbide. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1897-1902.	2.1	3
31	Structural conservation of the short $\hat{\pm}$ -helix in modified higher and lower polarity water solutions. RSC Advances, 2015, 5, 9627-9634.	3.6	3
32	Effects of surface polarity on the structure and magnetic properties of Co implanted polar ZnO wafers. Scripta Materialia, 2022, 220, 114923.	5.2	3
33	Vibrational properties of uracil. Science Bulletin, 2006, 51, 1804-1810.	1.7	2
34	High frequency local vibrational modes of oxygen doped CdSe. Journal of Applied Physics, 2013, 114, 194901.	2.5	2
35	Mixed-salt effects on the conformation of a short salt-bridge-forming $\hat{\pm}$ -helix: A simulation study. Physical Review E, 2014, 89, 022717.	2.1	2
36	A Framework of Teaching and Learning with e-Textbooks in Smart Learning Environment. , 2015, , .		2

#	ARTICLE	IF	CITATIONS
37	A New Microscopic Theory of Low Frequency Raman Modes in Ge Nanocrystals. AIP Conference Proceedings, 2005, , .	0.4	1
38	Microscopic phonon theory of Si/Ge nanocrystals. Frontiers of Physics in China, 2008, 3, 165-172.	1.0	1
39	A Density-Functional Study of Oxygen Impurity Complexes in CdTe. AIP Conference Proceedings, 2011, , .	0.4	1
40	Vibrational modes of oxygen complexes in CdSe. , 2013, , .		1
41	Dynamical processes of low-energy carbon ion collision with the graphene supported by diamond. EPJ Applied Physics, 2014, 67, 30402.	0.7	1
42	Enhancement in optical absorption of CsI(Na). Nuclear Science and Techniques/Hewuli, 2022, 33, 1.	3.4	1
43	Frontier electronic energy levels of tetrahedral (Td) fullerenes. Journal of Electron Spectroscopy and Related Phenomena, 2000, 107, 301-308.	1.7	0
44	Molecular dynamics study on the structure I xenon hydrate. Science Bulletin, 2005, 50, 822.	1.7	0
45	Molecular insights into the mechanisms of cation-type specific stability and denaturation of poly-<sc>glutamate: a simulation study. Molecular Simulation, 2013, 39, 842-847.	2.0	0
46	Electronic band structure and optical absorption of CdSe doped with interstitial oxygen molecules. Journal of Physics and Chemistry of Solids, 2018, 123, 6-10.	4.0	0
47	Microscopic Modeling of Phonon Modes in Semiconductor Nanocrystals. , 2009, , 485-536.		0
48	Electronic stopping power and electronic energy-loss mechanism for a low-energy ion in TiN under channeling conditions. Physical Review A, 2022, 105, .	2.5	0