Zhaochuan Fan

List of Publications by Year
in descending order

		759233	888059
17	450	12	17
papers	citations	h-index	g-index

19	19	19	873
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A multiscale study of misfit dislocations in PbTe/PbSe(001) heteroepitaxy. Journal of Materials Research, 2019, 34, 2306-2314.	2.6	10
2	Controlling Nanoparticle Orientations in the Self-Assembly of Patchy Quantum Dot-Gold Heterostructural Nanocrystals. Journal of the American Chemical Society, 2019, 141, 6013-6021.	13.7	49
3	Thermally Induced Wurtzite to hâ€BN Structural Transition. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800584.	2.4	3
4	Orientational Order in Self-Assembled Nanocrystal Superlattices. Journal of the American Chemical Society, 2019, 141, 1980-1988.	13.7	52
5	Ab initio phase diagram of PbSe crystals calculated with the random phase approximation. Physical Review B, 2018, 98, .	3.2	2
6	Self-Assembly of Quantum Dotâ€“Gold Heterodimer Nanocrystals with Orientational Order. Nano Letters, 2018, 18, 5049-5056.	9.1	25
7	Fracture behaviors of brittle and ductile 2D carbon structures under uniaxial tensile stress. Carbon, 2017, 111, 486-492.	10.3	59
8	Atomistic understanding of cation exchange in PbS nanocrystals using simulations with pseudoligands. Nature Communications, 2016, 7, 11503.	12.8	48
9	Heat-induced transformation of CdSeâ€“CdSâ€“ZnS coreâ€“multishell quantum dots by Zn diffusion into inner layers. Chemical Communications, 2015, 51, 3320-3323.	4.1	20
10	Crystal structure, stability, and electronic properties of hydrated metal sulfates MSO4(H2O)n (M=Ni,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 77-86.	3.8	13
11	Coreâ€“shell reconfiguration through thermal annealing in Fe_xO/CoFe₂O₄ordered 2D nanocrystal arrays. Nanotechnology, 2014, 25, 055601.	2.6	9
12	A transferable force field for CdS-CdSe-PbS-PbSe solid systems. Journal of Chemical Physics, 2014, 141, 244503.	3.0	19
13	New Ab Initio Based Pair Potential for Accurate Simulation of Phase Transitions in ZnO. Journal of Physical Chemistry C, 2014, 118, 11050-11061.	3.1	45
14	Atomic Resolution Monitoring of Cation Exchange in CdSe-PbSe Heteronanocrystals during Epitaxial Solidâ€“Solidâ€“Vapor Growth. Nano Letters, 2014, 14, 3661-3667.	9.1	48
15	From Sphere to Multipod: Thermally Induced Transitions of CdSe Nanocrystals Studied by Molecular Dynamics Simulations. Journal of the American Chemical Society, 2013, 135, 5869-5876.	13.7	19
16	Firstâ€principles calculation of vibrational properties of B₁₂As₂ crystal. Physica Status Solidi (B): Basic Research, 2011, 248, 1242-1247.	1.5	7
17	First principles calculations of the vibrational properties of icosahedral solid boron oxygen B12O2. Physica B: Condensed Matter, 2011, 406, 297-303.	2.7	18