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	Fracture behaviors of brittle and ductile 2D carbon structures under uniaxial tensile stress. Carbon, 2017, 111, 486-492.	10.3	59
2	Orientational Order in Self-Assembled Nanocrystal Superlattices. Journal of the American Chemical Society, 2019, 141, 1980-1988.	13.7	52
3	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
4	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
5	Atomistic understanding of cation exchange in PbS nanocrystals using simulations with pseudoligands. Nature Communications, 2016, 7, 11503.	12.8	48
6	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
7	Self-Assembly of Quantum Dotâ€“Gold Heterodimer Nanocrystals with Orientational Order. Nano Letters, 2018, 18, 5049-5056.	9.1	25
8	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
9	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
10	A transferable force field for CdS-CdSe-PbS-PbSe solid systems. Journal of Chemical Physics, 2014, 141, 244503.	3.0	19
11	First principles calculations of the vibrational properties of icosahedral solid boron oxygen B12O2. Physica B: Condensed Matter, 2011, 406, 297-303.	2.7	18
12	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
13	A multiscale study of misfit dislocations in PbTe/PbSe(001) heteroepitaxy. Journal of Materials Research, 2019, 34, 2306-2314.	2.6	10
14	Coreâ€“shell reconfiguration through thermal annealing in Fe_xO/CoFe₂O₄ordered 2D nanocrystal arrays. Nanotechnology, 2014, 25, 055601.	2.6	9
15	Firstâ€principles calculation of vibrational properties of B₁₂As₂ crystal. Physica Status Solidi (B): Basic Research, 2011, 248, 1242-1247.	1.5	7
16	Thermally Induced Wurtzite to hâ€BN Structural Transition. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800584.	2.4	3
17	Ab initio phase diagram of PbSe crystals calculated with the random phase approximation. Physical Review B, 2018, 98, .	3.2	2