Alper Kinaci

List of Publications by Year
in descending order

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30 papers	2,115 citations	361045 20 h-index	552369 26 g-index
32 all docs	32 docs citations	32 times ranked	3258 citing authors

#	Article	IF	Citations
1	Thermal conductivity of BN-C nanostructures. Physical Review B, 2012, 86, .	1.1	429
2	Control of Thermal and Electronic Transport in Defect-Engineered Graphene Nanoribbons. ACS Nano, 2011, 5, 3779-3787.	7.3	320
3	Characterization of thermal transport in low-dimensional boron nitride nanostructures. Physical Review B, 2011, 84, .	1.1	264
4	First-Principles Analysis of Defect Thermodynamics and Ion Transport in Inorganic SEI Compounds: LiF and NaF. ACS Applied Materials & Interfaces, 2015, 7, 18985-18996.	4.0	191
5	First-Principles Analysis of Defect-Mediated Li Adsorption on Graphene. ACS Applied Materials & Interfaces, 2014, 6, 21141-21150.	4.0	120
6	Thermal transport properties of MoS₂and MoSe₂monolayers. Nanotechnology, 2016, 27, 055703.	1.3	108
7	Ab Initio-Based Bond Order Potential to Investigate Low Thermal Conductivity of Stanene Nanostructures. Journal of Physical Chemistry Letters, 2016, 7, 3752-3759.	2.1	80
8	On calculation of thermal conductivity from Einstein relation in equilibrium molecular dynamics. Journal of Chemical Physics, 2012, 137, 014106.	1.2	64
9	Towards accurate prediction of catalytic activity in IrO₂ nanoclusters via first principles-based variable charge force field. Journal of Materials Chemistry A, 2015, 3, 18970-18982.	5.2	62
10	Visualizing Redox Dynamics of a Single Ag/AgCl Heterogeneous Nanocatalyst at Atomic Resolution. ACS Nano, 2016, 10, 3738-3746.	7.3	61
11	Influence of disorder on thermal transport properties of boron nitride nanostructures. Physical Review B, 2012, 86, .	1.1	54
12	Ab initio investigation of FeTiâ€“H system. International Journal of Hydrogen Energy, 2007, 32, 2466-2474.	3.8	46
13	Electronic transport properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SrTiO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>its alloys:<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Sr</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Physical Review B, 2010, 82, .	1.1	45
14	Template-Free Vapor-Phase Growth of PatrÃ³nite by Atomic Layer Deposition. Chemistry of Materials, 2017, 29, 2864-2873.	3.2	37
15	Slow Organicâ€toâ€Inorganic Subâ€Lattice Thermalization in Methylammonium Lead Halide Perovskites Observed by Ultrafast Photoluminescence. Advanced Energy Materials, 2016, 6, 1600422.	10.2	32
16	Defect Evolution in Graphene upon Electrochemical Lithiation. ACS Applied Materials & Interfaces, 2014, 6, 17626-17636.	4.0	30
17	Describing the Diverse Geometries of Gold from Nanoclusters to Bulkâ€”A First-Principles-Based Hybrid Bond-Order Potential. Journal of Physical Chemistry C, 2016, 120, 13787-13800.	1.5	26
18	Development of a Modified Embedded Atom Force Field for Zirconium Nitride Using Multi-Objective Evolutionary Optimization. Journal of Physical Chemistry C, 2016, 120, 17475-17483.	1.5	23

#	Article	IF	Citations
19	Thermal conductivity of Siâ€“Ge quantum dot superlattices. Nanotechnology, 2011, 22, 155701.	1.3	22
20	Evolutionary Optimization of a Charge Transfer Ionic Potential Model for Ta/Ta-Oxide Heterointerfaces. Chemistry of Materials, 2017, 29, 3603-3614.	3.2	22
21	Unraveling the Planar-Globular Transition in Gold Nanoclusters through Evolutionary Search. Scientific Reports, 2016, 6, 34974.	1.6	21
22	Temperature dependence of flexoelectricity in BaTiO3 and SrTiO3 perovskite nanostructures. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 2181-2183.	0.9	18
23	Equilibrium limit of thermal conduction and boundary scattering in nanostructures. Journal of Chemical Physics, 2014, 140, 244112.	1.2	11
24	Machine learnt bond order potential to model metalâ€“organic (Coâ€“C) heterostructures. Nanoscale, 2017, 9, 18229-18239.	2.8	11
25	Tailoring thermal conductivity of silicon/germanium nanowires utilizing core-shell architecture. Journal of Applied Physics, 2016, 119, .	1.1	10
26	Electronic transport in VO2â€”Experimentally calibrated Boltzmann transport modeling. Applied Physics Letters, 2015, 107, .	1.5	7
27	Molecular Dynamics Simulations of Piezoelectric Materials for Energy Harvesting Applications. Materials Science Forum, 0, 792, 54-64.	0.3	1
28	Influence of Core-Shell Architecture Parameters on Thermal Conductivity of Si-Ge Nanowires. Materials Research Society Symposia Proceedings, 2015, 1735, 68.	0.1	0
29	Tailoring Thermal Conductivity of Ge/Si Core-Shell Nanowires. , 2015, , 433-440.		0
30	EFFECT OF ALLOYING ELEMENTS ON THE FORMATION OF FeTiH4: AN AB INITIO STUDY. NATO Science for Peace and Security Series C: Environmental Security, 2008, , 573-578.	0.1	0