Alper Kinaci

List of Publications by Citations

32 papers	1,665 citations	18 h-index	32 g-index
32 ext. papers	1,916 ext. citations	6.3 avg, IF	4.67 L-index

#	Paper	IF	Citations
32	Thermal conductivity of BN-C nanostructures. *Physical Review B*, **2012**, 86,	3.3	332
31	Control of thermal and electronic transport in defect-engineered graphene nanoribbons. *ACS Nano*, **2011**, 5, 3779-87	16.7	279
30	Characterization of thermal transport in low-dimensional boron nitride nanostructures. *Physical Review B*, **2011**, 84,	3.3	227
29	First-Principles Analysis of Defect Thermodynamics and Ion Transport in Inorganic SEI Compounds: LiF and NaF. *ACS Applied Materials & Interfaces*, **2015**, 7, 18985-96	9.5	123
28	First-principles analysis of defect-mediated Li adsorption on graphene. *ACS Applied Materials & Interfaces*, **2014**, 6, 21141-50	9.5	92
27	Thermal transport properties of MoS2 and MoSe2 monolayers. *Nanotechnology*, **2016**, 27, 055703	3.4	66
26	Ab Initio-Based Bond Order Potential to Investigate Low Thermal Conductivity of Stanene Nanostructures. *Journal of Physical Chemistry Letters*, **2016**, 7, 3752-3759	6.4	60
25	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	13	51
24	On calculation of thermal conductivity from Einstein relation in equilibrium molecular dynamics. *Journal of Chemical Physics*, **2012**, 137, 014106	3.9	51
23	Visualizing Redox Dynamics of a Single Ag/AgCl Heterogeneous Nanocatalyst at Atomic Resolution. *ACS Nano*, **2016**, 10, 3738-46	16.7	49
22	Influence of disorder on thermal transport properties of boron nitride nanostructures. *Physical Review B*, **2012**, 86,	3.3	47
21	Electronic transport properties of SrTiO3 and its alloys: Sr1−xLaxTiO3 and SrTi1−xMxO3 (M=Nb,Ta). *Physical Review B*, **2010**, 82,	3.3	41
20	Ab initio investigation of FeTiH system. *International Journal of Hydrogen Energy*, **2007**, 32, 2466-2474	6.7	39
19	Slow Organic-to-Inorganic Sub-Lattice Thermalization in Methylammonium Lead Halide Perovskites Observed by Ultrafast Photoluminescence. *Advanced Energy Materials*, **2016**, 6, 1600422	21.8	29
18	Defect evolution in graphene upon electrochemical lithiation. *ACS Applied Materials & Interfaces*, **2014**, 6, 17626-36	9.5	26
17	Template-Free Vapor-Phase Growth of Patronite by Atomic Layer Deposition. *Chemistry of Materials*, **2017**, 29, 2864-2873	9.6	24
16	Thermal conductivity of Si-Ge quantum dot superlattices. *Nanotechnology*, **2011**, 22, 155701	3.4	22

List of Publications

15	Describing the Diverse Geometries of Gold from Nanoclusters to Bulk: A First-Principles-Based Hybrid Bond-Order Potential. *Journal of Physical Chemistry C*, **2016**, 120, 13787-13800	3.8	19
14	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	3.8	17
13	Evolutionary Optimization of a Charge Transfer Ionic Potential Model for Ta/Ta-Oxide Heterointerfaces. *Chemistry of Materials*, **2017**, 29, 3603-3614	9.6	14
12	Unraveling the Planar-Globular Transition in Gold Nanoclusters through Evolutionary Search. *Scientific Reports*, **2016**, 6, 34974	4.9	14
11	Temperature dependence of flexoelectricity in BaTiO3 and SrTiO3 perovskite nanostructures. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2014**, 378, 2181-2183	2.3	12
10	Equilibrium limit of thermal conduction and boundary scattering in nanostructures. *Journal of Chemical Physics*, **2014**, 140, 244112	3.9	11
9	Machine learnt bond order potential to model metal-organic (Co-C) heterostructures. *Nanoscale*, **2017**, 9, 18229-18239	7.7	8
8	Tailoring thermal conductivity of silicon/germanium nanowires utilizing core-shell architecture. *Journal of Applied Physics*, **2016**, 119, 155101	2.5	6
7	Electronic transport in VO2: Experimentally calibrated Boltzmann transport modeling. *Applied Physics Letters*, **2015**, 107, 262108	3.4	5
6	Molecular Dynamics Simulations of Piezoelectric Materials for Energy Harvesting Applications. *Materials Science Forum*, **2014**, 792, 54-64	0.4	1
5	Influence of Core-Shell Architecture Parameters on Thermal Conductivity of Si-Ge Nanowires. *Materials Research Society Symposia Proceedings*, **2015**, 1735, 68		
4	Tailoring Thermal Conductivity of Ge/Si Core-Shell Nanowires **2015**, 433-440		
3	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	0.3	
2	Tailoring Thermal Conductivity of Ge/Si Core-Shell Nanowires **2015**, 433-440		
1	Thermal Transport for Nanostructured Materials. *Springer Series in Materials Science*, **2021**, 451-479	0.9	