Alper Kinaci

List of Publications by Year in Descending Order

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 Transport for Nanostructured Materials. *Springer Series in Materials Science*, **2021**, 451-479	0.9	
31	Template-Free Vapor-Phase Growth of Patr□ite by Atomic Layer Deposition. *Chemistry of Materials*, **2017**, 29, 2864-2873	9.6	24
30	Evolutionary Optimization of a Charge Transfer Ionic Potential Model for Ta/Ta-Oxide Heterointerfaces. *Chemistry of Materials*, **2017**, 29, 3603-3614	9.6	14
29	Machine learnt bond order potential to model metal-organic (Co-C) heterostructures. *Nanoscale*, **2017**, 9, 18229-18239	7.7	8
28	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
27	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
26	Thermal transport properties of MoS2 and MoSe2 monolayers. *Nanotechnology*, **2016**, 27, 055703	3.4	66
25	Visualizing Redox Dynamics of a Single Ag/AgCl Heterogeneous Nanocatalyst at Atomic Resolution. *ACS Nano*, **2016**, 10, 3738-46	16.7	49
24	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
23	Unraveling the Planar-Globular Transition in Gold Nanoclusters through Evolutionary Search. *Scientific Reports*, **2016**, 6, 34974	4.9	14
22	Tailoring thermal conductivity of silicon/germanium nanowires utilizing core-shell architecture. *Journal of Applied Physics*, **2016**, 119, 155101	2.5	6
21	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
20	Influence of Core-Shell Architecture Parameters on Thermal Conductivity of Si-Ge Nanowires. *Materials Research Society Symposia Proceedings*, **2015**, 1735, 68		
19	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
18	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
17	Tailoring Thermal Conductivity of Ge/Si Core-Shell Nanowires **2015**, 433-440		
16	Electronic transport in VO2□Experimentally calibrated Boltzmann transport modeling. *Applied Physics Letters*, **2015**, 107, 262108	3.4	5

15	Tailoring Thermal Conductivity of Ge/Si Core-Shell Nanowires **2015**, 433-440		
14	First-principles analysis of defect-mediated Li adsorption on graphene. *ACS Applied Materials & Interfaces*, **2014**, 6, 21141-50	9.5	92
13	Equilibrium limit of thermal conduction and boundary scattering in nanostructures. *Journal of Chemical Physics*, **2014**, 140, 244112	3.9	11
12	Defect evolution in graphene upon electrochemical lithiation. *ACS Applied Materials & Interfaces*, **2014**, 6, 17626-36	9.5	26
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	Molecular Dynamics Simulations of Piezoelectric Materials for Energy Harvesting Applications. *Materials Science Forum*, **2014**, 792, 54-64	0.4	1
9	Thermal conductivity of BN-C nanostructures. *Physical Review B*, **2012**, 86,	3.3	332
8	Influence of disorder on thermal transport properties of boron nitride nanostructures. *Physical Review B*, **2012**, 86,	3.3	47
7	On calculation of thermal conductivity from Einstein relation in equilibrium molecular dynamics. *Journal of Chemical Physics*, **2012**, 137, 014106	3.9	51
6	Control of thermal and electronic transport in defect-engineered graphene nanoribbons. *ACS Nano*, **2011**, 5, 3779-87	16.7	279
5	Characterization of thermal transport in low-dimensional boron nitride nanostructures. *Physical Review B*, **2011**, 84,	3.3	227
4	Thermal conductivity of Si-Ge quantum dot superlattices. *Nanotechnology*, **2011**, 22, 155701	3.4	22
3	Electronic transport properties of SrTiO3 and its alloys: Sr1−xLaxTiO3 and SrTi1−xMxO3 (M=Nb,Ta). *Physical Review B*, **2010**, 82,	3.3	41
2	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	
1	Ab initio investigation of FeTi–H system. *International Journal of Hydrogen Energy*, **2007**, 32, 2466-2474	6.7	39