Satya S Bulusu

List of Publications by Year
in descending order

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17	885	933447	888059
papers	citations	10	17
		h-index	g-index

18	18	18	816
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	FPGA accelerator for machine learning interatomic potential based molecular dynamics of gold nanoparticles. IEEE Access, 2022, , 1-1.	4.2	0
2	Structural evolution in gold nanoparticles using artificial neural network based interatomic potentials. Journal of Chemical Physics, 2020, 152, 154302.	3.0	8
3	An algorithm to use higher order invariants for modelling potential energy surface of nanoclusters. Chemical Physics Letters, 2018, 693, 152-158.	2.6	4
4	A transferable artificial neural network model for atomic forces in nanoparticles. Journal of Chemical Physics, 2018, 149, 194101.	3.0	9
5	Correlation of structure with UV-visible spectra by varying SH composition in Au-SH nanoclusters. Journal of Chemical Physics, 2018, 149, 074307.	3.0	2
6	Neural network potentials for dynamics and thermodynamics of gold nanoparticles. Journal of Chemical Physics, 2017, 146, 084314.	3.0	46
7	Spherical harmonics based descriptor for neural network potentials: Structure and dynamics of Au147 nanocluster. Journal of Chemical Physics, 2017, 146, 204301.	3.0	48
8	Structural Evolution of Gold Clusters Aunâ€“ (n = 21â€“25) Revisited. Journal of Physical Chemistry A, 2017, 121, 2466-2474.	2.5	19
9	c-T phase diagram and Landau free energies of (AgAu)55 nanoalloy via neural-network molecular dynamic simulations. Journal of Chemical Physics, 2017, 147, 154303.	3.0	14
10	Modeling of DFT quality neural network potential for sodium clusters: Application to melting of sodium clusters (Na20 to Na40). Chemical Physics Letters, 2016, 652, 130-135.	2.6	25
11	Structural evolution of nucleobase clusters using force field models and density functional theory. Chemical Physics Letters, 2015, 634, 166-173.	2.6	2
12	Methanol clusters (CH3OH)n: Putative global minimum-energy structures from model potentials and dispersion-corrected density functional theory. Journal of Chemical Physics, 2013, 138, 224303.	3.0	42
13	Density functional theory guided Monte Carlo simulations: Application to melting of Na13. Journal of Chemical Physics, 2012, 136, 064112.	3.0	8
14	Structural Transition of Gold Nanoclusters: From the Golden Cage to the Golden Pyramid. ACS Nano, 2009, 3, 1225-1230.	14.6	103
15	Au34-:â€‰ A Fluxional Coreâ^'Shell Cluster. Journal of Physical Chemistry C, 2007, 111, 8228-8232.	3.1	103
16	Structural Transitions from Pyramidal to Fused Planar to Tubular to Core/Shell Compact in Gold Clusters:â€‰ Aun- (n = 21â^'25). Journal of Physical Chemistry C, 2007, 111, 4190-4198.	3.1	85
17	Evidence of hollow golden cages. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8326-8330.	7.1	361