Chinnathambi Kamal

List of Publications by Year
in descending order

46 papers	1,605 citations	567144 15 h-index	289141 40 g-index
46 all docs	46 docs citations	46 times ranked	2192 citing authors

#	Article	IF	Citations
1	Arsenene: Two-dimensional buckled and puckered honeycomb arsenic systems. Physical Review B, 2015, 91, .	1.1	724
2	Direct band gaps in group IV-VI monolayer materials: Binary counterparts of phosphorene. Physical Review B, 2016, 93, .	1.1	156
3	Martensitic transition, ferrimagnetism and Fermi surface nesting in Mn 2 NiGa. Europhysics Letters, 2007, 80, 57002.	0.7	89
4	Aluminene as highly holeâ€doped graphene. New Journal of Physics, 2015, 17, 083014.	1.2	82
5	Silicene beyond mono-layersâ€"different stacking configurations and their properties. Journal of Physics Condensed Matter, 2013, 25, 085508.	0.7	74
6	Calculation of ground- and excited-state energies of confined helium atom. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 350, 121-125.	0.9	49
7	Local Structure Investigation of Cobalt and Manganese Doped ZnO Nanocrystals and Its Correlation with Magnetic Properties. Journal of Physical Chemistry C, 2014, 118, 9154-9164.	1.5	47
8	Tuning the Bandgap in Silver Bismuth Iodide Materials by Partly Substituting Bismuth with Antimony for Improved Solar Cell Performance. ACS Applied Energy Materials, 2020, 3, 7372-7382.	2.5	30
9	Local structure investigation of (Co, Cu) co-doped ZnO nanocrystals and its correlation with magnetic properties. Journal of Physics and Chemistry of Solids, 2016, 90, 100-113.	1.9	29
10	Nonlinear Optical Properties of Au₁₉M (M = Li, Na, K, Rb, Cs, Cu, Ag) Clusters. Journal of Physical Chemistry C, 2012, 116, 193-200.	1.5	24
11	Mixedâ€Halide Double Perovskite Cs₂AgBiX₆ (X=Br, I) with Tunable Optical Properties via Anion Exchange. ChemSusChem, 2021, 14, 4507-4515.	3.6	24
12	Comparison of electronic and geometric structures of nanotubes with subnanometer diameters: A density functional theory study. Physical Review B, 2007, 76, .	1.1	21
13	Improved gas adsorption on functionalized aluminene surface: A first-principles study. Applied Surface Science, 2020, 531, 147364.	3.1	20
14	Electronic structure of FeAl alloy studied by resonant photoemission spectroscopy and Ab initio calculations. Journal of Alloys and Compounds, 2016, 688, 187-194.	2.8	18
15	Density functional investigation on the structures and properties of Li atom doped Au₂₀ cluster. Molecular Physics, 2013, 111, 725-734.	0.8	16
16	The van der Waals coefficients between carbon nanostructures and small molecules: A time-dependent density functional theory study. Journal of Chemical Physics, 2009, 131, 164708.	1.2	15
17	Correlation of size and oxygen bonding at the interface of Si nanocrystal in Siâ€"SiO₂ nanocomposite: A Raman mapping study. Journal of Raman Spectroscopy, 2016, 47, 457-467.	1.2	13
18	Ab initio investigation on hybrid graphite-like structure made up of silicene and boron nitride. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1162-1169.	0.9	12

#	Article	IF	Citations
19	Ab initio studies of effect of intercalation on the properties of single walled carbon and gallium phosphide nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 54, 273-280.	1.3	11
20	Structural and magnetic studies on (Fe, Cu) co-doped ZnO nanocrystals. Journal of Physics and Chemistry of Solids, 2017, 104, 198-206.	1.9	11
21	Density functional study of Î±-amino acids: structural, energetic and vibrational properties. Molecular Physics, 2011, 109, 875-892.	0.8	10
22	Interesting periodic variations in physical and chemical properties of homonuclear diatomic molecules. International Journal of Quantum Chemistry, 2012, 112, 1097-1106.	1.0	10
23	Bond length variation in Zn substituted NiO studied from extended X-ray absorption fine structure. Solid State Communications, 2017, 259, 40-44.	0.9	10
24	Massless Dirac fermions in stable two-dimensional carbon-arsenic monolayer. Physical Review B, 2019, 100, .	1.1	10
25	Silicene: A Promising Surface to Achieve Morphological Transformation in Gold Clusters. Journal of Physical Chemistry C, 2015, 119, 3192-3198.	1.5	9
26	A-site cation influence on the conduction band of lead bromide perovskites. Nature Communications, 2022, 13, .	5.8	9
27	Remarkable Structural Effect on the Goldâ€“Hydrogen Analogy in Hydrogen-Doped Gold Cluster. Journal of Physical Chemistry A, 2019, 123, 1973-1982.	1.1	8
28	High-pressure studies on the properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>FeGa</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math> : Role of on-site Coulomb correlation. Physical Review B, 2017, 95, .	1.1	7
29	Core-Level Binding Energy Reveals Hydrogen Bonding Configurations of Water Adsorbed on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>TiO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> (110). Physical Review Letters, 2019, 123, 016102.	8.6	7
30	Sensitivity of Nitrogen K-Edge X-ray Absorption to Halide Substitution and Thermal Fluctuations in Methylammonium Lead-Halide Perovskites. Journal of Physical Chemistry C, 2021, 125, 8360-8368.	1.5	7
31	Electronic coupling between the unoccupied states of the organic and inorganic sublattices of methylammonium lead iodide: A hybrid organic-inorganic perovskite single crystal. Physical Review B, 2021, 104, .	1.1	7
32	Ab initio study of stoichiometric gallium phosphide clusters. Journal of Chemical Physics, 2009, 130, 024308.	1.2	6
33	First-principles study of adsorption of 3d and 4d transition metal atoms on aluminene. Computational Condensed Matter, 2018, 16, e00319.	0.9	6
34	How universal are hydrogen bond correlations? A density functional study of intramolecular hydrogen bonding in low-energy conformers of Î±-amino acids. Molecular Physics, 2013, 111, 3067-3076.	0.8	5
35	Structural and electronic properties of Fe(Al_xGa_{1â€“}_x)₃ system. Journal of Applied Physics, 2016, 120, 165102.	1.1	5
36	Experimental and Theoretical Core Level and Valence Band Analysis of Clean Perovskite Single Crystal Surfaces. Small, 2022, 18, e2106450.	5.2	5

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37	Structural Investigations of (Ni,Cu) Coâ€“Doped ZnO Nanocrystals by Xâ€ray Absorption Spectroscopy. ChemistrySelect, 2018, 3, 5644-5651.	0.7	4
38	Coupling Methylammonium and Formamidinium Cations with Halide Anions: Hybrid Orbitals, Hydrogen Bonding, and the Role of Dynamics. Journal of Physical Chemistry C, 2021, 125, 25917-25926.	1.5	4
39	Intercalation of transition metals in aluminene bi-layers: An ab initio study. Journal of Chemical Physics, 2019, 150, 194702.	1.2	3
40	Isoelectronically substituted group-III based monolayers: An ab initio study. Physical Review B, 2020, 102, .	1.1	3
41	Strain induced magnetism and half-metallicity in alkali metal substituted aluminene. AIP Conference Proceedings, 2019, , .	0.3	2
42	First principles DFT study of weak C-H[ellipsis (horizontal)]O bonds in crystalline amino acids under pressure-alanine. , 2013, , .		1
43	Transition metal intercalated bilayer silicene. AIP Conference Proceedings, 2018, , .	0.3	1
44	Structural and optical properties of transparent, tunable bandgap semiconductor: Î±-(AlxCr1âˆ’x)2O3. Journal of Applied Physics, 2020, 128, 135703.	1.1	1
45	Experimental and first principle studies on electronic structure of BaTiO3. , 2014, , .		0
46	Core level and valence band analysis of in-situ cleaved perovskite single crystals. , 0, , .		0