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	Experimental and Theoretical Core Level and Valence Band Analysis of Clean Perovskite Single Crystal Surfaces. Small, 2022, 18, e2106450.	5.2	5
2	A-site cation influence on the conduction band of lead bromide perovskites. Nature Communications, 2022, 13, .	5.8	9
3	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> stretchy="false">(</mml:mo><mml:mn>110</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 652 Td (stretchy="false">) 016102.	2.8	7
4	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
5	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
6	Mixedâ€Halide Double Perovskite Cs₂AgBiX₆ (X=Br, I) with Tunable Optical Properties via Anion Exchange. ChemSusChem, 2021, 14, 4507-4515.	3.6	24
7	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
8	Structural and optical properties of transparent, tunable bandgap semiconductor: Î±-(AlxCr1â^'x)2O3. Journal of Applied Physics, 2020, 128, 135703.	1.1	1
9	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
10	Improved gas adsorption on functionalized aluminene surface: A first-principles study. Applied Surface Science, 2020, 531, 147364.	3.1	20
11	Isoelectronically substituted group-III based monolayers: An ab initio study. Physical Review B, 2020, 102, .	1.1	3
12	Strain induced magnetism and half-metallicity in alkali metal substituted aluminene. AIP Conference Proceedings, 2019, , .	0.3	2
13	Massless Dirac fermions in stable two-dimensional carbon-arsenic monolayer. Physical Review B, 2019, 100, .	1.1	10
14	Intercalation of transition metals in aluminene bi-layers: An ab initio study. Journal of Chemical Physics, 2019, 150, 194702.	1.2	3
15	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
16	Transition metal intercalated bilayer silicene. AIP Conference Proceedings, 2018, , .	0.3	1
17	First-principles study of adsorption of 3d and 4d transition metal atoms on aluminene. Computational Condensed Matter, 2018, 16, e00319.	0.9	6
18	Structural Investigations of (Ni,Cu) Coâ€“Doped ZnO Nanocrystals by Xâ€ray Absorption Spectroscopy. ChemistrySelect, 2018, 3, 5644-5651.	0.7	4

#	Article	IF	Citations
19	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
20	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
21	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></ : Role of on-site Coulomb correlation. Physical Review B, 2017, 95, .	1.1	7
22	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
23	Structural and electronic properties of Fe(Al_xGa_{1â€“}_x)₃ system. Journal of Applied Physics, 2016, 120, 165102.	1.1	5
24	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
25	Direct band gaps in group IV-VI monolayer materials: Binary counterparts of phosphorene. Physical Review B, 2016, 93, .	1.1	156
26	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
27	Silicene: A Promising Surface to Achieve Morphological Transformation in Gold Clusters. Journal of Physical Chemistry C, 2015, 119, 3192-3198.	1.5	9
28	Arsenene: Two-dimensional buckled and puckered honeycomb arsenic systems. Physical Review B, 2015, 91, .	1.1	724
29	Aluminene as highly holeâ€doped graphene. New Journal of Physics, 2015, 17, 083014.	1.2	82
30	Experimental and first principle studies on electronic structure of BaTiO3. , 2014, , .		0
31	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
32	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
33	Density functional investigation on the structures and properties of Li atom doped Au₂₀ cluster. Molecular Physics, 2013, 111, 725-734.	0.8	16
34	First principles DFT study of weak C-H[ellipsis (horizontal)]O bonds in crystalline amino acids under pressure-alanine. , 2013, , .		1
35	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
36	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

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37	Silicene beyond mono-layersâ€"different stacking configurations and their properties. Journal of Physics Condensed Matter, 2013, 25, 085508.	0.7	74
38	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
39	Interesting periodic variations in physical and chemical properties of homonuclear diatomic molecules. International Journal of Quantum Chemistry, 2012, 112, 1097-1106.	1.0	10
40	Density functional study of Î±-amino acids: structural, energetic and vibrational properties. Molecular Physics, 2011, 109, 875-892.	0.8	10
41	Ab initio study of stoichiometric gallium phosphide clusters. Journal of Chemical Physics, 2009, 130, 024308.	1.2	6
42	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
43	Martensitic transition, ferrimagnetism and Fermi surface nesting in Mn 2 NiGa. Europhysics Letters, 2007, 80, 57002.	0.7	89
44	Comparison of electronic and geometric structures of nanotubes with subnanometer diameters: A density functional theory study. Physical Review B, 2007, 76, .	1.1	21
45	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
46	Core level and valence band analysis of in-situ cleaved perovskite single crystals. , 0, , .		0