Prabhat Ranjan

List of Publications by Year
in descending order

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40	403	932766 10	839053 18
papers	citations	h-index	g-index

40	40	40	308
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Computational study of Cu_nAgAu (nÂ=Â1â€“4) clusters invoking DFT based descriptors. ChemistrySelect, 2023, 8, 3605-3613.	0.7	3
2	A systematic computational study of acridine derivatives through conceptual density functional theory. Molecular Diversity, 2023, 27, 1271-1283.	2.1	3
3	Theoretical analysis of AgFen (nÂ=Â1â€“5) clusters: A DFT study. Materials Today: Proceedings, 2022, 54, 873-877.	0.9	2
4	A computational and theoretical study of some heavy metal heteronuclear dimers. Journal of the Indian Chemical Society, 2022, , 100643.	1.3	0
5	Coronavirus (COVID-19): ARIMA-based Time-series Analysis to Forecast near Future and the Effect of School Reopening in India. Journal of Health Management, 2022, 24, 373-388.	0.4	8
6	Polarizability: a promising descriptor to study chemicalâ€“biological interactions. Molecular Diversity, 2021, 25, 249-262.	2.1	24
7	Structure, electronic and optical properties of chalcopyrite semiconductor AgTiX2 (XÂ=ÂS, Se, Te): A density functional theory study. Thin Solid Films, 2021, 717, 138469.	0.8	18
8	Computational analysis of [AunSi]+ (nâ€¯=â€¯1â€“5) nanoalloy clusters. Materials Today: Proceedings, 2021, 43, 3203-3205.	0.9	0
9	Structure, electronic and optical properties of chalcopyrite-type nano-clusters XFeY₂ (X=Cu, Ag, Au; Y=S, Se, Te): a density functional theory study. Pure and Applied Chemistry, 2021, 93, 591-606.	0.9	10
10	Structure and electronic properties of [AunV]Î» (nâ€‰=â€‰1â€“9; Î»â€‰=â€‰0,â€‰Â±â€‰1) nanoalloy clusters within density functional theory framework. Theoretical Chemistry Accounts, 2021, 140, 1.	0.5	6
11	A computational study of chalcopyrite-type nanomaterials for solar cell applications. Materials Science in Semiconductor Processing, 2021, 127, 105745.	1.9	17
12	A Review on Nanoalloy Clusters: Theory to Applications. Recent Patents on Engineering, 2021, 15, .	0.3	1
13	A study of structure and electronic properties of chalcopyrites semiconductor invoking Density Functional Theory. Materials Chemistry and Physics, 2020, 241, 122346.	2.0	33
14	A comparative study of structure, stabilities and electronic properties of neutral and cationic [AuSin]Î» and [Sin+1]Î» (Î» = 0, +1; nâ€¯=â€¯1â€“12) nanoalloy clusters. Materials Today Communications, 2020, 22, 100832.	0.9	13
15	Atomic polarizability: A periodic descriptor. Journal of Chemical Research, 2020, 44, 227-234.	0.6	5
16	Theoretical Analysis of Au-Pd Nanoalloy Clusters: A DFT Study. Journal of Physics: Conference Series, 2020, 1455, 012008.	0.3	1
17	Structure and optical properties of (CuAg)n (n = 1â€“6) nanoalloy clusters within density functional theory framework. Journal of Nanoparticle Research, 2020, 22, 1.	0.8	10
18	Computation of absolute radii of 103 elements of the periodic table in terms of nucleophilicity index. Journal of Mathematical Chemistry, 2020, 58, 1025-1040.	0.7	12

#	Article	IF	Citations
19	Structure and electronic properties of AunPt (nâ€‰=â€‰1â€“8) nanoalloy clusters: the density functional theory study. Journal of Nanoparticle Research, 2020, 22, 1.	0.8	17
20	Density functional study of structures, stabilities and electronic properties of AgAunÎ»(Î»=0,Â±1;n=1-12){m{AgAu}}_n^lambda left({lambda = 0, pm 1;n = 1 - 12} ight) clusters: comparison with pure gold clusters. Materials Science-Poland, 2020, 38, 97-107.	0.4	6
21	Switch in chemical weathering caused by the mass balance variability in a Himalayan glacierized basin: a case of Chhota Shigri Glacier. Hydrological Sciences Journal, 2019, 64, 179-189.	1.2	10
22	Geospatial and multivariate analysis of trace metals in tubewell water using for drinking purpose in the upper Gangetic basin, India: Heavy metal pollution index. Groundwater for Sustainable Development, 2019, 8, 122-133.	2.3	51
23	Theoretical Computation of Periodic Descriptors Invoking Periodic Properties. , 2019, , 31-40.		1
24	Heavy Metal Distribution and Accumulation from Natural and Anthropogenic Sources in Tropical Mangroves of India and Bangladesh. Coastal Research Library, 2018, , 343-363.	0.2	3
25	Trace metal distribution, assessment and enrichment in the surface sediments of Sundarban mangrove ecosystem in India and Bangladesh. Marine Pollution Bulletin, 2018, 127, 541-547.	2.3	52
26	Distribution of Trace Metals in the Sediments of Estuarine-Mangrove Complex across the Indian Coast. , 2017, , 163-186.		3
27	Computational Study of Au Doped Cu Nano Alloy Clusters. Nano Hybrids and Composites, 2017, 17, 62-71.	0.8	4
28	8. Computational Investigation of Cationic, Anionic and Neutral Ag2AuN (N = 1â€“7) Nanoalloy Clusters. , 2017, , 173-190.		0
29	Computational Investigation of Cationic, Anionic and Neutral Ag2AuN (N = 1â€“7) Nanoalloy Clusters. ChemistrySelect, 2017, 2, .	0.7	5
30	A Theoretical Analysis of Bimetallic Agâ€“Aun (N = 1â€“7) Nanoalloy Clusters Invoking DFT-Based Descriptors. , 2017, , 337-345.		1
31	Theoretical analysis: Electronic and optical properties of small Cu-Ag nano alloy clusters. , 2017, , 259-271.		3
32	Computational study of AuSin (n=1-9) nanoalloy clusters invoking DFT based descriptors. AIP Conference Proceedings, 2016, , .	0.3	7
33	Computational Study of Au_mSi_n(m+n=2-6) Nanoalloy Clusters Invoking Density Functional Based Descriptors. Journal of Physics: Conference Series, 2016, 759, 012045.	0.3	7
34	Computational Investigation of Ge Doped Au Nanoalloy Clusters: A DFT Study. IOP Conference Series: Materials Science and Engineering, 2016, 149, 012172.	0.3	5
35	Theoretical analysis: Electronic and optical properties of gold-silicon nanoalloy clusters. Materials Today: Proceedings, 2016, 3, 1563-1568.	0.9	13
36	Correlation of the Experimental and Theoretical Study of some Novel 2-Phenazinamine Derivatives in terms of DFT-Based Descriptors. , 2016, , 97-111.		1

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37	A Theoretical Analysis of Bimetallic Agâ€“Aun (N = 1â€“7) Nanoalloy Clusters Invoking DFT-Based Descriptors. , 2016, , 337-345.		1
38	A theoretical analysis of bi-metallic (Cuâ€“Ag)n = 1 â^' 7 nano alloy clusters invoking DFT based descriptors. Materials Science-Poland, 2015, 33, 719-724.	0.4	21
39	A DFT Study of Vanadium Doped Gold Nanoalloy Clusters. Key Engineering Materials, 0, 777, 183-189.	0.4	8
40	Density Functional Approach: To Study Copper Sulfide Nanoalloy Clusters. Acta Chimica Slovenica, 0, , 173-181.	0.2	18