Prabhat Ranjan

List of Publications by Year
in descending order

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Version: 2024-02-01

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	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
2	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
3	A study of structure and electronic properties of chalcopyrites semiconductor invoking Density Functional Theory. Materials Chemistry and Physics, 2020, 241, 122346.	2.0	33
4	Polarizability: a promising descriptor to study chemicalâ€“biological interactions. Molecular Diversity, 2021, 25, 249-262.	2.1	24
5	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
6	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
7	Density Functional Approach: To Study Copper Sulfide Nanoalloy Clusters. Acta Chimica Slovenica, 0, , 173-181.	0.2	18
8	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
9	A computational study of chalcopyrite-type nanomaterials for solar cell applications. Materials Science in Semiconductor Processing, 2021, 127, 105745.	1.9	17
10	Theoretical analysis: Electronic and optical properties of gold-silicon nanoalloy clusters. Materials Today: Proceedings, 2016, 3, 1563-1568.	0.9	13
11	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
12	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
13	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
14	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
15	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
16	A DFT Study of Vanadium Doped Gold Nanoalloy Clusters. Key Engineering Materials, 0, 777, 183-189.	0.4	8
17	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
18	Computational study of AuSin (n=1-9) nanoalloy clusters invoking DFT based descriptors. AIP Conference Proceedings, 2016, , .	0.3	7

#	Article	IF	Citations
19	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
20	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
21	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
22	Computational Investigation of Ge Doped Au Nanoalloy Clusters: A DFT Study. IOP Conference Series: Materials Science and Engineering, 2016, 149, 012172.	0.3	5
23	Computational Investigation of Cationic, Anionic and Neutral Ag2AuN (N = 1â€“7) Nanoalloy Clusters. ChemistrySelect, 2017, 2, .	0.7	5
24	Atomic polarizability: A periodic descriptor. Journal of Chemical Research, 2020, 44, 227-234.	0.6	5
25	Computational Study of Au Doped Cu Nano Alloy Clusters. Nano Hybrids and Composites, 2017, 17, 62-71.	0.8	4
26	Distribution of Trace Metals in the Sediments of Estuarine-Mangrove Complex across the Indian Coast. , 2017, , 163-186.		3
27	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
28	Theoretical analysis: Electronic and optical properties of small Cu-Ag nano alloy clusters. , 2017, , 259-271.		3
29	Computational study of Cu_nAgAu (nÂ=Â1â€“4) clusters invoking DFT based descriptors. ChemistrySelect, 2023, 8, 3605-3613.	0.7	3
30	A systematic computational study of acridine derivatives through conceptual density functional theory. Molecular Diversity, 2023, 27, 1271-1283.	2.1	3
31	Theoretical analysis of AgFen (nÂ=Â1â€“5) clusters: A DFT study. Materials Today: Proceedings, 2022, 54, 873-877.	0.9	2
32	Theoretical Analysis of Au-Pd Nanoalloy Clusters: A DFT Study. Journal of Physics: Conference Series, 2020, 1455, 012008.	0.3	1
33	A Review on Nanoalloy Clusters: Theory to Applications. Recent Patents on Engineering, 2021, 15, .	0.3	1
34	Correlation of the Experimental and Theoretical Study of some Novel 2-Phenazinamine Derivatives in terms of DFT-Based Descriptors. , 2016, , 97-111.		1
35	Theoretical Computation of Periodic Descriptors Invoking Periodic Properties. , 2019, , 31-40.		1
36	A Theoretical Analysis of Bimetallic Agâ€“Aun (N = 1â€“7) Nanoalloy Clusters Invoking DFT-Based Descriptors. , 2016, , 337-345.		1

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37	A Theoretical Analysis of Bimetallic Agâ€“Aun (N = 1â€“7) Nanoalloy Clusters Invoking DFT-Based Descriptors. , 2017, , 337-345.		1
38	8. Computational Investigation of Cationic, Anionic and Neutral Ag2AuN (N = 1â€“7) Nanoalloy Clusters. , 2017, , 173-190.		0
39	Computational analysis of [AunSi]+ (nâ€¯=â€¯1â€“5) nanoalloy clusters. Materials Today: Proceedings, 2021, 43, 3203-3205.	0.9	0
40	A computational and theoretical study of some heavy metal heteronuclear dimers. Journal of the Indian Chemical Society, 2022, , 100643.	1.3	0