Pradip K Bhattacharyya

List of Publications by Year
in descending order

64	743	516215 16	610482 24
papers	citations	h-index	g-index

65	65	65	774
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	New duel fluorescent â€œonâ€“offâ€•and colorimetric sensor for Copper(II): Copper(II) binds through N coordination and pi cation interaction to sensor. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 138, 99-104.	2.0	51
2	Effect of substituent and solvent on cationâ€“Ï€ interactions in benzene and borazine: a computational study. Dalton Transactions, 2014, 43, 1769-1784.	1.6	46
3	Biosynthesis of Ag nanoparticles using pedicellamide and its photocatalytic activity: An eco-friendly approach. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 132, 687-691.	2.0	38
4	Structural Studies on Solvates of Cyclic Imide Tethered Carboxylic Acids with Pyridine and Quinoline. Crystal Growth and Design, 2010, 10, 348-356.	1.4	36
5	Adsorption of amino acids on boron and/or nitrogen doped functionalized graphene: A Density Functional Study. Computational and Theoretical Chemistry, 2016, 1086, 45-51.	1.1	36
6	Reactivity and Aromaticity of Nucleobases are Sensitive Toward External Electric Field. Journal of Physical Chemistry B, 2014, 118, 9573-9582.	1.2	27
7	Understanding chitosan as a gene carrier: A DFT study. Computational and Theoretical Chemistry, 2015, 1051, 35-41.	1.1	25
8	Effect of external electric field on aziridinium ion intermediate: A DFT study. Computational and Theoretical Chemistry, 2011, 976, 60-67.	1.1	22
9	Substituent and Solvent Effects on the Absorption Spectra of Cationâ^Ï€ Complexes of Benzene and Borazine: A Theoretical Study. Journal of Physical Chemistry A, 2014, 118, 3760-3774.	1.1	22
10	B-H_bâ<¯Ï€ interactions in benzeneâ€“borazine sandwich and multidecker complexes: a DFT study. New Journal of Chemistry, 2017, 41, 1293-1302.	1.4	22
11	Reactivity, aromaticity and absorption spectra of pillar[5]arene conformers: A DFT study. Computational and Theoretical Chemistry, 2015, 1066, 20-27.	1.1	20
12	Exploring Cationâ^Ï€ Interaction in the Complexes with Bâ‰¡B Triple Bond: A DFT Study. Journal of Physical Chemistry A, 2017, 121, 3287-3298.	1.1	19
13	Self pH regulated iron(II) catalyst for radical free oxidation of benzyl alcohols. Applied Catalysis A: General, 2020, 589, 117292.	2.2	19
14	Understanding reactivity, aromaticity and absorption spectra of carbon cluster mimic to graphene: a DFT study. RSC Advances, 2016, 6, 79768-79780.	1.7	18
15	DFT study on host-guest interaction in chitosanâ€“amino acid complexes. Computational and Theoretical Chemistry, 2017, 1110, 40-49.	1.1	18
16	DFT studies on hydrogen-bonding, Stacking, and Xï£¿HÂ·Â·Â·Ï€-Bonded systems in presence of external electric field. International Journal of Quantum Chemistry, 2015, 115, 1459-1466.	1.0	17
17	Does structural variation in the aziridinium ion facilitate alkylation?. Computational and Theoretical Chemistry, 2011, 967, 5-11.	1.1	16
18	Density Functional Study on the Adsorption of 5-Membered N-Heterocycles on B/N/BN-Doped Graphene: Coronene as a Model System. ACS Omega, 2018, 3, 16753-16768.	1.6	15

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19	Anionâ‹Ï€ interaction in oxoanion-graphene complex using coronene as model system: A DFT study. Computational and Theoretical Chemistry, 2019, 1147, 62-71.	1.1	15
20	Effect of external electric field on ground and singlet excited states of phenylalanine: A theoretical study. Computational and Theoretical Chemistry, 2015, 1057, 43-53.	1.1	14
21	Behaviour of cationâ€“pi interaction in presence of external electric field. RSC Advances, 2016, 6, 100008-100015.	1.7	14
22	Bâ€“H_bâ‹Ï€ interaction in boraneâ€“graphene complexes: coronene as a case study. New Journal of Chemistry, 2017, 41, 5040-5054.	1.4	14
23	Pdâ€“NiO-Y/CNT nanofoam: a zeolite-carbon nanotube conjugate exhibiting high durability in methanol oxidation. Chemical Communications, 2020, 56, 375-378.	2.2	13
24	A New Fluorescent â€œOff-Onâ€•Sensor for Al3+ Derived from L-alanine and Salicylaldehyde. Journal of Fluorescence, 2015, 25, 1537-1542.	1.3	12
25	Short range interactions in molecular complexes of 1,4-benzenediboronic acid with aromatic N-oxides. Computational and Theoretical Chemistry, 2011, 963, 141-147.	1.1	11
26	Boosting multiple photo-assisted and temperature controlled reactions with a single redox-switchable catalyst: Solvents as internal substrates and reducing agent. Journal of Catalysis, 2020, 388, 104-121.	3.1	11
27	Iron carbonyl complex containing bis[2â€(diphenylphosphino)phenyl]ether enhancing efficiency in the palladiumâ€catalyzed Suzukiâ€“Miyaura reaction. Applied Organometallic Chemistry, 2012, 26, 130-134.	1.7	10
28	Formation of thiophene sandwiches through cationâ€“Ï€ interaction: A DFT study. Computational and Theoretical Chemistry, 2016, 1095, 83-92.	1.1	10
29	Reactivity of chitosan derivatives and their interaction with guanine: A computational study. Journal of Chemical Sciences, 2016, 128, 589-598.	0.7	10
30	Unique cationâ€“cyclohexane interactions in tri- and hexa-fluorocyclohexane multidecker complexes in the gas phase: a DFT study. RSC Advances, 2016, 6, 111856-111864.	1.7	9
31	Sandwiches of N-doped diamondoids and benzenevialone pairâ€“cation and cationâ€“pi interaction: a DFT study. New Journal of Chemistry, 2017, 41, 14420-14430.	1.4	8
32	Fe₂O₃ Nanocatalysts Supported on Zeolite-Y for the Selective Synthesis of C2 Di-Indolyl Indolones and Isatins. ACS Applied Nano Materials, 2022, 5, 1446-1459.	2.4	8
33	Dicarbonylrhodium(I) complexes of aminophenols and their catalytic carbonylation reaction. Applied Organometallic Chemistry, 2007, 21, 255-263.	1.7	7
34	Alkylation of guanine by formononetin nitrogen mustard derivatives: A DFT study. Computational and Theoretical Chemistry, 2014, 1027, 135-141.	1.1	7
35	Condensation Product of Phenylalanine and Salicylaldehyde: Fluorescent Sensor for Zn2+. Journal of Fluorescence, 2016, 26, 899-904.	1.3	7
36	Understanding the structure, reactivity and absorption spectra of borazine doped pillar[5]arene: A DFT study. Computational and Theoretical Chemistry, 2018, 1139, 82-89.	1.1	7

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37	DFT and TDDFT study on cation-Ï€ complexes of diboryne (NHC â†' B â‰¡ Bâ†NHC). Journal of Chemical Physics, 2016, 145, 184112.	1.2	6
38	Cation-mediated sandwich formation between benzene and pillar[5]arene: a DFT study. Molecular Physics, 2019, 117, 734-745.	0.8	6
39	Condensation Product of p-anisaldehyde and L-phenylalanine: Fluorescent â€œon-offâ€•Sensor for Cu2+ and IMPLICATION Logic Gate. Journal of Fluorescence, 2020, 30, 1513-1521.	1.3	6
40	Alkylation of DNA by nitrogen mustards: A DFT study. Computational and Theoretical Chemistry, 2013, 1018, 19-25.	1.1	5
41	Response of chitosanâ€“nucleobase interaction toward external perturbations: A computational study. Computational and Theoretical Chemistry, 2016, 1078, 72-80.	1.1	5
42	On the formation of sandwich and multidecker complexes via Ï€â‹¯Ï€ interaction: a DFT study. New Journal of Chemistry, 2018, 42, 19924-19933.	1.4	5
43	Adsorption of Dilute Alcohols onto Cyclodextrinâ€“Polysulfone Membrane: Experimental and Theoretical Analysis. Journal of Chemical & Engineering Data, 2015, 60, 2549-2558.	1.0	4
44	Effect of external electric field on Cyclodextrin-Alcohol adducts: A DFT study. Journal of Chemical Sciences, 2015, 127, 1109-1117.	0.7	4
45	Exploring cation-Ï€ interaction in half sandwiches and sandwiches with X X triple bonds (X C, Si and) Tj ETQq1 1 0.784314 rgBT /Over	1.1	4
46	Bâ‹¯H_bâ†X (X= N, O, P, S, F, Cl, Br) interactions: A density functional study. International Journal of Quantum Chemistry, 2018, 118, e25654.	1.0	4
47	DFT Study on the Formation of Homo and Hetero dimers of BNâ€doped Tetracyclic fused Aromatics via Ï€â‹¯Ï€ Stacking. ChemistrySelect, 2019, 4, 481-491.	0.7	4
48	Affinity of aziridinium ion towards different nucleophiles: A density functional study. Computational and Theoretical Chemistry, 2011, 976, 30-35.	1.1	3
49	Structural variation facilitate alkylation: A conceptual DFT study. Computational and Theoretical Chemistry, 2012, 986, 79-84.	1.1	3
50	Variation of reactivity of aziridinium ion during alkylation. Molecular Physics, 2014, 112, 14-21.	0.8	3
51	Does oligomerization in fused thiophene affect reactivity and aromaticity?. Journal of Chemical Sciences, 2016, 128, 311-324.	0.7	3
52	Behavior of potential energy surface of Câ€“X bonds in presence of solvent and external electric field: A DFT study. Journal of Theoretical and Computational Chemistry, 2016, 15, 1650051.	1.8	3
53	A DFT study on reactivity, aromaticity and absorption spectra of perylo[1,12-b,c,d] thiophene tetraester doped with B, N, O, Se and BN. Computational and Theoretical Chemistry, 2016, 1082, 29-40.	1.1	3
54	QM/MM Studies on Cyclodextrin-Alcohol Interaction. Journal of Macromolecular Science - Pure and Applied Chemistry, 2015, 52, 64-68.	1.2	2

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55	Synthesis, characterization and superoxide dismutase activity of bi-copper(II)-bisacetato-Î¼â^'phthalicacid[bis(benzyloxy)ethyl]ester. Journal of Chemical Sciences, 2015, 127, 455-459.	0.7	2
56	Ground and excited states of neutral and cationic thieno[3,2-b]thiophene: A DFT study. Computational and Theoretical Chemistry, 2016, 1091, 41-48.	1.1	2
57	On the effect of external perturbation on amino acid salt bridge: a DFT study. Journal of Chemical Sciences, 2017, 129, 533-541.	0.7	2
58	Association of phenyldiboronic acids with hydrogen bond acceptors to form hydrogen bonded DDÂ·AA-type complexes: a DFT study. New Journal of Chemistry, 2017, 41, 10112-10120.	1.4	2
59	Nonclassical Bâ€H b â‹¯Ï€ interaction in diboraneâ‹¯localizedâ€Ï€ sandwiches: A DFTâ€D3 study. International Journal of Quantum Chemistry, 2019, 119, e25998.	1.0	2
60	On the formation of sandwich complexes of aromatic inorganic linker: A DFT-D3 approach. Polyhedron, 2021, 194, 114911.	1.0	2
61	Formation of Polymeric Housene Molecules of Group 15 Elements (N, P, As, and Sb): A DFT Study. Journal of Physical Chemistry A, 2018, 122, 6780-6788.	1.1	1
62	Understanding the influence of external perturbation on aziridinium ion formation. Molecular Physics, 2018, 116, 29-43.	0.8	0
63	A density functional study on synthetic polymerâ€“amino acid interaction. Journal of Chemical Sciences, 2018, 130, 1.	0.7	0
64	Formation of sandwich and multidecker complexes between O₂ and alkali/alkaline earth metals: a DFT study. New Journal of Chemistry, 2022, 46, 6677-6689.	1.4	0