R Chandiramouli

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

4,046 41 224 31 h-index g-index citations papers 2.9 230 4,592 7.31 L-index ext. citations avg, IF ext. papers

#	Paper	IF	Citations
224	Methylcyclohexane and methyl methacrylate sensing studies using Earsenene nanoribbon IA first-principles investigation. <i>Computational and Theoretical Chemistry</i> , 2022 , 1209, 113595	2	3
223	DFT study on the adsorption properties of aldrin and dieldrin molecules on blue phosphorene nanotubes. <i>Physica B: Condensed Matter</i> , 2022 , 626, 413545	2.8	6
222	Adsorption studies of 2,3-butanedione and acetic acid on Ephosphorene sheets based on the first-principles study. <i>Computational and Theoretical Chemistry</i> , 2022 , 1208, 113548	2	5
221	Recent advances in arsenene nanostructures towards prediction, properties, synthesis and applications. <i>Surfaces and Interfaces</i> , 2022 , 28, 101610	4.1	5
220	Adsorption studies of SF6 and decomposed constituents on 48 arsenene nanotubes IA first-principles study. <i>Computational and Theoretical Chemistry</i> , 2022 , 1211, 113663	2	1
219	Chemisorption of atrazine and diuron molecules on Earsenene nanosheet - a first-principles study. <i>Chemical Physics Letters</i> , 2022 , 794, 139484	2.5	3
218	Carbonyl sulfide and dimethyl sulfide adsorption studies on novel square-octagon antimonene sheets [A first-principles study. <i>Chemical Physics</i> , 2022 , 558, 111504	2.3	O
217	Sorption studies of dimethyl sulfoxide and tetrahydrofuran on gamma arsenene nanotubes IA first-principles study. <i>Applied Surface Science</i> , 2022 , 592, 153210	6.7	1
216	Tetrahydrofuran and 2-Methyltetrahydrofuran adsorption studies on violet phosphorene nanosheets based on first-principles studies. <i>Journal of Molecular Liquids</i> , 2022 , 119062	6	3
215	SF6 and SOF2 interaction studies on novel Tricycle Red Phosphorene sheets based on first-principles studies. <i>Chemical Physics Letters</i> , 2022 , 139674	2.5	1
214	Physisorption of trichloroethylene and tetrachloroethylene on novel zeta arsenene nanotubes IA first-principles study. <i>Journal of Molecular Graphics and Modelling</i> , 2022 , 108233	2.8	О
213	Electronic and band structure studies on In and N doped EGa2O3 nanostructures from first-principles calculations. <i>Materials Today: Proceedings</i> , 2021 , 47, 6418-6428	1.4	
212	Structural and electronic properties of InGaAs, InGaP and InGaSb nanostructures IA density functional theory approach. <i>Materials Today: Proceedings</i> , 2021 , 47, 6489-6498	1.4	
211	Molecular interaction studies of styrene on single and double-walled square-octagon phosphorene nanotubes [First-principles investigation. <i>Chemical Physics Letters</i> , 2021 , 785, 139149	2.5	14
2 10	Interaction studies of liver cancer biomarkers on black phosphorene sheets 🖪 DFT outlook. <i>FlatChem</i> , 2021 , 30, 100293	5.1	6
209	Molecular adsorption of o-ethyltoluene and phenyl propane on square-octagon phosphorene nanosheet 🖪 first-principles calculation. <i>Journal of Molecular Liquids</i> , 2021 , 326, 115320	6	25
208	Interaction studies of nitrotoluene and toluidine molecules on novel square-octagon arsenene nanotubes based on DFT method. <i>Journal of Molecular Liquids</i> , 2021 , 325, 115260	6	15

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207	Molecular interaction of oxytetracycline and sulfapyridine on blue phosphorene nanotubes: A first-principles insight. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021 , 394, 127	1983	12	
206	Kagome phosphorene molecular device for sensing chloropicrin and phosgene IA first-principles study. <i>Chemical Physics Letters</i> , 2021 , 771, 138472	2.5	28	
205	Chlorobenzene and 1, 4-dichlorobenzene adsorption studies on EArsenene nanosheet La first-principles analysis. <i>Molecular Physics</i> , 2021 , 119, e1936248	1.7	8	
204	Interaction studies of glycine, acetate and methylamine on Etellurene nanoribbon - A first-principles analysis. <i>Journal of Molecular Graphics and Modelling</i> , 2021 , 105, 107895	2.8	15	
203	Interaction studies of diclofenac and ibuprofen molecules on armchair bismuthene nanotubes: A first-principles study. <i>Chemical Physics</i> , 2021 , 546, 111169	2.3	14	
202	Sorption studies and removal of chlortetracycline and oxytetracycline using theta phosphorene nanoribbon IA DFT outlook. <i>Journal of Molecular Liquids</i> , 2021 , 117070	6	9	
201	First-principles studies on sensing properties of delta arsenene nanoribbons towards hexane and heptane molecules. <i>Computational and Theoretical Chemistry</i> , 2021 , 1201, 113256	2	13	
200	Molecular interaction studies of cumene and toluene on Earsenene nanosheet (a) first-principles outlook. <i>Molecular Physics</i> , 2021 , 119, e1800853	1.7	18	
199	Chemisorption of Heptachlor and Mirex molecules on beta arsenene nanotubes IA first-principles analysis. <i>Applied Surface Science</i> , 2021 , 537, 147835	6.7	24	
198	Square-octagon arsenene nanosheet as chemical nanosensor for M-xylene and toluene IA DFT outlook. <i>Computational and Theoretical Chemistry</i> , 2021 , 1196, 113088	2	17	
197	First-principles research on adsorption properties of o-xylene and styrene on 5 B phosphorene sheets. <i>Chemical Physics Letters</i> , 2021 , 765, 138244	2.5	27	
196	Adsorption studies of nucleobases on Earsenene nanosheet based on first-principles research. <i>Journal of Molecular Graphics and Modelling</i> , 2021 , 103, 107827	2.8	15	
195	Chemiresistive ITellurene nanosheets for detecting 2-Butanone and 2-Pentanone - a first-principles study. <i>Materials Today Communications</i> , 2021 , 26, 101758	2.5	5	
194	Alcohol molecular interaction studies on stair phosphorene nanosheets: a first-principles approach. <i>Structural Chemistry</i> , 2021 , 32, 27-36	1.8	15	
193	Chemosensing nature of black phosphorene nanotube towards C14H9Cl5 and C10H5Cl7 molecules [A first-principles insight. <i>Computational and Theoretical Chemistry</i> , 2021 , 1196, 113109	2	11	
192	Red tricycle phosphorene nanoribbon as a removing medium of sulfadiazine and sulfamethoxazole molecules based on first-principles studies. <i>Journal of Molecular Liquids</i> , 2021 , 336, 116294	6	20	
191	Chemisorption of sulfaguanidine and sulfanilamide drugs on bismuthene nanosheet based on first-principles studies. <i>Applied Surface Science</i> , 2021 , 561, 149990	6.7	9	
190	Adsorption behaviour of trichloropropane and tetrachloroethylene on Ephosphorene sheets: A first-principles insight. <i>Computational and Theoretical Chemistry</i> , 2021 , 1203, 113347	2	15	

189	Interaction studies of dichlobenil and isoproturon on square-octagon phosphorene nanotube based on DFT frame work. <i>Chemical Physics Letters</i> , 2021 , 778, 138773	2.5	17
188	Zipper phosphorene as sensing element towards formaldehyde and acetaldehyde - A first-principles insight. <i>Journal of Molecular Graphics and Modelling</i> , 2021 , 107, 107971	2.8	14
187	Interaction of propionate and ethylamine on kagome phosphorene nanoribbons IA DFT study. <i>Chemical Physics</i> , 2021 , 549, 111276	2.3	11
186	Interaction studies of benzene and phenol on novel 48 arsenene nanotubes IA DFT insight. <i>Computational and Theoretical Chemistry</i> , 2021 , 1204, 113381	2	8
185	Interaction studies of tuberculosis biomarker vapours on novel beta arsenene sheets IA DFT insight. <i>Computational and Theoretical Chemistry</i> , 2021 , 1205, 113426	2	10
184	Sorption studies of sulfadimethoxine and tetracycline molecules on Eantimonene nanotube - A first-principles insight. <i>Journal of Molecular Graphics and Modelling</i> , 2021 , 108, 107988	2.8	8
183	Adsorption behaviour of sulfisoxazole molecules on tricycle arsenene nanoribbon - a first-principles study. <i>Journal of Molecular Liquids</i> , 2021 , 343, 117635	6	14
182	Twisted bilayer arsenene sheets as a chemical sensor for toluene and M-xylene vapours - A DFT investigation. <i>Journal of Molecular Graphics and Modelling</i> , 2021 , 109, 108034	2.8	9
181	Molecular Modeling and Simulation of glycine functionalized B12N12 and B16N16 nanoclusters as potential inhibitors of proinflammatory cytokines. <i>Journal of Molecular Liquids</i> , 2021 , 343, 117494	6	7
180	Novel Earsenene nanosheets for sensing toxic malathion and parathion IA first-principles approach. <i>Computational and Theoretical Chemistry</i> , 2020 , 1190, 112995	2	13
179	Interaction studies of volatiles from jackfruit on ⊕hosphorene nanosheet∄ DFT outlook. <i>Structural Chemistry</i> , 2020 , 31, 1851-1860	1.8	15
178	Novel gamma arsenene nanosheets as sensing medium for vomiting agents: A first-principles research. <i>Computational and Theoretical Chemistry</i> , 2020 , 1185, 112876	2	19
177	Interaction studies of aniline on pristine and Al-doped EArsenene nanosheets EA first-principles insight. <i>Chemical Physics Letters</i> , 2020 , 752, 137588	2.5	32
176	Physisorption of propane and butane vapors on novel Kagome antimonene sheets A first-principles perception. <i>Chemical Physics Letters</i> , 2020 , 754, 137693	2.5	28
175	Surface assimilation studies of ethyl methyl sulfide on gamma phosphorene sheets (b) DFT outlook. <i>Molecular Physics</i> , 2020 , 118, e1774089	1.7	12
174	Investigation on adsorption properties of HCN and ClCN blood agents on phosphorene nanosheets [A firstprinciples insight. <i>Chemical Physics</i> , 2020 , 538, 110896	2.3	28
173	Interaction study of amino acid on novel Kagome phosphorene nanotube 🖪 DFT outlook. <i>Computational and Theoretical Chemistry</i> , 2020 , 1186, 112903	2	21
172	Methyl and Ethyl mercaptan molecular adsorption studies on novel Kagome arsenene nanosheets - A DFT outlook. <i>Physica B: Condensed Matter</i> , 2020 , 586, 412135	2.8	28

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171	Novel Ephosphorene nanosheet device for the detection of tear gas molecules IA first-principles research. <i>Chemical Physics Letters</i> , 2020 , 747, 137353	2.5	35
170	Computational Studies on the Interaction of Formaldehyde Vapor with IPhosphorene Nanosheet: A DFT Insight. <i>ChemistrySelect</i> , 2020 , 5, 3398-3404	1.8	19
169	Surface adsorption studies of benzyl bromide and bromobenzyl cyanide vapours on black phosphorene nanosheets he first-principles perception. <i>Molecular Physics</i> , 2020 , 118, e1737744	1.7	14
168	Halomethane Adsorption Studies on Silicane Sheets: A First-Principles Perception. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020 , 30, 3263-3275	3.2	13
167	DFT Outlook on Surface Adsorption Properties of Nitrobenzene on Novel Red Tricycle Arsenene Nanoring. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020 , 30, 4329-4341	3.2	11
166	First-principles perspectives on detection properties of sulphur mustard gas using novel electroresistive ?-Arsenene nanosheet device. <i>Molecular Physics</i> , 2020 , 118, e1725671	1.7	9
165	Graphdiyne nanosheets as a sensing medium for formaldehyde and formic acid IA first-principles outlook. <i>Computational and Theoretical Chemistry</i> , 2020 , 1176, 112751	2	34
164	Interaction studies of kidney biomarker volatiles on black phosphorene nanoring: A first-principles investigation. <i>Journal of Molecular Graphics and Modelling</i> , 2020 , 97, 107566	2.8	32
163	Adamsite and chloropicrin molecular adsorption studies on novel green phosphorene nanotube [] First-principles investigation. <i>Chemical Physics</i> , 2020 , 535, 110782	2.3	24
162	Arsenic pentafluoride surface adsorption studies on Kagome-phosphorene & DFT outlook. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020 , 384, 126552	2.3	16
161	Toxicants in cigarette smoke adsorbed on red phosphorene nanosheet: A first-principles insight. <i>Chemical Physics</i> , 2020 , 530, 110604	2.3	18
160	Expedition on surface adsorption of N-nitrosodiethylamine from rubber fumes on blue phosphorene sheets he first-principles insight. <i>Molecular Physics</i> , 2020 , 118, e1699184	1.7	10
159	N-nitrosodimethylamine interaction studies on gamma phosphorene sheets emitted from rubber fumes [A first-principles study. <i>Physica B: Condensed Matter</i> , 2020 , 577, 411808	2.8	14
158	Explosive vapor detection using novel graphdiyne nanoribbons first-principles investigation. <i>Structural Chemistry</i> , 2020 , 31, 709-717	1.8	15
157	Exploring adsorption behavior of ethylene dichloride and dibromide vapors on blue phosphorene nanosheets: A first-principles acumens. <i>Journal of Molecular Graphics and Modelling</i> , 2020 , 95, 107505	2.8	19
156	Sensing studies of DDT and Toxaphene molecules using chemi-resistive Eintimonene nanotubes based on first-principles insights. <i>Chemical Physics Letters</i> , 2020 , 757, 137895	2.5	17
155	Dimethyl and ethyl methyl ether adsorption studies on Eantimonene nanosheets Ea first-principles study. <i>Molecular Simulation</i> , 2020 , 46, 1354-1361	2	12
154	Molecular adsorption studies of diethyl sulfide and ethyl methyl sulfide vapors on Ephosphorene nanoribbon [A first-principles insight. <i>Applied Surface Science</i> , 2020 , 534, 147597	6.7	22

153	Investigation on adsorption features of nitroglycerin on novel red tricycle arsenene nanosheet - A first-principles study. <i>Journal of Molecular Graphics and Modelling</i> , 2020 , 100, 107653	2.8	10
152	Molecular adsorption studies of benzidine on novel Kagome antimonene nanosheets - Insights based on first-principles DFT calculations. <i>Journal of Molecular Liquids</i> , 2020 , 318, 113972	6	15
151	Benzyl alcohol and 2-methyldecalin vapor adsorption studies on Ebismuthene sheets IA DFT outlook. <i>Chemical Physics Letters</i> , 2020 , 755, 137819	2.5	19
150	Interaction properties of phenol and styrene from plastic fumes on EArsenene sheets: A first-principles study. <i>Physica B: Condensed Matter</i> , 2020 , 597, 412405	2.8	13
149	First-principles insight on interaction behavior of diethylbenzene and ethyltoluene on Harsenene nanoring. <i>Materials Today Communications</i> , 2020 , 25, 101476	2.5	2
148	Novel green phosphorene sheets to detect tear gas molecules - A DFT insight. <i>Journal of Molecular Graphics and Modelling</i> , 2020 , 100, 107706	2.8	21
147	Boron trifluoride interaction studies on graphdiyne nanotubes 🖪 first-principles insight. <i>Chemical Physics Letters</i> , 2020 , 738, 136841	2.5	32
146	Benzyl Chloride and Chlorobenzene Adsorption Studies on Bismuthene Nanosheet: A DFT Study. Journal of Inorganic and Organometallic Polymers and Materials, 2020 , 30, 1888-1897	3.2	12
145	Investigation on graphdiyne nanosheet in adsorption of sorafenib and regorafenib drugs: A DFT approach. <i>Journal of Molecular Liquids</i> , 2019 , 277, 776-785	6	56
144	Probing cyanogen chloride gas molecules using blue phosphorene nanosheets based on adsorption properties: A first-principles study. <i>Computational and Theoretical Chemistry</i> , 2019 , 1150, 63-70	2	31
143	Adsorption studies of dimethyl and methyl-ethyl ester molecules on silicene nanoring: Application of DFT study. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2019 , 194, 25-32	1	10
142	First-principles studies on mechanical properties and band structures of TMO2 (TM = Zr or Hf) nanostructures under high pressure. <i>Physica B: Condensed Matter</i> , 2019 , 559, 1-7	2.8	11
141	First-principles investigation on detection of phosgene gas molecules using phosphorene nanosheet device. <i>Chemical Physics Letters</i> , 2019 , 717, 99-106	2.5	44
140	Silicene nanosheet device with nanopore to identify the nucleobases IA first-principles perspective. <i>Chemical Physics Letters</i> , 2019 , 730, 70-75	2.5	21
139	EGraphyne nanotube as nanofilter for cigarette smoke based on chemisorption properties IA first-principles study. <i>Diamond and Related Materials</i> , 2019 , 97, 107436	3.5	7
138	DFT Study on the Interaction Properties of V-Series Nerve Agent Molecules on Novel Bismuthene Nanotubes. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019 , 29, 2226-2236	3.2	18
137	First-principles analysis of the detection of amine vapors using an antimonene electroresistive molecular device. <i>Journal of Computational Electronics</i> , 2019 , 18, 779-790	1.8	14
136	Perceptions on the adsorption of COPD biomarker vapors on violet phosphorene nanosheet - A first-principles study. <i>Journal of Molecular Graphics and Modelling</i> , 2019 , 91, 22-29	2.8	22

135	Adsorption Ability of Germanane Nanosheets Towards Nitrogen and Sulfur Mustard Gas Molecules: A First-Principles Study. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019 , 29, 2035-	-2043	8	
134	Investigation on bare and hydrogenated Sb-nanosheets as an electrode material for Na-ion battery - A DFT study. <i>Physica B: Condensed Matter</i> , 2019 , 562, 75-81	2.8	26	
133	Diethanolamine and quaternium-15 interaction studies on antimonene nanosheet based on first-principles studies. <i>Computational and Theoretical Chemistry</i> , 2019 , 1157, 19-27	2	24	
132	Exploring adsorption mechanism of hydrogen cyanide and cyanogen chloride molecules on arsenene nanoribbon from first-principles. <i>Journal of Molecular Graphics and Modelling</i> , 2019 , 89, 13-21	2.8	30	
131	Adsorption insights of amine vapors on black phosphorene nanotubes first-principles study. <i>Materials Research Express</i> , 2019 , 6, 105518	1.7	9	
130	Nitrogen mustard gas molecules and ⊞rsenene nanosheet interaction studies - A DFT insight. Journal of Molecular Graphics and Modelling, 2019 , 92, 65-73	2.8	20	
129	Adsorption behavior of cytosine and guanine nucleobases on graphyne nanosheets: A DFT study. <i>Computational and Theoretical Chemistry</i> , 2019 , 1163, 112514	2	21	
128	Acrylonitrile vapor adsorption studies on armchair arsenene nanoribbon based on DFT study. <i>Applied Surface Science</i> , 2019 , 494, 1148-1155	6.7	18	
127	Interaction properties of explosive vapors on Egraphyne nanosheet & DFT outlook. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2019 , 27, 770-778	1.8	10	
126	Flutamide drug interaction studies on graphdiyne nanotube 🖪 first-principles study. <i>Computational and Theoretical Chemistry</i> , 2019 , 1167, 112590	2	18	
125	Interaction properties of benzyl chloride and chlorobenzene on violet phosphorene sheets IA first-principles perception. <i>Computational and Theoretical Chemistry</i> , 2019 , 1165, 112563	2	18	
124	Electronic properties of novel bismuthene nanosheets with adsorption studies of G-series nerve agent molecules (a) DFT outlook. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019 , 383, 125975	2.3	17	
123	Mechanical properties and band structure of CdSe and CdTe nanostructures at high pressure - a first-principles study. <i>Processing and Application of Ceramics</i> , 2019 , 13, 124-131	1.4	10	
122	Blue phosphorene nanoribbon for detection of chloroform vapours (b) first-principles study. <i>International Journal of Environmental Analytical Chemistry</i> , 2019 , 1-13	1.8	8	
121	Interaction Studies of Methanol and Ethanol Vapors on Green Phosphorene Sheets: A First-Principles Study. <i>ChemistrySelect</i> , 2019 , 4, 14237-14243	1.8	13	
120	Detection of trace level of hazardous phosgene gas on antimonene nanotube based on first-principles method. <i>Journal of Molecular Graphics and Modelling</i> , 2019 , 88, 32-40	2.8	32	
119	Investigation on probing explosive nitroaromatic compound vapors using graphyne nanosheet: a first-principle study. <i>Structural Chemistry</i> , 2019 , 30, 657-667	1.8	17	
118	Germanene nanosheets as a novel anode material for sodium-ion batteries first-principles investigation. <i>Materials Research Express</i> , 2019 , 6, 035504	1.7	20	

117	A study on quercetin and 5-fluorouracil drug interaction on graphyne nanosheets and solvent effects IA first-principles study. <i>Journal of Molecular Liquids</i> , 2019 , 275, 713-722	6	39
116	Germanane nanosheet as a novel biosensor for liver cirrhosis based on adsorption of biomarker volatiles IA DFT study. <i>Applied Surface Science</i> , 2019 , 475, 990-998	6.7	41
115	Interaction Behavior of Cyanogen Fluoride and Chloride Gas Molecules on Red Phosphorene Nanosheet: A DFT Study. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019 , 29, 954-	963	27
114	Mechanical and electronic properties under high pressure on ternary AlGaN and InGaN compounds first-principles perspective. <i>Materials Research Express</i> , 2019 , 6, 015052	1.7	12
113	Arsenene nanoribbons for sensing NH3 and PH3 gas molecules IA first-principles perspective. <i>Applied Surface Science</i> , 2019 , 469, 173-180	6.7	63
112	Germanene nanotube electroresistive molecular device for detection of NO2 and SO2 gas molecules: a first-principles investigation. <i>Journal of Computational Electronics</i> , 2019 , 18, 308-318	1.8	19
111	MoSe nanosheets for detection of methanol and ethanol vapors: A DFT study. <i>Journal of Molecular Graphics and Modelling</i> , 2018 , 81, 97-105	2.8	31
110	DFT investigation on the adsorption behavior of dimethyl and trimethyl amine molecules on borophene nanotube. <i>Chemical Physics Letters</i> , 2018 , 701, 34-42	2.5	26
109	Investigation on adsorption properties of CO and NO gas molecules on aluminene nanosheet: A density functional application. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2018 , 229, 193-200	3.1	36
108	Adsorption behavior of NH3 and NO2 molecules on stanene and stanane nanosheets IA density functional theory study. <i>Chemical Physics Letters</i> , 2018 , 695, 162-169	2.5	40
107	First-Principles Insights on Acetone Vapor Manganese Ferrite Solid Surface Interactions. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018 , 28, 121-129	3.2	6
106	Alcohol molecules adsorption on graphane nanosheets [A first-principles investigation. <i>Applied Surface Science</i> , 2018 , 441, 734-743	6.7	31
105	Density functional studies on the binding of methanol and ethanol molecules to graphyne nanosheet. <i>Computational and Theoretical Chemistry</i> , 2018 , 1125, 86-94	2	46
104	Interaction of volatile organic compounds (VOCs) emitted from banana on stanene nanosheet first-principles studies. <i>Structural Chemistry</i> , 2018 , 29, 1321-1332	1.8	15
103	Adsorption studies of volatile organic compounds on germanene nanotube emitted from banana fruit for quality assessment - A density functional application. <i>Journal of Molecular Graphics and Modelling</i> , 2018 , 82, 129-136	2.8	16
102	DFT Application on the Interaction Properties of Ethanol Vapors with MnFe2O4 Nanostructures. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018 , 28, 1753-1763	3.2	7
101	A novel approach for detection of NO 2 and SO 2 gas molecules using graphane nanosheet and nanotubes - A density functional application. <i>Diamond and Related Materials</i> , 2018 , 85, 53-62	3.5	24
100	Detection of nucleobases using 2D germanane nanosheet: A first-principles study. <i>Computational and Theoretical Chemistry</i> , 2018 , 1130, 68-76	2	26

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99	First-principles studies on electronic properties of Oligo-p-phenylene molecular device. <i>Solid State Communications</i> , 2018 , 269, 50-57	1.6	11	
98	First-principles investigation on transport properties of (hbox {Zn}_{2}hbox {SnO}_{4}) molecular device and response toward (hbox {NO}_{2}) gas molecules. <i>Journal of Computational Electronics</i> , 2018 , 17, 1-8	1.8	14	
97	Novel method to detect the lung cancer biomarker volatiles using hydrogen vacant silicane nanosheets: A DFT investigation. <i>Computational and Theoretical Chemistry</i> , 2018 , 1138, 107-116	2	20	
96	First-principles insights on the electronic and field emission properties of Ga and Al doped germanium nanocones. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2018 , 227, 15-22	1.7	15	
95	Nucleobases adsorption studies on silicane layer: A first-principles investigation. <i>Journal of Molecular Graphics and Modelling</i> , 2018 , 85, 48-55	2.8	14	
94	Antimonene nanosheet device for detection of explosive vapors 🖪 first-principles inspection. <i>Chemical Physics Letters</i> , 2018 , 708, 130-137	2.5	37	
93	Density functional study on the binding properties of nucleobases to stanane nanosheet. <i>Applied Surface Science</i> , 2018 , 462, 831-839	6.7	22	
92	Arsenene Nanotube as a Chemical Sensor to Detect the Presence of Explosive Vapors: A First-Principles Insight. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018 , 28, 2844-	28 ² 3	27	
91	Doped aluminum nanocones as an efficient electron field emitter: A first-principles investigation. <i>Inorganic Chemistry Communication</i> , 2018 , 96, 5-12	3.1	14	
90	First-principles investigation on switching properties of spiropyran and merocyanine grafted graphyne nanotube device. <i>Chemical Physics Letters</i> , 2018 , 691, 37-43	2.5	30	
89	Adsorption of ammonia molecules and humidity on germanane nanosheet-A density functional study. <i>Journal of Molecular Graphics and Modelling</i> , 2018 , 79, 149-156	2.8	25	
88	High-pressure studies on electronic and mechanical properties of FeBO3 (B = Ti, Mn, Cr) ceramics a first-principles study. <i>Phase Transitions</i> , 2018 , 91, 382-397	1.3	12	
87	Adsorption studies of trimethyl amine and n-butyl amine vapors on stanene nanotube molecular device [A first-principles study. <i>Chemical Physics</i> , 2018 , 501, 78-85	2.3	26	
86	First-principles insights on detection of dimethyl amine and trimethyl amine vapors using graphdiyne nanosheets. <i>Computational and Theoretical Chemistry</i> , 2018 , 1123, 119-127	2	42	
85	Interaction Studies of Ammonia Gas Molecules on Borophene Nanosheet and Nanotubes: A Density Functional Study. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018 , 28, 920-931	3.2	12	
84	First-principles investigation on structural and electronic properties of antimonene nanoribbons and nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 97, 98-104	3	39	
83	Investigation of NH3 adsorption behavior on graphdiyne nanosheet and nanotubes: A first-principles study. <i>Journal of Molecular Liquids</i> , 2018 , 249, 24-32	6	51	
82	Novel bismuthene nanotubes to detect NH3, NO2 and PH3 gas molecules [A first-principles insight. <i>Chemical Physics Letters</i> , 2018 , 712, 102-111	2.5	34	

81	Interaction of Imuran, Pentasa and Hyoscyamine drugs and solvent effects on graphdiyne nanotube as a drug delivery system - A DFT study. <i>Journal of Molecular Liquids</i> , 2018 , 265, 199-207	6	42
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