Chunmei Tang

List of Publications by Year
in descending order

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58	977	394421	477307
papers	citations	19	29
		h-index	g-index

58	58	58	866
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Remarkable-cycle-performance Î²-bismuthene/graphene heterostructure anode for Li-ion battery. Chinese Chemical Letters, 2022, 33, 3802-3808.	9.0	8
2	Theoretically identifying the electrocatalytic activity and mechanism of Zn doped 2D h-BN for nitrate reduction to NH₃. Chemical Communications, 2022, 58, 7156-7159.	4.1	7
3	The first-principles study on the performance of the graphene/WS2 heterostructure as an anode material of Li-ion battery. Journal of Alloys and Compounds, 2021, 855, 157432.	5.5	30
4	Research on metallic chalcogen-functionalized monolayer-puckered V₂CX₂ (X) Tj ETQq0 0 0 rgBT /Overlock 10 4672-4681.	5.9	8
5	Remarkable-cycling-performance anode for Li-ion battery: The bilayer Î²-bismuthene. Electrochimica Acta, 2021, 388, 138641.	5.2	7
6	Promising anode material BN/VS2 heterostructure for the Li-ion battery: The first-principles study. Applied Surface Science, 2021, 564, 150468.	6.1	23
7	An effective method to screen carbon (boron, nitrogen) based two-dimensional hydrogen storage materials. International Journal of Hydrogen Energy, 2020, 45, 25054-25064.	7.1	13
8	The First-Principles Prediction of Two Dimensional Monolayer Puckered WCAZ2 as the Anode Material of Li-ion Batteries. Materials Today Communications, 2020, 25, 101587.	1.9	1
9	Synthesis of nickel selenide thin films for high performance all-solid-state asymmetric supercapacitors. Chinese Chemical Letters, 2020, 31, 2275-2279.	9.0	18
10	Hydrogen trapping efficiency of Li decorated porous boron fullerene B38: The first-principles study. International Journal of Hydrogen Energy, 2020, 45, 21646-21654.	7.1	11
11	Multiple Regulation over Growth Direction, Band Structure, and Dimension of Monolayer WS₂ by a Quartz Substrate. Chemistry of Materials, 2020, 32, 2508-2517.	6.7	21
12	How a trapeziform flake of monolayer WS2 formed on SiO2(1Â0Â0)? A first-principle study. Applied Surface Science, 2020, 517, 145864.	6.1	2
13	The good performance of bilayer Î²-antimoneneas an anode material for the Li-ion battery study. Applied Surface Science, 2019, 495, 143549.	6.1	17
14	The first-principle study on the performance of biaxial strained graphdiyne as the Li-ion battery anode. Applied Surface Science, 2019, 497, 143723.	6.1	24
15	Theoretical investigating of graphene/antimonene heterostructure as a promising high cycle capability anodes for fast-charging lithium ion batteries. Applied Surface Science, 2019, 491, 451-459.	6.1	33
16	Oil boundary approach for sublimation enabled camphor mediated graphene transfer. Journal of Colloid and Interface Science, 2019, 546, 11-19.	9.4	13
17	Density functional calculations of efficient H ₂ separation from impurity gases (H) Tj ETQq1 1 0.784314 rgBT /Overlock 10 bilayer g-C ₃ N. Chinese Physics B, 2019, 28, 048102.	1.4	14
18	A New Effective Approach to Prevent the Degradation of Black Phosphorus: The Scandium Transition Metal Doping. Journal of Physical Chemistry C, 2018, 122, 9654-9662.	3.1	20

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19	Strain-Enhanced Li Storage and Diffusion on the Graphyne as the Anode Material in the Li-Ion Battery. Journal of Physical Chemistry C, 2018, 122, 22838-22848.	3.1	58
20	Most effective way to improve the hydrogen storage abilities of Na-decorated BN sheets: applying external biaxial strain and an electric field. Physical Chemistry Chemical Physics, 2017, 19, 5570-5578.	2.8	23
21	Enhanced optical spin current injection in the hexagonal lattice with intrinsic and Rashba spinâ€“orbit interactions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 1197-1201.	2.1	5
22	The Peculiar Role of the Au₃ Unit in Au_m Clusters: Ïƒ-Aromaticity of the Au₅Zn⁺ Ion. Inorganic Chemistry, 2017, 56, 5793-5803.	4.0	27
23	Dynamical energy equipartition of the Toda model with additional on-site potentials. Chinese Physics B, 2017, 26, 100505.	1.4	6
24	Vertically-aligned Mn(OH)2 nanosheet films for flexible all-solid-state electrochemical supercapacitors. Journal of Materials Science: Materials in Electronics, 2017, 28, 17533-17540.	2.2	24
25	The reversible hydrogen storage abilities of metal Na (Li, K, Ca, Mg, Sc, Ti, Y) decorated all-boron cage B28. International Journal of Hydrogen Energy, 2017, 42, 16611-16619.	7.1	60
26	The Magnetic Transition of Tcn (nÂ=Â1, 2) Induced by the Reaction with Cl and BO2. Journal of Cluster Science, 2017, 28, 905-915.	3.3	0
27	The hydrogen storage capacity of Sc atoms decorated porous boron fullerene B40: A DFT study. International Journal of Hydrogen Energy, 2016, 41, 16992-16999.	7.1	74
28	The hydrogen storage properties of Na decorated small boron cluster B6Na8. Chemical Physics Letters, 2016, 661, 161-167.	2.6	14
29	Electric field induced enhancement of hydrogen storage capacity for Li atom decorated graphene with Stone-Wales defects. International Journal of Hydrogen Energy, 2016, 41, 10776-10785.	7.1	73
30	How will the benzyne group â€“C 6 H 4 affect the structure, electronic and optical properties of M 3 N@C 80 (M = Sc, Y)?. Computational and Theoretical Chemistry, 2016, 1084, 17-24.	2.5	7
31	The hydrogen storage properties of the Ti decorated benzene-Ti-graphene sandwich-type structures. International Journal of Hydrogen Energy, 2016, 41, 1035-1043.	7.1	21
32	The determination of serum cholesterol concentration with improved differential evolution algorithm based on ultraviolet-visible absorption spectrum. , 2016, , .		0
33	Numerical and Experimental Investigation on Electromagnetic Attenuation by Semi-Ellipsoidal Shaped Plasma. Plasma Science and Technology, 2015, 17, 869-875.	1.5	15
34	Transition metal Ti coated porous fullerene C24B24: Potential material for hydrogen storage. International Journal of Hydrogen Energy, 2015, 40, 16271-16277.	7.1	51
35	The properties of hydrogenated derivatives of the alkali atom coated clusters C6M6 (M=Li, Na): A density functional study. Computational and Theoretical Chemistry, 2015, 1071, 46-52.	2.5	2
36	The study of the hydrogen storage capacity of the Ti atoms coated Si@Ga12 clusters. International Journal of Hydrogen Energy, 2015, 40, 16278-16287.	7.1	1

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37	Geometric Structure, Electronic Property, and Hydrogen Storage Capacity of the Sc Atoms Decorated Expanded Sandwich Type Structure Graphene-Sc-graphene. Acta Chimica Sinica, 2015, 73, 1189.	1.4	2
38	Stabilities, aromaticity, infrared spectra, and optical properties of exohedral fullerene derivatives C76X18(X = H, F, Cl, and Br). European Physical Journal D, 2014, 68, 1.	1.3	2
39	Doping the transition metal atom Fe, Co, Ni into C 48 B 12 fullerene for enhancing H 2 capture: A theoretical study. International Journal of Hydrogen Energy, 2014, 39, 12741-12748.	7.1	24
40	The density functional studies of the doped gold cages Au17M (M=Cu, Ag, Li, Na, K). Computational and Theoretical Chemistry, 2014, 1049, 62-66.	2.5	5
41	Endohedrally doping the gold cage with an trivalent atom B, Al, Ga, and In: Density functional studies. Computational and Theoretical Chemistry, 2013, 1018, 1-5.	2.5	5
42	STRUCTURAL, ELECTRONIC, MAGNETIC, AND OPTICAL PROPERTIES OF 3d TRANSITION METAL ENDOHEDRAL M@Ge₁₂H₁₂(M=Scâ€“Ni CLUSTERS. Journal of Theoretical and Computational Chemistry, 2013, 12, 1350063.	1.8	2
43	The high-capacity hydrogen storage abilities of the Ti atoms coated Si@Al12 clusters. Chemical Physics Letters, 2013, 586, 116-120.	2.6	2
44	Density functional studies of magic clusters Ga13M(M=Li, Na, K, and Rb). Computational and Theoretical Chemistry, 2013, 1014, 8-12.	2.5	2
45	Density functional study on the electronic properties, polarizabilities, NICS values, and absorption spectra of fluorinated fullerene derivative C60F17CF3. Computational and Theoretical Chemistry, 2012, 991, 154-160.	2.5	9
46	Nonclassical fullerene C22H22 doped with transition metal atoms (ScNi): Density functional calculations. Computational and Theoretical Chemistry, 2012, 999, 225-230.	2.5	0
47	Probing the geometric, optical, and magnetic properties of 3d transition-metal endohedral Ge12M (M=Scâ€“Ni) clusters. Computational and Theoretical Chemistry, 2011, 969, 56-60.	2.5	34
48	Density Functional Study of Two Sevenâ€Membered Unconventional Fullerenes C₅₈F₁₇CF₃ and C₅₈F₁₈. Chinese Journal of Chemistry, 2010, 28, 1355-1358.	4.9	5
49	Density functional energetics and frontier orbitals analysis for the derivatives of the nonclassical triplet-pentagon-fusion fullerene C64X (X=Si and Ge). Computational and Theoretical Chemistry, 2010, 950, 36-40.	1.5	6
50	The evolutions of the structure stability, vibrational frequency, frontier orbital, and electronegativity of the unconventional exohedral fullerenes C64X4 (X=H, F, Cl, Br, and I): A density functional study. Computational and Theoretical Chemistry, 2009, 909, 43-48.	1.5	23
51	How will the dichlophenyl group affect the geometric structure, electronic properties, and static linear polarizability of La@C72?. Computational and Theoretical Chemistry, 2009, 894, 112-116.	1.5	14
52	The geometric and magnetic properties of the endohedral plumbaspherene M@Pb12 clusters (M = Sc, Ti,) Tj ETQq0 0 0 rgBT /Overlock 1	2.6	26
53	The density functional calculations on the structural stability, electronic properties, and static linear polarizability of the endohedral metallofullerene Ba@C74. Computational and Theoretical Chemistry, 2008, 867, 111-115.	1.5	19
54	The geometric, optical, and magnetic properties of the endohedral stannaspherenes M@Sn12 (M=Ti, V,) Tj ETQq0 0 0 rgBT /Overlock 10	3.0	30

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55	A theoretical study of the TiC5 cluster. Journal of Chemical Physics, 2008, 128, 064314.	3.0	4
56	Influence of a dichlophenyl group on the geometric structure, electronic properties, and static linear polarizability ofLa@C74. Physical Review A, 2007, 76, .	2.5	16
57	Geometric and electronic properties of endohedral Si@C74. Journal of Chemical Physics, 2006, 125, 104307.	3.0	16
58	Effective High-throughput Screening of Two-Dimensional Layered Materials for Potential Lithium-ion battery Anodes. Dalton Transactions, 0, , .	3.3	0