# 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 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | Transition metal Ti coated porous fullerene C24B24: Potential material for hydrogen storage. International Journal of Hydrogen Energy, 2015, 40, 16271-16277. | 7.1 | 51 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | The Peculiar Role of the Au<sub>3</sub> Unit in Au<sub>m</sub> Clusters: Ï*f*-Aromaticity of the Au<sub>5</sub>Zn<sup>+</sup> Ion. Inorganic Chemistry, 2017, 56, 5793-5803. | 4.0 | 27 |
| 11 | The geometric and magnetic properties of the endohedral plumbaspherene M@Pb12 clusters (M = Sc, Ti,) Tj ETQq1 1 0.784314 rgBT | 2.6 | 26 |
| 12 | 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 |
| 13 | 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 |
| 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 | 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 |
| 16 | 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 |
| 17 | Promising anode material BN/VS2 heterostructure for the Li-ion battery: The first-principles study. Applied Surface Science, 2021, 564, 150468. | 6.1 | 23 |
| 18 | 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 |

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|---|---|---|---|
| 19 | Multiple Regulation over Growth Direction, Band Structure, and Dimension of Monolayer WS<sub>2</sub> by a Quartz Substrate. Chemistry of Materials, 2020, 32, 2508-2517. | 6.7 | 21 |
| 20 | 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 |
| 21 | 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 |
| 22 | Synthesis of nickel selenide thin films for high performance all-solid-state asymmetric supercapacitors. Chinese Chemical Letters, 2020, 31, 2275-2279. | 9.0 | 18 |
| 23 | 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 |
| 24 | Geometric and electronic properties of endohedral Si@C74. Journal of Chemical Physics, 2006, 125, 104307. | 3.0 | 16 |
| 25 | 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 |
| 26 | Numerical and Experimental Investigation on Electromagnetic Attenuation by Semi-Ellipsoidal Shaped Plasma. Plasma Science and Technology, 2015, 17, 869-875. | 1.5 | 15 |
| 27 | 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 |
| 28 | The hydrogen storage properties of Na decorated small boron cluster B6Na8. Chemical Physics Letters, 2016, 661, 161-167. | 2.6 | 14 |
| 29 | Density functional calculations of efficient H <sub>2</sub> separation from impurity gases (H) Tj ETQq1 1 0.784314 rgBT /Overlock 10 bilayer g-C <sub>3</sub> N. Chinese Physics B, 2019, 28, 048102. | 1.4 | 14 |
| 30 | Oil boundary approach for sublimation enabled camphor mediated graphene transfer. Journal of Colloid and Interface Science, 2019, 546, 11-19. | 9.4 | 13 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | Research on metallic chalcogen-functionalized monolayer-puckered V<sub>2</sub>CX<sub>2</sub> (X) Tj ETQq0 0 0 rgBT /Overlock 10 4672-4681. | 5.9 | 8 |
| 35 | Remarkable-cycle-performance Î²-bismuthene/graphene heterostructure anode for Li-ion battery. Chinese Chemical Letters, 2022, 33, 3802-3808. | 9.0 | 8 |
| 36 | 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 |

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|---|---|---|---|
| 37 | Remarkable-cycling-performance anode for Li-ion battery: The bilayer Î²-bismuthene. Electrochimica Acta, 2021, 388, 138641. | 5.2 | 7 |
| 38 | Theoretically identifying the electrocatalytic activity and mechanism of Zn doped 2D h-BN for nitrate reduction to NH<sub>3</sub>. Chemical Communications, 2022, 58, 7156-7159. | 4.1 | 7 |
| 39 | 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 |
| 40 | Dynamical energy equipartition of the Toda model with additional on-site potentials. Chinese Physics B, 2017, 26, 100505. | 1.4 | 6 |
| 41 | Density Functional Study of Two Sevenâ€Membered Unconventional Fullerenes C<sub>58</sub>F<sub>17</sub>CF<sub>3</sub> and C<sub>58</sub>F<sub>18</sub>. Chinese Journal of Chemistry, 2010, 28, 1355-1358. | 4.9 | 5 |
| 42 | 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 |
| 43 | 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 |
| 44 | 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 |
| 45 | A theoretical study of the TiC5 cluster. Journal of Chemical Physics, 2008, 128, 064314. | 3.0 | 4 |
| 46 | STRUCTURAL, ELECTRONIC, MAGNETIC, AND OPTICAL PROPERTIES OF 3d TRANSITION METAL ENDOHEDRAL <font>M</font>@<font>Ge</font><sub>12</sub><font>H</font><sub>12</sub>(<font>M</font>=<font>Sc</font>â€“<font>Ni</font> CLUSTERS. Journal of Theoretical and Computational Chemistry, 2013, 12, 1350063. | 1.8 | 2 |
| 47 | The high-capacity hydrogen storage abilities of the Ti atoms coated Si@Al12 clusters. Chemical Physics Letters, 2013, 586, 116-120. | 2.6 | 2 |
| 48 | Density functional studies of magic clusters Ga13M(M=Li, Na, K, and Rb). Computational and Theoretical Chemistry, 2013, 1014, 8-12. | 2.5 | 2 |
| 49 | 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 |
| 50 | 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 |
| 51 | How a trapeziform flake of monolayer WS2 formed on SiO2(1Â0Â0)? A first-principle study. Applied Surface Science, 2020, 517, 145864. | 6.1 | 2 |
| 52 | 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 |
| 53 | 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 |
| 54 | 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 |

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|---|---|---|---|
| 55 | Nonclassical fullerene C22H22 doped with transition metal atoms (ScNi): Density functional calculations. Computational and Theoretical Chemistry, 2012, 999, 225-230. | 2.5 | 0 |
| 56 | 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 |
| 57 | The determination of serum cholesterol concentration with improved differential evolution algorithm based on ultraviolet-visible absorption spectrum. , 2016, , . | | 0 |
| 58 | Effective High-throughput Screening of Two-Dimensional Layered Materials for Potential Lithium-ion battery Anodes. Dalton Transactions, 0, , . | 3.3 | 0 |