Yue-Wen Mu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2472376/publications.pdf

Version: 2024-02-01

69 papers	2,368 citations	304701 22 h-index	214788 47 g-index
71 all docs	71 docs citations	71 times ranked	2066 citing authors

#	Article	IF	Citations
1	Observation of an all-boron fullerene. Nature Chemistry, 2014, 6, 727-731.	13.6	724
2	O-coordinated W-Mo dual-atom catalyst for pH-universal electrocatalytic hydrogen evolution. Science Advances, 2020, 6, eaba6586.	10.3	263
3	Cageâ€Like B₄₁⁺ and B₄₂²⁺: New Chiral Members of the Borospherene Family. Angewandte Chemie - International Edition, 2015, 54, 8160-8164.	13.8	105
4	A DFT based method for calculating the surface energies of asymmetric MoP facets. Applied Surface Science, 2018, 427, 357-362.	6.1	81
5	Planar B₃₈^{â^'}and B₃₇^{â^'}clusters with a double-hexagonal vacancy: molecular motifs for borophenes. Nanoscale, 2017, 9, 4550-4557.	5.6	76
6	Chemical Functionalization of GaN Monolayer by Adatom Adsorption. Journal of Physical Chemistry C, 2015, 119, 20911-20916.	3.1	65
7	Lithium-Decorated Borospherene B40: A Promising Hydrogen Storage Medium. Scientific Reports, 2016, 6, 35518.	3.3	64
8	Saturn-like charge-transfer complexes Li₄&B₃₆, Li₅&B₃₆⁺, and Li₆&B₃₆²⁺: exohedral metalloborospherenes with a perfect cage-like B₃₆^{4â^'}core. Physical Chemistry Chemical Physics, 2016, 18, 9922-9926.	2.8	58
9	Endohedral Ca@B₃₈: stabilization of a B₃₈^{2â^'}borospherene dianion by metal encapsulation. Physical Chemistry Chemical Physics, 2016, 18, 11610-11615.	2.8	50
10	Structures and magnetic properties of SinMnâ€^(n=1â€“15) clusters. Journal of Chemical Physics, 2009, 130, 164514.	3.0	46
11	Graphitic-N highly doped graphene-like carbon: A superior metal-free catalyst for efficient reduction of CO2. Applied Catalysis B: Environmental, 2021, 298, 120510.	20.2	46
12	Binary nature of monolayer boron sheets from ab initio global searches. Journal of Chemical Physics, 2013, 138, 024701.	3.0	44
13	N-Doped amorphous MoS_x for the hydrogen evolution reaction. Nanoscale, 2019, 11, 11217-11226.	5.6	43
14	B₄₈^{â^'}: a bilayer boron cluster. Nanoscale, 2021, 13, 3868-3876.	5.6	43
15	Scalable Production of Freestanding Few-Layer Î²₁₂-Borophene Single Crystalline Sheets as Efficient Electrocatalysts for Lithiumâ€“Sulfur Batteries. ACS Nano, 2021, 15, 17327-17336.	14.6	40
16	Structural transition in metal-centered boron clusters: from tubular molecular rotors Ta@B₂₁and Ta@B₂₂⁺to cage-like endohedral metalloborospherene Ta@B₂₂^{â^'}. Physical Chemistry Chemical Physics, 2017, 19, 27025-27030.	2.8	38
17	Ribbon aromaticity in double-chain planar BnH22â^' and Li2BnH2 nanoribbon clusters up to n = 22: lithiated boron dihydride analogues of polyenes. Physical Chemistry Chemical Physics, 2013, 15, 18872.	2.8	31
18	Endohedral C₃Ca@B₃₉⁺and C₂Ca@B₃₉⁺: axially chiral metalloborospherenes based on B₃₉^{â^'}. Physical Chemistry Chemical Physics, 2015, 17, 19690-19694.	2.8	31

#	Article	IF	Citations
19	Predicting two-dimensional semiconducting boron carbides. Nanoscale, 2019, 11, 11099-11106.	5.6	29
20	Structures and magnetic properties of Pd<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>n</mml:mi></mml:msub></mml:math>clusters (<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Td (xmlns:mml="htt doped by Mn atoms. Physical Review A, 2011, 84.	2.5	28
21	Cage-like B₃₉⁺clusters with the bonding pattern of Ïƒ + Ï€ double delocalization: new members of the borospherene family. Physical Chemistry Chemical Physics, 2017, 19, 10998-11003.	2.8	23
22	Cage-like Ta@Bqn complexes (n = 23â€“28, q = â^'1â€“+ 3) in 18-electron configurations with the highest coordination number of twenty-eight. Nanoscale, 2018, 10, 7451-7456.	5.6	23
23	Fluxional Bonds in Planar B₁₉^{â^'}, Tubular Ta@B₂₀^{â^'}, and Cageâ€Like B₃₉^{â^'}. Journal of Computational Chemistry, 2019, 40, 966-970.	3.3	23
24	Structures and magnetic properties of SinNi (n=1â€“17) clusters. Computational and Theoretical Chemistry, 2009, 916, 139-146.	1.5	21
25	Two-dimensional gradient Ag nanoparticle assemblies: multiscale fabrication and SERS applications. Nanotechnology, 2010, 21, 495601.	2.6	21
26	Strain-induced metal-semimetal transition of BeB₂ monolayer. RSC Advances, 2015, 5, 11392-11396.	3.6	19
27	Predicting lanthanide boride inverse sandwich tubular molecular rotors with the smallest coreâ€“shell structure. Nanoscale, 2019, 11, 21311-21316.	5.6	19
28	Heteroborospherene clusters Ninâ€‰â^â€‰B40 (nâ€‰=â€‰1â€“4) and heteroborophene monolayers Ni2â€‰â^â€‰B14 with pla heptacoordinate transition-metal centers in Î·7-B7 heptagons. Scientific Reports, 2017, 7, 5701.	3.3	16
29	CoP/RGO-Pd Hybrids with Heterointerfaces as Highly Active Catalysts for Ethanol Electrooxidation. ACS Applied Materials & Interfaces, 2020, 12, 28903-28914.	8.0	16
30	Exfoliation of borophenes from silver substrates assisted by Li/Mg atomsâ”a density functional theory study. Journal of Materials Chemistry C, 2019, 7, 4043-4048.	5.5	15
31	Bilayer B 54 , B 60 , and B 62 Clusters in a Universal Structural Pattern. European Journal of Inorganic Chemistry, 2020, 2020, 3296-3301.	2.0	15
32	Prediction of freestanding semiconducting bilayer borophenes. Nano Research, 2022, 15, 5752-5757.	10.4	15
33	Boosting capacitive performance of nitrogen-doped carbon by atomically dispersed iron. Journal of Power Sources, 2022, 532, 231335.	7.8	15
34	Multiple Dirac cones in BN co-doped Î²-graphyne. Journal of Materials Chemistry C, 2016, 4, 7339-7344.	5.5	14
35	Aromatic cage-like B₃₄ and B₃₅⁺: new axially chiral members of the borospherene family. Physical Chemistry Chemical Physics, 2018, 20, 15344-15349.	2.8	13
36	First-Principles Study on the Oxidation of Supported Î²12-Borophene. Journal of Physical Chemistry C, 2020, 124, 28145-28151.	3.1	13

#	Article	IF	Citations
37	A novel borophene featuring heptagonal holes: a common precursor of borospherenes. Physical Chemistry Chemical Physics, 2017, 19, 19890-19895.	2.8	12
38	Charge-induced structural transition between seashell-like B₂₉^{â˜’} and B₂₉⁺ in 18 Ï€-electron configurations. Physical Chemistry Chemical Physics, 2018, 20, 15330-15334.	2.8	12
39	Cageâ€Like B₄₁⁺ and B₄₂²⁺: New Chiral Members of the Borospherene Family. Angewandte Chemie, 2015, 127, 8278-8282.	2.0	11
40	â€œW-X-Mâ€•transformations in isomerization of B39â˜’ borospherenes. AIP Advances, 2016, 6, .	1.3	11
41	A first-principles study on zigzag phosphorene nanoribbons passivated by iron-group atoms. Physical Chemistry Chemical Physics, 2017, 19, 25441-25445.	2.8	11
42	Zigzag double-chain Câ€“Be nanoribbon featuring planar pentacoordinate carbons and ribbon aromaticity. Journal of Materials Chemistry C, 2017, 5, 408-414.	5.5	10
43	Sea-shell-like B31+ and B32: two new axially chiral members of the borospherene family. RSC Advances, 2020, 10, 10129-10133.	3.6	10
44	High-symmetry tubular Ta@B₁₈^{3â˜’}, Ta₂@B₁₈, and Ta₂@B₂₇⁺ as embryos of Î±-boronanotubes with a transition-metal wire coordinated inside. Physical Chemistry Chemical Physics, 2018, 20, 25009-25015.	2.8	9
45	Perfect cubic La-doped boron clusters La₆&[La@B₂₄]^{+/0}as the embryos of low-dimensional lanthanide boride nanomaterials. RSC Advances, 2020, 10, 12469-12474.	3.6	9
46	Probing into the crystal plane effect on the reduction of Î±-Fe2O3 in CO by Operando Raman spectroscopy. Journal of Fuel Chemistry and Technology, 2021, 49, 1558-1566.	2.0	9
47	Visualizing Topological Insulating Bi₂Te₃ Quintuple Layers on SiO₂-Capped Si Substrates and Its Contrast Optimization. Journal of Nanoscience and Nanotechnology, 2011, 11, 7042-7046.	0.9	8
48	Fluxional bonds in quasiâ€planar and halfâ€sandwich (M = K, Rb, and Cs). Journal of Computational Chemistry, 2019, 40, 1227-1232.	3.3	8
49	From Quasi-Planar B56 to Penta-Ring Tubular CaÂ©B56: Prediction of Metal-Stabilized CaÂ©B56 as the Embryo of Metal-Doped Boron Î±-Nanotubes. Scientific Reports, 2016, 6, 37893.	3.3	7
50	Comment on â€œTwo-Dimensional Boron Monolayer Sheetsâ€• ACS Nano, 2013, 7, 879-879.	14.6	6
51	Stuffing Enhances the Stability of Medium-Sized (GaAs)n Clusters. Journal of Physical Chemistry C, 2013, 117, 12835-12840.	3.1	5
52	Low-dimensional functional networks of cage-like B₄₀ with effective transition-metal intercalations. Physical Chemistry Chemical Physics, 2019, 21, 22611-22617.	2.8	5
53	Fluxional Bonds in Tubular Molecular Rotors B3-[Ta@B18] and B4-[Ta@B18]+ in 18-Electron Configurations. Journal of Cluster Science, 2020, 31, 331-336.	3.3	5
54	Axially Chiral Cage-Like B38+ and B382+: New Aromatic Members of the Borospherene Family. Journal of Cluster Science, 2020, , 1.	3.3	5

#	Article	IF	Citations
55	Ribbon Aromaticity of Double-Chain B2n C2H2 Clusters (nÂ=Â2â€“9): A First Principle Study. Journal of Cluster Science, 2015, 26, 2043-2050.	3.3	4
56	K(CO) 8 â^' and Rb(CO) 8 â^' : Cube-Like Alkali Octacarbonyls Satisfying the 18-Electron Rule. Journal of Cluster Science, 2019, 30, 621-626.	3.3	4
57	La@[La5&B30]0/â^'/2â^': endohedral trihedral metallo-borospherenes with spherical aromaticity. Physical Chemistry Chemical Physics, 2022, 24, 3918-3923.	2.8	4
58	The microstructure and magnetic behavior of Co nanostructured film prepared by energetic cluster beam deposition. European Physical Journal D, 2009, 52, 163-166.	1.3	3
59	Structures and electronic properties of stoichiometric hydrogenated aluminum clusters. European Physical Journal D, 2010, 57, 197-205.	1.3	3
60	Double-ring tubular (B2O2)nclusters (n = 6â€“42) rolled up from the most stable BO double-chain ribbon in boron monoxides. Physical Chemistry Chemical Physics, 2017, 19, 23213-23217.	2.8	3
61	Structures and polarizabilities of medium-sized GanAsm clusters. Chemical Physics Letters, 2011, 511, 97-100.	2.6	2
62	(C6H6Cr)n&B40 (nâ€‰=â€‰1â€“6): Exohedral Borospherene Complexes with Cage-like B40 as an Effective Ligand with Multiple Coordination Sites. Journal of Cluster Science, 2020, 31, 1363-1369.	3.3	2
63	Compression-induced crimping of boron nanotubes from borophenes: a DFT study. Physical Chemistry Chemical Physics, 2022, 24, 14566-14572.	2.8	2
64	Magnetoelectric response analysis of the piezoelectric/piezomagnetic thin-film heterostructure derived by low energy cluster beam deposition. , 2008, , .		1
65	Using phosphorus-doped molybdenum sulfide with (1 0 0)-facet-exposed and enlarged interlayer spacing to enhance hydrogen evolution. Journal of Electroanalytical Chemistry, 2021, 897, 115545.	3.8	1
66	Smart nanostructure derived by low energy cluster beam deposition. , 2009, , .		0
67	The optical band-gap changing of Cu doped Zno nanostructured film. , 2009, , .		0
68	First-principles calculations of the structural, electronic and magnetic properties of BnN20â^'n (n =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.3	0
69	Novel B-C binary fullerenes following the isolated B4C3 hexagonal pyramid rule. Journal of Molecular Modeling, 2020, 26, 199.	1.8	0