Zhang Shuai

List of Publications by Year
in descending order

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38 papers	426 citations	840776 11 h-index	752698 20 g-index
39 all docs	39 docs citations	39 times ranked	703 citing authors

#	Article	IF	Citations
1	Photocatalytic Reduction of CO2 by ZnO Micro/nanomaterials with Different Morphologies and Ratios of {0001} Facets. Scientific Reports, 2016, 6, 38474.	3.3	89
2	Protein-directed synthesis of highly monodispersed, spherical gold nanoparticles and their applications in multidimensional sensing. Scientific Reports, 2016, 6, 28900.	3.3	73
3	Single-indicator-based Multidimensional Sensing: Detection and Identification of Heavy Metal Ions and Understanding the Foundations from Experiment to Simulation. Scientific Reports, 2016, 6, 25354.	3.3	30
4	Copper sulfide nanoneedles on CNT backbone composite electrodes for high-performance supercapacitors and Li-S batteries. Journal of Solid State Electrochemistry, 2017, 21, 349-359.	2.5	28
5	Band-gap modulations of armchair silicene nanoribbons by transverse electric fields. European Physical Journal B, 2013, 86, 1.	1.5	21
6	The effect of silicon doping on the geometrical structures, stability, and electronic and spectral properties of magnesium clusters: DFT study of SiMg_n (n = 1â€12) clusters. International Journal of Quantum Chemistry, 2020, 120, e26143.	2.0	20
7	Probing the structural evolution, electronic and spectral properties of beryllium doped magnesium and its ion clusters. New Journal of Chemistry, 2020, 44, 16929-16940.	2.8	16
8	Au-PEDOT/rGO nanocomposites functionalized graphene electrochemical transistor for ultra-sensitive detection of acetaminophen in human urine. Analytica Chimica Acta, 2022, 1191, 339306.	5.4	13
9	Stable and Efficient Upconversion Single Red Emission from CsPbI₃ Perovskite Quantum Dots Triggered by Upconversion Nanoparticles. Inorganic Chemistry, 2021, 60, 2649-2655.	4.0	12
10	Systematic theoretical investigation of structures, stabilities, and electronic properties of rhodium-doped silicon clusters: Rh2Si n q (nÂ=Â1â€“10; qÂ=Â0,ÂÂ±1). Journal of Materials Science, 2015, 50, 6180-6196.	3.7	11
11	First-principle study of silicon cluster doped with rhodium: Rh2Sin (nÂ=Â1â€“11) clusters. Materials Chemistry and Physics, 2015, 160, 227-236.	4.0	11
12	Fluorine-Doped Carbon-Coated Mesoporous Ti₂Nb₁₀O₂₉ Microspheres as a High-Performance Anode for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2022, 126, 7799-7808.	3.1	11
13	Probing the structures and electronic properties of anionic and neutral BiAu_n^{â”1,0} (n = 2â€“20) clusters: a pyramid-like BiAu₁₃ cluster. New Journal of Chemistry, 2019, 43, 10030-10037.	2.8	9
14	Theoretical study of the geometrical and electronic properties of Be2Mg+ n (n = 1â€“11) clusters. Materials Express, 2019, 9, 778-785.	0.5	7
15	Direct Growth of Copper Oxide Films on Ti Substrate for Nonenzymatic Glucose Sensors. Journal of Nanomaterials, 2014, 2014, 1-5.	2.7	6
16	Controllable synthesis and photocatalytic properties of ZnO hierarchical flowerâ€like porous nanostructures. Micro and Nano Letters, 2016, 11, 753-757.	1.3	6
17	First-principles study on the geometries, stabilities and electronic properties of yttriumâ€“silicon clusters (Y2Si n ; 1Ââ‰ÂnÂâ‰Â12). Structural Chemistry, 2016, 27, 983-992.	2.0	6
18	A density functional study of small sized silver-doped silicon clusters: Ag2Sin (n = 1â€“13). European Physical Journal D, 2015, 69, 1.	1.3	5

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19	Probing the structures, stabilities, and electronic properties of neutral and charged carbon-doped lithium CLi n Î¼ (nÂ=Â2â€“20, Î¼Â=Â0, Â±1) clusters from unbiased CALYPSO method. Journal of Materials Science, 2016, 51, 9440-9454.	3.7	5
20	Geometries, stabilities and electronic properties of beryllium-silicon Be2Si n clusters. Journal of Molecular Modeling, 2014, 20, 2242.	1.8	4
21	Facile Synthesis of ZnO@TiO2Core-Shell Nanorod Thin Films for Dye-Sensitized Solar Cells. Journal of Nanomaterials, 2015, 2015, 1-5.	2.7	4
22	Structures, Stabilities, and Electronic Properties of Small-Sized Zr2Si n (n=1â€“11) Clusters: A Density Functional Study. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2015, 70, 805-814.	1.5	4
23	Geometries, stabilities and electronic properties of small-sized Pd2-doped Sin(n= 1â€“11) clusters. Molecular Physics, 2015, 113, 3567-3577.	1.7	4
24	Theoretical investigation on the geometries and electronic properties of cesiumâ€“silicon CsSi n (nÂ=Â2â€“12) clusters. Structural Chemistry, 2016, 27, 457-465.	2.0	4
25	Facile Synthesis of Carbon-Coated Zn₂SnO₄Nanomaterials as Anode Materials for Lithium-Ion Batteries. Journal of Nanomaterials, 2014, 2014, 1-6.	2.7	3
26	Structural, Stabilities, and Electronic Properties of Bimetallic Mg2-doped Silicon Clusters. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2014, 69, 481-488.	1.5	3
27	Transport and Magnetic Properties of K0.8Fe2â^'x Cu x Se2(0 â©½ x â©½ 2) System. Journal of Superconductivity and Novel Magnetism, 2015, 28, 219-222.	1.8	3
28	Theoretical Study of Geometries, Stabilities, and Electronic Properties of Cationic (FeS) n + (n = 1â€“5) Clusters. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2016, 71, 45-51.	1.5	3
29	Theoretical study of the structures, stabilities, and electronic properties of neutral and anionic Ca2Si n Î» (n = 1â€“8, Î» = 0, +1) clusters. European Physical Journal D, 2014, 68, 1.	1.3	2
30	Structures and electronic properties of the small rubidiumâ€doped silicon RbSi_n (nâ€‰=â€‰1â€“12) clusters. International Journal of Quantum Chemistry, 2015, 115, 50-58.	2.0	2
31	First-Principles Calculations of the Mechanical and Elastic Properties of 2H_c- and 2H_a-WS₂/CrS₂ Under Pressure. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2016, 71, 517-524.	1.5	2
32	Probing the geometries and electronic properties of charged Zr2Si n q (nÂ=Â1â€“12, qÂ=ÂÂ±1) clusters. Structural Chemistry, 2018, 29, 139-146.	2.0	2
33	A Density Functional Theory Study on the Structures and Electronic Properties of XAl_n (X = Br, I; n = 3â€“15) Clusters. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2019, 74, 121-129.	1.5	2
34	Facile hydrothermal synthesis CuO microflowers for nonâ€enzymatic glucose sensors. Micro and Nano Letters, 2022, 17, 107-113.	1.3	2
35	Computational probe for the geometrical structure and spectroscopic properties of Ga2Mgn+ (nÂ=Â1â€“11) clusters. Computational and Theoretical Chemistry, 2021, 1206, 113500.	2.5	1
36	Solutionâ€gated transistor based on electrochemically reduced graphene oxide channel. Journal of Materials Science, 2022, 57, 4652-4663.	3.7	1

#	Article	IF	Citations
37	Searching new structures of ruthenium-doped in small-sized silicon clusters: RuSin(nâ€‰=â€‰3â€“13) clusters. European Physical Journal Plus, 2022, 137, 1.	2.6	1
38	Application of embedded system to the design of data collecting and analyzing system for rock mass mechanics property test. , 2010, , .		0