

List of Publications by Year in descending order

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490
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15466

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504
times ranked

11865
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#	ARTICLE	IF	CITATIONS
1	Crystal growth in colloidal tin oxide nanocrystals induced by coalescence at room temperature. <i>Applied Physics Letters</i> , 2003, 83, 1566-1568.	1.5	257
2	Structural and optical properties of CaTiO ₃ perovskite-based materials obtained by microwave-assisted hydrothermal synthesis: An experimental and theoretical insight. <i>Acta Materialia</i> , 2009, 57, 5174-5185.	3.8	194
3	Morphology and Blue Photoluminescence Emission of PbMoO ₄ Processed in Conventional Hydrothermal. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5812-5822.	1.5	171
4	Understanding Reaction Mechanisms in Organic Chemistry from Catastrophe Theory Applied to the Electron Localization Function Topology. <i>Journal of Physical Chemistry A</i> , 2008, 112, 7128-7136.	1.1	165
5	An Aromaticity Scale Based on the Topological Analysis of the Electron Localization Function Including \int and \int Contributions. <i>Journal of Chemical Theory and Computation</i> , 2005, 1, 83-86.	2.3	152
6	Theoretical insights in enzyme catalysis. <i>Chemical Society Reviews</i> , 2004, 33, 98-107.	18.7	150
7	Electronic structure and optical properties of BaMoO ₄ powders. <i>Current Applied Physics</i> , 2010, 10, 614-624.	1.1	150
8	The Joint Use of Catastrophe Theory and Electron Localization Function to Characterize Molecular Mechanisms. A Density Functional Study of the Diels-Alder Reaction between Ethylene and 1,3-Butadiene. <i>Journal of Physical Chemistry A</i> , 2003, 107, 6014-6024.	1.1	149
9	Influence of Reactant Polarity on the Course of the Inverse-Electron-Demand Diels-Alder Reaction. A DFT Study of Regio- and Stereoselectivity, Presence of Lewis Acid Catalyst, and Inclusion of Solvent Effects in the Reaction between Nitroethene and Substituted Ethenes. <i>Journal of Organic Chemistry</i> , 1999, 64, 5867-5875.	1.7	136
10	Hierarchical Assembly of CaMoO ₄ Nano-Octahedrons and Their Photoluminescence Properties. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5207-5219.	1.5	130
11	New Findings on the Diels-Alder Reactions. An Analysis Based on the Bonding Evolution Theory. <i>Journal of Physical Chemistry A</i> , 2006, 110, 13939-13947.	1.1	128
12	Toward an Understanding of the Growth of Ag Filaments on \pm -Ag ₂ WO ₄ and Their Photoluminescent Properties: A Combined Experimental and Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2014, 118, 1229-1239.	1.5	124
13	Facet-dependent photocatalytic and antibacterial properties of \pm -Ag ₂ WO ₄ crystals: combining experimental data and theoretical insights. <i>Catalysis Science and Technology</i> , 2015, 5, 4091-4107.	2.1	123
14	Experimental and Theoretical Study on the Structure, Optical Properties, and Growth of Metallic Silver Nanostructures in Ag ₃ PO ₄ . <i>Journal of Physical Chemistry C</i> , 2015, 119, 6293-6306.	1.5	120
15	Density Functional Theory Study of the Brookite Surfaces and Phase Transitions between Natural Titania Polymorphs. <i>Journal of Physical Chemistry B</i> , 2006, 110, 23417-23423.	1.2	119
16	Static simulation of bulk and selected surfaces of anatase TiO ₂ . <i>Surface Science</i> , 2001, 490, 116-124.	0.8	115
17	Thermodynamic argument about SnO ₂ nanoribbon growth. <i>Applied Physics Letters</i> , 2003, 83, 635-637.	1.5	115
18	Nine questions on energy decomposition analysis. <i>Journal of Computational Chemistry</i> , 2019, 40, 2248-2283.	1.5	113

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19	Efficient microwave-assisted hydrothermal synthesis of CuO sea urchin-like architectures via a mesoscale self-assembly. <i>CrystEngComm</i> , 2010, 12, 1696.	1.3	109
20	A Systematic Density Functional Theory Study of V_xO_y and V_xOY ($X = 2 \leq 4$, $Y = 2 \leq 10$) Systems. <i>Journal of Physical Chemistry A</i> , 2001, 105, 9760-9775.	1.1	107
21	Synthesis of wurtzite ZnS nanoparticles using the microwave assisted solvothermal method. <i>Journal of Alloys and Compounds</i> , 2013, 556, 153-159.	2.8	105
22	A novel ozone gas sensor based on one-dimensional (1D) Ag_2WO_4 nanostructures. <i>Nanoscale</i> , 2014, 6, 4058-4062.	2.8	105
23	Room-temperature photoluminescence of BaTiO_3 : joint experimental and theoretical study. <i>Physical Review B</i> , 2005, 71, .	1.1	103
24	Direct in situ observation of the electron-driven synthesis of Ag filaments on Ag_2WO_4 crystals. <i>Scientific Reports</i> , 2013, 3, 1676.	1.6	103
25	ZnWO_4 nanocrystals: synthesis, morphology, photoluminescence and photocatalytic properties. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 1923-1937.	1.3	103
26	Periodic study on the structural and electronic properties of bulk, oxidized and reduced SnO_2 (1 1 0) surfaces and the interaction with O_2 . <i>Surface Science</i> , 2002, 511, 408-420.	0.8	100
27	A Theoretical Study on the Relationship between Nucleophilicity and Ionization Potentials in Solution Phase. <i>Journal of Physical Chemistry A</i> , 2003, 107, 5588-5593.	1.1	100
28	Zinc blende versus wurtzite ZnS nanoparticles: control of the phase and optical properties by tetrabutylammonium hydroxide. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 20127-20137.	1.3	100
29	Potential Electron Transference in Ag_2WO_4 Microcrystals with Ag Nanofilaments as Microbial Agent. <i>Journal of Physical Chemistry A</i> , 2014, 118, 5769-5778.	1.1	99
30	Structural and electronic analysis of the atomic scale nucleation of Ag on Ag_2WO_4 induced by electron irradiation. <i>Scientific Reports</i> , 2014, 4, 5391.	1.6	99
31	Density functional theory calculation of the electronic structure of $\text{Ba}_0.5\text{Sr}_0.5\text{TiO}_3$: Photoluminescent properties and structural disorder. <i>Physical Review B</i> , 2004, 69, .	1.1	98
32	A relationship between structural and electronic order-disorder effects and optical properties in crystalline TiO_2 nanomaterials. <i>Dalton Transactions</i> , 2015, 44, 3159-3175.	1.6	96
33	Understanding the Molecular Mechanism of the 1,3-Dipolar Cycloaddition between Fulminic Acid and Acetylene in Terms of the Electron Localization Function and Catastrophe Theory. <i>Chemistry - A European Journal</i> , 2004, 10, 5165-5172.	1.7	95
34	A Hybrid Potential Reaction Path and Free Energy Study of the Chorismate Mutase Reaction. <i>Journal of the American Chemical Society</i> , 2001, 123, 1709-1712.	6.6	92
35	Enhancing Reactivity of Carbonyl Compounds via Hydrogen-Bond Formation. A DFT Study of the Hetero-Diels-Alder Reaction between Butadiene Derivative and Acetone in Chloroform. <i>Journal of Organic Chemistry</i> , 2003, 68, 8662-8668.	1.7	91
36	Long-range and short-range structures of cube-like shape SrTiO_3 powders: microwave-assisted hydrothermal synthesis and photocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 12386.	1.3	91

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37	Synthesis of Fine Micro-sized BaZrO ₃ Powders Based on a Decaoctahedron Shape by the Microwave-Assisted Hydrothermal Method. <i>Crystal Growth and Design</i> , 2009, 9, 833-839.	1.4	86
38	Presence of excited electronic state in CaWO ₄ crystals provoked by a tetrahedral distortion: An experimental and theoretical investigation. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	84
39	Unraveling reaction mechanisms by means of Quantum Chemical Topology Analysis. <i>International Journal of Quantum Chemistry</i> , 2014, 114, 1239-1252.	1.0	84
40	Effects of surface stability on the morphological transformation of metals and metal oxides as investigated by first-principles calculations. <i>Nanotechnology</i> , 2015, 26, 405703.	1.3	84
41	A combined theoretical and experimental study of electronic structure and optical properties of β -ZnMoO ₄ microcrystals. <i>Polyhedron</i> , 2013, 54, 13-25.	1.0	83
42	Silver Molybdate and Silver Tungstate Nanocomposites with Enhanced Photoluminescence. <i>Nanomaterials and Nanotechnology</i> , 2014, 4, 22.	1.2	83
43	Characterization of the High-Pressure Structures and Phase Transformations in SnO ₂ . A Density Functional Theory Study. <i>Journal of Physical Chemistry B</i> , 2007, 111, 6479-6485.	1.2	82
44	Theoretical Modeling of Enzyme Catalytic Power: A Analysis of σ -Cratic and Electrostatic Factors in CatecholO-Methyltransferase. <i>Journal of the American Chemical Society</i> , 2003, 125, 7726-7737.	6.6	79
45	Describing the Molecular Mechanism of Organic Reactions by Using Topological Analysis of Electronic Localization Function. <i>Current Organic Chemistry</i> , 2011, 15, 3566-3575.	0.9	79
46	The interplay between morphology and photocatalytic activity in ZnO and N-doped ZnO crystals. <i>Materials and Design</i> , 2017, 120, 363-375.	3.3	79
47	Catalytic Mechanism of Dihydrofolate Reductase Enzyme. A Combined Quantum-Mechanical/Molecular-Mechanical Characterization of Transition State Structure for the Hydride Transfer Step. <i>Journal of the American Chemical Society</i> , 1999, 121, 12140-12147.	6.6	78
48	Toward Understanding the Photocatalytic Activity of PbMoO ₄ Powders with Predominant (111), (100), (011), and (110) Facets. A Combined Experimental and Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 21382-21395.	1.5	76
49	Protective Face Masks: Current Status and Future Trends. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 56725-56751.	4.0	76
50	Structure and Bonding of Chlorine Oxides and Peroxides: ClO _x , ClO _x -(x= 1~4), and Cl ₂ O _x (x= 1~8). <i>Journal of Physical Chemistry A</i> , 1999, 103, 3078-3088.	1.1	74
51	A simple protocol to help calculate saddle points. Transition-state structures for the Meyer-Schuster reaction in non-aqueous media: An ab initio MO study. <i>Chemical Physics Letters</i> , 1984, 109, 471-477.	1.2	73
52	A Joint Experimental and Theoretical Study on the Nanomorphology of CaWO ₄ Crystals. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20113-20119.	1.5	73
53	A theoretical study on the structure, energetics and bonding of VO _x + and VO _x (x=1~4) systems. <i>Chemical Physics Letters</i> , 2001, 333, 493-503.	1.2	72
54	An efficient microwave-assisted hydrothermal synthesis of BaZrO ₃ microcrystals: growth mechanism and photoluminescence emissions. <i>CrystEngComm</i> , 2010, 12, 3612.	1.3	72

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55	Topological Analysis of Multiple Metal-Metal Bonds in Dimers of the $M_2(\text{Formamidinate})_4$ Type with $M = \text{Nb, Mo, Tc, Ru, Rh, and Pd}$. <i>Journal of Physical Chemistry A</i> , 2001, 105, 9460-9466.	1.1	71
56	Electronic and structural properties of $\text{Sn}_x\text{Ti}_{1-x}\text{O}_2$ solid solutions: a periodic DFT study. <i>Catalysis Today</i> , 2003, 85, 145-152.	2.2	71
57	A theoretical analysis of adsorption and dissociation of CH_3OH on the stoichiometric $\text{SnO}_2(110)$ surface. <i>Surface Science</i> , 1999, 430, 213-222.	0.8	70
58	Photoluminescence and Photocatalytic Properties of Ag_3PO_4 Microcrystals: An Experimental and Theoretical Investigation. <i>ChemPlusChem</i> , 2016, 81, 202-212.	1.3	70
59	First principles calculations on the origin of violet-blue and green light photoluminescence emission in SrZrO_3 and SrTiO_3 perovskites. <i>Theoretical Chemistry Accounts</i> , 2009, 124, 385-394.	0.5	69
60	An improved method for preparation of SrTiO_3 nanoparticles. <i>Materials Chemistry and Physics</i> , 2011, 125, 168-173.	2.0	69
61	Transition structure for hydride transfer to pyridinium cation from methanolate. Modeling of LADH catalyzed reaction. <i>Journal of the American Chemical Society</i> , 1988, 110, 4046-4047.	6.6	68
62	Quantum-mechanical analysis of the equation of state of anatase TiO_2 . <i>Physical Review B</i> , 2001, 64, .	1.1	68
63	Theoretical Study on the Molecular Mechanism for the Reaction of VO_2^+ with C_2H_4 . <i>Journal of Physical Chemistry A</i> , 2003, 107, 3107-3120.	1.1	68
64	On the photoluminescence behavior of samarium-doped strontium titanate nanostructures under UV light. A structural and electronic understanding. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 7566.	1.3	68
65	A theoretical study of the Meyer-Schuster reaction mechanism: minimum-energy profile and properties of transition-state structure. <i>Journal of the American Chemical Society</i> , 1988, 110, 666-674.	6.6	67
66	Curly arrows meet electron density transfers in chemical reaction mechanisms: from electron localization function (ELF) analysis to valence-shell electron-pair repulsion (VSEPR) inspired interpretation. <i>Chemical Communications</i> , 2016, 52, 8183-8195.	2.2	66
67	Acetone gas sensor based on Ag_2WO_4 nanorods obtained via a microwave-assisted hydrothermal route. <i>Journal of Alloys and Compounds</i> , 2016, 683, 186-190.	2.8	66
68	Density Functional Theory Study on the Structural and Electronic Properties of Low Index Rutile Surfaces for $\text{TiO}_2/\text{SnO}_2/\text{TiO}_2$ and $\text{SnO}_2/\text{TiO}_2/\text{SnO}_2$ Composite Systems. <i>Journal of Physical Chemistry A</i> , 2008, 112, 8943-8952.	1.1	65
69	The hierarchy of localization basins: a tool for the understanding of chemical bonding exemplified by the analysis of the VO_x and VO_{x+1} ($x=1-4$) systems. <i>Theoretical Chemistry Accounts</i> , 2001, 105, 299-308.	0.5	64
70	Toward an Understanding of Intermediate- and Short-Range Defects in ZnO Single Crystals. A Combined Experimental and Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2008, 112, 8970-8978.	1.1	64
71	Structural refinement, growth mechanism, infrared/Raman spectroscopies and photoluminescence properties of PbMoO_4 crystals. <i>Polyhedron</i> , 2013, 50, 532-545.	1.0	63
72	Quantum Mechanics Insight into the Microwave Nucleation of SrTiO_3 Nanospheres. <i>Journal of Physical Chemistry C</i> , 2012, 116, 24792-24808.	1.5	62

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73	Chemical structure and reactivity by means of quantum chemical topology analysis. <i>Computational and Theoretical Chemistry</i> , 2015, 1053, 17-30.	1.1	62
74	A theoretical study on cytosine tautomers in aqueous media by using continuum models. <i>Chemical Physics Letters</i> , 2000, 317, 437-443.	1.2	61
75	DFT Study of the Reaction between VO ₂ ⁺ and C ₂ H ₆ . <i>Organometallics</i> , 2004, 23, 730-739.	1.1	61
76	Unveiling the Chemical and Morphological Features of Sb ³⁺ SnO ₂ Nanocrystals by the Combined Use of High-Resolution Transmission Electron Microscopy and ab Initio Surface Energy Calculations. <i>Journal of the American Chemical Society</i> , 2009, 131, 14544-14548.	6.6	61
77	Following the Molecular Mechanism for the NH ₃ + LiH → LiNH ₂ + H ₂ Chemical Reaction: A Study Based on the Joint Use of the Quantum Theory of Atoms in Molecules (QTAIM) and Noncovalent Interaction (NCI) Index. <i>Journal of Physical Chemistry A</i> , 2014, 118, 1663-1672.	1.1	61
78	Identifying and rationalizing the morphological, structural, and optical properties of Ag ₂ MoO ₄ microcrystals, and the formation process of Ag nanoparticles on their surfaces: combining experimental data and first-principles calculations. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 065002.	2.8	61
79	Toward an Understanding of Molecular Mechanism of Domino Cycloadditions. Density Functional Theory Study of the Reaction between Hexafluorobut-2-yne and N,N-Dipyrrolylmethane. <i>Journal of the American Chemical Society</i> , 1998, 120, 1617-1618.	6.6	60
80	Origin of photoluminescence in SrTiO ₃ : a combined experimental and theoretical study. <i>Journal of Solid State Chemistry</i> , 2004, 177, 3879-3885.	1.4	60
81	Towards understanding of magnetic interactions within a series of tetrathiafulvalene-quinone conjugated-verdazyl diradical cation system: a density functional theory study. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 857-864.	1.3	60
82	Surfactant-Mediated Morphology and Photocatalytic Activity of Ag ₂ WO ₄ Material. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8667-8679.	1.5	60
83	Nucleophilicity Index from Perturbed Electrostatic Potentials. <i>Journal of Physical Chemistry A</i> , 2007, 111, 2442-2447.	1.1	59
84	Preorganization and Reorganization as Related Factors in Enzyme Catalysis: The Chorismate Mutase Case. <i>Chemistry - A European Journal</i> , 2003, 9, 984-991.	1.7	57
85	A Theoretical Study on the Reaction Mechanism for the Bergman Cyclization from the Perspective of the Electron Localization Function and Catastrophe Theory. <i>Journal of Physical Chemistry A</i> , 2005, 109, 3687-3693.	1.1	57
86	A joint study based on the electron localization function and catastrophe theory of the chameleonic and centauric models for the Cope rearrangement of 1,5-hexadiene and its cyano derivatives. <i>Journal of Computational Chemistry</i> , 2005, 26, 1427-1437.	1.5	56
87	First-Principles Study of Pressure-Induced Phase Transitions and Electronic Properties of Ag ₂ MoO ₄ . <i>Journal of Physical Chemistry C</i> , 2014, 118, 3724-3732.	1.5	56
88	A QM/MM Study of the Conformational Equilibria in the Chorismate Mutase Active Site. The Role of the Enzymatic Deformation Energy Contribution. <i>Journal of Physical Chemistry B</i> , 2000, 104, 11308-11315.	1.2	54
89	An electron localization function study of the trimerization of acetylene: Reaction mechanism and development of aromaticity. <i>Chemical Physics Letters</i> , 2005, 406, 393-397.	1.2	54
90	Elucidating the real-time Ag nanoparticle growth on Ag ₂ WO ₄ during electron beam irradiation: experimental evidence and theoretical insights. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 5352-5359.	1.3	54

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91	A 3D platform for the morphology modulation of materials: first principles calculations on the thermodynamic stability and surface structure of metal oxides: Co_3O_4 , Fe_2O_3 , and In_2O_3 . Modelling and Simulation in Materials Science and Engineering, 2016, 24, 025007.	0.8	53
92	Mechanism of Antibacterial Activity via Morphology Change of AgVO_3 : Theoretical and Experimental Insights. ACS Applied Materials & Interfaces, 2017, 9, 11472-11481.	4.0	53
93	Connecting structural, optical, and electronic properties and photocatalytic activity of Ag_3PO_4 : Mo complemented by DFT calculations. Applied Catalysis B: Environmental, 2018, 238, 198-211.	10.8	53
94	Lithium insertion and mobility in the TiO_2 -anatase/titanate structure: A periodic DFT study. Journal of Electroanalytical Chemistry, 2005, 581, 216-223.	1.9	52
95	Theoretical Study of the Gas Phase Decomposition of Glycolic, Lactic, and 2-Hydroxyisobutyric Acids. Journal of the American Chemical Society, 1997, 119, 6415-6422.	6.6	51
96	Connecting the surface structure, morphology and photocatalytic activity of Ag_2O : An in depth and unified theoretical investigation. Applied Surface Science, 2020, 509, 145321.	3.1	51
97	Spin-Philicity and Spin-Donicity as Auxiliary Concepts To Quantify Spin-Catalysis Phenomena. Journal of Physical Chemistry A, 2002, 106, 5353-5357.	1.1	50
98	Towards an insight on the photoluminescence of disordered CaWO_4 from a joint experimental and theoretical analysis. Journal of Solid State Chemistry, 2005, 178, 1284-1291.	1.4	50
99	Photoluminescent properties of ZrO_2 : Tm^{3+} , Tb^{3+} , Eu^{3+} powders – A combined experimental and theoretical study. Journal of Alloys and Compounds, 2017, 695, 3094-3103.	2.8	50
100	SnO_2 nanocrystals synthesized by microwave-assisted hydrothermal method: towards a relationship between structural and optical properties. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	49
101	Synthesis, antifungal evaluation and optical properties of silver molybdate microcrystals in different solvents: a combined experimental and theoretical study. Dalton Transactions, 2016, 45, 10736-10743.	1.6	49
102	Contribution of structural order-disorder to the green photoluminescence of PbWO_4 . Physical Review B, 2007, 75, .	1.1	48
103	An Experimental and Computational Study of AgVO_3 : Optical Properties and Formation of Ag Nanoparticles. Journal of Physical Chemistry C, 2016, 120, 12254-12264.	1.5	48
104	New insights on the bridge carbon – carbon bond in propellanes: A theoretical study based on the analysis of the electron localization function. Journal of Computational Chemistry, 2007, 28, 857-864.	1.5	47
105	On the reversed crystal growth of BaZrO_3 decaoctahedron: shape evolution and mechanism. CrystEngComm, 2011, 13, 5818.	1.3	47
106	A Combined Experimental and Theoretical Study on the Formation of Ag Filaments on Ag_2MoO_4 Induced by Electron Irradiation. Particle and Particle Systems Characterization, 2015, 32, 646-651.	1.2	47
107	Nonlocal (Pair Site) Reactivity from Second-Order Static Density Response Function: Gas- and Solution-Phase Reactivity of the Acetaldehyde Enolate as a Test Case. Journal of Physical Chemistry A, 1999, 103, 1367-1375.	1.1	46
108	An experimental and theoretical investigation on the optical and photocatalytic properties of ZnS nanoparticles. Journal of Physics and Chemistry of Solids, 2017, 103, 179-189.	1.9	46

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109	A Comparative Study of Claisen and Cope Rearrangements Catalyzed by Chorismate Mutase. An Insight into Enzymatic Efficiency: A Transition State Stabilization or Substrate Preorganization?. <i>Journal of the American Chemical Society</i> , 2004, 126, 311-319.	6.6	45
110	A theoretical study on the photoluminescence of SrTiO ₃ . <i>Chemical Physics Letters</i> , 2010, 493, 141-146.	1.2	45
111	Insight into the Effects of Fe Addition on the Local Structure and Electronic Properties of SrTiO ₃ . <i>Journal of Physical Chemistry C</i> , 2014, 118, 4930-4940.	1.5	45
112	Synthesis and morphological transformation of BaWO ₄ crystals: Experimental and theoretical insights. <i>Ceramics International</i> , 2016, 42, 10913-10921.	2.3	45
113	Magnetism and multiferroic properties at MnTiO ₃ surfaces: A DFT study. <i>Applied Surface Science</i> , 2018, 452, 463-472.	3.1	45
114	Understanding the White-Emitting CaMoO ₄ Co-Doped Eu ³⁺ , Tb ³⁺ , and Tm ³⁺ Phosphor through Experiment and Computation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 18536-18550.	1.5	45
115	A theoretical study of water adsorption on (10-10) and (0001) ZnO surfaces: molecular cluster, basis set and effective core potential dependence. <i>Computational and Theoretical Chemistry</i> , 1995, 330, 347-351.	1.5	44
116	Theoretical Study of the Elimination Kinetics of Carboxylic Acid Derivatives in the Gas Phase. Decomposition of 2-Chloropropionic Acid. <i>Journal of Physical Chemistry A</i> , 1997, 101, 1859-1865.	1.1	44
117	Transition structure selectivity in enzyme catalysis: a QM/MM study of chorismate mutase. <i>Theoretical Chemistry Accounts</i> , 2001, 105, 207-212.	0.5	44
118	DFT Study of Oxygen Adsorption on Modified Nanostructured Gold Pyramids. <i>Journal of Physical Chemistry B</i> , 2005, 109, 7624-7630.	1.2	44
119	Nature of the ring-closure process along the rearrangement of octa-1,3,5,7-tetraene to cycloocta-1,3,5-triene from the perspective of the electron localization function and catastrophe theory. <i>Journal of Computational Chemistry</i> , 2012, 33, 748-756.	1.5	44
120	Improving the ozone gas-sensing properties of CuWO ₄ nanoparticles. <i>Journal of Alloys and Compounds</i> , 2018, 748, 411-417.	2.8	44
121	Unveiling the role of ¹²⁷ I-Ag ₂ MoO ₄ microcrystals to the improvement of antibacterial activity. <i>Materials Science and Engineering C</i> , 2020, 111, 110765.	3.8	44
122	Enzyme catalysis and transition structures in vacuo. Transition structures for the enolization, carboxylation and oxygenation reactions in ribulose-1,5-bisphosphate carboxylase/oxygenase enzyme (Rubisco). <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994, 90, 2365-2374.	1.7	43
123	Quantum-mechanical simulation of MgAl ₂ O ₄ under high pressure. <i>Physical Review B</i> , 2002, 66, .	1.1	43
124	On the Nature of the Transition State in Catechol O-Methyltransferase. A Complementary Study Based on Molecular Dynamics and Potential Energy Surface Explorations. <i>Journal of the American Chemical Society</i> , 2005, 127, 10648-10655.	6.6	43
125	Toward an Understanding of the Catalytic Role of Hydrogen-Bond Donor Solvents in the Hetero-Diels-Alder Reaction between Acetone and Butadiene Derivative. <i>Journal of Physical Chemistry A</i> , 2005, 109, 10438-10444.	1.1	43
126	Migration of the subsurface impurity in Pd(111). <i>Physical Review B</i> , 2005, 71, .	1.1	43

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127	Oxygen adsorption on gold nanofacets and model clusters. <i>Journal of Chemical Physics</i> , 2006, 125, 054703.	1.2	43
128	A DFT Study of Structural and Electronic Properties of ZnS Polymorphs and its Pressure-Induced Phase Transitions. <i>Journal of the American Ceramic Society</i> , 2014, 97, 4011-4018.	1.9	43
129	Electronic aspects of LADH catalytic mechanism. <i>International Journal of Quantum Chemistry</i> , 1991, 39, 767-786.	1.0	42
130	Theoretical Study of Transition Structures for Intramolecular Hydrogen Transfer in Molecular Models Representing D-Ribulose 1,5-Bisphosphate. A Possible Molecular Mechanism for the Enolization Step in Rubisco. <i>The Journal of Physical Chemistry</i> , 1994, 98, 4821-4830.	2.9	42
131	H ₂ O and H ₂ interaction with ZnO surfaces: A MNDO, AM1, and PM3 theoretical study with large cluster models. <i>International Journal of Quantum Chemistry</i> , 1996, 57, 861-870.	1.0	42
132	A theoretical analysis of the TiO ₂ /Sn doped (110) surface properties. <i>Surface Science</i> , 2005, 580, 71-79.	0.8	42
133	Towards the scale-up of the formation of nanoparticles on Ag ₂ WO ₄ with bactericidal properties by femtosecond laser irradiation. <i>Scientific Reports</i> , 2018, 8, 1884.	1.6	42
134	Experimental and theoretical study to explain the morphology of CaMoO ₄ crystals. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 114, 141-152.	1.9	42
135	Theoretical approach for determining the relation between the morphology and surface magnetism of Co ₃ O ₄ . <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 453, 262-267.	1.0	42
136	A Theoretical Study of the Reaction between Cyclopentadiene and Protonated Imine Derivatives: A Shift from a Concerted to a Stepwise Molecular Mechanism. <i>Journal of Organic Chemistry</i> , 2001, 66, 6151-6157.	1.7	41
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