

List of Publications by Year in descending order

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15466

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504
all docs

504
docs citations

504
times ranked

11865
citing authors

#	ARTICLE	IF	CITATIONS
1	A theoretical and experimental investigation of hetero- vs. homo-connectivity in barium silicates. American Mineralogist, 2022, 107, 716-728.	0.9	6
2	Integrated experimental and theoretical study on the phase transition and photoluminescent properties of ZrO ₂ :xTb ³⁺ (x=1, 2, 4 and 8 mol %). Materials Research Bulletin, 2022, 145, 111532.	2.7	2
3	Photoluminescence emissions of Ca ¹⁺ WO ₄ :xEu ³⁺ : Bridging between experiment and DFT calculations. Journal of Rare Earths, 2022, 40, 1527-1534.	2.5	6
4	Connecting morphology and photoluminescence emissions in \hat{I}^2 -Ag ₂ MoO ₄ microcrystals. Ceramics International, 2022, 48, 3740-3750.	2.3	9
5	A diagnosis approach for semiconductor properties evaluation from ab initio calculations: Ag-based materials investigation. Journal of Solid State Chemistry, 2022, 305, 122670.	1.4	7
6	Tailoring Bi ₂ MoO ₆ by Eu ³⁺ incorporation for enhanced photoluminescence emissions. Journal of Luminescence, 2022, 243, 118675.	1.5	9
7	Graphene Nanoplatelets: In Vivo and In Vitro Toxicity, Cell Proliferative Activity, and Cell Gene Expression. Applied Sciences (Switzerland), 2022, 12, 720.	1.3	16
8	A bonding evolution theory study of the reaction between methylidyne radical, $\langle \text{CH} \rangle$ ($\langle \text{X} \rangle^2$), and cyclopentadiene, $\langle \text{C}_5\text{H}_6 \rangle$. International Journal of Quantum Chemistry, 2022, 122, .	1.0	6
9	\hat{I}^\pm Ag ₂ WO ₄ under microwave, electron beam and femtosecond laser irradiations: Unveiling the relationship between morphology and photoluminescence emissions. Journal of Alloys and Compounds, 2022, 903, 163840.	2.8	3
10	Interface matters: Design of an efficient \hat{I}^\pm -Ag ₂ WO ₄ /Ag ₃ PO ₄ photocatalyst. Materials Chemistry and Physics, 2022, 280, 125710.	2.0	7
11	Efficient Ni and Fe doping process in ZnO with enhanced photocatalytic activity: A theoretical and experimental investigation. Materials Research Bulletin, 2022, 152, 111849.	2.7	14
12	Inactivation of SARS-CoV-2 by a chitosan/ \hat{I}^\pm -Ag ₂ WO ₄ composite generated by femtosecond laser irradiation. Scientific Reports, 2022, 12, 8118.	1.6	7
13	Formation of Metallic Ag on AgBr by Femtosecond Laser Irradiation. Physchem, 2022, 2, 179-190.	0.5	3
14	Towards a relationship between photoluminescence emissions and photocatalytic activity of Ag ₂ SeO ₄ : combining experimental data and theoretical insights. Dalton Transactions, 2022, 51, 11346-11362.	1.6	5
15	Deciphering the Molecular Mechanism of Intramolecular Reactions from the Perspective of Bonding Evolution Theory. Physchem, 2022, 2, 207-223.	0.5	4
16	Bridging experiment and theory: Morphology, optical, electronic, and magnetic properties of MnWO ₄ . Applied Surface Science, 2022, 600, 154081.	3.1	9
17	Identifying and explaining vibrational modes of sanbornite (low-BaSi ₂ O ₅) and Ba ₅ Si ₈ O ₂₁ : A joint experimental and theoretical study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 248, 119130.	2.0	10
18	Modulating the properties of multifunctional semiconductors by means of morphology: Theory meets experiments. Computational Materials Science, 2021, 188, 110217.	1.4	19

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19	Revealing the Nature of Defects in $\hat{1}\pm$ -Ag ₂ WO ₄ by Positron Annihilation Lifetime Spectroscopy: A Joint Experimental and Theoretical Study. <i>Crystal Growth and Design</i> , 2021, 21, 1093-1102.	1.4	11
20	Unraveling a Biomass-Derived Multiphase Catalyst for the Dehydrogenative Coupling of Silanes with Alcohols under Aerobic Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 2912-2928.	3.2	8
21	Structure, Photoluminescence Emissions, and Photocatalytic Activity of Ag ₂ SeO ₃ : A Joint Experimental and Theoretical Investigation. <i>Inorganic Chemistry</i> , 2021, 60, 5937-5954.	1.9	10
22	SiO ₂ -Ag Composite as a Highly Virucidal Material: A Roadmap that Rapidly Eliminates SARS-CoV-2. <i>Nanomaterials</i> , 2021, 11, 638.	1.9	41
23	A scalable electron beam irradiation platform applied for allotropic carbon transformation. <i>Carbon</i> , 2021, 174, 567-580.	5.4	6
24	Surface-dependent photocatalytic and biological activities of Ag ₂ CrO ₄ : Integration of experiment and simulation. <i>Applied Surface Science</i> , 2021, 545, 148964.	3.1	18
25	PVC-SiO ₂ -Ag composite as a powerful biocide and anti-SARS-CoV-2 material. <i>Journal of Polymer Research</i> , 2021, 28, 1.	1.2	15
26	Increasing the photocatalytic and fungicide activities of Ag ₃ PO ₄ microcrystals under visible-light irradiation. <i>Ceramics International</i> , 2021, 47, 22604-22614.	2.3	13
27	Unveiling the Ag-Bi miscibility at the atomic level: A theoretical insight. <i>Computational Materials Science</i> , 2021, 197, 110612.	1.4	2
28	Carbon Nanofibers versus Silver Nanoparticles: Time-Dependent Cytotoxicity, Proliferation, and Gene Expression. <i>Biomedicines</i> , 2021, 9, 1155.	1.4	21
29	Bioactive Ag ₃ PO ₄ /Polypropylene Composites for Inactivation of SARS-CoV-2 and Other Important Public Health Pathogens. <i>Journal of Physical Chemistry B</i> , 2021, 125, 10866-10875.	1.2	10
30	Selective Synthesis of $\hat{1}\pm$, $\hat{1}^2$, and $\hat{1}^3$ -Ag ₂ WO ₄ Polymorphs: Promising Platforms for Photocatalytic and Antibacterial Materials. <i>Inorganic Chemistry</i> , 2021, 60, 1062-1079.	1.9	18
31	Catalytic Hydrogenation of Azobenzene in the Presence of a Cuboidal Mo ₃ S ₄ Cluster via an Uncommon Sulfur-Based H ₂ Activation Mechanism. <i>ACS Catalysis</i> , 2021, 11, 608-614.	5.5	22
32	Behavior of Bi ₂ S ₃ under ultrasound irradiation for Rhodamine B dye degradation. <i>Chemical Physics Letters</i> , 2021, 785, 139123.	1.2	5
33	Protective Face Masks: Current Status and Future Trends. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 56725-56751.	4.0	76
34	Towards a white-emitting phosphor Ca ₁₀ V ₆ O ₂₅ based material. <i>Journal of Luminescence</i> , 2020, 220, 116990.	1.5	5
35	Structure, electronic properties, morphology evolution, and photocatalytic activity in PbMoO ₄ and Pb _{1-2x} Ca _x Sr _x MoO ₄ (<i>x</i> = 0.1, 0.2, 0.3, 0.4 and 0.5) solid solutions. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 25876-25891.	1.3	12
36	Toward Expanding the Optical Response of Ag ₂ CrO ₄ and Bi ₂ O ₃ by Their Laser-Mediated Heterojunction. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26404-26414.	1.5	2

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37	Structure, optical properties, and photocatalytic activity of $\hat{I}\pm\text{-Ag}_2\text{W}_0.75\text{Mo}_0.25\text{O}_4$. <i>Materials Research Bulletin</i> , 2020, 132, 111011.	2.7	8
38	Deciphering the Curly Arrow Representation and Electron Flow for the 1,3-Dipolar Rearrangement between Acetonitrile Oxide and (1 <i>S</i> ,2 <i>R</i> ,4 <i>S</i>)-2-Cyano-7-oxabicyclo[2.2.1]hept-5-en-2-yl Acetate Derivatives. <i>ACS Omega</i> , 2020, 5, 22215-22225.	1.6	10
39	Rational Design of W-Doped Ag_3PO_4 as an Efficient Antibacterial Agent and Photocatalyst for Organic Pollutant Degradation. <i>ACS Omega</i> , 2020, 5, 23808-23821.	1.6	14
40	Unraveling the relationship between exposed surfaces and the photocatalytic activity of Ag_3PO_4 : an in-depth theoretical investigation. <i>RSC Advances</i> , 2020, 10, 30640-30649.	1.7	12
41	Microwave-Driven Hexagonal-to-Monoclinic Transition in BiPO_4 : An In-Depth Experimental Investigation and First-Principles Study. <i>Inorganic Chemistry</i> , 2020, 59, 7453-7468.	1.9	24
42	Surface-dependent properties of $\hat{I}\pm\text{-Ag}_2\text{WO}_4$: a joint experimental and theoretical investigation. <i>Theoretical Chemistry Accounts</i> , 2020, 139, 1.	0.5	19
43	Zinc-substituted Ag_2CrO_4 : A material with enhanced photocatalytic and biological activity. <i>Journal of Alloys and Compounds</i> , 2020, 835, 155315.	2.8	16
44	Electron beam irradiation for the formation of thick Ag film on Ag_3PO_4 . <i>RSC Advances</i> , 2020, 10, 21745-21753.	1.7	9
45	Metallic behavior in STO/LAO heterostructures with non-uniformly atomic interfaces. <i>Materials Today Communications</i> , 2020, 24, 101339.	0.9	1
46	Femtosecond-laser-irradiation-induced structural organization and crystallinity of Bi_2WO_6 . <i>Scientific Reports</i> , 2020, 10, 4613.	1.6	9
47	A description of the formation and growth processes of CaTiO_3 mesocrystals: a joint experimental and theoretical approach. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 1255-1266.	1.7	5
48	The role of counter-ions in crystal morphology, surface structure and photocatalytic activity of ZnO crystals grown onto a substrate. <i>Applied Surface Science</i> , 2020, 529, 147057.	3.1	15
49	Unveiling the role of $\hat{I}^2\text{-Ag}_2\text{MoO}_4$ microcrystals to the improvement of antibacterial activity. <i>Materials Science and Engineering C</i> , 2020, 111, 110765.	3.8	44
50	Connecting the surface structure, morphology and photocatalytic activity of Ag_2O : An in depth and unified theoretical investigation. <i>Applied Surface Science</i> , 2020, 509, 145321.	3.1	51
51	Ag Nanoparticles/ AgX (X=Cl, Br and I) Composites with Enhanced Photocatalytic Activity and Low Toxicological Effects. <i>ChemistrySelect</i> , 2020, 5, 4655-4673.	0.7	29
52	Unconventional Magnetization Generated from Electron Beam and Femtosecond Irradiation on $\hat{I}\pm\text{-Ag}_2\text{WO}_4$: A Quantum Chemical Investigation. <i>ACS Omega</i> , 2020, 5, 10052-10067.	1.6	20
53	Geometry, electronic structure, morphology, and photoluminescence emissions of $\text{BaW}_{1-x}\text{Mo}_x\text{O}_4$ ($x \in 0, 0.25, 0.50, 0.75, \text{ and } 1$) solid solutions: Theory and experiment in concert. <i>Applied Surface Science</i> , 2019, 463, 907-917.	3.1	24
54	Computational procedure to an accurate DFT simulation to solid state systems. <i>Computational Materials Science</i> , 2019, 170, 109176.	1.4	17

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55	Joint Theoretical and Experimental Study on the La Doping Process in In ₂ O ₃ : Phase Transition and Electrocatalytic Activity. <i>Inorganic Chemistry</i> , 2019, 58, 11738-11750.	1.9	22
56	On the catalytic transfer hydrogenation of nitroarenes by a cubane-type Mo ₃ S ₄ cluster hydride: disentangling the nature of the reaction mechanism. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 17221-17231.	1.3	6
57	Ag Nanoparticles/β-Ag ₂ WO ₄ Composite Formed by Electron Beam and Femtosecond Irradiation as Potent Antifungal and Antitumor Agents. <i>Scientific Reports</i> , 2019, 9, 9927.	1.6	40
58	Evidence for the formation of metallic In after laser irradiation of InP. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	4
59	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
60	Nine questions on energy decomposition analysis. <i>Journal of Computational Chemistry</i> , 2019, 40, 2248-2283.	1.5	113
61	Unveiling the efficiency of microwave-assisted hydrothermal treatment for the preparation of SrTiO ₃ mesocrystals. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 22031-22038.	1.3	11
62	In Situ Growth of Bi Nanoparticles on NaBiO ₃ , β, and β ² -Bi ₂ O ₃ Surfaces: Electron Irradiation and Theoretical Insights. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5023-5030.	1.5	14
63	How effectively bonding evolution theory retrieves and visualizes curly arrows: The cycloaddition reaction of cyclic nitrones. <i>International Journal of Quantum Chemistry</i> , 2019, 119, e25985.	1.0	18
64	β-AgVO ₃ Decorated by Hydroxyapatite (Ca ₁₀ (PO ₄) ₆ (OH) ₂): Tuning Its Photoluminescence Emissions and Bactericidal Activity. <i>Inorganic Chemistry</i> , 2019, 58, 5900-5913.	1.9	22
65	Proof of Concept Studies Directed toward the Formation of Metallic Ag Nanostructures from Ag ₃ PO ₄ Induced by Electron Beam and Femtosecond Laser. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1800533.	1.2	10
66	Connecting Theory with Experiment to Understand the Sintering Processes of Ag Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11310-11318.	1.5	16
67	Laser and electron beam-induced formation of Ag/Cr structures on Ag ₂ CrO ₄ . <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 6101-6111.	1.3	20
68	Designing biocompatible and multicolor fluorescent hydroxyapatite nanoparticles for cell-imaging applications. <i>Materials Today Chemistry</i> , 2019, 14, 100211.	1.7	14
69	Palladium doping of In ₂ O ₃ towards a general and selective catalytic hydrogenation of amides to amines and alcohols. <i>Catalysis Science and Technology</i> , 2019, 9, 6965-6976.	2.1	19
70	First principle investigation of the exposed surfaces and morphology of β ² -ZnMoO ₄ . <i>Journal of Applied Physics</i> , 2019, 126, 235301.	1.1	14
71	Polymorphs of ZnV ₂ O ₆ under Pressure: A First-Principle Investigation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3239-3253.	1.5	16
72	Tailoring the Bactericidal Activity of Ag Nanoparticles/β-Ag ₂ WO ₄ Composite Induced by Electron Beam and Femtosecond Laser Irradiation: Integration of Experiment and Computational Modeling. <i>ACS Applied Bio Materials</i> , 2019, 2, 824-837.	2.3	30

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73	Towards enhancing the magnetic properties by morphology control of ATiO ₃ (A ²⁺ =Mn, Fe, Ni) multiferroic materials. Journal of Magnetism and Magnetic Materials, 2019, 475, 544-549.	1.0	29
74	Structure, morphology and photoluminescence emissions of ZnMoO ₄ : RE ³⁺ =Tb ³⁺ - Tm ³⁺ - X Eu ³⁺ (x= 1,) Tj ETQq0 0 0 rgBT /Overloc Compounds, 2018, 750, 55-70.	2.8	34
75	Laser-induced formation of bismuth nanoparticles. Physical Chemistry Chemical Physics, 2018, 20, 13693-13696.	1.3	17
76	Towards the scale-up of the formation of nanoparticles on $\hat{1}\pm$ -Ag ₂ WO ₄ with bactericidal properties by femtosecond laser irradiation. Scientific Reports, 2018, 8, 1884.	1.6	42
77	Can Supported Reduced Vanadium Oxides form H ₂ from CH ₃ OH? A Computational Gas-Phase Mechanistic Study. Journal of Physical Chemistry A, 2018, 122, 1104-1113.	1.1	7
78	ZnWO ₄ nanocrystals: synthesis, morphology, photoluminescence and photocatalytic properties. Physical Chemistry Chemical Physics, 2018, 20, 1923-1937.	1.3	103
79	$\hat{1}\pm$ - and $\hat{1}^2$ -AgVO ₃ polymorphs as photoluminescent materials: An example of temperature-driven synthesis. Ceramics International, 2018, 44, 5939-5944.	2.3	21
80	Binding free energy calculations to rationalize the interactions of huprines with acetylcholinesterase. Journal of Computer-Aided Molecular Design, 2018, 32, 607-622.	1.3	2
81	Improving the ozone gas-sensing properties of CuWO ₄ nanoparticles. Journal of Alloys and Compounds, 2018, 748, 411-417.	2.8	44
82	Surfactant-Mediated Morphology and Photocatalytic Activity of $\hat{1}\pm$ -Ag ₂ WO ₄ Material. Journal of Physical Chemistry C, 2018, 122, 8667-8679.	1.5	60
83	Structural properties and self-activated photoluminescence emissions in hydroxyapatite with distinct particle shapes. Ceramics International, 2018, 44, 236-245.	2.3	36
84	Experimental and theoretical study to explain the morphology of CaMoO ₄ crystals. Journal of Physics and Chemistry of Solids, 2018, 114, 141-152.	1.9	42
85	Formation of Ag nanoparticles under electron beam irradiation: Atomistic origins from first-principles calculations. International Journal of Quantum Chemistry, 2018, 118, e25551.	1.0	21
86	A bonding evolution analysis for the thermal Claisen rearrangement: an experimental and theoretical exercise for testing the electron density flow. Physical Chemistry Chemical Physics, 2018, 20, 535-541.	1.3	13
87	Theoretical approach for determining the relation between the morphology and surface magnetism of Co ₃ O ₄ . Journal of Magnetism and Magnetic Materials, 2018, 453, 262-267.	1.0	42
88	Computational Chemistry Meets Experiments for Explaining the Geometry, Electronic Structure, and Optical Properties of Ca ₁₀ V ₆ O ₂₅ . Inorganic Chemistry, 2018, 57, 15489-15499.	1.9	18
89	Direct preparation of standard functional interfaces in oxide heterostructures for 2DEG analysis through beam-induced platinum contacts. Applied Physics Letters, 2018, 113, .	1.5	2
90	In situ Formation of Metal Nanoparticles through Electron Beam Irradiation: Modeling Real Materials from First-Principles Calculations. Journal of Material Science & Engineering, 2018, 07, .	0.2	8

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91	Laser/Electron Irradiation on Indium Phosphide (InP) Semiconductor: Promising Pathways to In Situ Formation of Indium Nanoparticles. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1800237.	1.2	12
92	A DFT investigation of the role of oxygen vacancies on the structural, electronic and magnetic properties of ATiO_3 (A = Mn, Fe, Ni) multiferroic materials. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 28382-28392.	1.3	26
93	Cuboidal Mo_3S_4 Clusters as a Platform for Exploring Catalysis: A Three-Center Sulfur Mechanism for Alkyne Semihydrogenation. <i>ACS Catalysis</i> , 2018, 8, 7346-7350.	5.5	12
94	Connecting structural, optical, and electronic properties and photocatalytic activity of $\text{Ag}_3\text{PO}_4\text{:Mo}$ complemented by DFT calculations. <i>Applied Catalysis B: Environmental</i> , 2018, 238, 198-211.	10.8	53
95	Magnetism and multiferroic properties at MnTiO_3 surfaces: A DFT study. <i>Applied Surface Science</i> , 2018, 452, 463-472.	3.1	45
96	Chemical Bond Formation and Rupture Processes: An Application of DFT's Chemical Pressure Approach. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21216-21225.	1.5	9
97	From Complex Inorganic Oxides to Ag^{Bi} Nanoalloy: Synthesis by Femtosecond Laser Irradiation. <i>ACS Omega</i> , 2018, 3, 9880-9887.	1.6	19
98	Experimental and theoretical study of the energetic, morphological, and photoluminescence properties of $\text{CaZrO}_3\text{:Eu}^{3+}$. <i>CrystEngComm</i> , 2018, 20, 5519-5530.	1.3	22
99	Computational Modeling for the Ag Nanoparticle Coalescence Process: A Case of Surface Plasmon Resonance. <i>Journal of Physical Chemistry C</i> , 2017, 121, 7030-7036.	1.5	16
100	Synthesis and evaluation of Ag_2WO_4 as novel antifungal agent. <i>Chemical Physics Letters</i> , 2017, 674, 125-129.	1.2	30
101	Synthesis of Cuboctahedral CeO_2 Nanoclusters and Their Assembly into Cuboid Nanoparticles by Oriented Attachment. <i>ChemNanoMat</i> , 2017, 3, 228-232.	1.5	10
102	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
103	Binding Analysis of Some Classical Acetylcholinesterase Inhibitors: Insights for a Rational Design Using Free Energy Perturbation Method Calculations with QM/MM MD Simulations. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 958-976.	2.5	28
104	Electronic structure and rearrangements of anionic $[\text{ClMg}(\text{O}_2\text{C})]^-$ and $[\text{ClMg}(\text{O}_2\text{C})]^-$ complexes: a quantum chemical topology study. <i>Theoretical Chemistry Accounts</i> , 2017, 136, 1.	0.5	8
105	On the outside looking in: rethinking the molecular mechanism of 1,3-dipolar cycloadditions from the perspective of bonding evolution theory. The reaction between cyclic nitrones and ethyl acrylate. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 18288-18302.	1.3	31
106	Ag_2ZnWO_4 (0.25) Solid Solutions: Structure, Morphology, and Optical Properties. <i>Inorganic Chemistry</i> , 2017, 56, 7360-7372.	1.9	36
107	Mechanism of Antibacterial Activity via Morphology Change of AgVO_3 : Theoretical and Experimental Insights. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11472-11481.	4.0	53
108	An experimental and theoretical investigation on the optical and photocatalytic properties of ZnS nanoparticles. <i>Journal of Physics and Chemistry of Solids</i> , 2017, 103, 179-189.	1.9	46

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109	A novel approach to obtain highly intense self-activated photoluminescence emissions in hydroxyapatite nanoparticles. <i>Journal of Solid State Chemistry</i> , 2017, 249, 64-69.	1.4	24
110	Curly arrows, electron flow, and reaction mechanisms from the perspective of the bonding evolution theory. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29031-29046.	1.3	36
111	Tuning the Morphological, Optical, and Antimicrobial Properties of Ag_2WO_4 Microcrystals Using Different Solvents. <i>Crystal Growth and Design</i> , 2017, 17, 6239-6246.	1.4	35
112	First-Principles Study on Polymorphs of AgVO_3 : Assessing to Structural Stabilities and Pressure-Induced Transitions. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27624-27642.	1.5	22
113	Bridging Structure and Real-Space Topology: Understanding Complex Molecules and Solid-State Materials. , 2017, , 427-454.		2
114	Mechanism of photoluminescence in intrinsically disordered CaZrO_3 crystals: First principles modeling of the excited electronic states. <i>Journal of Alloys and Compounds</i> , 2017, 722, 981-995.	2.8	16
115	Uncovering the metastable Ag_2WO_4 phase: a joint experimental and theoretical study. <i>RSC Advances</i> , 2017, 7, 5610-5620.	1.7	22
116	Photoluminescent properties of ZrO_2 : Tm^{3+} , Tb^{3+} , Eu^{3+} powders – A combined experimental and theoretical study. <i>Journal of Alloys and Compounds</i> , 2017, 695, 3094-3103.	2.8	50
117	Disclosing the electronic structure and optical properties of $\text{Ag}_4\text{V}_2\text{O}_7$ crystals: experimental and theoretical insights. <i>CrystEngComm</i> , 2016, 18, 6483-6491.	1.3	15
118	Effects of chemical substitution on the structural and optical properties of $\text{Ag}_2\text{Ni}_x\text{WO}_4$ ($0 \leq x \leq 0.08$) solid solutions. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 21966-21975.	1.3	24
119	An Experimental and Computational Study of AgVO_3 : Optical Properties and Formation of Ag Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12254-12264.	1.5	48
120	<i>In situ</i> growth of Ag nanoparticles on Ag_2WO_4 under electron irradiation: probing the physical principles. <i>Nanotechnology</i> , 2016, 27, 225703.	1.3	30
121	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
122	Understanding the formation and growth of Ag nanoparticles on silver chromate induced by electron irradiation in electron microscope: A combined experimental and theoretical study. <i>Journal of Solid State Chemistry</i> , 2016, 239, 220-227.	1.4	27
123	Synthesis and morphological transformation of BaWO_4 crystals: Experimental and theoretical insights. <i>Ceramics International</i> , 2016, 42, 10913-10921.	2.3	45
124	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
125	On the morphology of BaMoO_4 crystals: A theoretical and experimental approach. <i>Crystal Research and Technology</i> , 2016, 51, 634-644.	0.6	24
126	Modeling the atomic-scale structure, stability, and morphological transformations in the tetragonal phase of LaVO_4 . <i>Chemical Physics Letters</i> , 2016, 660, 87-92.	1.2	34

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127	Theoretical and Experimental Insight on Ag ₂ CrO ₄ Microcrystals: Synthesis, Characterization, and Photoluminescence Properties. <i>Inorganic Chemistry</i> , 2016, 55, 8961-8970.	1.9	31
128	Formation of Ag Nanoparticles on \hat{I}^2 -Ag ₂ WO ₄ through Electron Beam Irradiation: A Synergetic Computational and Experimental Study. <i>Inorganic Chemistry</i> , 2016, 55, 8661-8671.	1.9	38
129	In situ Transmission Electron Microscopy observation of Ag nanocrystal evolution by surfactant free electron-driven synthesis. <i>Scientific Reports</i> , 2016, 6, 21498.	1.6	41
130	Photoluminescence and Photocatalytic Properties of Ag ₃ PO ₄ Microcrystals: An Experimental and Theoretical Investigation. <i>ChemPlusChem</i> , 2016, 81, 202-212.	1.3	70
131	Synthesis, antifungal evaluation and optical properties of silver molybdate microcrystals in different solvents: a combined experimental and theoretical study. <i>Dalton Transactions</i> , 2016, 45, 10736-10743.	1.6	49
132	A numerical simulation of woven/anionic polyamide 6 composite part manufacturing using structural reactive injection moulding process. <i>Journal of Thermoplastic Composite Materials</i> , 2016, 29, 219-233.	2.6	5
133	Formation of Ag nanoparticles on metastable \hat{I}^2 -Ag ₂ WO ₄ microcrystals induced by electron irradiation. <i>Chemical Physics Letters</i> , 2016, 644, 68-72.	1.2	31
134	A 3D platform for the morphology modulation of materials: first principles calculations on the thermodynamic stability and surface structure of metal oxides: Co ₃ O ₄ , \hat{I}^\pm -Fe ₂ O ₃ , and In ₂ O ₃ . <i>Modelling and Simulation in Materials Science and Engineering</i> , 2016, 24, 025007.	0.8	53
135	Synthesis and characterization of metastable \hat{I}^2 -Ag ₂ WO ₄ : an experimental and theoretical approach. <i>Dalton Transactions</i> , 2016, 45, 1185-1191.	1.6	24
136	Quantum Chemical Topology Approach for Dissecting Chemical Structure and Reactivity. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2016, , 257-294.	0.6	2
137	Chemical Bonding under Pressure. , 2015, , 131-157.		0
138	A Combined Experimental and Theoretical Study on the Formation of Ag Filaments on \hat{I}^2 -Ag ₂ MoO ₄ Induced by Electron Irradiation. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 646-651.	1.2	47
139	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
140	Facet-dependent photocatalytic and antibacterial properties of \hat{I}^\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
141	Elucidating the real-time Ag nanoparticle growth on \hat{I}^\pm -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
142	Identifying and rationalizing the morphological, structural, and optical properties of \hat{I}^2 -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
143	Inquiry of the electron density transfers in chemical reactions: a complete reaction path for the denitrogenation process of 2,3-diazabicyclo[2.2.1]hept-2-ene derivatives. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 32358-32374.	1.3	10
144	Structural and optical properties of ZnS/MgNb ₂ O ₆ heterostructures. <i>Superlattices and Microstructures</i> , 2015, 79, 180-192.	1.4	6

#	ARTICLE	IF	CITATIONS
145	A relationship between structural and electronic order-disorder effects and optical properties in crystalline TiO ₂ nanomaterials. Dalton Transactions, 2015, 44, 3159-3175.	1.6	96
146	A joint experimental and theoretical study on the electronic structure and photoluminescence properties of Al ₂ (WO ₄) ₃ powders. Journal of Molecular Structure, 2015, 1081, 381-388.	1.8	22
147	Joint Use of Bonding Evolution Theory and QM/MM Hybrid Method for Understanding the Hydrogen Abstraction Mechanism via Cytochrome P450 Aromatase. Journal of Chemical Theory and Computation, 2015, 11, 1470-1480.	2.3	17
148	Experimental and Theoretical Study on the Structure, Optical Properties, and Growth of Metallic Silver Nanostructures in Ag ₃ PO ₄ . Journal of Physical Chemistry C, 2015, 119, 6293-6306.	1.5	120
149	Fingerprints of short-range and long-range structure in BaZr _{1-x} Hf _x O ₃ solid solutions: an experimental and theoretical study. Physical Chemistry Chemical Physics, 2015, 17, 11341-11349.	1.3	10
150	Quantum chemical topological analysis of hydrogen bonding in HX-HX and CH ₃ -X-HX dimers (X = Br, Cl, F). Molecular Simulation, 2015, 41, 600-609.	0.9	8
151	Chemical structure and reactivity by means of quantum chemical topology analysis. Computational and Theoretical Chemistry, 2015, 1053, 17-30.	1.1	62
152	Silver Molybdate and Silver Tungstate Nanocomposites with Enhanced Photoluminescence. Nanomaterials and Nanotechnology, 2014, 4, 22.	1.2	83
153	Unraveling reaction mechanisms by means of Quantum Chemical Topology Analysis. International Journal of Quantum Chemistry, 2014, 114, 1239-1252.	1.0	84
154	A novel ozone gas sensor based on one-dimensional (1D) Ag ₂ WO ₄ nanostructures. Nanoscale, 2014, 6, 4058-4062.	2.8	105
155	Potentiated Electron Transference in Ag ₂ WO ₄ Microcrystals with Ag Nanofilaments as Microbial Agent. Journal of Physical Chemistry A, 2014, 118, 5769-5778.	1.1	99
156	Structural, electronic and optical properties of Fe(III) complex with pyridine-2,6-dicarboxylic acid: A combined experimental and theoretical study. Inorganica Chimica Acta, 2014, 416, 200-206.	1.2	17
157	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. Journal of Physical Chemistry A, 2014, 118, 1663-1672.	1.1	61
158	Correlation between structural and electronic order-disorder effects and optical properties in ZnO nanocrystals. Journal of Materials Chemistry C, 2014, 2, 10164-10174.	2.7	31
159	Prediction of dopant atom distribution on nanocrystals using thermodynamic arguments. Physical Chemistry Chemical Physics, 2014, 16, 1089-1094.	1.3	9
160	Oxygen Atom Transfer Reactions from Mimoun Complexes to Sulfides and Sulfoxides. A Bonding Evolution Theory Analysis. Journal of Physical Chemistry A, 2014, 118, 6092-6103.	1.1	12
161	First-Principles Study of Pressure-Induced Phase Transitions and Electronic Properties of Ag ₂ MoO ₄ . Journal of Physical Chemistry C, 2014, 118, 3724-3732.	1.5	56
162	Zinc blende versus wurtzite ZnS nanoparticles: control of the phase and optical properties by tetrabutylammonium hydroxide. Physical Chemistry Chemical Physics, 2014, 16, 20127-20137.	1.3	100

#	ARTICLE	IF	CITATIONS
163	A <i>DFT</i> Study of Structural and Electronic Properties of <i>ZnS</i> Polymorphs and its Pressure-Induced Phase Transitions. <i>Journal of the American Ceramic Society</i> , 2014, 97, 4011-4018.	1.9	43
164	Toward an Understanding of the Growth of Ag Filaments on Ag_2WO_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
165	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
166	Flexural behavior and water absorption of asymmetrical sandwich composites from natural fibers and cork agglomerate core. <i>Materials Letters</i> , 2014, 127, 48-52.	1.3	41
167	Effect of polyvinyl alcohol on the shape, photoluminescence and photocatalytic properties of PbMoO_4 microcrystals. <i>Materials Science in Semiconductor Processing</i> , 2014, 26, 425-430.	1.9	21
168	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
169	Quantum mechanical modeling of excited electronic states and their relationship to cathodoluminescence of BaZrO_3 . <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	16
170	Microwave-hydrothermal synthesis of single-crystalline Co_3O_4 spinel nanocubes. <i>CrystEngComm</i> , 2013, 15, 7443.	1.3	37
171	A combined theoretical and experimental study of electronic structure and optical properties of ZnMoO_4 microcrystals. <i>Polyhedron</i> , 2013, 54, 13-25.	1.0	83
172	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
173	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
174	Structural refinement, growth mechanism, infrared/Raman spectroscopies and photoluminescence properties of PbMoO_4 crystals. <i>Polyhedron</i> , 2013, 50, 532-545.	1.0	63
175	Experimental and theoretical approach of nanocrystalline TiO_2 with antifungal activity. <i>Chemical Physics Letters</i> , 2013, 577, 114-120.	1.2	14
176	New insight into the electronic structure of iron(IV) oxo porphyrin compound I. A quantum chemical topological analysis. <i>Journal of Computational Chemistry</i> , 2013, 34, 780-789.	1.5	3
177	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
178	Toward an Understanding of the Hydrogenation Reaction of MO_2 Gas-Phase Clusters ($M = \text{Tj, ET, Qq, O, O, rg, BT, O, verlock, 10}$)	1.1	12
179	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
180	Manufacture of Green-Composite Sandwich Structures with Basalt Fiber and Bioepoxy Resin. <i>Advances in Materials Science and Engineering</i> , 2013, 2013, 1-9.	1.0	30

#	ARTICLE	IF	CITATIONS
181	Towards an Understanding on the Role of Precursor in the Synthesis of ZnS Nanostructures. Current Physical Chemistry, 2013, 3, 378-385.	0.1	3
182	Photoluminescence Properties of Nanocrystals. Journal of Nanomaterials, 2012, 2012, 1-2.	1.5	4
183	Relationship between Crystal Shape, Photoluminescence, and Local Structure in SrTiO_3 Nanocrystals by Microwave-Assisted Hydrothermal Method. Journal of Nanomaterials, 2012, 2012, 1-6.	1.5	28
184	Structural and Electronic Effects of Incorporating Mn in TiO_2 Films Grown by Sputtering: Anatase versus Rutile. Journal of Physical Chemistry C, 2012, 116, 8753-8762.	1.5	28
185	Structural and Electronic Properties of Lithiated SnO_2 . A Periodic DFT Study. Journal of Physical Chemistry C, 2012, 116, 16127-16137.	1.5	19
186	Quantum Mechanics Insight into the Microwave Nucleation of SrTiO_3 Nanospheres. Journal of Physical Chemistry C, 2012, 116, 24792-24808.	1.5	62
187	How a Quantum Chemical Topology Analysis Enables Prediction of Electron Density Transfers in Chemical Reactions. The Degenerated Cope Rearrangement of Semibullvalene. Journal of Physical Chemistry Letters, 2012, 3, 2500-2505.	2.1	32
188	Electronic fluxes during diels-aldler reactions involving 1,2-benzoquinones: mechanistic insights from the analysis of electron localization function and catastrophe theory. Journal of Computational Chemistry, 2012, 33, 2400-2411.	1.5	26
189	CaSO_4 and Its Pressure-Induced Phase Transitions. A Density Functional Theory Study. Inorganic Chemistry, 2012, 51, 1751-1759.	1.9	38
190	Electronic structure and magnetic properties of FeWO_4 nanocrystals synthesized by the microwave-hydrothermal method. Materials Characterization, 2012, 73, 124-129.	1.9	26
191	Novel $\text{SrTi}_{1-x}\text{Fe}_x\text{O}_3$ nanocubes synthesized by microwave-assisted hydrothermal method. CrystEngComm, 2012, 14, 4068.	1.3	21
192	Synthesis, optical and ferroelectric properties of PZT thin films: experimental and theoretical investigation. Journal of Materials Chemistry, 2012, 22, 6587.	6.7	22
193	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. Journal of Computational Chemistry, 2012, 33, 748-756.	1.5	44
194	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
195	On the reversed crystal growth of BaZrO_3 decaoctahedron: shape evolution and mechanism. CrystEngComm, 2011, 13, 5818.	1.3	47
196	Hybrid Schemes Based on Quantum Mechanics/Molecular Mechanics Simulations. Advances in Protein Chemistry and Structural Biology, 2011, 85, 81-142.	1.0	19
197	Hierarchical Assembly of CaMoO_4 Nano-Octahedrons and Their Photoluminescence Properties. Journal of Physical Chemistry C, 2011, 115, 5207-5219.	1.5	130
198	Presence of excited electronic state in CaWO_4 crystals provoked by a tetrahedral distortion: An experimental and theoretical investigation. Journal of Applied Physics, 2011, 110, .	1.1	84

#	ARTICLE	IF	CITATIONS
199	A Theoretical Study on the Pressure-Induced Phase Transitions in the Inverse Spinel Structure Zn_2SnO_4 . <i>Journal of Physical Chemistry C</i> , 2011, 115, 7740-7746.	1.5	35
200	Effect of Coverage and Defects on the Adsorption of Propanethiol on Au(111) Surface: A Theoretical Study. <i>Langmuir</i> , 2011, 27, 14514-14521.	1.6	29
201	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
202	Anomalous oriented attachment growth behavior on SnO_2 nanocrystals. <i>Chemical Communications</i> , 2011, 47, 3117.	2.2	35
203	A DFT Study of the Reactivity Indexes of Ionic [4 + 2+] Diels-Alder Cycloaddition to Nitrilium and Immonium Ions. <i>Letters in Organic Chemistry</i> , 2011, 8, 104-107.	0.2	6
204	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
205	A Thermodynamic Approach to Predict Dopant Atoms Segregation on Nanocrystals. <i>Microscopy and Microanalysis</i> , 2011, 17, 1458-1459.	0.2	0
206	Radioluminescence properties of decaoctahedral $BaZrO_3$. <i>Scripta Materialia</i> , 2011, 64, 118-121.	2.6	34
207	An improved method for preparation of $SrTiO_3$ nanoparticles. <i>Materials Chemistry and Physics</i> , 2011, 125, 168-173.	2.0	69
208	A joint computational and experimental study of a novel dioxomolybdenum(VI) complex bearing chiral N,N-dimethyl lactamide ligand. <i>Inorganica Chimica Acta</i> , 2011, 375, 41-46.	1.2	7
209	Insight into Copper-Based Catalysts: Microwave-Assisted Morphosynthesis, In-Situ Reduction Studies, and Dehydrogenation of Ethanol. <i>ChemCatChem</i> , 2011, 3, 839-843.	1.8	25
210	N, P, and As Ylides and Aza- and Arsa-Wittig Reactions from Topological Analyses of Electron Density. <i>Journal of Physical Chemistry A</i> , 2011, 115, 8316-8326.	1.1	12
211	Olefin Epoxidation by Molybdenum Peroxo Compound: Molecular Mechanism Characterized by the Electron Localization Function and Catastrophe Theory. <i>Journal of Physical Chemistry A</i> , 2011, 115, 514-522.	1.1	23
212	Photoluminescent Properties of Nanorods and Nanoplates $Y_2O_3:Eu^{3+}$. <i>Journal of Fluorescence</i> , 2011, 21, 1431-1438.	1.3	18
213	Molecular mechanism of chorismate mutase activity of promiscuous MbtI. <i>Theoretical Chemistry Accounts</i> , 2011, 128, 601-607.	0.5	8
214	Dopant Segregation Analysis on $Sb:SnO_2$ Nanocrystals. <i>Chemistry - A European Journal</i> , 2011, 17, 11515-11519.	1.7	19
215	A theoretical study on the photoluminescence of $SrTiO_3$. <i>Chemical Physics Letters</i> , 2010, 493, 141-146.	1.2	45
216	Theoretical QM/MM studies of enzymatic pericyclic reactions. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2010, 2, 115-131.	2.2	8

#	ARTICLE	IF	CITATIONS
217	Density functional theory study of the oxidation of methanol to formaldehyde on a hydrated vanadia cluster. <i>Journal of Computational Chemistry</i> , 2010, 31, 2493-2501.	1.5	12
218	Electronic structure and optical properties of BaMoO ₄ powders. <i>Current Applied Physics</i> , 2010, 10, 614-624.	1.1	150
219	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
220	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
221	An efficient microwave-assisted hydrothermal synthesis of BaZrO ₃ microcrystals: growth mechanism and photoluminescence emissions. <i>CrystEngComm</i> , 2010, 12, 3612.	1.3	72
222	Unraveling the Mechanisms of the Selective Oxidation of Methanol to Formaldehyde in Vanadia Supported on Titania Catalyst. <i>Journal of Physical Chemistry C</i> , 2010, 114, 6039-6046.	1.5	19
223	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
224	Photoluminescent behavior of SrZrO ₃ /SrTiO ₃ multilayer thin films. <i>Chemical Physics Letters</i> , 2009, 473, 293-298.	1.2	30
225	Photoluminescence in quasi-amorphous Pb _{0.8} X _{0.2} Zr _{0.5} Ti _{0.47} O ₃ (X=Ca, Sr and Ba) powders: An optical and structural study. <i>Chemical Physics Letters</i> , 2009, 475, 96-100.	1.2	7
226	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
227	Mechanism and Plasticity of Isochorismate Pyruvate Lyase: A Computational Study. <i>Journal of the American Chemical Society</i> , 2009, 131, 16156-16161.	6.6	28
228	Toward Understanding the Photochemistry of Photoactive Yellow Protein: A CASPT2/CASSCF and Quantum Theory of Atoms in Molecules Combined Study of a Model Chromophore in Vacuo. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 3032-3038.	2.3	30
229	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
230	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
231	A theoretical study on the thermal ring opening rearrangement of 1H-bicyclo[3.1.0]hexa-3,5-dien-2-one: a case of two state reactivity. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 7189.	1.3	11
232	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
233	A theoretical study on the mechanism of the base-promoted decomposition of N-chloro,N-methylethanolamine. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 1807.	1.5	6
234	An electron localization function and catastrophe theory analysis on the molecular mechanism of gas-phase identity S _N 2 reactions. <i>Theoretical Chemistry Accounts</i> , 2008, 120, 341-349.	0.5	41

#	ARTICLE	IF	CITATIONS
235	Combined ¹³ C NMR and DFT/GIAO studies of the polyketides Aurasperone A and Fonsecinone A. International Journal of Quantum Chemistry, 2008, 108, 2408-2416.	1.0	3
236	Theoretical Study of Catalytic Efficiency of a Diels-Alderase Catalytic Antibody: An Indirect Effect Produced During the Maturation Process. Chemistry - A European Journal, 2008, 14, 596-602.	1.7	9
237	Two state reactivity mechanism for the rearrangement of hydrogen peroxynitrite to nitric acid. Chemical Physics Letters, 2008, 457, 216-221.	1.2	14
238	Proton transport catalysis in intramolecular rearrangements: A density functional theory study. Chemical Physics Letters, 2008, 464, 271-275.	1.2	4
239	A DFT study of methanol dissociation on isolated vanadate groups. Catalysis Today, 2008, 139, 214-220.	2.2	17
240	A Quantum Mechanic/Molecular Mechanic Study of the Wild-Type and N155S Mutant HIV-1 Integrase Complexed with Diketo Acid. Biophysical Journal, 2008, 94, 2443-2451.	0.2	23
241	Towards understanding of magnetic interactions within a series of tetrathiafulvalene-ferrocene conjugated-verdazyl diradical cation system: a density functional theory study. Physical Chemistry Chemical Physics, 2008, 10, 857-864.	1.3	60
242	Computational design of biological catalysts. Chemical Society Reviews, 2008, 37, 2634.	18.7	41
243	Density Functional Theory Study on the Structural and Electronic Properties of Low Index Rutile Surfaces for TiO ₂ /SnO ₂ /TiO ₂ and SnO ₂ /TiO ₂ /SnO ₂ Composite Systems. Journal of Physical Chemistry A, 2008, 112, 8943-8952.	1.1	65
244	Understanding Reaction Mechanisms in Organic Chemistry from Catastrophe Theory Applied to the Electron Localization Function Topology. Journal of Physical Chemistry A, 2008, 112, 7128-7136.	1.1	165
245	Strain behavior of lanthanum modified BiFeO ₃ thin films prepared via soft chemical method. Journal of Applied Physics, 2008, 104, 104115.	1.1	37
246	Intercalation processes and diffusion paths of lithium ions in spinel-type structured $\text{Li}_2\text{Ti}_2\text{O}_7$. Density functional theory. Physical Review B, 2008, 77, .	1.1	25
247	Toward an Understanding of Intermediate- and Short-Range Defects in ZnO Single Crystals. A Combined Experimental and Theoretical Study. Journal of Physical Chemistry A, 2008, 112, 8970-8978.	1.1	64
248	Theoretical Study on the Reaction Mechanism of VO ₂ ⁺ with Propyne in Gas Phase. Journal of Physical Chemistry A, 2008, 112, 1808-1816.	1.1	16
249	Synthesis and Molecular and Electronic Structures of a Series of Mo ₃ CoSe ₄ Cluster Complexes with Three Different Metal Electron Populations. Inorganic Chemistry, 2008, 47, 3661-3668.	1.9	9
250	Origin of the Absorption Maxima of the Photoactive Yellow Protein Resolved via Ab Initio Multiconfigurational Methods. Journal of Physical Chemistry B, 2008, 112, 7153-7156.	1.2	31
251	Predicting an Improvement of Secondary Catalytic Activity of Promiscuous Isochorismate Pyruvate Lyase by Computational Design. Journal of the American Chemical Society, 2008, 130, 2894-2895.	6.6	25
252	Contribution of structural order-disorder to the green photoluminescence of PbWO ₄ . Physical Review B, 2007, 75, .	1.1	48

#	ARTICLE	IF	CITATIONS
253	Nucleophilicity Index from Perturbed Electrostatic Potentials. <i>Journal of Physical Chemistry A</i> , 2007, 111, 2442-2447.	1.1	59
254	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
255	A Theoretical Study on the Electronic Structure of Au ⁺ XO(0,-1,+1) ⁻ (X = C, N, and O) Complexes: A Effect of an External Electric Field. <i>Journal of Physical Chemistry A</i> , 2007, 111, 13255-13263.	1.1	27
256	Lewis Acid and Substituent Effects on the Molecular Mechanism for the Nazarov Reaction of Penta-1,4-dien-3-one and Derivatives. A Topological Analysis Based on the Combined Use of Electron Localization Function and Catastrophe Theory. <i>Journal of Chemical Theory and Computation</i> , 2007, 3, 816-823.	2.3	31
257	Combined Theoretical and Experimental Analysis of the Bonding in the Heterobimetallic Cubane-Type Mo ₃ NiS ₄ and Mo ₃ CuS ₄ Core Clusters. <i>Inorganic Chemistry</i> , 2007, 46, 2159-2166.	1.9	22
258	Prediction of Gold Zigzag Nanotube-like Structure Based on Au ₃₂ Units: A Quantum Chemical Study. <i>Journal of Physical Chemistry C</i> , 2007, 111, 10342-10346.	1.5	39
259	A Quantum Mechanics/Molecular Mechanics Study of the Protein-Ligand Interaction for Inhibitors of HIV-1 Integrase. <i>Chemistry - A European Journal</i> , 2007, 13, 7715-7724.	1.7	38
260	Computer-Aided Rational Design of Catalytic Antibodies: The 1F7 Case. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 286-290.	7.2	24
261	New insights on the bridge carbon-carbon bond in propellanes: A theoretical study based on the analysis of the electron localization function. <i>Journal of Computational Chemistry</i> , 2007, 28, 857-864.	1.5	47
262	Nucleofugality index in β -elimination reactions. <i>Chemical Physics Letters</i> , 2007, 439, 177-182.	1.2	25
263	Calculation of binding energy using BLYP/MM for the HIV-1 integrase complexed with the S-1360 and two analogues. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 3818-3824.	1.4	17
264	Understanding the chemical reactivity of phenylhalocarbene systems: an analysis based on the spin-polarized density functional theory. <i>Theoretical Chemistry Accounts</i> , 2007, 118, 325-335.	0.5	16
265	Oxygen adsorption on gold nanofacets and model clusters. <i>Journal of Chemical Physics</i> , 2006, 125, 054703.	1.2	43
266	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
267	Mechanistic Insights into the Reaction between VO ₂ ⁺ and Propene Based on a DFT Study. <i>Organometallics</i> , 2006, 25, 1643-1653.	1.1	28
268	Better Understanding of the Ring-Cleavage Process of Cyanocyclopropyl Anionic Derivatives. A Theoretical Study Based on the Electron Localization Function. <i>Journal of Organic Chemistry</i> , 2006, 71, 754-762.	1.7	24
269	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
270	Stereoselectivity Behavior of the AZ28 Antibody Catalyzed Oxy-Cope Rearrangement. <i>Journal of Physical Chemistry A</i> , 2006, 110, 726-730.	1.1	3

#	ARTICLE	IF	CITATIONS
271	Catalysis in Glycine N-Methyltransferase: Testing the Electrostatic Stabilization and Compression Hypothesis. <i>Biochemistry</i> , 2006, 45, 14917-14925.	1.2	28
272	Molecular oxygen adsorption on electropositive nano gold tips. <i>Chemical Physics Letters</i> , 2006, 421, 433-438.	1.2	36
273	Homofugality: A new reactivity index describing the leaving group ability in homolytic substitution reactions. <i>Chemical Physics Letters</i> , 2006, 424, 437-442.	1.2	15
274	DFT study on the water-assisted mechanism for the reaction between VO ⁺ and NH ₃ to yield VNH ⁺ and H ₂ O. <i>Chemical Physics Letters</i> , 2006, 427, 265-270.	1.2	5
275	Density functional study of the Hoffmann elimination of (N-Cl),N-methylethanolamine in gas phase and in aqueous solution. <i>Chemical Physics Letters</i> , 2006, 429, 425-429.	1.2	4
276	A DFT study of the Diels-Alder reaction between methyl acrolein derivatives and cyclopentadiene. Understanding the effects of Lewis acids catalysts based on sulfur containing boron heterocycles. <i>Tetrahedron</i> , 2006, 62, 5502-5509.	1.0	35
277	GENERALIZED DIABATIC STUDY OF ETHYLENE ISOMERISM. , 2006, , 177-196.		1
278	Lithium insertion and mobility in the TiO ₂ -anatase/titanate structure: A periodic DFT study. <i>Journal of Electroanalytical Chemistry</i> , 2005, 581, 216-223.	1.9	52
279	Effect of electron-withdrawing substituents on the electrophilicity of carbonyl carbons. <i>Tetrahedron</i> , 2005, 61, 417-422.	1.0	33
280	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
281	The nature of the chemical bond in di- and polynuclear metal cluster complexes as depicted by the analysis of the electron localization function. <i>Comptes Rendus Chimie</i> , 2005, 8, 1400-1412.	0.2	36
282	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
283	Why Do Peroxomolybdenum Complexes Chemoselectively Oxidize the Sulfur Centers of Unsaturated Sulfides and Sulfoxides? A DFT Analysis. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 2406-2415.	1.2	20
284	Lewis Acid Mediated Domino Reaction between 2-Cyclohexenone and Methyl Azide - A DFT Study. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 4705-4709.	1.2	16
285	Towards a Rational Design of Antibody Catalysts through Computational Chemistry. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 904-909.	7.2	9
286	Towards a Rational Design of Antibody Catalysts through Computational Chemistry. <i>Angewandte Chemie</i> , 2005, 117, 926-931.	1.6	3
287	A Theoretical Study on the Gas Phase Reactions of the Anions NbO ₃ ⁻ , NbO ₅ ⁻ , and NbO ₂ (OH) ₂ ⁻ with H ₂ O and O ₂ . <i>ChemInform</i> , 2005, 36, no.	0.1	0
288	DFT Study of Oxygen Adsorption on Modified Nanostructured Gold Pyramids.. <i>ChemInform</i> , 2005, 36, no.	0.1	0

#	ARTICLE	IF	CITATIONS
289	Theoretical and experimental study of the relation between photoluminescence and structural disorder in barium and strontium titanate thin films. <i>Journal of the European Ceramic Society</i> , 2005, 25, 2337-2340.	2.8	19
290	Towards an insight on the photoluminescence of disordered CaWO ₄ from a joint experimental and theoretical analysis. <i>Journal of Solid State Chemistry</i> , 2005, 178, 1284-1291.	1.4	50
291	A theoretical analysis of the TiO ₂ /Sn doped (110) surface properties. <i>Surface Science</i> , 2005, 580, 71-79.	0.8	42
292	Composition Dependence of the Energy Barrier for Lithium Diffusion in Amorphous WO ₃ . <i>Electrochemical and Solid-State Letters</i> , 2005, 8, J21.	2.2	13
293	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
294	DFT Study of Oxygen Adsorption on Modified Nanostructured Gold Pyramids. <i>Journal of Physical Chemistry B</i> , 2005, 109, 7624-7630.	1.2	44
295	Room-temperature photoluminescence of BaTiO ₃ : Joint experimental and theoretical study. <i>Physical Review B</i> , 2005, 71, .	1.1	103
296	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
297	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
298	Exploring Two-State Reactivity Pathways in the Cycloaddition Reactions of Triplet Methylene. <i>Journal of Physical Chemistry A</i> , 2005, 109, 4178-4184.	1.1	10
299	An Aromaticity Scale Based on the Topological Analysis of the Electron Localization Function Including σ and π Contributions. <i>Journal of Chemical Theory and Computation</i> , 2005, 1, 83-86.	2.3	152
300	Migration of the subsurface impurity in Pd(111). <i>Physical Review B</i> , 2005, 71, .	1.1	43
301	DFT Study of the Reaction between VO ₂ ⁺ and C ₂ H ₆ . <i>Organometallics</i> , 2004, 23, 730-739.	1.1	61
302	Relationship between nucleophilicity/electrophilicity indices and reaction mechanisms for the nucleophilic substitution reactions of carbonyl compounds. <i>Journal of Physical Organic Chemistry</i> , 2004, 17, 273-281.	0.9	32
303	Theoretical Insights in Enzyme Catalysis. <i>ChemInform</i> , 2004, 35, no.	0.1	0
304	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
305	Understanding the Nature of the Molecular Mechanisms Associated with the Competitive Lewis Acid Catalyzed [4+2] and [4+3] Cycloadditions between Arylidenoaxazolone Systems and Cyclopentadiene: A DFT Analysis. <i>Chemistry - A European Journal</i> , 2004, 10, 4742-4749.	1.7	27
306	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

#	ARTICLE	IF	CITATIONS
307	DFT study of the water-assisted tautomerization process between hydrated oxide, $MO(H_2O)_+$, and dihydroxide, $M(OH)_2+$, cations ($M=V, Nb$ and Ta). <i>Chemical Physics Letters</i> , 2004, 384, 56-62.	1.2	25
308	A Joint Experimental and Theoretical Study on the Mechanisms of Methyl 2-Hydroxypropionate and Methyl 2-Hydroxyisobutyrate Decomposition in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2004, 108, 996-1007.	1.1	7
309	Combined Experimental and Theoretical Study to Understand the Photoluminescence of $Sr_{1-x}TiO_3-x$. <i>Journal of Physical Chemistry B</i> , 2004, 108, 9221-9227.	1.2	37
310	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
311	A Theoretical Study on the Gas Phase Reactions of the Anions NbO_3^- , NbO_5^- , and $NbO_2(OH)_2^-$ with H_2O and O_2 . <i>Journal of Physical Chemistry A</i> , 2004, 108, 10850-10860.	1.1	26
312	Density functional theory calculation of the electronic structure of $Ba_{0.5}Sr_{0.5}TiO_3$: Photoluminescent properties and structural disorder. <i>Physical Review B</i> , 2004, 69, .	1.1	98
313	Theoretical insights in enzyme catalysis. <i>Chemical Society Reviews</i> , 2004, 33, 98-107.	18.7	150
314	Toward Understanding the Electron Density Distribution in Magnetic Clusters: An Insight from the ELF and AIM Analyses of Ground-State Fe_4 . <i>Journal of Physical Chemistry A</i> , 2004, 108, 6025-6031.	1.1	24
315	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
316	Hybrid QM/MM Studies on Chemical Reactivity. <i>ChemInform</i> , 2003, 34, no.	0.1	0
317	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
318	Conformational equilibrium of chorismate. A QM/MM theoretical study combining statistical simulations and geometry optimisations in gas phase and in aqueous solution. <i>Computational and Theoretical Chemistry</i> , 2003, 632, 197-206.	1.5	13
319	Electronic and structural properties of $Sr_xTi_{1-x}O_2$ solid solutions: a periodic DFT study. <i>Catalysis Today</i> , 2003, 85, 145-152.	2.2	71
320	Theoretical Modeling of Enzyme Catalytic Power: An Analysis of Kinetic and Electrostatic Factors in Catechol O-Methyltransferase. <i>Journal of the American Chemical Society</i> , 2003, 125, 7726-7737.	6.6	79
321	Sulfide and Sulfoxide Oxidations by Mono- and Diperoxo Complexes of Molybdenum. A Density Functional Study. <i>Journal of Organic Chemistry</i> , 2003, 68, 5870-5874.	1.7	24
322	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
323	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
324	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

#	ARTICLE	IF	CITATIONS
325	Crystal growth in colloidal tin oxide nanocrystals induced by coalescence at room temperature. Applied Physics Letters, 2003, 83, 1566-1568.	1.5	257
326	Understanding the mechanism of base-assisted decomposition of (N-halo),N-alkylalcoholamines. Organic and Biomolecular Chemistry, 2003, 1, 4323-4328.	1.5	4
327	Thermodynamic argument about SnO ₂ nanoribbon growth. Applied Physics Letters, 2003, 83, 635-637.	1.5	115
328	Quantum-mechanical simulation of MgAl ₂ O ₄ under high pressure. Physical Review B, 2002, 66, .	1.1	43
329	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
330	Stability of MgAl ₂ O ₄ Under High-Pressure Conditions. High Pressure Research, 2002, 22, 447-450.	0.4	2
331	Topological analysis of the bonds in incomplete cuboidal [Mo ₃ S ₄] clusters. New Journal of Chemistry, 2002, 26, 844-850.	1.4	41
332	A DFT Study of the Molecular Mechanisms of the Diels-Alder Reaction between Cyclopentadiene and 3-Phenyl-1-(2-pyridyl)-2-propen-1-one - Role of the Zn ²⁺ Lewis Acid Catalyst and Water Solvent. European Journal of Organic Chemistry, 2002, 2002, 2557.	1.2	17
333	An atom-in-molecules and electron-localization-function study of the interaction between O ₂ and V _x O _y + /V _x O _y (x = 1, 2, y = 1-5) clusters. Theoretical Chemistry Accounts, 2002, 108, 12-20.	0.5	21
334	The use of the generator coordinate method for designing basis set. Application to oxo-diperoxo molybdenum complexes. Computational and Theoretical Chemistry, 2002, 589-590, 251-264.	1.5	10
335	A joint theoretical and kinetic investigation on the fragmentation of (N-halo)-2-amino cycloalkanecarboxylates. Chemical Physics, 2002, 280, 1-14.	0.9	6
336	Author Index to Volumes 271-280. Chemical Physics, 2002, 280, 1-26.	0.9	3
337	Enzyme catalysis: Transition structures and quantum dynamical aspects: Modeling rubisco's oxygenation and carboxylation mechanisms. International Journal of Quantum Chemistry, 2002, 88, 154-166.	1.0	11
338	An AM1 theoretical study on the effect of Zn ²⁺ Lewis acid catalysis on the mechanism of the cycloaddition between 3-phenyl-1-(2-pyridyl)-2-propen-1-one and cyclopentadiene. Tetrahedron, 2002, 58, 2695-2700.	1.0	15
339	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 . Surface Science, 2002, 511, 408-420.	0.8	100
340	The nature of the Au-Rg bond in the [AuRg ₄] ²⁺ (Rg=Ar, Kr and Xe) molecules. Chemical Physics Letters, 2002, 356, 483-489.	1.2	30
341	Topological Analysis of the Bonds in Incomplete Cuboidal [Mo ₃ S ₄] Clusters.. ChemInform, 2002, 33, 2-2.	0.1	0
342	Quantum Theory of Solvent Effects and Chemical Reactions. , 2002, , 283-361.		1

#	ARTICLE	IF	CITATIONS
343	Quantum-mechanical analysis of the equation of state of anatase TiO ₂ . <i>Physical Review B</i> , 2001, 64, .	1.1	68
344	A Combined Experimental and Theoretical Study of the Homogeneous, Unimolecular Decomposition Kinetics of 3-Chloropivalic Acid in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2001, 105, 1869-1875.	1.1	4
345	Transition Structures for Ribulose-1,5-bisphosphate Carboxylase/Oxygenase-Catalyzed Oxygenation Chemistry: A Role of Carbamylated Lysine in a Model Magnesium Coordination Sphere. <i>Journal of Physical Chemistry A</i> , 2001, 105, 4726-4736.	1.1	15
346	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
347	Static simulation of bulk and selected surfaces of anatase TiO ₂ . <i>Surface Science</i> , 2001, 490, 116-124.	0.8	115
348	Transition State Structures and Intermediates Modeling Carboxylation Reactions Catalyzed by Rubisco. A Quantum Chemical Study of the Role of Magnesium and Its Coordination Sphere. <i>Journal of Physical Chemistry A</i> , 2001, 105, 9243-9251.	1.1	9
349	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
350	Topological Analysis of Multiple Metal-Metal Bonds in Dimers of the M ₂ (Formamidinate) ₄ Type with M = Nb, Mo, Tc, Ru, Rh, and Pd. <i>Journal of Physical Chemistry A</i> , 2001, 105, 9460-9466.	1.1	71
351	Molecular Structure of the Molybdenum Oxo-Diperoxo Compound MoO(O ₂) ₂ (OPy)(H ₂ O): A Computational and X-ray Study. <i>Inorganic Chemistry</i> , 2001, 40, 6022-6025.	1.9	28
352	A Systematic Density Functional Theory Study of V _x O _y ⁺ and V _x O _y (X = 2-4, Y = 2-10) Systems. <i>Journal of Physical Chemistry A</i> , 2001, 105, 9760-9775.	1.1	107
353	Quantum Mechanical/Molecular Mechanical Study on the Favorskii Rearrangement in Aqueous Media. <i>Journal of Physical Chemistry B</i> , 2001, 105, 2453-2460.	1.2	19
354	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
355	The hierarchy of localization basins: a tool for the understanding of chemical bonding exemplified by the analysis of the VO _x and VO _x ⁺ (x = 1-4) systems. <i>Theoretical Chemistry Accounts</i> , 2001, 105, 299-308.	0.5	64
356	Density functional study of the 5-methylcytosine tautomers. <i>Chemical Physics</i> , 2001, 264, 333-340.	0.9	33
357	Theoretical analysis on TiO ₂ (110)/V surface. <i>International Journal of Quantum Chemistry</i> , 2001, 85, 44-51.	1.0	10
358	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
359	Electronic mechanistic pattern for C-C bond-breaking from transition structures in Rubisco's chemistry. <i>Chemical Physics Letters</i> , 2001, 340, 391-399.	1.2	14
360	A B3LYP/6-31G** study on the chlorination of ammonia by hypochlorous acid. <i>Chemical Physics Letters</i> , 2001, 342, 405-410.	1.2	24

#	ARTICLE	IF	CITATIONS
361	Theoretical study of ZnO (1010) and Cu/ZnO (1010) surfaces. <i>Chemical Physics Letters</i> , 2001, 338, 224-230.	1.2	35
362	Theoretical analysis of the energy levels induced by oxygen vacancies and the doping process (Co, Cu) Tj ETQq0 0 Q rgBT /Overlock 10 T	1.5	21
363	A PM3 study of the molecular mechanism for the cycloaddition between cyclopentadiene and protonated pyridine-imine derivatives. <i>Computational and Theoretical Chemistry</i> , 2001, 544, 79-90.	1.5	5
364	A theoretical study on the molecular mechanism for the normal Reimer-Tiemann reaction. <i>Chemical Physics Letters</i> , 2000, 318, 270-275.	1.2	8
365	Alternative pathways for the C2-C3 bond cleavage and C2 configuration inversion processes for the Rubisco-catalyzed carboxylation sequence. <i>Chemical Physics Letters</i> , 2000, 318, 361-369.	1.2	4
366	A quantum-chemical study of transition structures for enolization and oxygenation steps catalyzed by rubisco: on the role of magnesium and carbamylated Lys-201 in opening oxygen capture channel. <i>Chemical Physics Letters</i> , 2000, 323, 29-34.	1.2	16
367	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
368	Toward an Understanding of the Selectivity in Domino Reactions. A DFT Study of the Reaction between Acetylenedicarboxylic Acid and 1,3-Bis(2-furyl)propane. <i>Journal of Organic Chemistry</i> , 2000, 65, 3473-3477.	1.7	18
369	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
370	A combined experimental and theoretical study of the unimolecular elimination kinetics of 2-alkoxypropionic acids in the gas phase. <i>Chemical Physics</i> , 1999, 246, 1-12.	0.9	25
371	Experimental and theoretical study on the piezoelectric behavior of barium doped PZT. <i>Journal of Materials Science</i> , 1999, 34, 3659-3667.	1.7	17
372	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
373	Transition state structure invariance to model system size and calculation levels: a QM/MM study of the carboxylation step catalyzed by Rubisco. <i>Theoretical Chemistry Accounts</i> , 1999, 101, 228-233.	0.5	29
374	Transition-state structures for describing the enzyme-catalyzed mechanisms of rubisco. <i>Theoretical Chemistry Accounts</i> , 1999, 101, 234-240.	0.5	10
375	PM3 study of the domino reaction of nitroalkenes with silyl enol ethers. <i>Journal of Physical Organic Chemistry</i> , 1999, 12, 24-30.	0.9	6
376	Theoretical study of the molecular mechanism of the domino pathways for squarate ester sequential reactions. <i>Journal of Physical Organic Chemistry</i> , 1999, 12, 61-68.	0.9	2
377	A theoretical analysis of adsorption and dissociation of CH ₃ OH on the stoichiometric SnO ₂ (110) surface. <i>Surface Science</i> , 1999, 430, 213-222.	0.8	70
378	Theoretical Study of the Mechanisms for the Alkoxyacetic Acids Decomposition. <i>Journal of Physical Chemistry A</i> , 1999, 103, 3935-3943.	1.1	33

#	ARTICLE	IF	CITATIONS
379	Theoretical Study on the Molecular Mechanism of the Domino Cycloadditions between Dimethyl Acetylenedicarboxylate and Naphthaleno- and Anthracenofuranophane. <i>Journal of Organic Chemistry</i> , 1999, 64, 3026-3033.	1.7	8
380	Structure and Bonding of Chlorine Oxides and Peroxides: ClO_x , ClO_x ($x=1\text{--}4$), and Cl_2O_x ($x=1\text{--}8$). <i>Journal of Physical Chemistry A</i> , 1999, 103, 3078-3088.	1.1	74
381	A Theoretical Study of the Molecular Mechanism for the Carboxylation Chemistry in Rubisco. <i>Journal of Physical Chemistry A</i> , 1999, 103, 8725-8732.	1.1	15
382	Designing a Transition State Analogue for the Disfavored Intramolecular Michael Addition of 2-(2-Hydroxyethyl)acrylate Esters. <i>Journal of Organic Chemistry</i> , 1999, 64, 9164-9169.	1.7	4
383	Theoretical Study of the Molecular Mechanism for the Oxygenation Chemistry in Rubisco. <i>Journal of Physical Chemistry A</i> , 1999, 103, 6009-6016.	1.1	14
384	Nonlocal (Pair Site) Reactivity from Second-Order Static Density Response Function: Gas- and Solution-Phase Reactivity of the Acetaldehyde Enolate as a Test Case. <i>Journal of Physical Chemistry A</i> , 1999, 103, 1367-1375.	1.1	46
385	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
386	Towards an understanding of the molecular mechanism of the unimolecular decomposition of the N-chloro- α -amino acids on the ground and excited states surfaces in aqueous medium. <i>Chemical Physics Letters</i> , 1998, 283, 294-300.	1.2	8
387	Theoretical study of the structure and stability of Nb_xO_y and Nb_xO_y^+ ($x=1\text{--}3$; $y=2\text{--}5, 7, 8$) clusters. <i>Chemical Physics Letters</i> , 1998, 287, 620-626.	1.2	36
388	A theoretical study on the decomposition mechanism of β -propiolactone and β -butyrolactone. <i>Chemical Physics Letters</i> , 1998, 288, 261-269.	1.2	9
389	A theoretical analysis on the intramolecular proton transfer of α -alanine in an aqueous medium. <i>Chemical Physics Letters</i> , 1998, 294, 1-8.	1.2	15
390	Molecular mechanism for oxygenation pathway in Rubisco.. <i>Chemical Physics Letters</i> , 1998, 294, 87-94.	1.2	13
391	A PM3 theoretical study of the adsorption and dissociation of water on MgO surfaces. <i>Computational and Theoretical Chemistry</i> , 1998, 426, 199-205.	1.5	10
392	The tandem Diels-Alder reaction between acetylenedicarboxyaldehyde and N,N'-dipyrrolylmethane. An ab initio study of the molecular mechanisms. <i>Computational and Theoretical Chemistry</i> , 1998, 426, 257-262.	1.5	9
393	A theoretical study of the addition of CH_3MgCl to chiral α -alkoxy carbonyl compounds. <i>Computational and Theoretical Chemistry</i> , 1998, 426, 263-275.	1.5	3
394	A density functional theory analysis of the gas and solution phase isomerization reactions of MCN, (M) Tj ETQq0 0 0 rgBT / Overlock 10 T	1.5	12
395	A PM3 semiempirical study of the molecular mechanism for the Favorskii rearrangement of the α -chlorocyclobutanone. <i>Computational and Theoretical Chemistry</i> , 1998, 426, 299-306.	1.5	5
396	Theoretical investigation of the abnormal Reimer-Tiemann reaction. <i>Journal of Physical Organic Chemistry</i> , 1998, 11, 670-677.	0.9	3

#	ARTICLE	IF	CITATIONS
397	Comparative theoretical study of transition structures, barrier heights, and reaction energies for the intramolecular tautomerization in acetaldehyde/vinyl alcohol and acetaldimine/vinylamine systems. <i>International Journal of Quantum Chemistry</i> , 1998, 66, 9-24.	1.0	33
398	Hydrogen bonding and dissociation effects on the gas phase proton transfer reactions of ozone. <i>Theoretical Chemistry Accounts</i> , 1998, 99, 60-63.	0.5	2
399	Theory of non-local (pair site) reactivity from model static-density response functions. <i>Theoretical Chemistry Accounts</i> , 1998, 99, 183-191.	0.5	17
400	A theoretical study of the unimolecular decomposition of N-chloro- α -amino acids in aqueous solution. <i>Chemical Physics</i> , 1998, 229, 125-136.	0.9	9
401	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
402	Ab Initio Study of Stereo- and Regioselectivity in the Diels-Alder Reaction between 2-Phenylcyclopentadiene and α -(Methylthio)acrylonitrile. <i>Journal of Organic Chemistry</i> , 1997, 62, 1775-1778.	1.7	32
403	Theoretical Study of the Gas Phase Decomposition of Glycolic, Lactic, and 2-Hydroxyisobutyric Acids. <i>Journal of the American Chemical Society</i> , 1997, 119, 6415-6422.	6.6	51
404	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
405	A Theoretical Study of the Favorskii Rearrangement. Calculation of Gas-Phase Reaction Paths and Solvation Effects on the Molecular Mechanism for the Transposition of the α -Chlorocyclobutanone. <i>Journal of the American Chemical Society</i> , 1997, 119, 1941-1947.	6.6	24
406	Ab initio and semiempirical MO studies using large cluster models of CO and H ₂ adsorption and dissociation on ZnO surfaces with the formation of ZnH and OH species. <i>Computational and Theoretical Chemistry</i> , 1997, 397, 147-157.	1.5	12
407	Ab initio study of CO and H ₂ interaction on ZnO surfaces using a small cluster model. <i>Computational and Theoretical Chemistry</i> , 1997, 398-399, 457-466.	1.5	23
408	Piezoelectric behaviour of PZT doped with calcium: a combined experimental and theoretical study. <i>Journal of Materials Science</i> , 1997, 32, 2381-2386.	1.7	16
409	Periodic Hartree-Fock calculation of the A _{1g} (T _z) and E _g (T _x , T _y) phonon modes in ice VIII. <i>Journal of Molecular Structure</i> , 1997, 436-437, 443-449.	1.8	5
410	A quantum electronic theory of chemical processes? The inverted energy profile case: CH ₃ ⁺ + H ₂ reaction. <i>International Journal of Quantum Chemistry</i> , 1997, 63, 373-391.	1.0	6
411	Understanding the mechanism of the addition of organomagnesium reagents to 2-hydroxypropanal: An ab initio molecular orbital analysis. <i>International Journal of Quantum Chemistry</i> , 1997, 65, 719-728.	1.0	3
412	A semiempirical study on the ring-opening process for the cyclopropanone, 2,2-dimethylcyclopropanone, trans-2,3-di-tert-butylcyclopropanone, and spiro(bicyclo[2.2.1]heptane-2,1'-cyclopropan)-2'-one systems in solution. <i>International Journal of Quantum Chemistry</i> , 1997, 65, 729-738.	1.0	4
413	Potential energy surface for the decomposition of mandelic acid. <i>Chemical Physics Letters</i> , 1997, 274, 422-428.	1.2	32
414	Transition structures of carbon dioxide fixation, hydration and C ₂ inversion for a model of Rubisco catalyzed reaction. <i>Chemical Physics Letters</i> , 1997, 278, 291-296.	1.2	17

#	ARTICLE	IF	CITATIONS
415	A Theoretical Study of Addition of Organomagnesium Reagents to Chiral α -Alkoxy Carbonyl Compounds. <i>Journal of Organic Chemistry</i> , 1996, 61, 3467-3475.	1.7	25
416	On Transition Structures for Hydride Transfer Step in Enzyme Catalysis. A Comparative Study on Models of Glutathione Reductase Derived from Semiempirical, HF, and DFT Methods. <i>Journal of Organic Chemistry</i> , 1996, 61, 7777-7783.	1.7	24
417	A comparative QCISD(T), DFT and MCSCF study of the unimolecular, decomposition of the N-chloro- α -glycine anion in gas phase. <i>Theoretica Chimica Acta</i> , 1996, 94, 247-256.	0.9	6
418	Transition structure for hydride transfer from cyclopropene to azirinium cation. <i>Computational and Theoretical Chemistry</i> , 1996, 363, 257-261.	1.5	1
419	CO interaction with ZnO surfaces: an MNDO, AM1 and PM3 theoretical study with large cluster models. <i>Computational and Theoretical Chemistry</i> , 1996, 363, 249-256.	1.5	14
420	Rotational constants and dipole moments of interstellar polyynes: a comparative MP2 and density functional (BP86) study. <i>Chemical Physics</i> , 1996, 206, 57-61.	0.9	17
421	Transition structures for hydride transfer reactions in vacuo and their role in enzyme catalysis. <i>Computational and Theoretical Chemistry</i> , 1996, 371, 299-312.	1.5	8
422	Theoretical study of substituent effects in the unimolecular decomposition of N-chloro- α -amino acid anions. Analysis of transition structure and molecular reaction mechanism. <i>Journal of Physical Organic Chemistry</i> , 1996, 9, 371-380.	0.9	9
423	Theoretical characterization of transition structure for the enzyme-catalyzed reaction at the active center of lactate dehydrogenase. Geometry and transition vector dependence upon computing method and model system. <i>Journal of Physical Organic Chemistry</i> , 1996, 9, 498-506.	0.9	3
424	On a possible invariance of a transition structure to the effects produced by ancillary H-bonding molecules: Modeling the effects of Ser-48 in the hydride-transfer step of liver alcohol dehydrogenase. <i>International Journal of Quantum Chemistry</i> , 1996, 57, 245-257.	1.0	13
425	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
426	On Transition Structures for Hydride Transfer Step: A Theoretical Study of the Reaction Catalyzed by Dihydrofolate Reductase Enzyme. <i>Bioorganic Chemistry</i> , 1996, 24, 10-18.	2.0	32
427	Theoretical study of the solvent effects on the mechanisms of addition of dimethyl acetylenedicarboxylate to 1-methyl-2-vinylpyrrole. <i>Tetrahedron</i> , 1996, 52, 10693-10704.	1.0	33
428	The tandem Diels-Alder reaction of dimethyl acetylenedicarboxylate to bicyclopentadiene. A theoretical study of the molecular mechanisms. <i>Tetrahedron Letters</i> , 1996, 37, 7573-7576.	0.7	8
429	An ab initio perturbed ion study of structural properties of TiO ₂ , SnO ₂ and GeO ₂ rutile lattices. <i>Chemical Physics</i> , 1996, 212, 381-391.	0.9	27
430	Inactivation of Ribulose-1,5-bisphosphate Carboxylase/Oxygenase during Catalysis. A Theoretical Study of Related Transition Structures. <i>The Journal of Physical Chemistry</i> , 1996, 100, 8543-8550.	2.9	13
431	Unimolecular Decomposition of the Anionic Form of N-Chloro- α -glycine. A Theoretical Study. <i>The Journal of Physical Chemistry</i> , 1996, 100, 3561-3568.	2.9	14
432	Theoretical study of lattice stability and selective doping effects of V ⁴⁺ and Tb ⁴⁺ in the ZrGeO ₄ lattice. <i>Chemical Physics Letters</i> , 1995, 236, 521-531.	1.2	2

#	ARTICLE	IF	CITATIONS
433	An Ab initio perturbed ion study of pyrope garnet structure. Journal of Physics and Chemistry of Solids, 1995, 56, 901-906.	1.9	4
434	Simulation of ionic crystals: calculation of Madelung potentials for stabilized zirconia. Journal of Materials Science, 1995, 30, 4852-4856.	1.7	3
435	MgAl ₂ O ₄ spinel crystal structure. An ab initio perturbed ion study. International Journal of Quantum Chemistry, 1995, 56, 685-694.	1.0	3
436	A theoretical study of (1010) and (0001) ZnO surfaces: molecular cluster model, basis set and effective core potential dependence. Computational and Theoretical Chemistry, 1995, 330, 301-306.	1.5	28
437	Ionic structures as intercalation compound host lattices. An ab initio perturbed ion study on lattice stretching. Computational and Theoretical Chemistry, 1995, 330, 313-317.	1.5	2
438	Ab initio perturbed ion calculations on Ni ₂ +KZnF ₃ and Ni ₂ +KMgF ₃ . A structural study. Computational and Theoretical Chemistry, 1995, 330, 319-323.	1.5	2
439	A theoretical study of water adsorption on (10-10) and (0001) ZnO surfaces: molecular cluster, basis set and effective core potential dependence. Computational and Theoretical Chemistry, 1995, 330, 347-351.	1.5	44
440	Am ¹ and pm ³ transition structure for the hydride transfer. A model of reaction catalyzed by dihydrofolate reductase. Computational and Theoretical Chemistry, 1995, 330, 411-416.	1.5	24
441	Theoretical study of cluster models and molecular hydrogen interaction with SnO ₂ [110] surface. Computational and Theoretical Chemistry, 1995, 335, 167-174.	1.5	16
442	On a quantum theory of chemical reactions and the role of in vacuum transition structures. Primary and secondary sources of enzyme catalysis. Computational and Theoretical Chemistry, 1995, 335, 267-286.	1.5	19
443	Transition structures in vacuo and the theory of enzyme catalysis. Rubisco's catalytic mechanism: a paradigmatic case?. Computational and Theoretical Chemistry, 1995, 342, 131-140.	1.5	21
444	Garnet Crystal Structures. An ab Initio Perturbed Ion Study. The Journal of Physical Chemistry, 1995, 99, 6493-6501.	2.9	9
445	Pseudopotential Periodic Hartree-Fock study of K ₈ In ₁₁ and Rb ₈ In ₁₁ Systems. The Journal of Physical Chemistry, 1995, 99, 12483-12487.	2.9	10
446	A theoretical study of the molecular mechanism for the oxidation of methanol by PQQ. Journal of the American Chemical Society, 1995, 117, 8807-8815.	6.6	24
447	An ab Initio Perturbed Ion Study of the BaLiF ₃ and BaLiH ₃ Inverted Perovskite Structures. The Journal of Physical Chemistry, 1995, 99, 8082-8090.	2.9	3
448	Transition state structures for the molecular mechanism of lactate dehydrogenase enzyme. Journal of the Chemical Society Perkin Transactions II, 1995, , 1551-1558.	0.9	11
449	A Theoretical Study of Stationary Structures for the Addition of Azide Anion to Tetrahydrofuranosides: Modeling the Kinetic and Thermodynamic Controls by Solvent Effects. The Journal of Physical Chemistry, 1994, 98, 6955-6960.	2.9	18
450	An ab initio perturbed ion study of bulk ceria. Chemical Physics Letters, 1994, 221, 249-254.	1.2	7

#	ARTICLE	IF	CITATIONS
451	Quantum Chemical Studies of Pyrroloquinoline Quinone: PM3 Pathways for Methanol Oxidation. <i>Bioorganic Chemistry</i> , 1994, 22, 58-71.	2.0	5
452	Quantum chemical study of the adsorption of water on zinc oxide surface. <i>Computational and Theoretical Chemistry</i> , 1994, 303, 19-24.	1.5	19
453	Local Relaxation Effects in the Crystal Structure of Vanadium-Doped Zircon. An ab Initio Perturbed Ion Calculation. <i>The Journal of Physical Chemistry</i> , 1994, 98, 7741-7744.	2.9	8
454	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
455	Theoretical kinetic isotope effects for the hydride-transfer step in lactate dehydrogenase. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994, 90, 1703-1707.	1.7	32
456	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
457	Comparison of Several Semiempirical and ab Initio Methods for Transition State Structure Characterization. Addition of CO ₂ to CH ₃ NHCONH ₂ . <i>The Journal of Physical Chemistry</i> , 1994, 98, 3664-3668.	2.9	13
458	A PM3 Quantum Chemical Study of the Pyruvate Reduction Mechanism Catalyzed by Lactate Dehydrogenase. <i>Bioorganic Chemistry</i> , 1993, 21, 260-274.	2.0	14
459	V ⁴⁺ doping into SiO ₂ , ZrO ₂ and ZrSiO ₄ structures. An ab initio perturbed ion study. <i>International Journal of Quantum Chemistry</i> , 1993, 48, 175-186.	1.0	4
460	ZnO clusters models: An AM1 and MNDO study. <i>International Journal of Quantum Chemistry</i> , 1993, 48, 643-653.	1.0	12
461	Ab initio cluster-in-the-lattice description of vanadium-doped zircon: analysis of the impurity centers in vanadium(4+)-doped zircon (ZrSiO ₄). <i>The Journal of Physical Chemistry</i> , 1993, 97, 2555-2559.	2.9	23
462	A theoretical study of the addition mechanism of carbon dioxide to methylamine. Modelling CO ₂ in biotin fixation. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1993, , 521-523.	0.9	10
463	A theoretical study of the singlet-triplet energy gap dependence upon rotation and pyramidalization for 1,2-dihydroxyethylene: a simple model to study the enediol moiety in Rubisco's substrate. <i>The Journal of Physical Chemistry</i> , 1993, 97, 7888-7893.	2.9	29
464	True and Apparent Oxygen Permeabilities of Contact Lenses. <i>Optometry and Vision Science</i> , 1992, 69, 685-690.	0.6	20
465	Towards an explanation of carboxylation/oxygenation bifunctionality in Rubisco. Transition structure for the carboxylation reaction of 2,3,4-pentanetriol. <i>Molecular Engineering</i> , 1992, 2, 37-41.	0.2	23
466	Amidine decomposition mechanism. A theoretical study. <i>Computational and Theoretical Chemistry</i> , 1992, 254, 465-472.	1.5	17
467	Straining the double bond in 1,2-dihydroxyethylene. A simple theoretical model for the enediol moiety in Rubisco's substrate and analogs. <i>Chemical Physics Letters</i> , 1992, 198, 515-520.	1.2	26
468	Transition structure for the hydride transfer reaction from formate anion to cyclopropenyl cation: a simple theoretical model for the reaction catalyzed by formate dehydrogenase. <i>Chemical Physics Letters</i> , 1992, 189, 395-400.	1.2	26

#	ARTICLE	IF	CITATIONS
469	Theoretical studies of substituent effects on stationary structures of amidine decomposition. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1991, , 539-542.	0.9	1
470	Electronic aspects of LADH catalytic mechanism. <i>International Journal of Quantum Chemistry</i> , 1991, 39, 767-786.	1.0	42
471	An ab initio study of the unimolecular decomposition mechanism of formamidine. 4-31G Characterization of potential energy hypersurface. <i>International Journal of Quantum Chemistry</i> , 1991, 40, 127-137.	1.0	5
472	Theoretical rotational constants of MeCnN species. <i>Chemical Physics Letters</i> , 1990, 166, 54-56.	1.2	8
473	Calculation of the relative basicities of methylamines in solution. <i>Chemical Physics Letters</i> , 1990, 169, 297-300.	1.2	12
474	Theoretical study of stationary structures of acetamidine unimolecular decomposition. <i>Chemical Physics Letters</i> , 1990, 169, 509-512.	1.2	8
475	HCnN: The largest molecules in the interstellar medium. <i>Journal of Chemical Education</i> , 1990, 67, 905.	1.1	18
476	Theoretical study of solvation effects on chemical reactions. A combined quantum chemical/Monte Carlo study of the Meyer-Schuster reaction mechanism in water. <i>Journal of the American Chemical Society</i> , 1989, 111, 829-835.	6.6	39
477	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
478	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
479	Electronic aspects of the hydride transfer mechanism. <i>Computational and Theoretical Chemistry</i> , 1988, 167, 395-412.	1.5	19
480	Electronic aspects of the hydride transfer mechanism. III. Ab-initio analytical gradient studies of the cyclopropenyl-cation/LiH with 4-31G and 3-21+G basis sets.. <i>Computational and Theoretical Chemistry</i> , 1988, 166, 421-430.	1.5	6
481	Theoretical studies of $\hat{\pm}$ -acetylenic alcohols rearrangement mechanism: Ab initio calculations of the unimolecular rate limiting step. <i>Computational and Theoretical Chemistry</i> , 1986, 138, 171-177.	1.5	4
482	Catalytic role of copper(I) ion on the propargylic transposition. A theoretical study. <i>The Journal of Physical Chemistry</i> , 1985, 89, 4769-4773.	2.9	6
483	Linear bending in propynyl cation, allene, and propyne systems: do they have flexible structures? an ab initio 4-31 + G molecular orbital study. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1985, , 363-366.	0.9	4
484	Electronic aspects of the hydride transfer mechanism. Abinitioanalytical gradient studies of the cyclopropenyl-cation/lithium hydride model reactant system. <i>Journal of Chemical Physics</i> , 1985, 83, 4673-4682.	1.2	25
485	MO studies of the nature of the bifurcated hydrogen bond. Rotational barriers in cyclohexanol and 1,3-dioxan-5-ol. <i>Chemical Physics Letters</i> , 1984, 109, 468-470.	1.2	1
486	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

#	ARTICLE	IF	CITATIONS
487	Quantum-chemical studies of the energy hypersurface for the Meyer-Schuster rearrangement STO-3G calculation of minimum-energy paths. Intermolecular mechanism. Chemical Physics Letters, 1983, 94, 193-197.	1.2	11
488	A theoretical study of the intramolecular solvolytic mechanism of the Meyer-Schuster reaction. MINDO/3 and CNDO/2 calculations of minimum energy paths. Computational and Theoretical Chemistry, 1983, 105, 49-54.	1.5	10
489	A quantum chemical study of protonated intermediates in Rupe and Meyer-Schuster rearrangement mechanisms. Computational and Theoretical Chemistry, 1983, 105, 307-314.	1.5	11
490	Reading at exposed surfaces: theoretical insights into photocatalytic activity of ZnWO ₄ . , 0, 1, 1005.		20