

Julianna Olah

List of Publications by Year in descending order

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59
papers

1,369
citations

489802

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Active site dynamics and catalytic mechanism in arabinan hydrolysis catalyzed by GH43 endo-arabinanase from QM/MM molecular dynamics simulation and potential energy surface. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 7439-7449.	2.0	7
2	The Structure-Derived Mechanism of Box H/ACA Pseudouridine Synthase Offers a Plausible Paradigm for Programmable RNA Editing. <i>ACS Catalysis</i> , 2022, 12, 2756-2769.	5.5	5
3	Role of water coordination at zinc binding site and its catalytic pathway of dizinc creatininase: insights from quantum cluster approach. <i>Journal of Computer-Aided Molecular Design</i> , 2022, 36, 279-289.	1.3	5
4	H ₂ and N ₂ Binding Affinities Are Coupled in Synthetic Fe Nitrogenases Limiting N ₂ Fixation. <i>Organometallics</i> , 2022, 41, 1134-1146.	1.1	3
5	Theoretical insights into water network of B-DNA duplex with Watson-Crick and Hoogsteen base pairing geometries. <i>Journal of Molecular Liquids</i> , 2022, 362, 119728.	2.3	1
6	Iron(II) pillared-layer responsive frameworks via H_2O dual H_2O supramolecular tessellations. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 3532-3546.	3.0	8
7	The Reactivity of Human and Equine Estrogen Quinones towards Purine Nucleosides. <i>Symmetry</i> , 2021, 13, 1641.	1.1	0
8	DFT study of formation and properties of dinuclear zirconocene cations: Effects of ligand structure, solvent, and metal on the dimerization process. <i>Journal of Organometallic Chemistry</i> , 2020, 905, 121024.	0.8	6
9	Demonstrating the Direct Relationship between Hydrogen Evolution Reaction and Catalyst Deactivation in Synthetic Fe Nitrogenases. <i>ACS Catalysis</i> , 2020, 10, 12555-12568.	5.5	13
10	Online conferences "Towards a new (virtual) reality. <i>Computational and Theoretical Chemistry</i> , 2020, 1189, 112975.	1.1	42
11	Gas Sensing by Bacterial H-NOX Proteins: An MD Study. <i>Molecules</i> , 2020, 25, 2882.	1.7	6
12	Exploring Hydrogen Evolution Accompanying Nitrogen Reduction on Biomimetic Nitrogenase Analogs: Can Fe ^{II} NxHy Intermediates Be Active Under Turnover Conditions?. <i>Inorganic Chemistry</i> , 2019, 58, 7969-7977.	1.9	8
13	First Principles Calculation of the Reaction Rates for Ligand Binding to Myoglobin: The Cases of NO and CO. <i>Chemistry - A European Journal</i> , 2018, 24, 5350-5358.	1.7	6
14	Quantum chemical calculations support pseudouridine synthase reaction through a glycol intermediate and provide details of the mechanism. <i>Theoretical Chemistry Accounts</i> , 2018, 137, 1.	0.5	5
15	Identifying the Rate-Limiting Elementary Steps of Nitrogen Fixation with Single-Site Fe Model Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 8499-8508.	1.9	19
16	Spin Crossover Behavior in a Homologous Series of Iron(II) Complexes Based on Functionalized Bipyridyl Ligands. <i>Inorganic Chemistry</i> , 2018, 57, 9880-9891.	1.9	36
17	Water-formamide mixtures: Topology of the hydrogen-bonded network. <i>Journal of Molecular Liquids</i> , 2017, 228, 25-31.	2.3	20
18	Combined Docking and Quantum Chemical Study on CYP-Mediated Metabolism of Estrogens in Man. <i>Chemical Research in Toxicology</i> , 2017, 30, 583-594.	1.7	5

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19	Hydration sphere structure of proteins: A theoretical study. <i>Journal of Molecular Liquids</i> , 2017, 238, 462-469.	2.3	12
20	How can we detect hydrogen bond local cooperativity in liquid water: A simulation study. <i>Journal of Molecular Liquids</i> , 2017, 245, 140-146.	2.3	13
21	Dual Role of the Active Site Residues of <i>Thermus thermophilus</i> 3-Isopropylmalate Dehydrogenase: Chemical Catalysis and Domain Closure. <i>Biochemistry</i> , 2016, 55, 560-574.	1.2	2
22	Synthesis, experimental and theoretical studies on the factors influencing the pKa values of new crown ethers containing a diarylphosphinic acid unit. <i>Tetrahedron</i> , 2016, 72, 8593-8602.	1.0	2
23	Accurate modeling of cation-π interactions in enzymes: a case study on the CDPCho:phosphocholine cytidyltransferase complex. <i>Structural Chemistry</i> , 2015, 26, 1411-1423.	1.0	3
24	Glutamate 270 plays an essential role in K ⁺ activation and domain closure of <i>Thermus thermophilus</i> isopropylmalate dehydrogenase. <i>FEBS Letters</i> , 2015, 589, 240-245.	1.3	5
25	Convergence of Atomic Charges with the Size of the Enzymatic Environment. <i>Journal of Chemical Information and Modeling</i> , 2015, 55, 564-571.	2.5	17
26	How does the protein environment optimize the thermodynamics of thiol sulfenylation? Insights from model systems to QM/MM calculations on human 2-Cys peroxiredoxin. <i>Journal of Biomolecular Structure and Dynamics</i> , 2015, 33, 584-596.	2.0	8
27	The mechanism of human aromatase (CYP 19A1) revisited: DFT and QM/MM calculations support a compound I-mediated pathway for the aromatization process. <i>Structural Chemistry</i> , 2015, 26, 279-300.	1.0	12
28	Molecular Mechanism for the Thermo-Sensitive Phenotype of CHO-MT58 Cell Line Harboring a Mutant CTP:Phosphocholine Cytidyltransferase. <i>PLoS ONE</i> , 2015, 10, e0129632.	1.1	10
29	Structural and energetic basis of isopropylmalate dehydrogenase enzyme catalysis. <i>FEBS Journal</i> , 2014, 281, 5063-5076.	2.2	16
30	Enolization as an Alternative Proton Delivery Pathway in Human Aromatase (P450 19A1). <i>Journal of Physical Chemistry B</i> , 2014, 118, 390-405.	1.2	14
31	Hydrogen bond network topology in liquid water and methanol: a graph theory approach. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15163.	1.3	60
32	Evolutionary and mechanistic insights into substrate and product accommodation of CTP:phosphocholine cytidyltransferase from <i>Plasmodium falciparum</i> . <i>FEBS Journal</i> , 2013, 280, 3132-3148.	2.2	16
33	Oxazol-2-ylidenes. A new class of stable carbenes?. <i>RSC Advances</i> , 2013, 3, 7970.	1.7	32
34	Quantum Mechanical Modeling: A Tool for the Understanding of Enzyme Reactions. <i>Biomolecules</i> , 2013, 3, 662-702.	1.8	21
35	Direct Hydride Shift Mechanism and Stereoselectivity of P450 _{nor} Confirmed by QM/MM Calculations. <i>Journal of Physical Chemistry B</i> , 2012, 116, 872-885.	1.2	23
36	Solution behavior of iron(III) and iron(II) porphyrins in DMSO and reaction with superoxide. Effect of neighboring positive charge on thermodynamics, kinetics and nature of iron(su)peroxo product. <i>Dalton Transactions</i> , 2012, 41, 546-557.	1.6	18

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37	Does Compound I Vary Significantly between Isoforms of Cytochrome P450?. <i>Journal of the American Chemical Society</i> , 2011, 133, 15464-15474.	6.6	188
38	Understanding the determinants of selectivity in drug metabolism through modeling of dextromethorphan oxidation by cytochrome P450. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 6050-6055.	3.3	98
39	Studies on an iron(III)-peroxo porphyrin. Iron(III)-peroxo or iron(II)-superoxo?. <i>Dalton Transactions</i> , 2010, 39, 2049.	1.6	33
40	Combining the chemistries of silylene and sulfur-nitrogen compounds—SiS ₂ N ₂ and related systems. <i>Dalton Transactions</i> , 2010, 39, 3256.	1.6	4
41	Nucleophilicity and electrophilicity of silylenes from a molecular electrostatic potential and dual descriptor perspectives. <i>Chemical Physics Letters</i> , 2009, 470, 180-186.	1.2	17
42	NO Bonding to Heme Groups: DFT and Correlated ab Initio Calculations. <i>Journal of Physical Chemistry A</i> , 2009, 113, 7338-7345.	1.1	84
43	Synthesis of vinca alkaloids and related compounds. Part 110: A new synthetic method for the preparation of pandoline-type alkaloid-like molecules. <i>Tetrahedron</i> , 2008, 64, 7949-7955.	1.0	4
44	Mechanism of Water Addition to Silatriafulvenes and Silapentafulvenes. <i>Organometallics</i> , 2008, 27, 2723-2729.	1.1	7
45	Silylenes: A Unified Picture of Their Stability, Acid-Base and Spin Properties, Nucleophilicity, and Electrophilicity via Computational and Conceptual Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2007, 111, 10815-10823.	1.1	40
46	Relationship between electrophilicity and spin-philicity of divalent and monovalent species of group 14 and 15 elements. <i>Computational and Theoretical Chemistry</i> , 2006, 771, 135-140.	1.5	8
47	On the Usefulness of Bond Orders and Overlap Populations to Chalcogen-Nitrogen Systems. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 69-77.	1.0	17
48	Spin-philicity and spin-donicity of simple nitrenes and phosphinidenes. <i>Chemical Physics Letters</i> , 2005, 401, 337-341.	1.2	29
49	Is there a satisfactory description of the molecular structure of Roesky's ketone?. <i>Chemical Physics Letters</i> , 2005, 413, 440-444.	1.2	11
50	Drude-type conductivity of charged sphere colloidal crystals: Density and temperature dependence. <i>Journal of Chemical Physics</i> , 2005, 123, 104903.	1.2	24
51	Hard-Soft Acid-Base Interactions of Silylenes and Germylenes. <i>Journal of Physical Chemistry A</i> , 2005, 109, 1608-1615.	1.1	66
52	NaSCN: Striking Differences Between Its Gas-Phase and Crystal-Phase Structure: A Theoretical Study. <i>ChemInform</i> , 2004, 35, no.	0.1	0
53	Spin-Philicity and Spin-Donicity of Substituted Carbenes, Silylenes, Germylenes, and Stannylenes. <i>Journal of Physical Chemistry A</i> , 2004, 108, 490-499.	1.1	60
54	NaSCN: A Striking Differences between Its Gas-Phase and Crystal-Phase Structure: A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2004, 108, 8400-8406.	1.1	9

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55	Relationship between stability and dimerization ability of silylenes. Journal of Organometallic Chemistry, 2003, 686, 112-117.	0.8	21
56	Molecular structure and internal rotation potential of perfluoro (2,4-dimethyl-3-oxa-2,4-diazapentane), (CF ₃) ₂ N=O=N(CF ₃) ₂ . Computational and Theoretical Chemistry, 2003, 620, 157-163.	1.5	0
57	Condensed Fukui Functions Derived from Stockholder Charges: Assessment of Their Performance as Local Reactivity Descriptors. Journal of Physical Chemistry A, 2002, 106, 3885-3890.	1.1	168
58	Organizing atomic partial charges into a database. Computational and Theoretical Chemistry, 2002, 589-590, 1-5.	1.5	1
59	The mechanism of biochemical NO sensing: insights from computational chemistry. Chemistry - A European Journal, 0, , .	1.7	1