

Steven O Mansoorabadi

List of Publications by Year in descending order

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papers

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430874

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Broken-Symmetry Density Functional Theory Analysis of the \hat{I}^{\ominus} Intermediate in Radical S -Adenosyl-methionine Enzymes: Evidence for a Near-Attack Conformer over an Organometallic Species. <i>Journal of the American Chemical Society</i> , 2022, 144, 3381-3385.	13.7	6
2	A noncanonical heme oxygenase specific for the degradation of c-type heme. <i>Journal of Biological Chemistry</i> , 2021, 296, 100666.	3.4	5
3	MRP.py: A Parametrizer of Post-Translationally Modified Residues. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 4424-4428.	5.4	3
4	Divergent Members of the Nitrogenase Superfamily: Tetrapyrrole Biosynthesis and Beyond. <i>ChemBioChem</i> , 2020, 21, 1723-1728.	2.6	15
5	Constant pH Accelerated Molecular Dynamics Investigation of the pH Regulation Mechanism of Dinoflagellate Luciferase. <i>Biochemistry</i> , 2018, 57, 295-299.	2.5	3
6	Properties of Intermediates in the Catalytic Cycle of Oxalate Oxidoreductase and Its Suicide Inactivation by Pyruvate. <i>Biochemistry</i> , 2017, 56, 2824-2835.	2.5	5
7	Investigation of the Dinoflagellate Bioluminescence Mechanism: Chemically Initiated Electron Exchange Luminescence or Twisted Intramolecular Charge Transfer?. <i>ChemPhotoChem</i> , 2017, 1, 383-387.	3.0	6
8	Serine Protease Catalysis: A Computational Study of Tetrahedral Intermediates and Inhibitory Adducts. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7353-7359.	2.6	14
9	The biosynthetic pathway of coenzyme F430 in methanogenic and methanotrophic archaea. <i>Science</i> , 2016, 354, 339-342.	12.6	120
10	Conformational Activation of Poly(ADP-ribose) Polymerase-1 upon DNA Binding Revealed by Small-Angle X-ray Scattering. <i>Biochemistry</i> , 2014, 53, 1779-1788.	2.5	20
11	GenK-Catalyzed C-6 Methylolation in the Biosynthesis of Gentamicin: Isolation and Characterization of a Cobalamin-Dependent Radical SAM Enzyme. <i>Journal of the American Chemical Society</i> , 2013, 135, 8093-8096.	13.7	110
12	Reaction of HppE with Substrate Analogues: Evidence for Carbon-Phosphorus Bond Cleavage by a Carbocation Rearrangement. <i>Journal of the American Chemical Society</i> , 2013, 135, 8153-8156.	13.7	18
13	Mechanistic studies of an unprecedented enzyme-catalysed 1,2-phosphono-migration reaction. <i>Nature</i> , 2013, 496, 114-118.	27.8	64
14	Analysis of UDP-Apiose/UDP-Xylose Synthase-Catalyzed Conversion of UDP-Apiose Phosphonate to UDP-Xylose Phosphonate: Implications for a Retroaldol Aldol Mechanism. <i>Journal of the American Chemical Society</i> , 2012, 134, 13946-13949.	13.7	30
15	Radical reactions of thiamin pyrophosphate in 2-oxoacid oxidoreductases. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012, 1824, 1291-1298.	2.3	19
16	Evidence for Radical-Mediated Catalysis by HppE: A Study Using Cyclopropyl and Methylene-cyclopropyl Substrate Analogues. <i>Journal of the American Chemical Society</i> , 2012, 134, 16171-16174.	13.7	17
17	Stereochemical Studies of the Type II Isopentenyl Diphosphate-Dimethylallyl Diphosphate Isomerase Implicate the FMN Coenzyme in Substrate Protonation. <i>ChemBioChem</i> , 2012, 13, 42-46.	2.6	16
18	Mechanistic Studies of the Radical S -Adenosyl-methionine Enzyme DesII: EPR Characterization of a Radical Intermediate Generated During Its Catalyzed Dehydrogenation of TDP-Quinovose. <i>Journal of the American Chemical Society</i> , 2011, 133, 7292-7295.	13.7	24

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19	Reaction of AdoMet with ThiC Generates a Backbone Free Radical. <i>Biochemistry</i> , 2009, 48, 217-219.	2.5	25
20	Radical Triplets and Suicide Inhibition in Reactions of 4-Thia-d- and 4-Thia-l-lysine with Lysine 5,6-Aminomutase. <i>Biochemistry</i> , 2009, 48, 8151-8160.	2.5	24
21	A Secondary Kinetic Isotope Effect Study of the 1-Deoxy-d-xylulose-5-phosphate Reductoisomerase-Catalyzed Reaction: Evidence for a Retroaldol-Aldol Rearrangement. <i>Journal of the American Chemical Society</i> , 2009, 131, 2048-2049.	13.7	60
22	Purification and Characterization of the Epoxidase Catalyzing the Formation of Fosfomycin from <i>Pseudomonas syringae</i> . <i>Biochemistry</i> , 2008, 47, 8726-8735.	2.5	22
23	Evidence for the Involvement of Acid/Base Chemistry in the Reaction Catalyzed by the Type II Isopentenyl Diphosphate/Dimethylallyl Diphosphate Isomerase from <i>Staphylococcus aureus</i> . <i>Biochemistry</i> , 2008, 47, 2547-2558.	2.5	31
24	The Diverse Roles of Flavin Coenzymes Nature's Most Versatile Thespians. <i>Journal of Organic Chemistry</i> , 2007, 72, 6329-6342.	3.2	156
25	Reaction of Adenosylcobalamin-Dependent Glutamate Mutase with 2-Thiolglutarate. <i>Biochemistry</i> , 2006, 45, 11650-11657.	2.5	10
26	Pulsed Electron Paramagnetic Resonance Experiments Identify the Paramagnetic Intermediates in the Pyruvate Ferredoxin Oxidoreductase Catalytic Cycle. <i>Journal of the American Chemical Society</i> , 2006, 128, 3888-3889.	13.7	35
27	Analysis of the Cob(II)alamin ⁵⁺ -Deoxy-3 ⁺ ,4 ⁺ -anhydroadenosyl Radical Triplet Spin System in the Active Site of Diol Dehydrase. <i>Biochemistry</i> , 2006, 45, 14362-14370.	2.5	17
28	EPR Spectroscopic and Computational Characterization of the Hydroxyethylidene-Thiamine Pyrophosphate Radical Intermediate of Pyruvate:Ferredoxin Oxidoreductase. <i>Biochemistry</i> , 2006, 45, 7122-7131.	2.5	66
29	Structure and Catalytic Properties of an Engineered Heterodimer of Enolase Composed of One Active and One Inactive Subunit. <i>Journal of Molecular Biology</i> , 2006, 355, 422-431.	4.2	19
30	Characterization of a Succinyl-CoA Radical ⁺ Cob(II)alamin Spin Triplet Intermediate in the Reaction Catalyzed by Adenosylcobalamin-Dependent Methylmalonyl-CoA Mutase. <i>Biochemistry</i> , 2005, 44, 3153-3158.	2.5	40
31	Effects of Electron Spin Delocalization and Non-Collinearity of Interaction Terms in EPR Triplet Powder Patterns. <i>ChemInform</i> , 2004, 35, no.	0.0	0
32	The positions of radical intermediates in the active sites of adenosylcobalamin-dependent enzymes. <i>Current Opinion in Structural Biology</i> , 2003, 13, 716-721.	5.7	20
33	Effects of Electron Spin Delocalization and Non-Collinearity of Interaction Terms in EPR Triplet Powder Patterns. <i>ACS Symposium Series</i> , 2003, , 82-96.	0.5	4