Steven O Mansoorabadi

List of Publications by Year
in descending order

33 papers	1,028 citations	430874 18 h-index	434195 31 g-index
35 all docs	35 docs citations	35 times ranked	1339 citing authors

#	Article	IF	Citations
1	The Diverse Roles of Flavin CoenzymesNature's Most Versatile Thespians. Journal of Organic Chemistry, 2007, 72, 6329-6342.	3.2	156
2	The biosynthetic pathway of coenzyme F430 in methanogenic and methanotrophic archaea. Science, 2016, 354, 339-342.	12.6	120
3	GenK-Catalyzed C-6â€² Methylation in the Biosynthesis of Gentamicin: Isolation and Characterization of a Cobalamin-Dependent Radical SAM Enzyme. Journal of the American Chemical Society, 2013, 135, 8093-8096.	13.7	110
4	EPR Spectroscopic and Computational Characterization of the Hydroxyethylidene-Thiamine Pyrophosphate Radical Intermediate of Pyruvate:Ferredoxin Oxidoreductaseâ€. Biochemistry, 2006, 45, 7122-7131.	2.5	66
5	Mechanistic studies of an unprecedented enzyme-catalysed 1,2-phosphono-migration reaction. Nature, 2013, 496, 114-118.	27.8	64
6	A Secondary Kinetic Isotope Effect Study of the 1-Deoxy-d-xylulose-5-phosphate Reductoisomerase-Catalyzed Reaction: Evidence for a Retroaldol-Aldol Rearrangement. Journal of the American Chemical Society, 2009, 131, 2048-2049.	13.7	60
7	Characterization of a Succinyl-CoA Radicalâ^'Cob(II)alamin Spin Triplet Intermediate in the Reaction Catalyzed by Adenosylcobalamin-Dependent Methylmalonyl-CoA Mutaseâ€. Biochemistry, 2005, 44, 3153-3158.	2.5	40
8	Pulsed Electron Paramagnetic Resonance Experiments Identify the Paramagnetic Intermediates in the Pyruvate Ferredoxin Oxidoreductase Catalytic Cycle. Journal of the American Chemical Society, 2006, 128, 3888-3889.	13.7	35
9	Evidence for the Involvement of Acid/Base Chemistry in the Reaction Catalyzed by the Type II Isopentenyl Diphosphate/Dimethylallyl Diphosphate Isomerase from Staphylococcus aureus. Biochemistry, 2008, 47, 2547-2558.	2.5	31
10	Analysis of UDP-<scp>d</scp>-Apiose/UDP-<scp>d</scp>-Xylose Synthase-Catalyzed Conversion of UDP-<scp>d</scp>-Apiose Phosphonate to UDP-<scp>d</scp>-Xylose Phosphonate: Implications for a Retroaldolâ€“Aldol Mechanism. Journal of the American Chemical Society, 2012, 134, 13946-13949.	13.7	30
11	Reaction of AdoMet with ThiC Generates a Backbone Free Radical. Biochemistry, 2009, 48, 217-219.	2.5	25
12	Radical Triplets and Suicide Inhibition in Reactions of 4-Thia-d- and 4-Thia-l-lysine with Lysine 5,6-Aminomutase. Biochemistry, 2009, 48, 8151-8160.	2.5	24
13	Mechanistic Studies of the Radical S-Adenosyl-<scp>l</scp>-methionine Enzyme DesII: EPR Characterization of a Radical Intermediate Generated During Its Catalyzed Dehydrogenation of TDP-<scp>d</scp>-Quinovose. Journal of the American Chemical Society, 2011, 133, 7292-7295.	13.7	24
14	Purification and Characterization of the Epoxidase Catalyzing the Formation of Fosfomycin from Pseudomonas syringae. Biochemistry, 2008, 47, 8726-8735.	2.5	22
15	The positions of radical intermediates in the active sites of adenosylcobalamin-dependent enzymes. Current Opinion in Structural Biology, 2003, 13, 716-721.	5.7	20
16	Conformational Activation of Poly(ADP-ribose) Polymerase-1 upon DNA Binding Revealed by Small-Angle X-ray Scattering. Biochemistry, 2014, 53, 1779-1788.	2.5	20
17	Structure and Catalytic Properties of an Engineered Heterodimer of Enolase Composed of One Active and One Inactive Subunit. Journal of Molecular Biology, 2006, 355, 422-431.	4.2	19
18	Radical reactions of thiamin pyrophosphate in 2-oxoacid oxidoreductases. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2012, 1824, 1291-1298.	2.3	19

#	Article	IF	Citations
19	Reaction of HppE with Substrate Analogues: Evidence for Carbonâ€“Phosphorus Bond Cleavage by a Carbocation Rearrangement. Journal of the American Chemical Society, 2013, 135, 8153-8156.	13.7	18
20	Analysis of the Cob(II)alaminâ'5â€˜-Deoxy-3â€˜,4â€˜-anhydroadenosyl Radical Triplet Spin System in the Active Site of Diol Dehydrase. Biochemistry, 2006, 45, 14362-14370.	2.5	17
21	Evidence for Radical-Mediated Catalysis by HppE: A Study Using Cyclopropyl and Methylenecyclopropyl Substrate Analogues. Journal of the American Chemical Society, 2012, 134, 16171-16174.	13.7	17
22	Stereochemical Studies of the Type II Isopentenyl Diphosphateâ€“Dimethylallyl Diphosphate Isomerase Implicate the FMN Coenzyme in Substrate Protonation. ChemBioChem, 2012, 13, 42-46.	2.6	16
23	Divergent Members of the Nitrogenase Superfamily: Tetrapyrrole Biosynthesis and Beyond. ChemBioChem, 2020, 21, 1723-1728.	2.6	15
24	Serine Protease Catalysis: A Computational Study of Tetrahedral Intermediates and Inhibitory Adducts. Journal of Physical Chemistry B, 2016, 120, 7353-7359.	2.6	14
25	Reaction of Adenosylcobalamin-Dependent Glutamate Mutase with 2-Thiolglutarateâ€. Biochemistry, 2006, 45, 11650-11657.	2.5	10
26	Investigation of the Dinoflagellate Bioluminescence Mechanism: Chemically Initiated Electron Exchange Luminescence or Twisted Intramolecular Charge Transfer?. ChemPhotoChem, 2017, 1, 383-387.	3.0	6
27	Broken-Symmetry Density Functional Theory Analysis of the Î© Intermediate in Radical S-Adenosyl-<scp>l</scp>-methionine Enzymes: Evidence for a Near-Attack Conformer over an Organometallic Species. Journal of the American Chemical Society, 2022, 144, 3381-3385.	13.7	6
28	Properties of Intermediates in the Catalytic Cycle of Oxalate Oxidoreductase and Its Suicide Inactivation by Pyruvate. Biochemistry, 2017, 56, 2824-2835.	2.5	5
29	A noncanonical heme oxygenase specific for the degradation of c-type heme. Journal of Biological Chemistry, 2021, 296, 100666.	3.4	5
30	Effects of Electron Spin Delocalization and Non-Collinearity of Interaction Terms in EPR Triplet Powder Patterns. ACS Symposium Series, 2003, , 82-96.	0.5	4
31	Constant pH Accelerated Molecular Dynamics Investigation of the pH Regulation Mechanism of Dinoflagellate Luciferase. Biochemistry, 2018, 57, 295-299.	2.5	3
32	MRP.py: A Parametrizer of Post-Translationally Modified Residues. Journal of Chemical Information and Modeling, 2020, 60, 4424-4428.	5.4	3
33	Effects of Electron Spin Delocalization and Non-Collinearity of Interaction Terms in EPR Triplet Powder Patterns. ChemInform, 2004, 35, no.	0.0	0