

Spencer C Peck

List of Publications by Year in descending order

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17
docs citations

17
times ranked

952
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of the dehydrophos biosynthetic enzymes to prepare antimicrobial analogs of alaphosphin. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 822-829.	1.5	7
2	A glycy radical enzyme enables hydrogen sulfide production by the human intestinal bacterium <i>Bilophila wadsworthia</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3171-3176.	3.3	118
3	Oâ€H Activation by an Unexpected Ferryl Intermediate during Catalysis by 2-Hydroxyethylphosphonate Dioxygenase. <i>Journal of the American Chemical Society</i> , 2017, 139, 2045-2052.	6.6	31
4	A prominent glycy radical enzyme in human gut microbiomes metabolizes <i>trans</i> -4-hydroxy- <i>l</i> -proline. <i>Science</i> , 2017, 355, .	6.0	126
5	Structural basis for methylphosphonate biosynthesis. <i>Science</i> , 2017, 358, 1336-1339.	6.0	39
6	Go it alone: four-electron oxidations by mononuclear non-heme iron enzymes. <i>Journal of Biological Inorganic Chemistry</i> , 2017, 22, 381-394.	1.1	36
7	A Common Late-Stage Intermediate in Catalysis by 2-Hydroxyethyl-phosphonate Dioxygenase and Methylphosphonate Synthase. <i>Journal of the American Chemical Society</i> , 2015, 137, 3217-3220.	6.6	21
8	Oxygen-18 Kinetic Isotope Effects of Nonheme Iron Enzymes HEPD and MPnS Support Iron(III) Superoxide as the Hydrogen Abstraction Species. <i>Journal of the American Chemical Society</i> , 2015, 137, 10448-10451.	6.6	33
9	Structure and Function of Phosphonoacetaldehyde Dehydrogenase: The Missing Link in Phosphonoacetate Formation. <i>Chemistry and Biology</i> , 2014, 21, 125-135.	6.2	24
10	Phosphonate biosynthesis and catabolism: a treasure trove of unusual enzymology. <i>Current Opinion in Chemical Biology</i> , 2013, 17, 580-588.	2.8	81
11	Positive and radical. <i>Nature</i> , 2013, 496, 34-35.	13.7	0
12	Evidence that the Fosfomycin-Producing Epoxidase, HppE, Is a Nonâ€Heme-Iron Peroxidase. <i>Science</i> , 2013, 342, 991-995.	6.0	69
13	Mechanistic Investigation of Methylphosphonate Synthase, a Non-Heme Iron-Dependent Oxygenase. <i>Journal of the American Chemical Society</i> , 2012, 134, 15660-15663.	6.6	24
14	Discovery and Biosynthesis of Phosphonate and Phosphinate Natural Products. <i>Methods in Enzymology</i> , 2012, 516, 101-123.	0.4	20
15	Stereochemistry of hydride transfer by group III alcohol dehydrogenases involved in phosphonate biosynthesis. <i>MedChemComm</i> , 2012, 3, 967.	3.5	6
16	Mechanism and Substrate Recognition of 2-Hydroxyethylphosphonate Dioxygenase. <i>Biochemistry</i> , 2011, 50, 6598-6605.	1.2	20
17	On the Stereochemistry of 2-Hydroxyethylphosphonate Dioxygenase. <i>Journal of the American Chemical Society</i> , 2011, 133, 4236-4239.	6.6	38