

Stephen Y K Seah

List of Publications by Citations

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31
papers

746
citations

19
h-index

27
g-index

31
ext. papers

824
ext. citations

4.2
avg, IF

3.91
L-index

#	Paper	IF	Citations
31	Functional characterization of an aminotransferase required for pyoverdine siderophore biosynthesis in <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Bacteriology</i> , 2004 , 186, 5596-602	3.5	54
30	Characterization of a phosphotriesterase-like lactonase from <i>Sulfolobus solfataricus</i> and its immobilization for disruption of quorum sensing. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 1181-6	4.8	46
29	Comparative specificities of two evolutionarily divergent hydrolases involved in microbial degradation of polychlorinated biphenyls. <i>Journal of Bacteriology</i> , 2001 , 183, 1511-6	3.5	46
28	Heterologous expression, purification, and characterization of an l-ornithine N(5)-hydroxylase involved in pyoverdine siderophore biosynthesis in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2006 , 188, 7205-10	3.5	41
27	Kinetic and structural insight into the mechanism of BphD, a C-C bond hydrolase from the biphenyl degradation pathway. <i>Biochemistry</i> , 2006 , 45, 11071-86	3.2	40
26	Characterization of an aldolase-dehydrogenase complex that exhibits substrate channeling in the polychlorinated biphenyls degradation pathway. <i>Biochemistry</i> , 2009 , 48, 6551-8	3.2	35
25	Comparison of two metal-dependent pyruvate aldolases related by convergent evolution: substrate specificity, kinetic mechanism, and substrate channeling. <i>Biochemistry</i> , 2010 , 49, 3774-82	3.2	34
24	Purification and biochemical characterization of a pyruvate-specific class II aldolase, Hpal. <i>Biochemistry</i> , 2005 , 44, 9447-55	3.2	34
23	Rational design of stereoselectivity in the class II pyruvate aldolase BphI. <i>Journal of the American Chemical Society</i> , 2012 , 134, 507-13	16.4	33
22	Characterization of a C-C bond hydrolase from <i>Sphingomonas wittichii</i> RW1 with novel specificities towards polychlorinated biphenyl metabolites. <i>Journal of Bacteriology</i> , 2007 , 189, 4038-45	3.5	33
21	The tautomeric half-reaction of BphD, a C-C bond hydrolase. Kinetic and structural evidence supporting a key role for histidine 265 of the catalytic triad. <i>Journal of Biological Chemistry</i> , 2007 , 282, 19894-904	5.4	33
20	Secretoglobin 1A1 and 1A1A differentially regulate neutrophil reactive oxygen species production, phagocytosis and extracellular trap formation. <i>PLoS ONE</i> , 2014 , 9, e96217	3.7	31
19	Single amino acid substitution in <i>Bacillus sphaericus</i> phenylalanine dehydrogenase dramatically increases its discrimination between phenylalanine and tyrosine substrates. <i>Biochemistry</i> , 2002 , 41, 11390-7	3.2	29
18	Characterization of an aldolase-dehydrogenase complex from the cholesterol degradation pathway of <i>Mycobacterium tuberculosis</i> . <i>Biochemistry</i> , 2013 , 52, 3502-11	3.2	27
17	Structural and kinetic characterization of 4-hydroxy-4-methyl-2-oxoglutarate/4-carboxy-4-hydroxy-2-oxoadipate aldolase, a protocatechuate degradation enzyme evolutionarily convergent with the Hpal and DmpG pyruvate aldolases. <i>Journal of Biological Chemistry</i> , 2010 , 285, 36108-15	5.4	27
16	Probing the molecular basis of substrate specificity, stereospecificity, and catalysis in the class II pyruvate aldolase, BphI. <i>Biochemistry</i> , 2011 , 50, 3559-69	3.2	24
15	Crystal structure of reaction intermediates in pyruvate class II aldolase: substrate cleavage, enolate stabilization, and substrate specificity. <i>Journal of Biological Chemistry</i> , 2012 , 287, 36208-21	5.4	22

14	Investigating the molecular determinants for substrate channeling in BphI-BphJ, an aldolase-dehydrogenase complex from the polychlorinated biphenyls degradation pathway. <i>Biochemistry</i> , 2011 , 50, 8407-16	3.2	22
13	Characterization of novel acyl coenzyme A dehydrogenases involved in bacterial steroid degradation. <i>Journal of Bacteriology</i> , 2015 , 197, 1360-7	3.5	19
12	Characterization of an Aldolase Involved in Cholesterol Side Chain Degradation in Mycobacterium tuberculosis. <i>Journal of Bacteriology</i> , 2018 , 200,	3.5	19
11	Protein-protein interactions and substrate channeling in orthologous and chimeric aldolase-dehydrogenase complexes. <i>Biochemistry</i> , 2012 , 51, 1942-52	3.2	16
10	Kinetic analysis of phenylalanine dehydrogenase mutants designed for aliphatic amino acid dehydrogenase activity with guidance from homology-based modelling. <i>FEBS Journal</i> , 2003 , 270, 4628-34		14
9	Substrate specificity, substrate channeling, and allostery in BphJ: an acylating aldehyde dehydrogenase associated with the pyruvate aldolase BphI. <i>Biochemistry</i> , 2012 , 51, 4558-67	3.2	12
8	Structural and Kinetic Characterization of the 4-Carboxy-2-hydroxymuconate Hydratase from the Gallate and Protocatechuate 4,5-Cleavage Pathways of Pseudomonas putida KT2440. <i>Journal of Biological Chemistry</i> , 2016 , 291, 7669-86	5.4	12
7	The steroid side-chain-cleaving aldolase Ltp2-ChsH2 is a thiolase superfamily member with a radically repurposed active site. <i>Journal of Biological Chemistry</i> , 2019 , 294, 11934-11943	5.4	11
6	The role of a conserved histidine residue in a pyruvate-specific Class II aldolase. <i>FEBS Letters</i> , 2008 , 582, 3385-8	3.8	10
5	Determination of the metal ion dependence and substrate specificity of a hydratase involved in the degradation pathway of biphenyl/chlorobiphenyl. <i>FEBS Journal</i> , 2005 , 272, 966-74	5.7	8
4	Biochemical and structural analysis of RraA proteins to decipher their relationships with 4-hydroxy-4-methyl-2-oxoglutarate/4-carboxy-4-hydroxy-2-oxoadipate aldolases. <i>Biochemistry</i> , 2014 , 53, 542-53	3.2	6
3	Rational approaches for engineering novel functionalities in carbon-carbon bond forming enzymes. <i>Computational and Structural Biotechnology Journal</i> , 2012 , 2, e201209003	6.8	5
2	A Key Glycine in Bacterial Steroid-Degrading Acyl-CoA Dehydrogenases Allows Flavin-Ring Repositioning and Modulates Substrate Side Chain Specificity. <i>Biochemistry</i> , 2020 , 59, 4081-4092	3.2	2
1	Investigation into the Mode of Phosphate Activation in the 4-Hydroxy-4-Methyl-2-Oxoglutarate/4-Carboxy-4-Hydroxy-2-Oxoadipate Aldolase from Pseudomonas putida F1. <i>PLoS ONE</i> , 2016 , 11, e0164556	3.7	1