

Sam Hart

List of Publications by Year in descending order

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24
papers

777
citations

623734

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h-index

580821

25
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all docs

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docs citations

25
times ranked

1190
citing authors

#	ARTICLE	IF	CITATIONS
1	Stereoselectivity and Structural Characterization of an Imine Reductase (IREd) from <i>Amycolatopsis orientalis</i> . ACS Catalysis, 2016, 6, 3880-3889.	11.2	96
2	Structure and Activity of NADPH-Dependent Reductase Q1EQE0 from <i>Streptomyces kanamyceticus</i> , which Catalyses the Selective Reduction of an Imine Substrate. ChemBioChem, 2013, 14, 1372-1379.	2.6	90
3	The Structure of Monoamine Oxidase from <i>Aspergillus niger</i> Provides a Molecular Context for Improvements in Activity Obtained by Directed Evolution. Journal of Molecular Biology, 2008, 384, 1218-1231.	4.2	76
4	Iridium(III) Hydrido N-Heterocyclic Carbene-Phosphine Complexes as Catalysts in Magnetization Transfer Reactions. Inorganic Chemistry, 2013, 52, 13453-13461.	4.0	69
5	Structure, Activity and Stereoselectivity of NADPH-Dependent Oxidoreductases Catalysing the Selective Reduction of the Imine Substrate 2-Methylpyrroline. ChemBioChem, 2015, 16, 1052-1059.	2.6	56
6	Structures of Alcohol Dehydrogenases from <i>Ralstonia</i> and <i>Sphingobium</i> spp. Reveal the Molecular Basis for Their Recognition of Bulky Ketones. Topics in Catalysis, 2014, 57, 356-365.	2.8	48
7	Halogen- and Hydrogen-Bonded Salts and Co-crystals Formed from 2,3,5,6-tetrafluorophenol and Cyclic Secondary and Tertiary Amines: Orthogonal and Non-orthogonal Halogen and Hydrogen Bonding, and Synthetic Analogues of Halogen-Bonded Biological Systems. Chemistry - A European Journal, 2014, 20, 6721-6732.	3.3	43
8	A Flavoprotein Monooxygenase that Catalyses a Baeyer-Villiger Reaction and Thioether Oxidation Using NADH as the Nicotinamide Cofactor. ChemBioChem, 2012, 13, 872-878.	2.6	39
9	A Covalent Succinylcysteine-like Intermediate in the Enzyme-Catalyzed Transformation of Maleate to Fumarate by Maleate Isomerase. Journal of the American Chemical Society, 2010, 132, 11455-11457.	13.7	38
10	The 1.5-Å... Structure of XplA-heme, an Unusual Cytochrome P450 Heme Domain That Catalyzes Reductive Biotransformation of Royal Demolition Explosive. Journal of Biological Chemistry, 2009, 284, 28467-28475.	3.4	32
11	Mutational analysis of phenolic acid decarboxylase from <i>Bacillus subtilis</i> (BsPAD), which converts bio-derived phenolic acids to styrene derivatives. Catalysis Science and Technology, 2012, 2, 1568.	4.1	32
12	Using coligands to gain mechanistic insight into iridium complexes hyperpolarized with <i>para</i> -hydrogen. Chemical Science, 2019, 10, 5235-5245.	7.4	20
13	Bridging the Gap from Mononuclear Pd ^{II} Precatalysts to Pd Nanoparticles: Identification of Intermediate Linear [Pd ₃ (XPh) ₃] ₂ Clusters as Catalytic Species for Suzuki-Miyaura Couplings (X = P, As). Organometallics, 2021, 40, 3560-3570.	2.3	17
14	Filling a Niche in Ligand Space with Bulky, Electron-Poor Phosphorus(III) Alkoxides. Chemistry - A European Journal, 2019, 25, 2262-2271.	3.3	15
15	Structures of a γ -aminobutyrate (GABA) transaminase from the triazine-degrading organism <i>Arthrobacter aurescens</i> TC1 in complex with PLP and with its external aldimine PLP-GABA adduct. Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 1175-1180.	0.7	14
16	Iridium Cyclooctene Complex That Forms a Hyperpolarization Transfer Catalyst before Converting to a Binuclear C-H Bond Activation Product Responsible for Hydrogen Isotope Exchange. Inorganic Chemistry, 2016, 55, 11639-11643.	4.0	14
17	Homogeneous and silica-supported zinc complexes for the synthesis of propylene carbonate from propane-1,2-diol and carbon dioxide. Catalysis Science and Technology, 2016, 6, 4824-4831.	4.1	14
18	Condensation of free volume in structures of nematic and hexatic liquid crystals. Liquid Crystals, 2019, 46, 114-123.	2.2	14

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19	Structural analysis of five-coordinate aluminium(salen) complexes and its relationship to their catalytic activity. Dalton Transactions, 2021, 50, 587-598.	3.3	14
20	Structures of the Apo and FAD-Bound Forms of 2-Hydroxybiphenyl 3-monoxygenase (HbpA) Locate Activity Hotspots Identified by Using Directed Evolution. ChemBioChem, 2015, 16, 968-976.	2.6	11
21	Structure and function of a glycoside hydrolase family 8 endoxylanase from <i>Teredinibacter turnerae</i> . Acta Crystallographica Section D: Structural Biology, 2018, 74, 946-955.	2.3	10
22	Ring-Opening Metathesis Polymerization of Tertiary Amide Monomers Derived from a Biobased Oxanorbornene. ACS Sustainable Chemistry and Engineering, 2018, 6, 9744-9752.	6.7	8
23	Engineering mesophase stability and structure <i>via</i> incorporation of cyclic terminal groups. Journal of Materials Chemistry C, 2022, 10, 5934-5943.	5.5	4
24	Synthesis of cytotoxic spirocyclic imides from a biomass-derived oxanorbornene. Tetrahedron, 2021, 77, 131754.	1.9	2