

Gustav Oberdorfer

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5336514/publications.pdf>

Version: 2024-02-01

27
papers

1,828
citations

430754

18
h-index

526166

27
g-index

28
all docs

28
docs citations

28
times ranked

3009
citing authors

#	ARTICLE	IF	CITATIONS
1	High thermodynamic stability of parametrically designed helical bundles. <i>Science</i> , 2014, 346, 481-485.	6.0	264
2	De novo design of protein homo-oligomers with modular hydrogen-bond network-mediated specificity. <i>Science</i> , 2016, 352, 680-687.	6.0	262
3	Improved molecular replacement by density- and energy-guided protein structure optimization. <i>Nature</i> , 2011, 473, 540-543.	13.7	226
4	Asymmetric Bioreduction of C=C Bonds using Enoate Reductases OPR1, OPR3 and YqjM: Enzyme-Based Stereocontrol. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 411-418.	2.1	178
5	Fusion of Binding Domains to <i>Thermobifida cellulolytica</i> Cutinase to Tune Sorption Characteristics and Enhancing PET Hydrolysis. <i>Biomacromolecules</i> , 2013, 14, 1769-1776.	2.6	137
6	Principles for designing proteins with cavities formed by curved β^2 sheets. <i>Science</i> , 2017, 355, 201-206.	6.0	117
7	De novo design of self-assembling helical protein filaments. <i>Science</i> , 2018, 362, 705-709.	6.0	112
8	De novo design of a non-local β^2 -sheet protein with high stability and accuracy. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 1028-1034.	3.6	101
9	Engineering V-Type Nerve Agents Detoxifying Enzymes Using Computationally Focused Libraries. <i>ACS Chemical Biology</i> , 2013, 8, 2394-2403.	1.6	91
10	Computational design of a homotrimeric metalloprotein with a trisbipyridyl core. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 15012-15017.	3.3	41
11	An Algorithm for the Deconvolution of Mass Spectroscopic Patterns in Isotope Labeling Studies. Evaluation for the Hydrogen-Deuterium Exchange Reaction in Ketones. <i>Journal of Organic Chemistry</i> , 2007, 72, 5778-5783.	1.7	40
12	Vascular Bioactivation of Nitroglycerin by Aldehyde Dehydrogenase-2. <i>Journal of Biological Chemistry</i> , 2012, 287, 38124-38134.	1.6	33
13	Stereopreferences of Old Yellow Enzymes: Structure Correlations and Sequence Patterns in Enoate Reductases. <i>ChemCatChem</i> , 2011, 3, 1562-1566.	1.8	32
14	Structure of a Berberine Bridge Enzyme-Like Enzyme with an Active Site Specific to the Plant Family Brassicaceae. <i>PLoS ONE</i> , 2016, 11, e0156892.	1.1	30
15	Stereocomplementary Asymmetric Reduction of Bulky Bulky Ketones by Biocatalytic Hydrogen Transfer. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 2539-2543.	1.2	25
16	Stereocontrol Strategies in the Asymmetric Bioreduction of Alkenes. <i>Synlett</i> , 2012, 23, 1857-1864.	1.0	23
17	Characterization of the PLP-dependent aminotransferase NikK from <i>Streptomyces tendae</i> and its putative role in nikkomycin biosynthesis. <i>FEBS Journal</i> , 2011, 278, 4122-4135.	2.2	19
18	Epoxide-Hydrolase-Initiated Hydrolysis/Rearrangement Cascade of a Methylene-Interrupted Bis-Epoxide Yields Chiral THF Moieties without Involvement of a α -Cyclase. <i>ChemBioChem</i> , 2009, 10, 1697-1704.	1.3	18

#	ARTICLE	IF	CITATIONS
19	De novo design of a homo-trimeric amantadine-binding protein. <i>ELife</i> , 2019, 8, .	2.8	18
20	The Crystal Structure of D-Threonine Aldolase from <i>Alcaligenes xylosoxidans</i> Provides Insight into a Metal Ion Assisted PLP-Dependent Mechanism. <i>PLoS ONE</i> , 2015, 10, e0124056.	1.1	16
21	Structural and Functional Characterization of NikO, an Enolpyruvyl Transferase Essential in Nikkomycin Biosynthesis. <i>Journal of Biological Chemistry</i> , 2012, 287, 31427-31436.	1.6	14
22	The Structure of Glycerol Trinitrate Reductase NerA from <i>Agrobacterium radiobacter</i> Reveals the Molecular Reason for Nitro- and Ene-Reductase Activity in OYE Homologues. <i>ChemBioChem</i> , 2013, 14, 836-845.	1.3	10
23	Essential Functional Interplay of the Catalytic Groups in Acid Phosphatase. <i>ACS Catalysis</i> , 2022, 12, 3357-3370.	5.5	5
24	A Novel High-Throughput Nanopore-Sequencing-Based Strategy for Rapid and Automated S-Protein Typing of SARS-CoV-2 Variants. <i>Viruses</i> , 2021, 13, 2548.	1.5	5
25	Computational backbone design enables soluble engineering of transferrin receptor apical domain. <i>Proteins: Structure, Function and Bioinformatics</i> , 2020, 88, 1569-1577.	1.5	4
26	A local platform for user-friendly FAIR data management and reproducible analytics. <i>Journal of Biotechnology</i> , 2021, 341, 43-50.	1.9	4
27	Derivatives of Natural Organocatalytic Cofactors and Artificial Organocatalytic Cofactors as Catalysts in Enzymes. <i>ChemBioChem</i> , 2022, 23, .	1.3	3