

Gustav Oberdorfer

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

25
papers

1,396
citations

16
h-index

28
g-index

28
ext. papers

1,651
ext. citations

11.3
avg, IF

3.78
L-index

#	Paper	IF	Citations
25	High thermodynamic stability of parametrically designed helical bundles. <i>Science</i> , 2014 , 346, 481-485	33.3	196
24	Improved molecular replacement by density- and energy-guided protein structure optimization. <i>Nature</i> , 2011 , 473, 540-3	50.4	196
23	De novo design of protein homo-oligomers with modular hydrogen-bond network-mediated specificity. <i>Science</i> , 2016 , 352, 680-7	33.3	194
22	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	5.6	165
21	Fusion of binding domains to <i>Thermobifida cellulolytica</i> cutinase to tune sorption characteristics and enhancing PET hydrolysis. <i>Biomacromolecules</i> , 2013 , 14, 1769-76	6.9	102
20	Principles for designing proteins with cavities formed by curved β sheets. <i>Science</i> , 2017 , 355, 201-206	33.3	82
19	De novo design of self-assembling helical protein filaments. <i>Science</i> , 2018 , 362, 705-709	33.3	78
18	Engineering V-type nerve agents detoxifying enzymes using computationally focused libraries. <i>ACS Chemical Biology</i> , 2013 , 8, 2394-403	4.9	71
17	De novo design of a non-local β sheet protein with high stability and accuracy. <i>Nature Structural and Molecular Biology</i> , 2018 , 25, 1028-1034	17.6	54
16	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	11.5	33
15	Stereopreferences of Old Yellow Enzymes: Structure Correlations and Sequence Patterns in Enoate Reductases. <i>ChemCatChem</i> , 2011 , 3, 1562-1566	5.2	30
14	Vascular bioactivation of nitroglycerin by aldehyde dehydrogenase-2: reaction intermediates revealed by crystallography and mass spectrometry. <i>Journal of Biological Chemistry</i> , 2012 , 287, 38124-3454	5.4	24
13	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, 5778-83	4.2	24
12	Stereocomplementary Asymmetric Reduction of Bulky Bulky Ketones by Biocatalytic Hydrogen Transfer. <i>European Journal of Organic Chemistry</i> , 2008 , 2008, 2539-2543	3.2	24
11	Stereocontrol Strategies in the Asymmetric Bioreduction of Alkenes. <i>Synlett</i> , 2012 , 23, 1857-1864	2.2	22
10	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	3.7	20
9	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, 4122-35	5.7	16

- 8 Epoxide-hydrolase-initiated hydrolysis/rearrangement cascade of a methylene-interrupted bis-epoxide yields chiral THF moieties without involvement of a "cyclase". *ChemBioChem*, **2009**, 10, 1697-1704 3.8 15
- 7 The crystal structure of D-threonine aldolase from *Alcaligenes xylosoxidans* provides insight into a metal ion assisted PLP-dependent mechanism. *PLoS ONE*, **2015**, 10, e0124056 3.7 14
- 6 Structural and functional characterization of NikO, an enolpyruvyl transferase essential in nikkomycin biosynthesis. *Journal of Biological Chemistry*, **2012**, 287, 31427-36 5.4 12
- 5 The structure of glycerol trinitrate reductase NerA from *Agrobacterium radiobacter* reveals the molecular reason for nitro- and ene-reductase activity in OYE homologues. *ChemBioChem*, **2013**, 14, 836-45 3.8 10
- 4 De novo design of a homo-trimeric amantadine-binding protein. *ELife*, **2019**, 8, 8.9 10
- 3 A local platform for user-friendly FAIR data management and reproducible analytics. *Journal of Biotechnology*, **2021**, 341, 43-50 3.7 2
- 2 Computational backbone design enables soluble engineering of transferrin receptor apical domain. *Proteins: Structure, Function and Bioinformatics*, **2020**, 88, 1569-1577 4.2 1
- 1 Essential Functional Interplay of the Catalytic Groups in Acid Phosphatase.. *ACS Catalysis*, **2022**, 12, 3357-3370 3.7 0