

# Gustav Oberdorfer

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/5336514/gustav-oberdorfer-publications-by-year.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Essential Functional Interplay of the Catalytic Groups in Acid Phosphatase.. <i>ACS Catalysis</i> , <b>2022</b> , 12, 3357-3370	13.1	3370
24	A local platform for user-friendly FAIR data management and reproducible analytics. <i>Journal of Biotechnology</i> , <b>2021</b> , 341, 43-50	3.7	2
23	Computational backbone design enables soluble engineering of transferrin receptor apical domain. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2020</b> , 88, 1569-1577	4.2	1
22	De novo design of a homo-trimeric amantadine-binding protein. <i>ELife</i> , <b>2019</b> , 8,	8.9	10
21	De novo design of self-assembling helical protein filaments. <i>Science</i> , <b>2018</b> , 362, 705-709	33.3	78
20	De novo design of a non-local $\beta$ sheet protein with high stability and accuracy. <i>Nature Structural and Molecular Biology</i> , <b>2018</b> , 25, 1028-1034	17.6	54
19	Principles for designing proteins with cavities formed by curved $\beta$ sheets. <i>Science</i> , <b>2017</b> , 355, 201-206	33.3	82
18	Structure of a Berberine Bridge Enzyme-Like Enzyme with an Active Site Specific to the Plant Family Brassicaceae. <i>PLoS ONE</i> , <b>2016</b> , 11, e0156892	3.7	20
17	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> , <b>2016</b> , 113, 15012-15017	11.5	33
16	De novo design of protein homo-oligomers with modular hydrogen-bond network-mediated specificity. <i>Science</i> , <b>2016</b> , 352, 680-7	33.3	194
15	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> , <b>2015</b> , 10, e0124056	3.7	14
14	High thermodynamic stability of parametrically designed helical bundles. <i>Science</i> , <b>2014</b> , 346, 481-485	33.3	196
13	Fusion of binding domains to <i>Thermobifida cellulolytica</i> cutinase to tune sorption characteristics and enhancing PET hydrolysis. <i>Biomacromolecules</i> , <b>2013</b> , 14, 1769-76	6.9	102
12	Engineering V-type nerve agents detoxifying enzymes using computationally focused libraries. <i>ACS Chemical Biology</i> , <b>2013</b> , 8, 2394-403	4.9	71
11	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> , <b>2013</b> , 14, 836-845	3.8	10
10	Structural and functional characterization of NikO, an enolpyruvyl transferase essential in nikkomycin biosynthesis. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 31427-36	5.4	12
9	Stereocontrol Strategies in the Asymmetric Bioreduction of Alkenes. <i>Synlett</i> , <b>2012</b> , 23, 1857-1864	2.2	22

8	Vascular bioactivation of nitroglycerin by aldehyde dehydrogenase-2: reaction intermediates revealed by crystallography and mass spectrometry. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 38124-34 <sup>5.4</sup>	24
7	Characterization of the PLP-dependent aminotransferase NikK from <i>Streptomyces tendae</i> and its putative role in nikkomycin biosynthesis. <i>FEBS Journal</i> , <b>2011</b> , 278, 4122-35	5.7 16
6	Improved molecular replacement by density- and energy-guided protein structure optimization. <i>Nature</i> , <b>2011</b> , 473, 540-3	50.4 196
5	Stereopreferences of Old Yellow Enzymes: Structure Correlations and Sequence Patterns in Enoate Reductases. <i>ChemCatChem</i> , <b>2011</b> , 3, 1562-1566	5.2 30
4	Epoxide-hydrolase-initiated hydrolysis/rearrangement cascade of a methylene-interrupted bis-epoxide yields chiral THF moieties without involvement of a "cyclase". <i>ChemBioChem</i> , <b>2009</b> , 10, 1697-704 <sup>3.8</sup>	15
3	Stereocomplementary Asymmetric Reduction of BulkyBulky Ketones by Biocatalytic Hydrogen Transfer. <i>European Journal of Organic Chemistry</i> , <b>2008</b> , 2008, 2539-2543	3.2 24
2	Asymmetric Bioreduction of C?C Bonds using Enoate Reductases OPR1, OPR3 and YqjM: Enzyme-Based Stereocontrol. <i>Advanced Synthesis and Catalysis</i> , <b>2008</b> , 350, 411-418	5.6 165
1	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> , <b>2007</b> , 72, 5778-83	4.2 24