Oliver Einsle

List of Publications by Year
in descending order

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93	7,362	87843 38	56687 83
papers	citations	h-index	g-index

103	103	103	5911
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nitrogenase MoFe-Protein at 1.16 A Resolution: A Central Ligand in the FeMo-Cofactor. Science, 2002, 297, 1696-1700.	6.0	1,041
2	Structural basis of biological nitrogen fixation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2005, 363, 971-984.	1.6	852
3	Evidence for Interstitial Carbon in Nitrogenase FeMo Cofactor. Science, 2011, 334, 940-940.	6.0	774
4	Structure of cytochrome c nitrite reductase. Nature, 1999, 400, 476-480.	13.7	352
5	Ligand binding to the FeMo-cofactor: Structures of CO-bound and reactivated nitrogenase. Science, 2014, 345, 1620-1623.	6.0	343
6	A bound reaction intermediate sheds light on the mechanism of nitrogenase. Science, 2018, 359, 1484-1489.	6.0	245
7	Selective Sirt2 inhibition by ligand-induced rearrangement of the active site. Nature Communications, 2015, 6, 6263.	5.8	222
8	The structure of vanadium nitrogenase reveals an unusual bridging ligand. Nature Chemical Biology, 2017, 13, 956-960.	3.9	222
9	Structural Enzymology of Nitrogenase Enzymes. Chemical Reviews, 2020, 120, 4969-5004.	23.0	194
10	N2O binding at a [4Cu:2S] copperâ€“sulphur cluster in nitrous oxide reductase. Nature, 2011, 477, 234-237.	13.7	178
11	Identification of a spin-coupled Mo(<scp>iii</scp>) in the nitrogenase ironâ€“molybdenum cofactor. Chemical Science, 2014, 5, 3096-3103.	3.7	164
12	Structure of the non-redox-active tungsten/[4Fe:4S] enzyme acetylene hydratase. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 3073-3077.	3.3	135
13	Nitrogenase FeMoco investigated by spatially resolved anomalous dispersion refinement. Nature Communications, 2016, 7, 10902.	5.8	131
14	4â€Acyl Pyrroles: Mimicking Acetylated Lysines in Histone Code Reading. Angewandte Chemie - International Edition, 2013, 52, 14055-14059.	7.2	102
15	Mo-, V-, and Fe-Nitrogenases Use a Universal Eight-Electron Reductive-Elimination Mechanism To Achieve N₂ Reduction. Biochemistry, 2019, 58, 3293-3301.	1.2	99
16	pH-Dependent Gating in a FocA Formate Channel. Science, 2011, 332, 352-354.	6.0	86
17	Biochemical and Structural Characterization of the Cross-Linked Complex of Nitrogenase:Â Comparison to the ADP-AlF4--Stabilized Structureâ€,â€¡. Biochemistry, 2002, 41, 15557-15565.	1.2	81
18	The formate channel FocA exports the products of mixed-acid fermentation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13254-13259.	3.3	76

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19	The Feâ€“V Cofactor of Vanadium Nitrogenase Contains an Interstitial Carbon Atom. Angewandte Chemie - International Edition, 2015, 54, 13249-13252.	7.2	74
20	The discovery of Mo(III) in FeMoco: reuniting enzyme and model chemistry. Journal of Biological Inorganic Chemistry, 2015, 20, 447-460.	1.1	71
21	Nitrogenase FeMo cofactor: an atomic structure in three simple steps. Journal of Biological Inorganic Chemistry, 2014, 19, 737-745.	1.1	65
22	Comparative electronic structures of nitrogenase FeMoco and FeVco. Dalton Transactions, 2017, 46, 2445-2455.	1.6	65
23	The Critical E₄ State of Nitrogenase Catalysis. Biochemistry, 2018, 57, 5497-5504.	1.2	65
24	The formate/nitrite transporter family of anion channels. Biological Chemistry, 2013, 394, 715-727.	1.2	62
25	Investigation of the Electron Transport Chain to and the Catalytic Activity of the Diheme Cytochrome c Peroxidase CcpA of Shewanella oneidensis. Applied and Environmental Microbiology, 2011, 77, 6172-6180.	1.4	60
26	Structure and Function of Formate-Dependent Cytochrome c Nitrite Reductase, NrfA. Methods in Enzymology, 2011, 496, 399-422.	0.4	60
27	Chloroplast FBPase and SBPase are thioredoxin-linked enzymes with similar architecture but different evolutionary histories. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6779-6784.	3.3	60
28	A Conformational Switch Triggers Nitrogenase Protection from Oxygen Damage by Shethna Protein II (FeSII). Journal of the American Chemical Society, 2016, 138, 239-247.	6.6	60
29	Structure of Phytoene Desaturase Provides Insights into Herbicide Binding and Reaction Mechanisms Involved in Carotene Desaturation. Structure, 2017, 25, 1222-1232.e3.	1.6	59
30	Structural and functional characterization of the nitrite channel NirC from Salmonella typhimurium. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18395-18400.	3.3	57
31	The octahaem MccA is a haem câ€“copper sulfite reductase. Nature, 2015, 520, 706-709.	13.7	55
32	4-Acyl Pyrrole Derivatives Yield Novel Vectors for Designing Inhibitors of the Acetyl-Lysine Recognition Site of BRD4(1). Journal of Medicinal Chemistry, 2016, 59, 1518-1530.	2.9	51
33	CO Binding to the FeV Cofactor of COâ€Reducing Vanadium Nitrogenase at Atomic Resolution. Angewandte Chemie - International Edition, 2020, 59, 23626-23630.	7.2	51
34	Structureâ€Based Development of an Affinity Probe for Sirtuinâ€…2. Angewandte Chemie - International Edition, 2016, 55, 2252-2256.	7.2	50
35	Assignment of Individual Metal Redox States in a Metalloprotein by Crystallographic Refinement at Multiple X-ray Wavelengths. Journal of the American Chemical Society, 2007, 129, 2210-2211.	6.6	47
36	Physiological function and catalytic versatility of bacterial multihaem cytochromes c involved in nitrogen and sulfur cycling. Biochemical Society Transactions, 2011, 39, 1864-1870.	1.6	44

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37	MacA is a Second Cytochrome c Peroxidase of Geobacter sulfurreducens. Biochemistry, 2012, 51, 2747-2756.	1.2	44
38	Structure of the processive rubber oxygenase RoxA from Xanthomonas sp. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13833-13838.	3.3	41
39	Substrate Pathways in the Nitrogenase MoFe Protein by Experimental Identification of Small Molecule Binding Sites. Biochemistry, 2015, 54, 2052-2060.	1.2	41
40	Natureâ€™s way of handling a greenhouse gas: the copper-sulfur cluster of purple nitrous oxide reductase. Biological Chemistry, 2012, 393, 1067-1077.	1.2	40
41	The flavinyl transferase ApbE of Pseudomonas stutzeri matures the NosR protein required for nitrous oxide reduction. Biochimica Et Biophysica Acta - Bioenergetics, 2017, 1858, 95-102.	0.5	39
42	Molybdenum Lâ€Edge XAS Spectra of MoFe Nitrogenase. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 65-71.	0.6	36
43	Establishing a Thermodynamic Landscape for the Active Site of Mo-Dependent Nitrogenase. Journal of the American Chemical Society, 2019, 141, 17150-17157.	6.6	36
44	CcpA from Geobacter sulfurreducens Is a Basic Di-Heme Cytochrome c Peroxidase. Journal of Molecular Biology, 2009, 393, 951-965.	2.0	35
45	Production and isolation of vanadium nitrogenase from Azotobacter vinelandii by molybdenum depletion. Journal of Biological Inorganic Chemistry, 2017, 22, 161-168.	1.1	34
46	Functional assembly of nitrous oxide reductase provides insights into copper site maturation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12822-12827.	3.3	33
47	Two ligand-binding sites in CO-reducing V nitrogenase reveal a general mechanistic principle. Science Advances, 2021, 7, .	4.7	33
48	Xâ€ray Magnetic Circular Dichroism Spectroscopy Applied to Nitrogenase and Related Models: Experimental Evidence for a Spinâ€Coupled Molybdenum(III) Center. Angewandte Chemie - International Edition, 2019, 58, 9373-9377.	7.2	32
49	Structural and Functional Analysis of Latex Clearing Protein (Lcp) Provides Insight into the Enzymatic Cleavage of Rubber. Scientific Reports, 2017, 7, 6179.	1.6	29
50	Comment on â€œStructural evidence for a dynamic metallocofactor during N ₂ reduction by Mo-nitrogenaseâ€. Science, 2021, 371, .	6.0	29
51	The Sixteenth Iron in the Nitrogenase MoFe Protein. Angewandte Chemie - International Edition, 2013, 52, 10529-10532.	7.2	28
52	Crystal structure of VnfH, the iron protein component of vanadium nitrogenase. Journal of Biological Inorganic Chemistry, 2018, 23, 1049-1056.	1.1	28
53	Phytoene Desaturase from Oryza sativa: Oligomeric Assembly, Membrane Association and Preliminary 3D-Analysis. PLoS ONE, 2015, 10, e0131717.	1.1	26
54	Structural Characterization of Oâ€and Câ€Glycosylating Variants of the Landomycin Glycosyltransferase LanGT2. Angewandte Chemie - International Edition, 2015, 54, 2811-2815.	7.2	26

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55	Beyond the BET Family: Targeting CBP/p300 with 4â€Acyl Pyrroles. Angewandte Chemie - International Edition, 2017, 56, 12476-12480.	7.2	26
56	Crystal structure of Cdc11, a septin subunit from Saccharomyces cerevisiae. Journal of Structural Biology, 2016, 193, 157-161.	1.3	25
57	Nitrogenase Cofactor: Inspiration for Model Chemistry. Chemistry - an Asian Journal, 2017, 12, 1447-1455.	1.7	24
58	Analysis of the Magnetic Properties of Nitrogenase FeMo Cofactor by Singleâ€Crystal EPR Spectroscopy. Angewandte Chemie - International Edition, 2013, 52, 10116-10119.	7.2	23
59	Sirtuin 1 Inhibiting Thiocyanates (S1th)â€"A New Class of Isotype Selective Inhibitors of NAD+ Dependent Lysine Deacetylases. Frontiers in Oncology, 2020, 10, 657.	1.3	19
60	Role of Calcium in Secondary Structure Stabilization during Maturation of Nitrous Oxide Reductase. Biochemistry, 2016, 55, 1433-1440.	1.2	18
61	Specificity of NifEN and VnfEN for the Assembly of Nitrogenase Active Site Cofactors in Azotobacter vinelandii. MBio, 2021, 12, e0156821.	1.8	18
62	No Laughing Matter: The Unmaking of the Greenhouse Gas Dinitrogen Monoxide by Nitrous Oxide Reductase. Metal Ions in Life Sciences, 2014, 14, 177-210.	2.8	15
63	Histidine-Gated Proton-Coupled Electron Transfer to the Cu_A Site of Nitrous Oxide Reductase. Journal of the American Chemical Society, 2021, 143, 830-838.	6.6	15
64	Helix swapping leads to dimerization of the Nâ€terminal domain of the câ€type cytochrome maturation protein CcmH from Escherichia coli. FEBS Letters, 2008, 582, 2779-2786.	1.3	14
65	HaloTagâ€Targeted Sirtuinâ€Rearranging Ligand (SirReal) for the Development of Proteolysisâ€Targeting Chimeras (PROTACs) against the Lysine Deacetylase Sirtuin 2 (Sirt2)**. ChemBioChem, 2020, 21, 3371-3376.	1.3	13
66	Architecture of the membrane-bound cytochrome c heme lyase CcmF. Nature Chemical Biology, 2021, 17, 800-805.	3.9	13
67	The Copper Chaperone NosL Forms a Heterometal Site for Cu Delivery to Nitrous Oxide Reductase. Angewandte Chemie - International Edition, 2021, 60, 18810-18814.	7.2	12
68	Improving coiled coil stability while maintaining specificity by a bacterial hitchhiker selection system. Journal of Structural Biology, 2014, 186, 335-348.	1.3	11
69	4-Acyl Pyrroles as Dual BET-BRD7/9 Bromodomain Inhibitors Address BETi Insensitive Human Cancer Cell Lines. Journal of Medicinal Chemistry, 2020, 63, 15603-15620.	2.9	11
70	In Vivo Biogenesis of a De Novo Designed Ironâ€"Sulfur Protein. ACS Synthetic Biology, 2020, 9, 3400-3407.	1.9	10
71	Activation of Sirtuin 2 Inhibitors Employing Photoswitchable Geometry and Aqueous Solubility. ChemMedChem, 2020, 15, 1480-1489.	1.6	10
72	Geobacter sulfurreducens Cytochrome c Peroxidases: Electrochemical Classification of Catalytic Mechanisms. Biochemistry, 2011, 50, 4513-4520.	1.2	9

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73	Structural analysis of the reductase component AnfH of iron-only nitrogenase from Azotobacter vinelandii. Journal of Inorganic Biochemistry, 2022, 227, 111690.	1.5	9
74	Active sites without restraints: high-resolution analysis of metal cofactors. Current Opinion in Structural Biology, 2015, 35, 32-40.	2.6	8
75	Detection and Characterization of a Mycobacterial L-Arabinofuranose ABC Transporter Identified with a Rapid Lipoproteomics Protocol. Cell Chemical Biology, 2019, 26, 852-862.e6.	2.5	8
76	Structural Basis for Inhibition of ROSâ€Producing Respiratory Complex I by NADHâ€OH. Angewandte Chemie - International Edition, 2021, 60, 27277-27281.	7.2	8
77	Bindung von CO am Feâ€Cofaktor der COâ€reduzierenden Vanadiumâ€Nitrogenase bei atomarer AuflÃ¶sung. Angewandte Chemie, 2020, 132, 23833-23837.	1.6	6
78	Respiratory complex I with charge symmetry in the membrane arm pumps protons. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	6
79	Structural and Functional Studies of NirC from Salmonella typhimurium. Methods in Enzymology, 2015, 556, 475-497.	0.4	5
80	Beyond the BET Family: Targeting CBP/p300 with 4â€Acyl Pyrroles. Angewandte Chemie, 2017, 129, 12650-12654.	1.6	5
81	Chimeric Interaction of Nitrogenaseâ€Like Reductases with the MoFe Protein of Nitrogenase. ChemBioChem, 2020, 21, 1733-1741.	1.3	5
82	Biosynthesis of the Tricyclic Aromatic Type II Polyketide Rishirilide: New Potential Third Ring Oxygenation after Three Cyclization Steps. Molecular Biotechnology, 2021, 63, 502-514.	1.3	5
83	A [3Cu:2S] cluster provides insight into the assembly and function of the Cu_Z site of nitrous oxide reductase. Chemical Science, 2021, 12, 3239-3244.	3.7	5
84	Strukturelle Charakterisierung von Oâ€•und Câ€glycosylierenden Varianten der Landomycinâ€Glycosyltransferase LanGT2. Angewandte Chemie, 2015, 127, 2853-2857.	1.6	4
85	Crystallization and preliminary X-ray analysis of the molybdenum-dependent pyrogallol-phloroglucinol transhydroxylase ofPelobacter acidigallici. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 343-345.	2.5	3
86	Another twist on nitrogenases. Nature Microbiology, 2018, 3, 263-264.	5.9	2
87	Das Kupferâ€Chaperon NosL bildet ein Heterometallzetrum fÃ¼r die Cuâ€Abgabe an Distickstoffmonoxidâ€Reduktase. Angewandte Chemie, 2021, 133, 18958-18962.	1.6	2
88	Xâ€ray Magnetic Circular Dichroism Spectroscopy Applied to Nitrogenase and Related Models: Experimental Evidence for a Spinâ€Coupled Molybdenum(III) Center. Angewandte Chemie, 2019, 131, 9473-9477.	1.6	1
89	Expression, Isolation, and Characterization of Vanadium Nitrogenase from Azotobacter vinelandii. Methods in Molecular Biology, 2021, 2353, 97-121.	0.4	1
90	EBEC 2012: Combining the multiple facets of bioenergetics. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1709-1710.	0.5	0

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91	Enzyme or Electrode?. Structure, 2012, 20, 1132-1134.	1.6	0
92	8. The Cofactors of Nitrogenases. , 2020, 20, 257-312.		0
93	Structural basis of O-methylation of (2-heptyl-)1-hydroxyquinolin-4(1H)-one and related compounds by the heterocyclic toxin methyltransferase Rv0560c of Mycobacterium tuberculosis. Journal of Structural Biology, 2021, 213, 107794.	1.3	0