

# Christoph Loenarz

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

3,360  
citations

279798

23  
h-index

315739

38  
g-index

45  
all docs

45  
docs citations

45  
times ranked

4778  
citing authors

#	ARTICLE	IF	CITATIONS
1	Expanding chemical biology of 2-oxoglutarate oxygenases. <i>Nature Chemical Biology</i> , 2008, 4, 152-156.	8.0	438
2	Regulation of Jumonji-domain-containing histone demethylases by hypoxia-inducible factor (HIF)-1 $\alpha$ . <i>Biochemical Journal</i> , 2008, 416, 387-394.	3.7	278
3	Codon optimization can improve expression of human genes in <i>Escherichia coli</i> : A multi-gene study. <i>Protein Expression and Purification</i> , 2008, 59, 94-102.	1.3	273
4	Physiological and biochemical aspects of hydroxylations and demethylations catalyzed by human 2-oxoglutarate oxygenases. <i>Trends in Biochemical Sciences</i> , 2011, 36, 7-18.	7.5	260
5	Structural studies on human 2-oxoglutarate dependent oxygenases. <i>Current Opinion in Structural Biology</i> , 2010, 20, 659-672.	5.7	238
6	The hypoxia-inducible transcription factor pathway regulates oxygen sensing in the simplest animal, <i>Trichoplax adhaerens</i> . <i>EMBO Reports</i> , 2011, 12, 63-70.	4.5	210
7	Structural Basis for Binding of Hypoxia-Inducible Factor to the Oxygen-Sensing Prolyl Hydroxylases. <i>Structure</i> , 2009, 17, 981-989.	3.3	205
8	PHF8, a gene associated with cleft lip/palate and mental retardation, encodes for an N $\epsilon$ -dimethyl lysine demethylase. <i>Human Molecular Genetics</i> , 2010, 19, 217-222.	2.9	153
9	Structural and Evolutionary Basis for the Dual Substrate Selectivity of Human KDM4 Histone Demethylase Family. <i>Journal of Biological Chemistry</i> , 2011, 286, 41616-41625.	3.4	143
10	Oxygenase-catalyzed ribosome hydroxylation occurs in prokaryotes and humans. <i>Nature Chemical Biology</i> , 2012, 8, 960-962.	8.0	135
11	Human AlkB Homologue 5 Is a Nuclear 2-Oxoglutarate Dependent Oxygenase and a Direct Target of Hypoxia-Inducible Factor 1 $\alpha$ (HIF-1 $\alpha$ ). <i>PLoS ONE</i> , 2011, 6, e16210.	2.5	120
12	Hydroxylation of the eukaryotic ribosomal decoding center affects translational accuracy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 4019-4024.	7.1	111
13	OGFOD1 catalyzes prolyl hydroxylation of RPS23 and is involved in translation control and stress granule formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 4031-4036.	7.1	105
14	Oxygenase Catalyzed 5-Methylcytosine Hydroxylation. <i>Chemistry and Biology</i> , 2009, 16, 580-583.	6.0	82
15	Kinetic Rationale for Selectivity toward N- and C-terminal Oxygen-dependent Degradation Domain Substrates Mediated by a Loop Region of Hypoxia-Inducible Factor Prolyl Hydroxylases. <i>Journal of Biological Chemistry</i> , 2008, 283, 3808-3815.	3.4	72
16	A mechanism for induction of a hypoxic response by vaccinia virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12444-12449.	7.1	63
17	Evidence for a Stereoelectronic Effect in Human Oxygen Sensing. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1784-1787.	13.8	58
18	Identification and Characterization of a Novel Evolutionarily Conserved Lysine-specific Methyltransferase Targeting Eukaryotic Translation Elongation Factor 2 (eEF2). <i>Journal of Biological Chemistry</i> , 2014, 289, 30499-30510.	3.4	56

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19	Inhibition of the histone demethylase JMJD2E by 3-substituted pyridine 2,4-dicarboxylates. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 127-135.	2.8	52
20	Sudestada1, a <i>Drosophila</i> ribosomal prolyl-hydroxylase required for mRNA translation, cell homeostasis, and organ growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 4025-4030.	7.1	46
21	Application of a Proteolysis/Mass Spectrometry Method for Investigating the Effects of Inhibitors on Hydroxylase Structure. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 2799-2805.	6.4	43
22	Crystal structure of the PHF8 Jumonji domain, an N <sup>6</sup> -methyl lysine demethylase. <i>FEBS Letters</i> , 2010, 584, 825-830.	2.8	35
23	Structure of the Ribosomal Oxygenase OGFOD1 Provides Insights into the Regio- and Stereoselectivity of Prolyl Hydroxylases. <i>Structure</i> , 2015, 23, 639-652.	3.3	32
24	2-Oxoglutarate analogue inhibitors of prolyl hydroxylase domain 2. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 6192-6195.	2.2	22
25	Structural basis for binding of cyclic 2-oxoglutarate analogues to factor-inhibiting hypoxia-inducible factor. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 6125-6128.	2.2	22
26	Structure and Mechanism of a Viral Collagen Prolyl Hydroxylase. <i>Biochemistry</i> , 2015, 54, 6093-6105.	2.5	19
27	Evaluation of aspirin metabolites as inhibitors of hypoxia-inducible factor hydroxylases. <i>Chemical Communications</i> , 2008, , 6393.	4.1	16
28	Chemical Basis for the Selectivity of the von Hippel Lindau Tumor Suppressor pVHL for Prolyl-Hydroxylated HIF-1 $\alpha$ . <i>Biochemistry</i> , 2010, 49, 6936-6944.	2.5	16
29	Born to sense: biophysical analyses of the oxygen sensing prolyl hydroxylase from the simplest animal <i>Trichoplax adhaerens</i> . <i>Hypoxia (Auckland, N Z)</i> , 2018, Volume 6, 57-71.	1.9	12
30	A Cobalamin-Dependent Radical SAM Enzyme Catalyzes the Unique C <sup>1</sup> -Methylation of Glutamine in Methyl-Coenzyme-M Reductase. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	8
31	YcfDRM is a thermophilic oxygen-dependent ribosomal protein uL16 oxygenase. <i>Extremophiles</i> , 2018, 22, 553-562.	2.3	6
32	Studies on the Substrate Selectivity of the Hypoxia-Inducible Factor Prolyl Hydroxylase-2 Catalytic Domain. <i>ChemBioChem</i> , 2018, 19, 2262-2267.	2.6	6
33	Photoactivable peptides for identifying enzyme-substrate and protein-protein interactions. <i>Chemical Communications</i> , 2011, 47, 1488-1490.	4.1	5
34	Selective Inhibitors of a Human Prolyl Hydroxylase (OGFOD1) Involved in Ribosomal Decoding. <i>Chemistry - A European Journal</i> , 2019, 25, 2019-2024.	3.3	5
35	An Oxygen Sensation: Progress in Macromolecule Hydroxylation Triggered by the Elucidation of Cellular Oxygen Sensing. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3776-3780.	13.8	4
36	Oxygenases for oxygen sensing. <i>Pure and Applied Chemistry</i> , 2008, 80, 1837-1847.	1.9	2

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37	Mutations to metabolic enzymes in cancer herald a need to unify genetics and biochemistry. <i>Cell Cycle</i> , 2011, 10, 2819-2820.	2.6	1
38	Ein Gespür für Sauerstoff: Entdeckung des molekularen Mechanismus der zellulären Sauerstoffregulation rückt die Hydroxylierung von Makromolekülen in den Blickpunkt. <i>Angewandte Chemie</i> , 2020, 132, 3804-3809.	2.0	0
39	A Cobalamin-Dependent Radical SAM Enzyme Catalyzes the Unique C-Methylation of Glutamine in Methyl-Coenzyme M Reductase. <i>Angewandte Chemie</i> , 0, , .	2.0	0