Christoph Loenarz

List of Publications by Year
in descending order

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39	3,360	279701 23	315616 38
papers	citations	h-index	g-index

45	45	45	4778
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Expanding chemical biology of 2-oxoglutarate oxygenases. Nature Chemical Biology, 2008, 4, 152-156.	3.9	438
2	Regulation of Jumonji-domain-containing histone demethylases by hypoxia-inducible factor (HIF)-1Î±. Biochemical Journal, 2008, 416, 387-394.	1.7	278
3	Codon optimization can improve expression of human genes in Escherichia coli: A multi-gene study. Protein Expression and Purification, 2008, 59, 94-102.	0.6	273
4	Physiological and biochemical aspects of hydroxylations and demethylations catalyzed by human 2-oxoglutarate oxygenases. Trends in Biochemical Sciences, 2011, 36, 7-18.	3.7	260
5	Structural studies on human 2-oxoglutarate dependent oxygenases. Current Opinion in Structural Biology, 2010, 20, 659-672.	2.6	238
6	The hypoxiaâ€inducible transcription factor pathway regulates oxygen sensing in the simplest animal, Trichoplax adhaerens. EMBO Reports, 2011, 12, 63-70.	2.0	210
7	Structural Basis for Binding of Hypoxia-Inducible Factor to the Oxygen-Sensing Prolyl Hydroxylases. Structure, 2009, 17, 981-989.	1.6	205
8	PHF8, a gene associated with cleft lip/palate and mental retardation, encodes for an NÎµ-dimethyl lysine demethylase. Human Molecular Genetics, 2010, 19, 217-222.	1.4	153
9	Structural and Evolutionary Basis for the Dual Substrate Selectivity of Human KDM4 Histone Demethylase Family. Journal of Biological Chemistry, 2011, 286, 41616-41625.	1.6	143
10	Oxygenase-catalyzed ribosome hydroxylation occurs in prokaryotes and humans. Nature Chemical Biology, 2012, 8, 960-962.	3.9	135
11	Human AlkB Homologue 5 Is a Nuclear 2-Oxoglutarate Dependent Oxygenase and a Direct Target of Hypoxia-Inducible Factor 1Î± (HIF-1Î±). PLoS ONE, 2011, 6, e16210.	1.1	120
12	Hydroxylation of the eukaryotic ribosomal decoding center affects translational accuracy. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4019-4024.	3.3	111
13	OGFOD1 catalyzes prolyl hydroxylation of RPS23 and is involved in translation control and stress granule formation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4031-4036.	3.3	105
14	Oxygenase Catalyzed 5-Methylcytosine Hydroxylation. Chemistry and Biology, 2009, 16, 580-583.	6.2	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. Journal of Biological Chemistry, 2008, 283, 3808-3815.	1.6	72
16	A mechanism for induction of a hypoxic response by vaccinia virus. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12444-12449.	3.3	63
17	Evidence for a Stereoelectronic Effect in Human Oxygen Sensing. Angewandte Chemie - International Edition, 2009, 48, 1784-1787.	7.2	58
18	Identification and Characterization of a Novel Evolutionarily Conserved Lysine-specific Methyltransferase Targeting Eukaryotic Translation Elongation Factor 2 (eEF2). Journal of Biological Chemistry, 2014, 289, 30499-30510.	1.6	56

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19	Inhibition of the histone demethylase JMJD2E by 3-substituted pyridine 2,4-dicarboxylates. Organic and Biomolecular Chemistry, 2011, 9, 127-135.	1.5	52
20	Sudestada1, a Drosophila ribosomal prolyl-hydroxylase required for mRNA translation, cell homeostasis, and organ growth. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4025-4030.	3.3	46
21	Application of a Proteolysis/Mass Spectrometry Method for Investigating the Effects of Inhibitors on Hydroxylase Structure. Journal of Medicinal Chemistry, 2009, 52, 2799-2805.	2.9	43
22	Crystal structure of the PHF8 Jumonji domain, an N^{Îµ}â€methyl lysine demethylase. FEBS Letters, 2010, 584, 825-830.	1.3	35
23	Structure of the Ribosomal Oxygenase OGFOD1 Provides Insights into the Regio- and Stereoselectivity of Prolyl Hydroxylases. Structure, 2015, 23, 639-652.	1.6	32
24	2-Oxoglutarate analogue inhibitors of prolyl hydroxylase domain 2. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 6192-6195.	1.0	22
25	Structural basis for binding of cyclic 2-oxoglutarate analogues to factor-inhibiting hypoxia-inducible factor. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 6125-6128.	1.0	22
26	Structure and Mechanism of a Viral Collagen Prolyl Hydroxylase. Biochemistry, 2015, 54, 6093-6105.	1.2	19
27	Evaluation of aspirin metabolites as inhibitors of hypoxia-inducible factor hydroxylases. Chemical Communications, 2008, , 6393.	2.2	16
28	Chemical Basis for the Selectivity of the von Hippel Lindau Tumor Suppressor pVHL for Prolyl-Hydroxylated HIF-1Î±. Biochemistry, 2010, 49, 6936-6944.	1.2	16
29	Born to sense: biophysical analyses of the oxygen sensing prolyl hydroxylase from the simplest animal Trichoplax adhaerens. Hypoxia (Auckland, N Z), 2018, Volume 6, 57-71.	1.9	12
30	A Cobalaminâ€Dependent Radical SAM Enzyme Catalyzes the Unique C_{Î±}â€Methylation of Glutamine in Methylâ€Coenzymeâ€…M Reductase. Angewandte Chemie - International Edition, 2022, 61, .	7.2	8
31	YcfDRM is a thermophilic oxygen-dependent ribosomal protein uL16 oxygenase. Extremophiles, 2018, 22, 553-562.	0.9	6
32	Studies on the Substrate Selectivity of the Hypoxiaâ€Inducible Factor Prolyl Hydroxylaseâ€…2 Catalytic Domain. ChemBioChem, 2018, 19, 2262-2267.	1.3	6
33	Photoactivable peptides for identifying enzymeâ€“substrate and proteinâ€“protein interactions. Chemical Communications, 2011, 47, 1488-1490.	2.2	5
34	Selective Inhibitors of a Human Prolyl Hydroxylase (OGFOD1) Involved in Ribosomal Decoding. Chemistry - A European Journal, 2019, 25, 2019-2024.	1.7	5
35	An Oxygen Sensation: Progress in Macromolecule Hydroxylation Triggered by the Elucidation of Cellular Oxygen Sensing. Angewandte Chemie - International Edition, 2020, 59, 3776-3780.	7.2	4
36	Oxygenases for oxygen sensing. Pure and Applied Chemistry, 2008, 80, 1837-1847.	0.9	2

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37	Mutations to metabolic enzymes in cancer herald a need to unify genetics and biochemistry. Cell Cycle, 2011, 10, 2819-2820.	1.3	1
38	Ein GespÃ¼r fÃ¼r Sauerstoff: Entdeckung des molekularen Mechanismus der zellulÃren Sauerstoffregulation rÃ¼ckt die Hydroxylierung von MakromolekÃ¼len in den Blickpunkt. Angewandte Chemie, 2020, 132, 3804-3809.	1.6	0
39	A Cobalaminâ€Dependent Radical SAM Enzyme Catalyzes the Unique CÎ±â€Methylation of Glutamine in Methylâ€Coenzyme M Reductase. Angewandte Chemie, 0, , .	1.6	0