

SÃ©bastien Dementin

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,647
citations

394421

19
h-index

552781

26
g-index

27
all docs

27
docs citations

27
times ranked

1040
citing authors

#	ARTICLE	IF	CITATIONS
1	Relating diffusion along the substrate tunnel and oxygen sensitivity in hydrogenase. <i>Nature Chemical Biology</i> , 2010, 6, 63-70.	8.0	188
2	Inhibition and Aerobic Inactivation Kinetics of <i>Desulfovibrio fructosovorans</i> NiFe Hydrogenase Studied by Protein Film Voltammetry. <i>Journal of the American Chemical Society</i> , 2004, 126, 12162-12172.	13.7	157
3	Experimental approaches to kinetics of gas diffusion in hydrogenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 11188-11193.	7.1	150
4	A Glutamate Is the Essential Proton Transfer Gate during the Catalytic Cycle of the [NiFe] Hydrogenase. <i>Journal of Biological Chemistry</i> , 2004, 279, 10508-10513.	3.4	129
5	Introduction of Methionines in the Gas Channel Makes [NiFe] Hydrogenase Aero-Tolerant. <i>Journal of the American Chemical Society</i> , 2009, 131, 10156-10164.	13.7	105
6	Understanding and Tuning the Catalytic Bias of Hydrogenase. <i>Journal of the American Chemical Society</i> , 2012, 134, 8368-8371.	13.7	103
7	Changing the Ligation of the Distal [4Fe4S] Cluster in NiFe Hydrogenase Impairs Inter- and Intramolecular Electron Transfers. <i>Journal of the American Chemical Society</i> , 2006, 128, 5209-5218.	13.7	98
8	Original Design of an Oxygen-Tolerant [NiFe] Hydrogenase: Major Effect of a Valine-to-Cysteine Mutation near the Active Site. <i>Journal of the American Chemical Society</i> , 2011, 133, 986-997.	13.7	91
9	O ₂ -independent formation of the inactive states of NiFe hydrogenase. <i>Nature Chemical Biology</i> , 2013, 9, 15-17.	8.0	73
10	Electrochemical Investigations of Hydrogenases and Other Enzymes That Produce and Use Solar Fuels. <i>Accounts of Chemical Research</i> , 2018, 51, 769-777.	15.6	55
11	CODH: A High Efficiency CO Scavenging CO Dehydrogenase with Resistance to O ₂ . <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15466-15469.	13.8	54
12	Crystallographic studies of [NiFe]-hydrogenase mutants: towards consensus structures for the elusive unready oxidized states. <i>Journal of Biological Inorganic Chemistry</i> , 2015, 20, 11-22.	2.6	52
13	Rates of Intra- and Intermolecular Electron Transfers in Hydrogenase Deduced from Steady-State Activity Measurements. <i>Journal of the American Chemical Society</i> , 2011, 133, 10211-10221.	13.7	48
14	The mechanism of inhibition by H ₂ of H ₂ -evolution by hydrogenases. <i>Chemical Communications</i> , 2013, 49, 6840.	4.1	48
15	The Carbon Monoxide Dehydrogenase from <i>Desulfovibrio vulgaris</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 1574-1583.	1.0	48
16	Redox-dependent rearrangements of the NiFeS cluster of carbon monoxide dehydrogenase. <i>ELife</i> , 2018, 7, .	6.0	43
17	O ₂ Inhibition of Ni-Containing CO Dehydrogenase Is Partly Reversible. <i>Chemistry - A European Journal</i> , 2015, 21, 18934-18938.	3.3	38
18	Combining experimental and theoretical methods to learn about the reactivity of gas-processing metalloenzymes. <i>Energy and Environmental Science</i> , 2014, 7, 3543-3573.	30.8	36

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19	Maturation of the [Ni ⁴ Fe ⁴ S] active site of carbon monoxide dehydrogenases. <i>Journal of Biological Inorganic Chemistry</i> , 2018, 23, 613-620.	2.6	29
20	Reliable estimation of the kinetic parameters of redox enzymes by taking into account mass transport towards rotating electrodes in protein film voltammetry experiments. <i>Electrochimica Acta</i> , 2017, 245, 1059-1064.	5.2	19
21	The two CO-dehydrogenases of <i>Thermococcus</i> sp. AM4. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148188.	1.0	19
22	A Threonine Stabilizes the NiC and NiR Catalytic Intermediates of [NiFe]-hydrogenase. <i>Journal of Biological Chemistry</i> , 2015, 290, 8550-8558.	3.4	18
23	The Solvent-Exposed Fe ^S D-Cluster Contributes to Oxygen-Resistance in <i>Desulfovibrio vulgaris</i> Ni ⁴ Fe Carbon Monoxide Dehydrogenase. <i>ACS Catalysis</i> , 2020, 10, 7328-7335.	11.2	18
24	Structural insight into metallocofactor maturation in carbon monoxide dehydrogenase. <i>Journal of Biological Chemistry</i> , 2019, 294, 13017-13026.	3.4	15
25	Visualizing the gas channel of a monofunctional carbon monoxide dehydrogenase. <i>Journal of Inorganic Biochemistry</i> , 2022, 230, 111774.	3.5	11
26	Modulation of the RNA polymerase activity by AtcB, a protein associated with a DnaK chaperone network in <i>Shewanella oneidensis</i> . <i>Biochemical and Biophysical Research Communications</i> , 2021, 535, 66-72.	2.1	2