InÃªs Cardoso Pereira

List of Publications by Year
in descending order

138 papers	7,268 citations	46984 47 h-index	71651 76 g-index
149 all docs	149 docs citations	149 times ranked	5462 citing authors

#	Article	IF	Citations
1	Sulfate-reducing bacteria in human feces and their association with inflammatory bowel diseases. FEMS Microbiology Ecology, 2002, 40, 107-112.	1.3	309
2	A Comparative Genomic Analysis of Energy Metabolism in Sulfate Reducing Bacteria and Archaea. Frontiers in Microbiology, 2011, 2, 69.	1.5	300
3	A Post-Genomic View of the Ecophysiology, Catabolism and Biotechnological Relevance of Sulphate-Reducing Prokaryotes. Advances in Microbial Physiology, 2015, 66, 55-321.	1.0	238
4	A protein trisulfide couples dissimilatory sulfate reduction to energy conservation. Science, 2015, 350, 1541-1545.	6.0	216
5	Early bioenergetic evolution. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20130088.	1.8	199
6	Unifying concepts in anaerobic respiration: Insights from dissimilatory sulfur metabolism. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 145-160.	0.5	182
7	X-ray structure of the membrane-bound cytochrome c quinol dehydrogenase NrfH reveals novel haem coordination. EMBO Journal, 2006, 25, 5951-5960.	3.5	150
8	The â€œbacterial heterodisulfideâ€•DsrC is a key protein in dissimilatory sulfur metabolism. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1148-1164.	0.5	150
9	The Crystal Structure of Desulfovibrio vulgaris Dissimilatory Sulfite Reductase Bound to DsrC Provides Novel Insights into the Mechanism of Sulfate Respiration. Journal of Biological Chemistry, 2008, 283, 34141-34149.	1.6	147
10	Sulphate respiration from hydrogen in Desulfovibrio bacteria: a structural biology overview. Progress in Biophysics and Molecular Biology, 2005, 89, 292-329.	1.4	141
11	The genome sequence of Desulfatibacillum alkenivorans AKâ€01: a blueprint for anaerobic alkane oxidation. Environmental Microbiology, 2012, 14, 101-113.	1.8	137
12	Biogenic platinum and palladium nanoparticles as new catalysts for the removal of pharmaceutical compounds. Water Research, 2017, 108, 160-168.	5.3	129
13	Characterization of theDesulfovibrio desulfuricansATCC 27774 DsrMKJOP ComplexA Membrane-Bound Redox Complex Involved in the Sulfate Respiratory Pathway. Biochemistry, 2006, 45, 249-262.	1.2	127
14	Interfacing Formate Dehydrogenase with Metal Oxides for the Reversible Electrocatalysis and Solarâ€Driven Reduction of Carbon Dioxide. Angewandte Chemie - International Edition, 2019, 58, 4601-4605.	7.2	115
15	Bacteremia Caused by a Strain of Desulfovibrio Related to the Provisionally Named Desulfovibrio fairfieldensis. Journal of Clinical Microbiology, 2000, 38, 931-934.	1.8	112
16	Photoreduction of CO₂ with a Formate Dehydrogenase Driven by Photosystem II Using a Semi-artificial Z-Scheme Architecture. Journal of the American Chemical Society, 2018, 140, 16418-16422.	6.6	111
17	The Three-Dimensional Structure of [NiFeSe] Hydrogenase from Desulfovibrio vulgaris Hildenborough: A Hydrogenase without a Bridging Ligand in the Active Site in Its Oxidised, â€œas-Isolatedâ€•State. Journal of Molecular Biology, 2010, 396, 893-907.	2.0	110
18	A novel membrane-bound respiratory complex from Desulfovibrio desulfuricans ATCC 27774. Biochimica Et Biophysica Acta - Bioenergetics, 2003, 1605, 67-82.	0.5	104

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19	Characterization of a heme c nitrite reductase from a non-ammonifying microorganism, Desulfovibrio vulgaris Hildenborough. BBA - Proteins and Proteomics, 2000, 1481, 119-130.	2.1	100
20	Thiosulfate dehydrogenase: a widespread unusual acidophilic câ€type cytochrome. Environmental Microbiology, 2012, 14, 2673-2688.	1.8	95
21	The Qrc Membrane Complex, Related to the Alternative Complex III, Is a Menaquinone Reductase Involved in Sulfate Respiration. Journal of Biological Chemistry, 2010, 285, 22774-22783.	1.6	94
22	The membrane QmoABC complex interacts directly with the dissimilatory adenosine 5â€²-phosphosulfate reductase in sulfate reducing bacteria. Frontiers in Microbiology, 2012, 3, 137.	1.5	89
23	Nickelâ€“Ironâ€“Selenium Hydrogenases â€“ An Overview. European Journal of Inorganic Chemistry, 2011, 2011, 948-962.	1.0	86
24	Electron transfer between hydrogenases and mono- and multiheme cytochromes in Desulfovibrio ssp. Journal of Biological Inorganic Chemistry, 1998, 3, 494-498.	1.1	83
25	Hydrogenases in Desulfovibrio vulgaris Hildenborough: structural and physiologic characterisation of the membrane-bound [NiFeSe] hydrogenase. Journal of Biological Inorganic Chemistry, 2005, 10, 667-682.	1.1	83
26	The primary and three-dimensional structures of a nine-haem cytochrome c from Desulfovibrio desulfuricans ATCC 27774 reveal a new member of the Hmc family. Structure, 1999, 7, 119-130.	1.6	79
27	The direct role of selenocysteine in [NiFeSe] hydrogenase maturation and catalysis. Nature Chemical Biology, 2017, 13, 544-550.	3.9	76
28	Toward the Mechanistic Understanding of Enzymatic CO₂ Reduction. ACS Catalysis, 2020, 10, 3844-3856.	5.5	76
29	Oriented Immobilization of a Membrane-Bound Hydrogenase onto an Electrode for Direct Electron Transfer. Langmuir, 2011, 27, 6449-6457.	1.6	73
30	Cytoplasmic Sulfurtransferases in the Purple Sulfur Bacterium Allochromatium vinosum: Evidence for Sulfur Transfer from DsrEFH to DsrC. PLoS ONE, 2012, 7, e40785.	1.1	71
31	The <scp>FlxABCD</scp>â€<scp>HdrABC</scp> proteins correspond to a novel <scp>NADH</scp> dehydrogenase/heterodisulfide reductase widespread in anaerobic bacteria and involved in ethanol metabolism in <scp>D</scp>esulfovibrio vulgarisâ€…<scp>H</scp>ildenborough. Environmental Microbiology, 2015, 17, 2288-2305.	1.8	71
32	A gas breathing hydrogen/air biofuel cell comprising a redox polymer/hydrogenase-based bioanode. Nature Communications, 2018, 9, 4715.	5.8	71
33	Anaerobic biodegradation of pharmaceutical compounds: New insights into the pharmaceutical-degrading bacteria. Journal of Hazardous Materials, 2018, 357, 289-297.	6.5	71
34	Integration of a Hydrogenase in a Lead Halide Perovskite Photoelectrode for Tandem Solar Water Splitting. ACS Energy Letters, 2020, 5, 232-237.	8.8	68
35	A Membrane-Bound Cytochromec3: A Type II Cytochromec3 fromDesulfovibrio vulgaris Hildenborough. ChemBioChem, 2001, 2, 895-905.	1.3	66
36	Energy metabolism in Desulfovibrio vulgaris Hildenborough: insights from transcriptome analysis. Antonie Van Leeuwenhoek, 2008, 93, 347-362.	0.7	66

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37	Tungsten and Molybdenum Regulation of Formate Dehydrogenase Expression in Desulfovibrio vulgaris Hildenborough. Journal of Bacteriology, 2011, 193, 2909-2916.	1.0	65
38	Nitrite Reductase fromDesulfovibrio desulfuricans(ATCC 27774)â€" A Heterooligomer Heme Protein with Sulfite Reductase Activity. Biochemical and Biophysical Research Communications, 1996, 224, 611-618.	1.0	62
39	Enhanced Lightâ€Driven Hydrogen Production by Selfâ€Photosensitized Biohybrid Systems. Angewandte Chemie - International Edition, 2021, 60, 9055-9062.	7.2	61
40	Selenium Is Involved in Regulation of Periplasmic Hydrogenase Gene Expression in Desulfovibrio vulgaris Hildenborough. Journal of Bacteriology, 2006, 188, 3228-3235.	1.0	60
41	Reclassification of the only species of the genus Desulfomonas, Desulfomonas pigra, as Desulfovibrio piger comb. nov. International Journal of Systematic and Evolutionary Microbiology, 2002, 52, 1305-1308.	0.8	59
42	Insight into the sulfur metabolism of Desulfurella amilsii by differential proteomics. Environmental Microbiology, 2019, 21, 209-225.	1.8	57
43	Function of formate dehydrogenases in Desulfovibrio vulgaris Hildenborough energy metabolism. Microbiology (United Kingdom), 2013, 159, 1760-1769.	0.7	56
44	Sulfate Respiration in Desulfovibrio vulgaris Hildenborough. Journal of Biological Chemistry, 2002, 277, 47907-47916.	1.6	55
45	Enzymatic Anodes for Hydrogen Fuel Cells based on Covalent Attachment of Niâ€Fe Hydrogenases and Direct Electron Transfer to SAMâ€Modified Gold Electrodes. Electroanalysis, 2010, 22, 776-783.	1.5	55
46	A fully protected hydrogenase/polymer-based bioanode for high-performance hydrogen/glucose biofuel cells. Nature Communications, 2018, 9, 3675.	5.8	53
47	Hydrogen as an energy source for the human pathogen Bilophila wadsworthia. Antonie Van Leeuwenhoek, 2008, 93, 381-390.	0.7	52
48	Biochemical Characterization of Individual Components of the Allochromatium vinosum DsrMKJOP Transmembrane Complex Aids Understanding of Complex Function In Vivo. Journal of Bacteriology, 2010, 192, 6369-6377.	1.0	52
49	Electroenzymatic CO₂ Fixation Using Redox Polymer/Enzyme-Modified Gas Diffusion Electrodes. ACS Energy Letters, 2020, 5, 321-327.	8.8	52
50	Reclassification of the only species of the genus Desulfomonas, Desulfomonas pigra, as Desulfovibrio piger comb. nov.. International Journal of Systematic and Evolutionary Microbiology, 2002, 52, 1305-1308.	0.8	52
51	Fast CO2 hydration kinetics impair heterogeneous but improve enzymatic CO2 reduction catalysis. Nature Chemistry, 2022, 14, 417-424.	6.6	50
52	Sulfate-reducing bacteria as new microorganisms for biological hydrogen production. International Journal of Hydrogen Energy, 2013, 38, 12294-12301.	3.8	49
53	The Tmc Complex fromDesulfovibrio vulgarisHildenborough Is Involved in Transmembrane Electron Transfer from Periplasmic Hydrogen Oxidationâ€. Biochemistry, 2006, 45, 10359-10367.	1.2	48
54	Photoelectrochemical hybrid cell for unbiased CO2 reduction coupled to alcohol oxidation. , 2022, 1, 77-86.		48

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55	Sulfur Isotope Effects of Dissimilatory Sulfite Reductase. Frontiers in Microbiology, 2015, 6, 1392.	1.5	47
56	Thiosulfate Dehydrogenase (TsdA) from Allochromatium vinosum. Journal of Biological Chemistry, 2015, 290, 9222-9238.	1.6	46
57	Protection and Reactivation of the [NiFeSe] Hydrogenase from Desulfovibrio vulgaris Hildenborough under Oxidative Conditions. ACS Energy Letters, 2017, 2, 964-968.	8.8	45
58	Quinol Oxidation by c-Type Cytochromes: Structural Characterization of the Menaquinol Binding Site of NrfHA. Journal of Molecular Biology, 2008, 381, 341-350.	2.0	43
59	DsrJ, an Essential Part of the DsrMKJOP Transmembrane Complex in the Purple Sulfur Bacterium Allochromatium vinosum, Is an Unusual Triheme Cytochrome c. Biochemistry, 2010, 49, 8290-8299.	1.2	43
60	Genome analysis of Desulfotomaculum kuznetsovii strain 17T reveals a physiological similarity with Pelotomaculum thermopropionicum strain SIT.. Standards in Genomic Sciences, 2013, 8, 69-87.	1.5	42
61	H₂â€Fueled ATP Synthesis on an Electrode: Mimicking Cellular Respiration. Angewandte Chemie - International Edition, 2016, 55, 6216-6220.	7.2	42
62	Incorporation of 18O-labelled water into oxygenated products produced by the enzyme deacetoxy/deacetylcephalosporin C synthase. Tetrahedron, 1993, 49, 7499-7518.	1.0	39
63	Multiheme Cytochromes from the Sulfur-Reducing Bacterium Desulfuromonas Acetoxidans. FEBS Journal, 1997, 248, 323-328.	0.2	39
64	A photosystem I monolayer with anisotropic electron flow enables Z-scheme like photosynthetic water splitting. Energy and Environmental Science, 2019, 12, 3133-3143.	15.6	39
65	Formate Dehydrogenases Reduce CO₂ Rather than HCO₃^{â^'}: Anâ€‰Electrochemical Demonstration. Angewandte Chemie - International Edition, 2021, 60, 9964-9967.	7.2	39
66	Structural Insights into Dissimilatory Sulfite Reductases: Structure of Desulforubidin from Desulfomicrobium Norvegicum. Frontiers in Microbiology, 2011, 2, 71.	1.5	38
67	Transcriptional response of Desulfovibrio vulgaris Hildenborough to oxidative stress mimicking environmental conditions. Archives of Microbiology, 2008, 189, 451-461.	1.0	37
68	In Situ Determination of Photobioproduction of H2by In2S3-[NiFeSe] Hydrogenase fromDesulfovibrio vulgarisHildenborough Using Only Visible Light. ACS Catalysis, 2016, 6, 5691-5698.	5.5	37
69	The [NiFeSe] hydrogenase fromDesulfovibrio vulgarisHildenborough is a bacterial lipoprotein lacking a typical lipoprotein signal peptide. FEBS Letters, 2007, 581, 3341-3344.	1.3	35
70	Electron Accepting Units of the Diheme Cytochrome c TsdA, a Bifunctional Thiosulfate Dehydrogenase/Tetrathionate Reductase. Journal of Biological Chemistry, 2016, 291, 24804-24818.	1.6	35
71	Redox state-dependent changes in the crystal structure ofÂ[NiFeSe] hydrogenase from Desulfovibrio vulgaris Hildenborough. International Journal of Hydrogen Energy, 2013, 38, 8664-8682.	3.8	34
72	Interfacing Formate Dehydrogenase with Metal Oxides for the Reversible Electrocatalysis and Solarâ€Driven Reduction of Carbon Dioxide. Angewandte Chemie, 2019, 131, 4649-4653.	1.6	34

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73	A Semiâ€artificial Photoelectrochemical Tandem Leaf with a CO₂â€toâ€Formate Efficiency Approaching 1â€‰%. Angewandte Chemie - International Edition, 2021, 60, 26303-26307.	7.2	34
74	Desulfovibrio vulgarisGrowth Coupled to Formate-Driven H2Production. Environmental Science & Technology, 2015, 49, 14655-14662.	4.6	33
75	Reversible and Selective Interconversion of Hydrogen and Carbon Dioxide into Formate by a Semiartificial Formate Hydrogenlyase Mimic. Journal of the American Chemical Society, 2019, 141, 17498-17502.	6.6	32
76	FTIR spectroelectrochemical characterization of the Niâ€“Feâ€“Se hydrogenase from Desulfovibrio vulgaris Hildenborough. Journal of Biological Inorganic Chemistry, 2008, 13, 1315-1320.	1.1	31
77	A novel membrane-bound Ech [NiFe] hydrogenase in Desulfovibrio gigas. Biochemical and Biophysical Research Communications, 2003, 306, 366-375.	1.0	30
78	Orientation and Function of a Membrane-Bound Enzyme Monitored by Electrochemical Surface-Enhanced Infrared Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2013, 4, 2794-2798.	2.1	29
79	Electron transfer between the QmoABC membrane complex and adenosine 5â€²-phosphosulfate reductase. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 380-386.	0.5	28
80	Bioelectrocatalytic Activity of W-Formate Dehydrogenase Covalently Immobilized on Functionalized Gold and Graphite Electrodes. ACS Applied Materials & Interfaces, 2021, 13, 11891-11900.	4.0	28
81	Genome analysis of Desulfotomaculum gibsoniae strain GrollT a highly versatile Gram-positive sulfate-reducing bacterium. Standards in Genomic Sciences, 2014, 9, 821-839.	1.5	27
82	An electrogenic redox loop in sulfate reduction reveals a likely widespread mechanism of energy conservation. Nature Communications, 2018, 9, 5448.	5.8	27
83	Dissimilatory sulfate reduction in the archaeon â€˜Candidatus Vulcanisaeta moutnovskiaâ€™ sheds light on the evolution of sulfur metabolism. Nature Microbiology, 2020, 5, 1428-1438.	5.9	27
84	Electron transfer between periplasmic formate dehydrogenase and cytochromes c in Desulfovibrio desulfuricans ATCC 27774. Journal of Biological Inorganic Chemistry, 2012, 17, 831-838.	1.1	26
85	DsrL mediates electron transfer between NADH and rDsrAB in Allochromatium vinosum. Environmental Microbiology, 2020, 22, 783-795.	1.8	26
86	Understanding the local chemical environment of bioelectrocatalysis. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	26
87	Crystallization and preliminary structure determination of the membrane-bound complex cytochromecnitrite reductase fromDesulfovibrio vulgarisHildenborough. Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 565-568.	0.7	25
88	Genome analyses of the carboxydotrophic sulfate-reducers Desulfotomaculum nigrificans and Desulfotomaculum carboxydivorans and reclassification of Desulfotomaculum caboxydivorans as a later synonym of Desulfotomaculum nigrificans. Standards in Genomic Sciences, 2014, 9, 655-675.	1.5	25
89	Electron transfer pathways of formate-driven H2 production in Desulfovibrio. Applied Microbiology and Biotechnology, 2016, 100, 8135-8146.	1.7	25
90	An Enzymatic Route to H ₂ Storage. Science, 2013, 342, 1329-1330.	6.0	24

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91	Roles of HynAB and Ech, the Only Two Hydrogenases Found in the Model Sulfate Reducer Desulfovibrio gigas. Journal of Bacteriology, 2013, 195, 4753-4760.	1.0	24
92	Oxidative inactivation of NiFeSe hydrogenase. Chemical Communications, 2015, 51, 14223-14226.	2.2	24
93	Characterization of the [NiFe] Hydrogenase from the Sulfate ReducerDesulfovibrio vulgarisHildenborough. Biochemical and Biophysical Research Communications, 1997, 240, 75-79.	1.0	23
94	Biochemical, genetic and genomic characterization of anaerobic electron transport pathways in sulphate-reducingDelta proteobacteria. , 2007, , 215-240.		23
95	Redox Properties of Lysine- and Methionine-Coordinated Hemes Ensure Downhill Electron Transfer in NrfH₂A₄ Nitrite Reductase. Journal of Physical Chemistry B, 2012, 116, 5637-5643.	1.2	23
96	Influence of the protein structure surrounding the active site on the catalytic activity of [NiFeSe] hydrogenases. Journal of Biological Inorganic Chemistry, 2013, 18, 419-427.	1.1	23
97	A continuous system for biocatalytic hydrogenation of CO2 to formate. Bioresource Technology, 2017, 235, 149-156.	4.8	23
98	The membrane-bound high-molecular-mass cytochromes c from Desulfovibrio gigas and Desulfovibrio vulgaris Hildenborough; EPR and MÃ¶ssbauer studies. Journal of Biological Inorganic Chemistry, 1997, 2, 23-31.	1.1	22
99	Purification, crystallization and preliminary crystallographic analysis of a dissimilatory DsrAB sulfite reductase in complex with DsrC. Journal of Structural Biology, 2008, 164, 236-239.	1.3	22
100	Complete genome sequence of the sulfate-reducing firmicute Desulfotomaculum ruminis type strain (DLT). Standards in Genomic Sciences, 2012, 7, 304-319.	1.5	22
101	Hemeproteins in anaerobes. , 1998, , 65-89.		21
102	Interaction of the active site of the Niâ€“Feâ€“Se hydrogenase from Desulfovibrio vulgaris Hildenborough with carbon monoxide and oxygen inhibitors. Journal of Biological Inorganic Chemistry, 2010, 15, 1285-1292.	1.1	21
103	EPR characterization of the new Qrc complex from sulfate reducing bacteria and its ability to form a supercomplex with hydrogenase and TpIc ₃. FEBS Letters, 2011, 585, 2177-2181.	1.3	21
104	A genomic island of the sulfateâ€reducing bacterium Desulfovibrio vulgaris Hildenborough promotes survival under stress conditions while decreasing the efficiency of anaerobic growth. Environmental Microbiology, 2009, 11, 981-991.	1.8	20
105	Redox states of Desulfovibrio vulgaris DsrC, a key protein in dissimilatory sulfite reduction. Biochemical and Biophysical Research Communications, 2013, 441, 732-736.	1.0	20
106	Induction of a Proton Gradient across a Goldâ€Supported Biomimetic Membrane by Electroenzymatic H₂ Oxidation. Angewandte Chemie - International Edition, 2015, 54, 2684-2687.	7.2	20
107	Closing the Gap for Electronic Shortâ€Circuiting: Photosystemâ€…I Mixed Monolayers Enable Improved Anisotropic Electron Flow in Biophotovoltaic Devices. Angewandte Chemie - International Edition, 2021, 60, 2000-2006.	7.2	20
108	Water exchange of intermediates in a non-haem iron, Î±-ketoglutarate dioxygenase, deacetoxy-/deacetylcephalosporin C synthase. Journal of the Chemical Society Chemical Communications, 1993, , 105-108.	2.0	18

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109	The DsrD functional marker protein is an allosteric activator of the DsrAB dissimilatory sulfite reductase. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	18
110	Fractionation of sulfur and hydrogen isotopes inDesulfovibrio vulgariswith perturbed DsrC expression. FEMS Microbiology Letters, 2016, 363, fnw226.	0.7	17
111	Elucidating Film Loss and the Role of Hydrogen Bonding of Adsorbed Redox Enzymes by Electrochemical Quartz Crystal Microbalance Analysis. ACS Catalysis, 2022, 12, 1886-1897.	5.5	16
112	Substrate specificity of recombinant Streptomyces clavuligerus deacetoxycephalosporin C synthase.. Bioorganic and Medicinal Chemistry Letters, 1994, 4, 1595-1600.	1.0	15
113	Substrate Binding to a Nitrite Reductase Induces a Spin Transition. Journal of Physical Chemistry B, 2010, 114, 5563-5566.	1.2	15
114	A Hydrophilic Channel Is Involved in Oxidative Inactivation of a [NiFeSe] Hydrogenase. ACS Catalysis, 2019, 9, 8509-8519.	5.5	15
115	Bioremoval of priority polycyclic aromatic hydrocarbons by a microbial community with high sorption ability. Environmental Science and Pollution Research, 2017, 24, 3550-3561.	2.7	14
116	Redox loops in anaerobic respiration - The role of the widespread NrfD protein family and associated dimeric redox module. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148416.	0.5	14
117	Characterization of the [NiFeSe] hydrogenase from Desulfovibrio vulgaris Hildenborough. Methods in Enzymology, 2018, 613, 169-201.	0.4	12
118	The Iron-Sulfur Flavoprotein DsrL as NAD(P)H:Acceptor Oxidoreductase in Oxidative and Reductive Dissimilatory Sulfur Metabolism. Frontiers in Microbiology, 2020, 11, 578209.	1.5	12
119	Redoxâ€Polymerâ€Wired [NiFeSe] Hydrogenase Variants with Enhanced O 2 Stability for Tripleâ€Protected Highâ€Currentâ€Density H 2 â€Oxidation Bioanodes. ChemSusChem, 2020, 13, 3627-3635.	3.6	11
120	Structural and spectroscopic characterization of a HdrAâ€like subunit from HyphomicrobiumÂdenitrificans. FEBS Journal, 2021, 288, 1664-1678.	2.2	11
121	H₂â€Fueled ATP Synthesis on an Electrode: Mimicking Cellular Respiration. Angewandte Chemie, 2016, 128, 6324-6328.	1.6	10
122	Evidence for epoxidase activity in deacetoxy/deacetylcephalosporin C synthase. Tetrahedron, 1993, 49, 4907-4922.	1.0	9
123	Respiratory Membrane Complexes of Desulfovibrio. , 2008, , 24-35.		9
124	Spectroscopic and Structural Characterization of Reduced Desulfovibrio vulgaris Hildenborough W-FdhAB Reveals Stable Metal Coordination during Catalysis. ACS Chemical Biology, 2022, 17, 1901-1909.	1.6	9
125	Epoxide formation in the enzymic conversion of [4-2H]exomethylene cephalosporin C by deacetoxy-/deacetylcephalosporin C synthase. Journal of the Chemical Society Chemical Communications, 1992, , 1448.	2.0	8
126	Induction of a Proton Gradient across a Goldâ€Supported Biomimetic Membrane by Electroenzymatic H₂ Oxidation. Angewandte Chemie, 2015, 127, 2722-2725.	1.6	7

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127	Resonance Raman fingerprinting of multiheme cytochromes from the cytochrome c 3 family. Journal of Biological Inorganic Chemistry, 2006, 11, 217-224.	1.1	6
128	Exploring the gas access routes in a [NiFeSe] hydrogenase using crystals pressurized with krypton and oxygen. Journal of Biological Inorganic Chemistry, 2020, 25, 863-874.	1.1	6
129	Enhanced Lightâ€Driven Hydrogen Production by Selfâ€Photosensitized Biohybrid Systems. Angewandte Chemie, 2021, 133, 9137-9144.	1.6	6
130	Spectroelectrochemistry of Type II Cytochromec3on a Glycosylated Self-Assembled Monolayer. Langmuir, 2006, 22, 9809-9811.	1.6	5
131	Purification, crystallization and preliminary crystallographic analysis of the [NiFeSe] hydrogenase fromDesulfovibrio vulgarisHildenborough. Acta Crystallographica Section F: Structural Biology Communications, 2009, 65, 920-922.	0.7	5
132	Proteomic and Isotopic Response of Desulfovibrio vulgaris to DsrC Perturbation. Frontiers in Microbiology, 2019, 10, 658.	1.5	5
133	A Semiâ€artificial Photoelectrochemical Tandem Leaf with a CO₂â€toâ€Formate Efficiency Approaching 1â€‰%. Angewandte Chemie, 2021, 133, 26507-26511.	1.6	4
134	Substrate specificity of soluble recombinant deacetoxycephalosporin C/deacetylcephalosporin C synthase. Bioorganic and Medicinal Chemistry Letters, 1992, 2, 669-672.	1.0	3
135	The enzymatic synthesis of isotopically labelled penicillin Ns with isopenicillin N synthase. Journal of Labelled Compounds and Radiopharmaceuticals, 1998, 41, 1145-1163.	0.5	3
136	Formate Dehydrogenases Reduce CO 2 Rather than HCO 3 â¯ : Anâ€‰Electrochemical Demonstration. Angewandte Chemie, 2021, 133, 10052-10055.	1.6	3
137	Biological Production of Hydrogen. , 2021, , 247-273.		2
138	Gemischte Photosystemâ€Iâ€Monoschichten ermÃ¶glichen einen verbesserten anisotropen Elektronenfluss in Biophotovoltaikâ€Systemen durch UnterdrÃ¼ckung elektrischer KurzschlÃ¼sse. Angewandte Chemie, 2021, 133, 2028-2034.	1.6	0