

Marc Fontecave

List of Publications by Year in descending order

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251
papers

25,770
citations

5574

82
h-index

7745

150
g-index

370
all docs

370
docs citations

370
times ranked

20260
citing authors

#	ARTICLE	IF	CITATIONS
1	Splitting Water with Cobalt. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7238-7266.	13.8	1,231
2	From Hydrogenases to Noble Metal-Free Catalytic Nanomaterials for H ₂ Production and Uptake. <i>Science</i> , 2009, 326, 1384-1387.	12.6	886
3	A Janus cobalt-based catalytic material for electro-splitting of water. <i>Nature Materials</i> , 2012, 11, 802-807.	27.5	784
4	Engineering the Optical Response of the Titanium-MIL-125 Metal-Organic Framework through Ligand Functionalization. <i>Journal of the American Chemical Society</i> , 2013, 135, 10942-10945.	13.7	701
5	Biomimetic assembly and activation of [FeFe]-hydrogenases. <i>Nature</i> , 2013, 499, 66-69.	27.8	597
6	Bio-inspired hydrophobicity promotes CO ₂ reduction on a Cu surface. <i>Nature Materials</i> , 2019, 18, 1222-1227.	27.5	507
7	S-adenosylmethionine: nothing goes to waste. <i>Trends in Biochemical Sciences</i> , 2004, 29, 243-249.	7.5	496
8	Solar fuels generation and molecular systems: is it homogeneous or heterogeneous catalysis?. <i>Chemical Society Reviews</i> , 2013, 42, 2338-2356.	38.1	437
9	Mimicking hydrogenases: From biomimetics to artificial enzymes. <i>Coordination Chemistry Reviews</i> , 2014, 270-271, 127-150.	18.8	426
10	Molecular polypyridine-based metal complexes as catalysts for the reduction of CO ₂ . <i>Chemical Society Reviews</i> , 2017, 46, 761-796.	38.1	426
11	Cobaloxime-Based Photocatalytic Devices for Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 564-567.	13.8	400
12	Proton Electroreduction Catalyzed by Cobaloximes: Functional Models for Hydrogenases. <i>Inorganic Chemistry</i> , 2005, 44, 4786-4795.	4.0	389
13	Cobalt and nickel diimine-dioxime complexes as molecular electrocatalysts for hydrogen evolution with low overvoltages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 20627-20632.	7.1	388
14	H ₂ Evolution and Molecular Electrocatalysts: Determination of Overpotentials and Effect of Homoconjugation. <i>Inorganic Chemistry</i> , 2010, 49, 10338-10347.	4.0	380
15	Electroreduction of CO ₂ on Single-Site Copper-Nitrogen-Doped Carbon Material: Selective Formation of Ethanol and Reversible Restructuration of the Metal Sites. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15098-15103.	13.8	369
16	Electrochemical Reduction of CO ₂ Catalyzed by Fe-N-C Materials: A Structure-Selectivity Study. <i>ACS Catalysis</i> , 2017, 7, 1520-1525.	11.2	363
17	Cobaloximes as Functional Models for Hydrogenases. 2. Proton Electroreduction Catalyzed by Difluoroborylbis(dimethylglyoximate)cobalt(II) Complexes in Organic Media. <i>Inorganic Chemistry</i> , 2007, 46, 1817-1824.	4.0	350
18	Molecular engineering of a cobalt-based electrocatalytic nanomaterial for H ₂ evolution under fully aqueous conditions. <i>Nature Chemistry</i> , 2013, 5, 48-53.	13.6	349

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19	Some general principles for designing electrocatalysts with hydrogenase activity. <i>Coordination Chemistry Reviews</i> , 2005, 249, 1518-1535.	18.8	321
20	Spontaneous activation of [FeFe]-hydrogenases by an inorganic [2Fe] active site mimic. <i>Nature Chemical Biology</i> , 2013, 9, 607-609.	8.0	316
21	Mechanistic Understanding of CO ₂ Reduction Reaction (CO ₂ RR) Toward Multicarbon Products by Heterogeneous Copper-Based Catalysts. <i>ACS Catalysis</i> , 2020, 10, 1754-1768.	11.2	309
22	Artificial photosynthesis as a frontier technology for energy sustainability. <i>Energy and Environmental Science</i> , 2013, 6, 1074.	30.8	284
23	Artificial Photosynthesis: From Molecular Catalysts for Light-driven Water Splitting to Photoelectrochemical Cells. <i>Photochemistry and Photobiology</i> , 2011, 87, 946-964.	2.5	273
24	A Fully Noble Metal-Free Photosystem Based on Cobalt-Polyoxometalates Immobilized in a Porphyrinic Metal-Organic Framework for Water Oxidation. <i>Journal of the American Chemical Society</i> , 2018, 140, 3613-3618.	13.7	272
25	Molecular Cobalt Complexes with Pendant Amines for Selective Electrocatalytic Reduction of Carbon Dioxide to Formic Acid. <i>Journal of the American Chemical Society</i> , 2017, 139, 3685-3696.	13.7	256
26	Noncovalent Modification of Carbon Nanotubes with Pyrene-functionalized Nickel Complexes: Carbon Monoxide Tolerant Catalysts for Hydrogen Evolution and Uptake. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1371-1374.	13.8	254
27	Gas diffusion electrodes, reactor designs and key metrics of low-temperature CO ₂ electrolyzers. <i>Nature Energy</i> , 2022, 7, 130-143.	39.5	237
28	Iron and activated oxygen species in biology: the basic chemistry. , 1999, 12, 195-199.		227
29	Efficient H ₂ -producing photocatalytic systems based on cyclometalated iridium- and tricarbonylrhenium-diimine photosensitizers and cobaloxime catalysts. <i>Dalton Transactions</i> , 2008, , 5567.	3.3	226
30	A Dendritic Nanostructured Copper Oxide Electrocatalyst for the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4792-4796.	13.8	201
31	Maximizing the Photocatalytic Activity of Metal-Organic Frameworks with Aminated-Functionalized Linkers: Substoichiometric Effects in MIL-125-NH ₂ . <i>Journal of the American Chemical Society</i> , 2017, 139, 8222-8228.	13.7	195
32	Biogenesis of Fe-S Cluster by the Bacterial Suf System. <i>Journal of Biological Chemistry</i> , 2003, 278, 38352-38359.	3.4	194
33	Iron-sulfur clusters: ever-expanding roles. <i>Nature Chemical Biology</i> , 2006, 2, 171-174.	8.0	192
34	Water electrolysis and photoelectrolysis on electrodes engineered using biological and bio-inspired molecular systems. <i>Energy and Environmental Science</i> , 2010, 3, 727.	30.8	192
35	Biological Radical Sulfur Insertion Reactions. <i>Chemical Reviews</i> , 2003, 103, 2149-2166.	47.7	178
36	Photocatalytic Carbon Dioxide Reduction with Rhodium-based Catalysts in Solution and Heterogenized within Metal-Organic Frameworks. <i>ChemSusChem</i> , 2015, 8, 603-608.	6.8	177

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37	Iron-Sulfur Cluster Assembly. <i>Journal of Biological Chemistry</i> , 2001, 276, 22604-22607.	3.4	176
38	NAD(P)H:flavin oxidoreductase of <i>Escherichia coli</i> . A ferric iron reductase participating in the generation of the free radical of ribonucleotide reductase.. <i>Journal of Biological Chemistry</i> , 1987, 262, 12325-12331.	3.4	172
39	Cobalt Stress in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2007, 282, 30442-30451.	3.4	160
40	Iron-sulfur cluster biosynthesis in bacteria: Mechanisms of cluster assembly and transfer. <i>Archives of Biochemistry and Biophysics</i> , 2008, 474, 226-237.	3.0	159
41	Iron-Sulfur Cluster Biosynthesis. <i>Journal of Biological Chemistry</i> , 2006, 281, 16256-16263.	3.4	156
42	Terpyridine complexes of first row transition metals and electrochemical reduction of CO ₂ to CO. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 13635-13644.	2.8	154
43	Turning it off! Disfavouring hydrogen evolution to enhance selectivity for CO production during homogeneous CO ₂ reduction by cobalt-terpyridine complexes. <i>Chemical Science</i> , 2015, 6, 2522-2531.	7.4	152
44	MiaB Protein Is a Bifunctional Radical-S-Adenosylmethionine Enzyme Involved in Thiolation and Methylation of tRNA. <i>Journal of Biological Chemistry</i> , 2004, 279, 47555-47563.	3.4	149
45	Biochemical characterization of the HydE and HydG iron-only hydrogenase maturation enzymes from <i>Thermotoga maritima</i> . <i>FEBS Letters</i> , 2005, 579, 5055-5060.	2.8	142
46	Modelling NiFe hydrogenases: nickel-based electrocatalysts for hydrogen production. <i>Dalton Transactions</i> , 2008, , 315-325.	3.3	142
47	SufE Transfers Sulfur from SufS to SufB for Iron-Sulfur Cluster Assembly. <i>Journal of Biological Chemistry</i> , 2007, 282, 13342-13350.	3.4	140
48	Co-immobilization of a Rh Catalyst and a Keggin Polyoxometalate in the UiO-67 Zr-Based Metal-Organic Framework: In Depth Structural Characterization and Photocatalytic Properties for CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2020, 142, 9428-9438.	13.7	138
49	Activation of the Anaerobic Ribonucleotide Reductase from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 1997, 272, 24216-24223.	3.4	137
50	ErpA, an iron-sulfur (Fe-S) protein of the A-type essential for respiratory metabolism in <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 13626-13631.	7.1	134
51	The role of the maturase HydG in [FeFe]-hydrogenase active site synthesis and assembly. <i>FEBS Letters</i> , 2009, 583, 506-511.	2.8	134
52	The Free Radical of the Anaerobic Ribonucleotide Reductase from <i>Escherichia coli</i> Is at Glycine 681. <i>Journal of Biological Chemistry</i> , 1996, 271, 6827-6831.	3.4	133
53	Chemistry for an essential biological process: the reduction of ferric iron. <i>BioMetals</i> , 2002, 15, 341-346.	4.1	133
54	NfuA, a New Factor Required for Maturing Fe/S Proteins in <i>Escherichia coli</i> under Oxidative Stress and Iron Starvation Conditions. <i>Journal of Biological Chemistry</i> , 2008, 283, 14084-14091.	3.4	132

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55	Electrochemical CO ₂ Reduction to Ethanol with Copper-Based Catalysts. ACS Energy Letters, 2021, 6, 694-706.	17.4	130
56	Porous dendritic copper: an electrocatalyst for highly selective CO ₂ reduction to formate in water/ionic liquid electrolyte. Chemical Science, 2017, 8, 742-747.	7.4	128
57	Low-cost high-efficiency system for solar-driven conversion of CO ₂ to hydrocarbons. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9735-9740.	7.1	126
58	Biosynthesis and physiology of coenzyme Q in bacteria. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1004-1011.	1.0	123
59	The [Fe-Fe]-Hydrogenase Maturation Protein HydF from Thermotoga maritima Is a GTPase with an Iron-Sulfur Cluster. Journal of Biological Chemistry, 2006, 281, 769-774.	3.4	119
60	X-ray Structure of the [FeFe]-Hydrogenase Maturase HydE from Thermotoga maritima. Journal of Biological Chemistry, 2008, 283, 18861-18872.	3.4	119
61	Iron-Sulfur (Fe-S) Cluster Assembly. Journal of Biological Chemistry, 2010, 285, 23331-23341.	3.4	119
62	Two Fe-S clusters catalyze sulfur insertion by radical-SAM methylthiotransferases. Nature Chemical Biology, 2013, 9, 333-338.	8.0	113
63	MiaB, a Bifunctional Radical-S-Adenosylmethionine Enzyme Involved in the Thiolation and Methylation of tRNA, Contains Two Essential [4Fe-4S] Clusters. Biochemistry, 2007, 46, 5140-5147.	2.5	111
64	Identification of Eukaryotic and Prokaryotic Methylthiotransferase for Biosynthesis of 2-Methylthio-N ⁶ -threonylcarbamoyladenosine in tRNA. Journal of Biological Chemistry, 2010, 285, 28425-28433.	3.4	111
65	The Mechanism and Substrate Specificity of the NADPH:Flavin Oxidoreductase from Escherichia coli. Journal of Biological Chemistry, 1995, 270, 30392-30400.	3.4	109
66	Iron-Sulfur Center of Biotin Synthase and Lipoate Synthase. Biochemistry, 2000, 39, 4165-4173.	2.5	107
67	Physiologically relevant reconstitution of iron-sulfur cluster biosynthesis uncovers persulfide-processing functions of ferredoxin-2 and frataxin. Nature Communications, 2019, 10, 3566.	12.8	107
68	Ferric reductases or flavin reductases?. BioMetals, 1994, 7, 3-8.	4.1	103
69	Mechanisms of iron-sulfur cluster assembly: the SUF machinery. Journal of Biological Inorganic Chemistry, 2005, 10, 713-721.	2.6	102
70	A structural and functional mimic of the active site of NiFe hydrogenases. Chemical Communications, 2010, 46, 5876.	4.1	101
71	Enzymatic Modification of tRNAs. Journal of Biological Chemistry, 2002, 277, 13367-13370.	3.4	98
72	Phosphine Coordination to a Cobalt Diimine-Dioxime Catalyst Increases Stability during Light-Driven H ₂ Production. Inorganic Chemistry, 2012, 51, 2115-2120.	4.0	98

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73	Chiral-at-Metal Complexes as Asymmetric Catalysts. , 0, , 271-288.		96
74	Analysis of the Heteromeric CsdA-CsdE Cysteine Desulfurase, Assisting Fe-S Cluster Biogenesis in Escherichia coli. Journal of Biological Chemistry, 2005, 280, 26760-26769.	3.4	96
75	A Computational Study of the Mechanism of Hydrogen Evolution by Cobalt(Diimineâ€Dioxime) Catalysts. Chemistry - A European Journal, 2013, 19, 15166-15174.	3.3	91
76	Mechanistic studies of the SufS-SufE cysteine desulfurase: evidence for sulfur transfer from SufS to SufE. FEBS Letters, 2003, 555, 263-267.	2.8	90
77	Characterization of Arabidopsis thaliana SufE2 and SufE3. Journal of Biological Chemistry, 2007, 282, 18254-18264.	3.4	89
78	Native Escherichia coli SufA, Coexpressed with SufBCDSE, Purifies as a [2Feâˆ²S] Protein and Acts as an Feâˆ²S Transporter to Feâˆ²S Target Enzymes. Journal of the American Chemical Society, 2009, 131, 6149-6153.	13.7	89
79	Adenosylmethionine as a source of 5â€²-deoxyadenosyl radicals. Current Opinion in Chemical Biology, 2001, 5, 506-512.	6.1	88
80	High-Current-Density CO2-to-CO Electroreduction on Ag-Alloyed Zn Dendrites at Elevated Pressure. Joule, 2020, 4, 395-406.	24.0	88
81	Formate is the hydrogen donor for the anaerobic ribonucleotide reductase from Escherichia coli.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 8759-8762.	7.1	87
82	Quinolate synthetase, an iron-sulfur enzyme in NAD biosynthesis. FEBS Letters, 2005, 579, 3737-3743.	2.8	87
83	Cobalt stress in Escherichia coli and Salmonella enterica: molecular bases for toxicity and resistance. Metallomics, 2011, 3, 1130.	2.4	87
84	Crystal Structure of NAD(P)H:Flavin Oxidoreductase from Escherichia coli,. Biochemistry, 1999, 38, 7040-7049.	2.5	86
85	SufA/IscA: reactivity studies of a class of scaffold proteins involved in [Fe-S] cluster assembly. Journal of Biological Inorganic Chemistry, 2004, 9, 828-838.	2.6	86
86	A Bioinspired Nickel(bis-dithiolene) Complex as a Homogeneous Catalyst for Carbon Dioxide Electroreduction. ACS Catalysis, 2018, 8, 2030-2038.	11.2	86
87	SufA from Erwinia chrysanthemi. Journal of Biological Chemistry, 2003, 278, 17993-18001.	3.4	85
88	The Anaerobic Escherichia coli Ribonucleotide Reductase. Journal of Biological Chemistry, 1996, 271, 9410-9416.	3.4	83
89	The anaerobic ribonucleoside triphosphate reductase from Escherichia coli requires S-adenosylmethionine as a cofactor.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 3314-3318.	7.1	80
90	Molecular organization, biochemical function, cellular role and evolution of NfuA, an atypical Feâ€S carrier. Molecular Microbiology, 2012, 86, 155-171.	2.5	80

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91	Cobaloxime-Based Artificial Hydrogenases. <i>Inorganic Chemistry</i> , 2014, 53, 8071-8082.	4.0	78
92	Enantioselective Sulfoxidation as a Probe for a Metal-Based Mechanism in H ₂ O ₂ -Dependent Oxidations Catalyzed by a Diiron Complex. <i>Inorganic Chemistry</i> , 1999, 38, 1261-1268.	4.0	76
93	Benchmarking of oxygen evolution catalysts on porous nickel supports. <i>Joule</i> , 2021, 5, 1281-1300.	24.0	74
94	Artificial hydrogenases: biohybrid and supramolecular systems for catalytic hydrogen production or uptake. <i>Current Opinion in Chemical Biology</i> , 2015, 25, 36-47.	6.1	71
95	Versatile functionalization of carbon electrodes with a polypyridine ligand: metallation and electrocatalytic H ⁺ and CO ₂ reduction. <i>Chemical Communications</i> , 2015, 51, 2995-2998.	4.1	70
96	From molecular copper complexes to composite electrocatalytic materials for selective reduction of CO ₂ to formic acid. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3901-3907.	10.3	69
97	Solar-Driven Electrochemical CO ₂ Reduction with Heterogeneous Catalysts. <i>Advanced Energy Materials</i> , 2021, 11, 2002652.	19.5	67
98	[Ni(xbsms)Ru(CO) ₂ Cl ₂]: A Bioinspired Nickel-Ruthenium Functional Model of [NiFe] Hydrogenase. <i>Inorganic Chemistry</i> , 2006, 45, 4334-4336.	4.0	66
99	The NAD(P)H:flavin oxidoreductase from <i>Escherichia coli</i> as a source of superoxide radicals. <i>Journal of Biological Chemistry</i> , 1994, 269, 8182-8188.	3.4	66
100	Spectroscopic Characterization of the Bridging Amine in the Active Site of [FeFe] Hydrogenase Using Isotopologues of the H-Cluster. <i>Journal of the American Chemical Society</i> , 2015, 137, 12744-12747.	13.7	64
101	From Enzyme Maturation to Synthetic Chemistry: The Case of Hydrogenases. <i>Accounts of Chemical Research</i> , 2015, 48, 2380-2387.	15.6	63
102	Assembly of 2Fe-2S and 4Fe-4S Clusters in the Anaerobic Ribonucleotide Reductase from <i>Escherichia coli</i> . <i>Journal of the American Chemical Society</i> , 1999, 121, 6344-6350.	13.7	62
103	DNA Repair and Free Radicals, New Insights into the Mechanism of Spore Photoproduct Lyase Revealed by Single Amino Acid Substitution. <i>Journal of Biological Chemistry</i> , 2008, 283, 36361-36368.	3.4	62
104	Cyclopentadienyl Ruthenium-Nickel Catalysts for Biomimetic Hydrogen Evolution: Electrocatalytic Properties and Mechanistic DFT Studies. <i>Chemistry - A European Journal</i> , 2009, 15, 9350-9364.	3.3	61
105	Carbon-Nanotube-Supported Copper Polyphthalocyanine for Efficient and Selective Electrocatalytic CO ₂ Reduction to CO. <i>ChemSusChem</i> , 2020, 13, 173-179.	6.8	60
106	Reductive Cleavage of S-Adenosylmethionine by Biotin Synthase from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2002, 277, 13449-13454.	3.4	59
107	MiaB Protein from <i>Thermotoga maritima</i> . <i>Journal of Biological Chemistry</i> , 2003, 278, 29515-29524.	3.4	59
108	Dinuclear Nickel-Ruthenium Complexes as Functional Bio-Inspired Models of [NiFe] Hydrogenases. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 2613-2626.	2.0	59

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109	Post-translational Modification of Ribosomal Proteins. <i>Journal of Biological Chemistry</i> , 2010, 285, 5792-5801.	3.4	59
110	The Activating Component of the Anaerobic Ribonucleotide Reductase from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2000, 275, 15669-15675.	3.4	58
111	Thin Films of Fully Noble Metal-Free POM@MOF for Photocatalytic Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47837-47845.	8.0	58
112	The Anaerobic Ribonucleotide Reductase from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 1999, 274, 31291-31296.	3.4	57
113	A genetic analysis of the response of <i>Escherichia coli</i> to cobalt stress. <i>Environmental Microbiology</i> , 2010, 12, 2846-2857.	3.8	57
114	TtcA a new tRNA-thioltransferase with an Fe-S cluster. <i>Nucleic Acids Research</i> , 2014, 42, 7960-7970.	14.5	57
115	Immobilization of a Full Photosystem in the Large-Pore MIL-101 Metal-Organic Framework for CO ₂ reduction. <i>ChemSusChem</i> , 2018, 11, 3315-3322.	6.8	57
116	The lipoate synthase from <i>Escherichia coli</i> is an iron-sulfur protein. <i>FEBS Letters</i> , 1999, 453, 25-28.	2.8	56
117	Mesoporous γ -Fe ₂ O ₃ thin films synthesized via the sol-gel process for light-driven water oxidation. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13224.	2.8	55
118	Combined Experimental/Theoretical Characterization of the Hydrido-Cobaloxime [HCo(dmgh) ₂ (PnBu ₃)]. <i>Inorganic Chemistry</i> , 2012, 51, 7087-7093.	4.0	55
119	Keeping sight of copper in single-atom catalysts for electrochemical carbon dioxide reduction. <i>Nature Communications</i> , 2022, 13, 2280.	12.8	55
120	Catalytic hydrogen production by a Ni-Ru mimic of NiFe hydrogenases involves a proton-coupled electron transfer step. <i>Chemical Communications</i> , 2013, 49, 5004.	4.1	54
121	Biotin Synthase Is a Pyridoxal Phosphate-Dependent Cysteine Desulfurase. <i>Biochemistry</i> , 2002, 41, 9145-9152.	2.5	53
122	The CsdA cysteine desulphurase promotes Fe/S biogenesis by recruiting Suf components and participates to a new sulphur transfer pathway by recruiting CsdL (ex-YgdL), a ubiquitin-like protein. <i>Molecular Microbiology</i> , 2009, 74, 1527-1542.	2.5	52
123	S-Adenosylmethionine-dependent radical-based modification of biological macromolecules. <i>Current Opinion in Structural Biology</i> , 2010, 20, 684-692.	5.7	52
124	Synthesis, Characterization, and DFT Analysis of Bis-Terpyridyl-Based Molecular Cobalt Complexes. <i>Inorganic Chemistry</i> , 2017, 56, 5930-5940.	4.0	52
125	Dinucleotide Spore Photoproduct, a Minimal Substrate of the DNA Repair Spore Photoproduct Lyase Enzyme from <i>Bacillus subtilis</i> . <i>Journal of Biological Chemistry</i> , 2006, 281, 26922-26931.	3.4	51
126	Effect of Cations on the Structure and Electrocatalytic Response of Polyoxometalate-Based Coordination Polymers. <i>Crystal Growth and Design</i> , 2017, 17, 1600-1609.	3.0	50

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127	Zn-Cu Alloy Nanofoams as Efficient Catalysts for the Reduction of CO ₂ to Syngas Mixtures with a Potential Independent H ₂ /CO Ratio. <i>ChemSusChem</i> , 2019, 12, 511-517.	6.8	49
128	Rhenium Complexes Based on 2-Pyridyl-1,2,3-triazole Ligands: A New Class of CO ₂ Reduction Catalysts. <i>Inorganic Chemistry</i> , 2017, 56, 2966-2976.	4.0	48
129	Engineering an [FeFe]-Hydrogenase: Do Accessory Clusters Influence O ₂ Resistance and Catalytic Bias?. <i>Journal of the American Chemical Society</i> , 2018, 140, 5516-5526.	13.7	48
130	Deoxyribonucleotide synthesis in anaerobic microorganisms: The class III ribonucleotide reductase. <i>Progress in Molecular Biology and Translational Science</i> , 2002, 72, 95-127.	1.9	47
131	The NAD(P)H:flavin oxidoreductase from <i>Escherichia coli</i> as a source of superoxide radicals. <i>Journal of Biological Chemistry</i> , 1994, 269, 8182-8.	3.4	47
132	Activation of Class III Ribonucleotide Reductase from <i>E. coli</i> . The Electron Transfer from the Iron-Sulfur Center to S-Adenosylmethionine. <i>Biochemistry</i> , 2001, 40, 6713-6719.	2.5	46
133	A Soluble Metabolon Synthesizes the Isoprenoid Lipid Ubiquinone. <i>Cell Chemical Biology</i> , 2019, 26, 482-492.e7.	5.2	46
134	Activation of Class III Ribonucleotide Reductase by Flavodoxin: A Protein Radical-Driven Electron Transfer to the Iron-Sulfur Center. <i>Biochemistry</i> , 2001, 40, 3730-3736.	2.5	45
135	The iron-sulfur center of biotin synthase: site-directed mutants. <i>Journal of Biological Inorganic Chemistry</i> , 2002, 7, 83-93.	2.6	45
136	Chiral-at-Metal Ruthenium Complex as a Metalloligand for Asymmetric Catalysis. <i>Inorganic Chemistry</i> , 2007, 46, 5354-5360.	4.0	45
137	ubil, a New Gene in <i>Escherichia coli</i> Coenzyme Q Biosynthesis, Is Involved in Aerobic C5-hydroxylation. <i>Journal of Biological Chemistry</i> , 2013, 288, 20085-20092.	3.4	45
138	Electro-Assisted Reduction of CO ₂ to CO and Formaldehyde by (TOA) ₆ [\pm SiW ₁₁ O ₃₉ Co()] Polyoxometalate. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 3642-3648.	2.0	45
139	A Bioinspired Molybdenum Complex as a Catalyst for the Photo- and Electroreduction of Protons. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14090-14093.	13.8	45
140	CO ₂ Reduction to CO in Water: Carbon Nanotube-Gold Nanohybrid as a Selective and Efficient Electrocatalyst. <i>ChemSusChem</i> , 2016, 9, 2317-2320.	6.8	45
141	tRNA-modifying MiaE protein from <i>Salmonella typhimurium</i> is a nonheme diiron monooxygenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 13295-13300.	7.1	44
142	Nonredox thiolation in tRNA occurring via sulfur activation by a [4Fe-4S] cluster. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7355-7360.	7.1	44
143	<i>In vivo</i> [<i>F</i> - <i>S</i>] cluster acquisition by <i>IscR</i> and <i>NsrR</i> , two stress regulators in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2013, 87, 493-508.	2.5	43
144	Electroreduction of CO ₂ on Single-Site Copper-Nitrogen-Doped Carbon Material: Selective Formation of Ethanol and Reversible Restructuration of the Metal Sites. <i>Angewandte Chemie</i> , 2019, 131, 15242-15247.	2.0	43

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