

# Marc Fontecave

## List of Publications by Year in descending order

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251  
papers

25,770  
citations

5558

82  
h-index

7718

150  
g-index

370  
all docs

370  
docs citations

370  
times ranked

20260  
citing authors

#	ARTICLE	IF	CITATIONS
1	Designing a Zn–Ag Catalyst Matrix and Electrolyzer System for CO <sub>2</sub> Conversion to CO and Beyond. <i>Advanced Materials</i> , 2022, 34, e2103963.	11.1	41
2	Gas diffusion electrodes, reactor designs and key metrics of low-temperature CO <sub>2</sub> electrolyzers. <i>Nature Energy</i> , 2022, 7, 130-143.	19.8	237
3	From Nickel Foam to Highly Active NiFe-based Oxygen Evolution Catalysts. <i>ChemElectroChem</i> , 2022, 9, .	1.7	3
4	Understanding the Photocatalytic Reduction of CO <sub>2</sub> with Heterometallic Molybdenum(V) Phosphate Polyoxometalates in Aqueous Media. <i>ACS Catalysis</i> , 2022, 12, 453-464.	5.5	27
5	Keeping sight of copper in single-atom catalysts for electrochemical carbon dioxide reduction. <i>Nature Communications</i> , 2022, 13, 2280.	5.8	55
6	Molecular Inhibition for Selective CO <sub>2</sub> Conversion. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	21
7	Molecular Inhibition for Selective CO <sub>2</sub> Conversion. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	3
8	Dihydrouridine in the Transcriptome: New Life for This Ancient RNA Chemical Modification. <i>ACS Chemical Biology</i> , 2022, 17, 1638-1657.	1.6	9
9	Electrochemical CO <sub>2</sub> reduction on Cu single atom catalyst and Cu nanoclusters: an in situ approach. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 15767-15775.	1.3	4
10	Origin of the Boosting Effect of Polyoxometalates in Photocatalysis: The Case of CO <sub>2</sub> Reduction by a Rh-Containing Metal–Organic Framework. <i>ACS Catalysis</i> , 2022, 12, 9244-9255.	5.5	22
11	Selective Ethylene Production from CO <sub>2</sub> and CO Reduction via Engineering Membrane Electrode Assembly with Porous Dendritic Copper Oxide. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 31933-31941.	4.0	16
12	Solar-Driven Electrochemical CO <sub>2</sub> Reduction with Heterogeneous Catalysts. <i>Advanced Energy Materials</i> , 2021, 11, 2002652.	10.2	67
13	Structural Evidence for a [4Fe–5S] Intermediate in the Non-Redox Desulfuration of Thiouracil. <i>Angewandte Chemie</i> , 2021, 133, 428-435.	1.6	0
14	Structural Evidence for a [4Fe–5S] Intermediate in the Non-Redox Desulfuration of Thiouracil. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 424-431.	7.2	15
15	Artificial maturation of [FeFe] hydrogenase in a redox polymer film. <i>Chemical Communications</i> , 2021, 57, 1750-1753.	2.2	2
16	Electrochemical CO <sub>2</sub> Reduction to Ethanol with Copper-Based Catalysts. <i>ACS Energy Letters</i> , 2021, 6, 694-706.	8.8	130
17	Coupling Electrocatalytic CO <sub>2</sub> Reduction with Thermocatalysis Enables the Formation of a Lactone Monomer. <i>ChemSusChem</i> , 2021, 14, 2198-2204.	3.6	9
18	Iron–sulfur biology invades tRNA modification: the case of U34 sulfuration. <i>Nucleic Acids Research</i> , 2021, 49, 3997-4007.	6.5	16

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19	Benchmarking of oxygen evolution catalysts on porous nickel supports. <i>Joule</i> , 2021, 5, 1281-1300.	11.7	74
20	Advancing the Anode Compartment for Energy Efficient CO <sub>2</sub> Reduction at Neutral pH. <i>ChemElectroChem</i> , 2021, 8, 2726-2736.	1.7	13
21	An enzymatic activation of formaldehyde for nucleotide methylation. <i>Nature Communications</i> , 2021, 12, 4542.	5.8	6
22	Bimetallic effects on Zn-Cu electrocatalysts enhance activity and selectivity for the conversion of CO <sub>2</sub> to CO. <i>Chem Catalysis</i> , 2021, 1, 663-680.	2.9	42
23	Carbon Dioxide Reduction: A Bioinspired Catalysis Approach. <i>Accounts of Chemical Research</i> , 2021, 54, 4250-4261.	7.6	23
24	Structural and Functional Characterization of 4-Hydroxyphenylacetate 3-Hydroxylase from <i>Escherichia coli</i> . <i>ChemBioChem</i> , 2020, 21, 163-170.	1.3	21
25	Carbon Nanotube-Supported Copper Polyphthalocyanine for Efficient and Selective Electrocatalytic CO <sub>2</sub> Reduction to CO. <i>ChemSusChem</i> , 2020, 13, 173-179.	3.6	60
26	Mechanistic Understanding of CO <sub>2</sub> Reduction Reaction (CO <sub>2</sub> RR) Toward Multicarbon Products by Heterogeneous Copper-Based Catalysts. <i>ACS Catalysis</i> , 2020, 10, 1754-1768.	5.5	309
27	High-Current-Density CO <sub>2</sub> -to-CO Electroreduction on Ag-Alloyed Zn Dendrites at Elevated Pressure. <i>Joule</i> , 2020, 4, 395-406.	11.7	88
28	A Heterogeneous Recyclable Rhodium-based Catalyst for the Reduction of Pyridine Dinucleotides and Flavins. <i>ChemCatChem</i> , 2020, 12, 1236-1243.	1.8	8
29	Immobilization of a Molecular Re Complex on MOF-derived Hierarchical Porous Carbon for CO <sub>2</sub> Electroreduction in Water/Ionic Liquid Electrolyte. <i>ChemSusChem</i> , 2020, 13, 6418-6425.	3.6	9
30	Functionalization of Carbon Nanotubes with Nickel Cyclam for the Electrochemical Reduction of CO <sub>2</sub> . <i>ChemSusChem</i> , 2020, 13, 6449-6456.	3.6	27
31	Electroreduction of CO <sub>2</sub> to Formate with Low Overpotential using Cobalt Pyridine Thiolate Complexes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15726-15733.	7.2	38
32	Electroreduction of CO <sub>2</sub> to Formate with Low Overpotential using Cobalt Pyridine Thiolate Complexes. <i>Angewandte Chemie</i> , 2020, 132, 15856-15863.	1.6	13
33	A bioinspired molybdenum-copper molecular catalyst for CO <sub>2</sub> electroreduction. <i>Chemical Science</i> , 2020, 11, 5503-5510.	3.7	40
34	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 <sub>2</sub> Reduction. <i>Journal of the American Chemical Society</i> , 2020, 142, 9428-9438.	6.6	138
35	The O <sub>2</sub> -independent pathway of ubiquinone biosynthesis is essential for denitrification in <i>Pseudomonas aeruginosa</i> . <i>Journal of Biological Chemistry</i> , 2020, 295, 9021-9032.	1.6	25
36	A Single Molecular Stoichiometric P Source for Phase-Selective Synthesis of Crystalline and Amorphous Iron Phosphide Nanocatalysts. <i>ChemNanoMat</i> , 2020, 6, 1208-1219.	1.5	6

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37	Copper-Substituted NiTiO <sub>3</sub> Ilmenite-Type Materials for Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2019, 11, 31038-31048.	4.0	8
38	Physiologically relevant reconstitution of iron-sulfur cluster biosynthesis uncovers persulfide-processing functions of ferredoxin-2 and frataxin. Nature Communications, 2019, 10, 3566.	5.8	107
39	Bio-inspired hydrophobicity promotes CO <sub>2</sub> reduction on a Cu surface. Nature Materials, 2019, 18, 1222-1227.	13.3	507
40	Ubiquinone Biosynthesis over the Entire O <sub>2</sub> Range: Characterization of a Conserved O <sub>2</sub> -Independent Pathway. MBio, 2019, 10, .	1.8	34
41	Electroreduction of CO <sub>2</sub> on Single-Site Copper-Nitrogen-Doped Carbon Material: Selective Formation of Ethanol and Reversible Restructuration of the Metal Sites. Angewandte Chemie, 2019, 131, 15242-15247.	1.6	43
42	Electroreduction of CO <sub>2</sub> on Single-Site Copper-Nitrogen-Doped Carbon Material: Selective Formation of Ethanol and Reversible Restructuration of the Metal Sites. Angewandte Chemie - International Edition, 2019, 58, 15098-15103.	7.2	369
43	Shigella IpaA Binding to Talin Stimulates Filopodial Capture and Cell Adhesion. Cell Reports, 2019, 26, 921-932.e6.	2.9	17
44	A Soluble Metabolon Synthesizes the Isoprenoid Lipid Ubiquinone. Cell Chemical Biology, 2019, 26, 482-492.e7.	2.5	46
45	FeNC catalysts for CO <sub>2</sub> electroreduction to CO: effect of nanostructured carbon supports. Sustainable Energy and Fuels, 2019, 3, 1833-1840.	2.5	12
46	Controlling Hydrogen Evolution during Photoreduction of CO <sub>2</sub> to Formic Acid Using [Rh(R-bpy)(Cp*)Cl] <sup>+</sup> Catalysts: A Structure-Activity Study. Inorganic Chemistry, 2019, 58, 6893-6903.	1.9	31
47	Low-cost high-efficiency system for solar-driven conversion of CO <sub>2</sub> to hydrocarbons. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9735-9740.	3.3	126
48	Bioinspired Artificial [FeFe]-Hydrogenase with a Synthetic H-Cluster. ACS Catalysis, 2019, 9, 4495-4501.	5.5	17
49	Thin Films of Fully Noble Metal-Free POM@MOF for Photocatalytic Water Oxidation. ACS Applied Materials & Interfaces, 2019, 11, 47837-47845.	4.0	58
50	Nickel Complexes Based on Molybdopterin-like Dithiolenes: Catalysts for CO <sub>2</sub> Electroreduction. Organometallics, 2019, 38, 1344-1350.	1.1	34
51	Zn-Cu Alloy Nanofoams as Efficient Catalysts for the Reduction of CO <sub>2</sub> to Syngas Mixtures with a Potential-Independent H <sub>2</sub> /CO Ratio. ChemSusChem, 2019, 12, 511-517.	3.6	49
52	Spectroscopic investigations of a semi-synthetic [FeFe] hydrogenase with propane di-selenol as bridging ligand in the binuclear subsite: comparison to the wild type and propane di-thiol variants. Journal of Biological Inorganic Chemistry, 2018, 23, 481-491.	1.1	13
53	A Fully Noble Metal-Free Photosystem Based on Cobalt-Polyoxometalates Immobilized in a Porphyrinic Metal-Organic Framework for Water Oxidation. Journal of the American Chemical Society, 2018, 140, 3613-3618.	6.6	272
54	A Bioinspired Nickel(bis-dithiolene) Complex as a Homogeneous Catalyst for Carbon Dioxide Electroreduction. ACS Catalysis, 2018, 8, 2030-2038.	5.5	86

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55	Engineering an [FeFe]-Hydrogenase: Do Accessory Clusters Influence O <sub>2</sub> Resistance and Catalytic Bias?. <i>Journal of the American Chemical Society</i> , 2018, 140, 5516-5526.	6.6	48
56	Pyranopterin Related Dithiolene Molybdenum Complexes as Homogeneous Catalysts for CO <sub>2</sub> Photoreduction. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 17033-17037.	7.2	40
57	Pyranopterin Related Dithiolene Molybdenum Complexes as Homogeneous Catalysts for CO <sub>2</sub> Photoreduction. <i>Angewandte Chemie</i> , 2018, 130, 17279-17283.	1.6	7
58	Immobilization of a Full Photosystem in the Large Pore MIL-101 Metal-Organic Framework for CO <sub>2</sub> reduction. <i>ChemSusChem</i> , 2018, 11, 3315-3322.	3.6	57
59	Molecular polypyridine-based metal complexes as catalysts for the reduction of CO <sub>2</sub> . <i>Chemical Society Reviews</i> , 2017, 46, 761-796.	18.7	426
60	Electrochemical Reduction of CO <sub>2</sub> Catalyzed by Fe-N-C Materials: A Structure-Selectivity Study. <i>ACS Catalysis</i> , 2017, 7, 1520-1525.	5.5	363
61	Rhenium Complexes Based on 2-Pyridyl-1,2,3-triazole Ligands: A New Class of CO <sub>2</sub> Reduction Catalysts. <i>Inorganic Chemistry</i> , 2017, 56, 2966-2976.	1.9	48
62	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.	6.6	256
63	Effect of Cations on the Structure and Electrocatalytic Response of Polyoxometalate-Based Coordination Polymers. <i>Crystal Growth and Design</i> , 2017, 17, 1600-1609.	1.4	50
64	Ruthenium-cobalt dinuclear complexes as photocatalysts for CO <sub>2</sub> reduction. <i>Chemical Communications</i> , 2017, 53, 5040-5043.	2.2	19
65	Synthesis, Characterization, and DFT Analysis of Bis-Terpyridyl-Based Molecular Cobalt Complexes. <i>Inorganic Chemistry</i> , 2017, 56, 5930-5940.	1.9	52
66	New Cobalt-Bisterpyridyl Catalysts for Hydrogen Evolution Reaction. <i>ChemCatChem</i> , 2017, 9, 2099-2105.	1.8	36
67	Maximizing the Photocatalytic Activity of Metal-Organic Frameworks with Aminated-Functionalized Linkers: Substoichiometric Effects in MIL-125-NH <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2017, 139, 8222-8228.	6.6	195
68	Structural and functional characterization of the hydrogenase-maturation HydF protein. <i>Nature Chemical Biology</i> , 2017, 13, 779-784.	3.9	38
69	The UbiK protein is an accessory factor necessary for bacterial ubiquinone (UQ) biosynthesis and forms a complex with the UQ biogenesis factor Ubj. <i>Journal of Biological Chemistry</i> , 2017, 292, 11937-11950.	1.6	35
70	A Dendritic Nanostructured Copper Oxide Electrocatalyst for the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4792-4796.	7.2	201
71	A Dendritic Nanostructured Copper Oxide Electrocatalyst for the Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 2017, 129, 4870-4874.	1.6	41
72	The unusual ring scission of a quinoxaline-pyran-fused dithiolene system related to molybdopterin. <i>Dalton Transactions</i> , 2017, 46, 4161-4164.	1.6	10

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73	Site-isolated manganese carbonyl on bipyridine-functionalities of periodic mesoporous organosilicas: efficient CO <sub>2</sub> photoreduction and detection of key reaction intermediates. <i>Chemical Science</i> , 2017, 8, 8204-8213.	3.7	42
74	Enzyme Activation with a Synthetic Catalytic Coenzyme Intermediate: Nucleotide Methylation by Flavoenzymes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12523-12527.	7.2	10
75	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.	3.3	44
76	Porous dendritic copper: an electrocatalyst for highly selective CO <sub>2</sub> reduction to formate in water/ionic liquid electrolyte. <i>Chemical Science</i> , 2017, 8, 742-747.	3.7	128
77	On the Role of Additional [4Fe-4S] Clusters with a Free Coordination Site in Radical-SAM Enzymes. <i>Frontiers in Chemistry</i> , 2017, 5, 17.	1.8	31
78	Artificial Hydrogenases Based on Cobaloximes and Heme Oxygenase. <i>ChemPlusChem</i> , 2016, 81, 1083-1089.	1.3	25
79	A cobalt complex with a bioinspired molybdopterin-like ligand: a catalyst for hydrogen evolution. <i>Dalton Transactions</i> , 2016, 45, 14754-14763.	1.6	33
80	Chemical assembly of multiple metal cofactors: The heterologously expressed multidomain [FeFe]-hydrogenase from <i>Megasphaera elsdenii</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 1734-1740.	0.5	26
81	CO <sub>2</sub> Reduction to CO in Water: Carbon Nanotube-Gold Nanohybrid as a Selective and Efficient Electrocatalyst. <i>ChemSusChem</i> , 2016, 9, 2317-2320.	3.6	45
82	Cu/Cu <sub>2</sub> O Electrodes and CO <sub>2</sub> Reduction to Formic Acid: Effects of Organic Additives on Surface Morphology and Activity. <i>Chemistry - A European Journal</i> , 2016, 22, 14029-14035.	1.7	33
83	Reactivity of the Excited States of the H-Cluster of FeFe Hydrogenases. <i>Journal of the American Chemical Society</i> , 2016, 138, 13612-13618.	6.6	25
84	Porous Hybrid Polymers as Platforms for Heterogeneous Photochemical Catalysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 19994-20002.	4.0	35
85	Synthesis and Reactivity of a Bioinspired Dithiolene Ligand and its Mo Oxo Complex. <i>Chemistry - A European Journal</i> , 2016, 22, 4447-4453.	1.7	13
86	A Simple and Non-Destructive Method for Assessing the Incorporation of Bipyridine Dicarboxylates as Linkers within Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , 2016, 22, 3713-3718.	1.7	28
87	Synthesis, electrochemical and spectroscopic properties of ruthenium(II) complexes containing 2,6-di(1H-imidazo[4,5-f][1,10]phenanthrolin-2-yl)aryl ligands. <i>New Journal of Chemistry</i> , 2016, 40, 1704-1714.	1.4	9
88	Electro-Assisted Reduction of CO <sub>2</sub> to CO and Formaldehyde by (TOA) <sub>6</sub> [SiW <sub>11</sub> O <sub>39</sub> Co( )] Polyoxometalate. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 3642-3648.	1.0	45
89	A Bioinspired Molybdenum Complex as a Catalyst for the Photo- and Electroreduction of Protons. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14090-14093.	7.2	45
90	Artificial hydrogenases: biohybrid and supramolecular systems for catalytic hydrogen production or uptake. <i>Current Opinion in Chemical Biology</i> , 2015, 25, 36-47.	2.8	71

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91	From molecular copper complexes to composite electrocatalytic materials for selective reduction of CO <sub>2</sub> to formic acid. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3901-3907.	5.2	69
92	Artificially matured [FeFe] hydrogenase from <i>Chlamydomonas reinhardtii</i> : a HYSORE and ENDOR study of a non-natural H-cluster. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 5421-5430.	1.3	39
93	Photocatalytic Carbon Dioxide Reduction with Rhodium-based Catalysts in Solution and Heterogenized within Metal-Organic Frameworks. <i>ChemSusChem</i> , 2015, 8, 603-608.	3.6	177
94	Versatile functionalization of carbon electrodes with a polypyridine ligand: metallation and electrocatalytic H <sub>2</sub> and CO <sub>2</sub> reduction. <i>Chemical Communications</i> , 2015, 51, 2995-2998.	2.2	70
95	From Enzyme Maturation to Synthetic Chemistry: The Case of Hydrogenases. <i>Accounts of Chemical Research</i> , 2015, 48, 2380-2387.	7.6	63
96	Turning it off! Disfavouring hydrogen evolution to enhance selectivity for CO production during homogeneous CO <sub>2</sub> reduction by cobalt-terpyridine complexes. <i>Chemical Science</i> , 2015, 6, 2522-2531.	3.7	152
97	Bioinspired Tungsten Dithiolene Catalysts for Hydrogen Evolution: A Combined Electrochemical, Photochemical, and Computational Study. <i>Journal of Physical Chemistry B</i> , 2015, 119, 13524-13533.	1.2	37
98	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.	6.6	64
99	Molecular Investigation of Iron-Sulfur Cluster Assembly Scaffolds under Stress. <i>Biochemistry</i> , 2014, 53, 7867-7869.	1.2	27
100	TtcA a new tRNA-thioltransferase with an Fe-S cluster. <i>Nucleic Acids Research</i> , 2014, 42, 7960-7970.	6.5	57
101	An EPR/HYSORE, Mössbauer, and resonance Raman study of the hydrogenase maturation enzyme HydF: a model for N-coordination to [4Fe-4S] clusters. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 75-84.	1.1	24
102	Mimicking hydrogenases: From biomimetics to artificial enzymes. <i>Coordination Chemistry Reviews</i> , 2014, 270-271, 127-150.	9.5	426
103	Terpyridine complexes of first row transition metals and electrochemical reduction of CO <sub>2</sub> to CO. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 13635-13644.	1.3	154
104	ubjI, a New Gene Required for Aerobic Growth and Proliferation in Macrophage, Is Involved in Coenzyme Q Biosynthesis in <i>Escherichia coli</i> and <i>Salmonella enterica</i> Serovar Typhimurium. <i>Journal of Bacteriology</i> , 2014, 196, 70-79.	1.0	38
105	An integrative computational model for large-scale identification of metalloproteins in microbial genomes: a focus on iron-sulfur cluster proteins. <i>Metallomics</i> , 2014, 6, 1913-1930.	1.0	20
106	Theoretical Modeling of Low-Energy Electronic Absorption Bands in Reduced Cobaloximes. <i>ChemPhysChem</i> , 2014, 15, 2951-2958.	1.0	11
107	Cobaloxime-Based Artificial Hydrogenases. <i>Inorganic Chemistry</i> , 2014, 53, 8071-8082.	1.9	78
108	Biosynthesis and physiology of coenzyme Q in bacteria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 1004-1011.	0.5	123



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109	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.	6.6	701
110	Spontaneous activation of [FeFe]-hydrogenases by an inorganic [2Fe] active site mimic. <i>Nature Chemical Biology</i> , 2013, 9, 607-609.	3.9	316
111	A Computational Study of the Mechanism of Hydrogen Evolution by Cobalt(Diimine-Dioxime) Catalysts. <i>Chemistry - A European Journal</i> , 2013, 19, 15166-15174.	1.7	91
112	Activation of a Unique Flavin-Dependent tRNA-Methylating Agent. <i>Biochemistry</i> , 2013, 52, 8949-8956.	1.2	27
113	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.	2.2	54
114	Solar fuels generation and molecular systems: is it homogeneous or heterogeneous catalysis?. <i>Chemical Society Reviews</i> , 2013, 42, 2338-2356.	18.7	437
115	Molecular engineering of a cobalt-based electrocatalytic nanomaterial for H <sub>2</sub> evolution under fully aqueous conditions. <i>Nature Chemistry</i> , 2013, 5, 48-53.	6.6	349
116	Artificial photosynthesis as a frontier technology for energy sustainability. <i>Energy and Environmental Science</i> , 2013, 6, 1074.	15.6	284
117	<i>In vivo</i> [F-S] cluster acquisition by IscR and NsrR, two stress regulators in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2013, 87, 493-508.	1.2	43
118	Two Fe-S clusters catalyze sulfur insertion by radical-SAM methylthiotransferases. <i>Nature Chemical Biology</i> , 2013, 9, 333-338.	3.9	113
119	Biomimetic assembly and activation of [FeFe]-hydrogenases. <i>Nature</i> , 2013, 499, 66-69.	13.7	597
120	Dye-sensitized nanostructured crystalline mesoporous tin-doped indium oxide films with tunable thickness for photoelectrochemical applications. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8217.	5.2	33
121	ubil, a New Gene in <i>Escherichia coli</i> Coenzyme Q Biosynthesis, Is Involved in Aerobic C <sub>5</sub> -hydroxylation. <i>Journal of Biological Chemistry</i> , 2013, 288, 20085-20092.	1.6	45
122	4-Demethylwyosine Synthase from <i>Pyrococcus abyssi</i> Is a Radical-S-adenosyl-L-methionine Enzyme with an Additional [4Fe-4S] <sub>2</sub> Cluster That Interacts with the Pyruvate Co-substrate. <i>Journal of Biological Chemistry</i> , 2012, 287, 41174-41185.	1.6	42
123	Flavin Conjugates for Delivery of Peptide Nucleic Acids. <i>ChemBioChem</i> , 2012, 13, 2593-2598.	1.3	11
124	FAD/Folate-Dependent tRNA Methyltransferase: Flavin as a New Methyl-Transfer Agent. <i>Journal of the American Chemical Society</i> , 2012, 134, 19739-19745.	6.6	39
125	Molecular organization, biochemical function, cellular role and evolution of NfuA, an atypical Fe-S carrier. <i>Molecular Microbiology</i> , 2012, 86, 155-171.	1.2	80
126	Mesoporous Fe <sub>2</sub> O <sub>3</sub> thin films synthesized via the sol-gel process for light-driven water oxidation. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13224.	1.3	55



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127	A Janus cobalt-based catalytic material for electro-splitting of water. <i>Nature Materials</i> , 2012, 11, 802-807.	13.3	784
128	The methylthiolation reaction mediated by the Radical-SAM enzymes. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012, 1824, 1223-1230.	1.1	27
129	Phosphine Coordination to a Cobalt Diimine-Dioxime Catalyst Increases Stability during Light-Driven H <sub>2</sub> Production. <i>Inorganic Chemistry</i> , 2012, 51, 2115-2120.	1.9	98
130	Combined Experimental-Theoretical Characterization of the Hydrido-Cobaloxime [HCo(dmgh) <sub>2</sub> (P <sub>n</sub> Bu <sub>3</sub> )]. <i>Inorganic Chemistry</i> , 2012, 51, 7087-7093.	1.9	55
131	Cobalt stress in <i>Escherichia coli</i> and <i>Salmonella enterica</i> : molecular bases for toxicity and resistance. <i>Metallomics</i> , 2011, 3, 1130.	1.0	87
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