Marc Fontecave

List of Publications by Year in descending order

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	Designing a Znâ€“Ag Catalyst Matrix and Electrolyzer System for CO₂ Conversion to CO and Beyond. Advanced Materials, 2022, 34, e2103963.	21.0	41
2	Gas diffusion electrodes, reactor designs and key metrics of low-temperature CO2 electrolysers. Nature Energy, 2022, 7, 130-143.	39.5	237
3	From Nickel Foam to Highly Active NiFeâ€based Oxygen Evolution Catalysts. ChemElectroChem, 2022, 9, .	3.4	3
4	Understanding the Photocatalytic Reduction of CO₂with Heterometallic Molybdenum(V) Phosphate Polyoxometalates in Aqueous Media. ACS Catalysis, 2022, 12, 453-464.	11.2	27
5	Keeping sight of copper in single-atom catalysts for electrochemical carbon dioxide reduction. Nature Communications, 2022, 13, 2280.	12.8	55
6	Molecular Inhibition for Selective CO₂ Conversion. Angewandte Chemie - International Edition, 2022, 61, .	13.8	21
7	Molecular Inhibition for Selective CO₂ Conversion. Angewandte Chemie, 2022, 134, .	2.0	3
8	Dihydrouridine in the Transcriptome: New Life for This Ancient RNA Chemical Modification. ACS Chemical Biology, 2022, 17, 1638-1657.	3.4	9
9	Electrochemical CO₂ reduction on Cu single atom catalyst and Cu nanoclusters: an ab initio approach. Physical Chemistry Chemical Physics, 2022, 24, 15767-15775.	2.8	4
10	Origin of the Boosting Effect of Polyoxometalates in Photocatalysis: The Case of CO₂ Reduction by a Rh-Containing Metalâ€“Organic Framework. ACS Catalysis, 2022, 12, 9244-9255.	11.2	22
11	Selective Ethylene Production from CO₂ and CO Reduction via Engineering Membrane Electrode Assembly with Porous Dendritic Copper Oxide. ACS Applied Materials & Interfaces, 2022, 14, 31933-31941.	8.0	16
12	Solarâ€Driven Electrochemical CO₂ Reduction with Heterogeneous Catalysts. Advanced Energy Materials, 2021, 11, 2002652.	19.5	67
13	Structural Evidence for a [4Feâ€5S] Intermediate in the Nonâ€Redox Desulfuration of Thiouracil. Angewandte Chemie, 2021, 133, 428-435.	2.0	0
14	Structural Evidence for a [4Feâ€5S] Intermediate in the Nonâ€Redox Desulfuration of Thiouracil. Angewandte Chemie - International Edition, 2021, 60, 424-431.	13.8	15
15	Artificial maturation of [FeFe] hydrogenase in a redox polymer film. Chemical Communications, 2021, 57, 1750-1753.	4.1	2
16	Electrochemical CO₂ Reduction to Ethanol with Copper-Based Catalysts. ACS Energy Letters, 2021, 6, 694-706.	17.4	130
17	Coupling Electrocatalytic CO₂ Reduction with Thermocatalysis Enables the Formation of a Lactone Monomer. ChemSusChem, 2021, 14, 2198-2204.	6.8	9
18	Ironâ€“sulfur biology invades tRNA modification: the case of U34 sulfuration. Nucleic Acids Research, 2021, 49, 3997-4007.	14.5	16

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19	Benchmarking of oxygen evolution catalysts on porous nickel supports. Joule, 2021, 5, 1281-1300.	24.0	74
20	Advancing the Anode Compartment for Energy Efficient CO₂ Reduction at Neutral pH. ChemElectroChem, 2021, 8, 2726-2736.	3.4	13
21	An enzymatic activation of formaldehyde for nucleotide methylation. Nature Communications, 2021, 12, 4542.	12.8	6
22	Bimetallic effects on Zn-Cu electrocatalysts enhance activity and selectivity for the conversion of CO2 to CO. Chem Catalysis, 2021, 1, 663-680.	6.1	42
23	Carbon Dioxide Reduction: A Bioinspired Catalysis Approach. Accounts of Chemical Research, 2021, 54, 4250-4261.	15.6	23
24	Structural and Functional Characterization of 4â€Hydroxyphenylacetate 3â€Hydroxylase from Escherichia coli. ChemBioChem, 2020, 21, 163-170.	2.6	21
25	Carbonâ€Nanotubeâ€Supported Copper Polyphthalocyanine for Efficient and Selective Electrocatalytic CO₂ Reduction to CO. ChemSusChem, 2020, 13, 173-179.	6.8	60
26	Mechanistic Understanding of CO₂ Reduction Reaction (CO2RR) Toward Multicarbon Products by Heterogeneous Copper-Based Catalysts. ACS Catalysis, 2020, 10, 1754-1768.	11.2	309
27	High-Current-Density CO2-to-CO Electroreduction on Ag-Alloyed Zn Dendrites at Elevated Pressure. Joule, 2020, 4, 395-406.	24.0	88
28	A Heterogeneous Recyclable Rhodiumâ€based Catalyst for the Reduction of Pyridine Dinucleotides and Flavins. ChemCatChem, 2020, 12, 1236-1243.	3.7	8
29	Immobilization of a Molecular Re Complex on MOFâ€derived Hierarchical Porous Carbon for CO₂ Electroreduction in Water/Ionic Liquid Electrolyte. ChemSusChem, 2020, 13, 6418-6425.	6.8	9
30	Functionalization of Carbon Nanotubes with Nickel Cyclam for the Electrochemical Reduction of CO₂. ChemSusChem, 2020, 13, 6449-6456.	6.8	27
31	Electroreduction of CO₂ to Formate with Low Overpotential using Cobalt Pyridine Thiolate Complexes. Angewandte Chemie - International Edition, 2020, 59, 15726-15733.	13.8	38
32	Electroreduction of CO 2 to Formate with Low Overpotential using Cobalt Pyridine Thiolate Complexes. Angewandte Chemie, 2020, 132, 15856-15863.	2.0	13
33	A bioinspired molybdenumâ€“copper molecular catalyst for CO₂ electroreduction. Chemical Science, 2020, 11, 5503-5510.	7.4	40
34	Co-immobilization of a Rh Catalyst and a Keggin Polyoxometalate in the UiO-67 Zr-Based Metalâ€“Organic Framework: In Depth Structural Characterization and Photocatalytic Properties for CO₂ Reduction. Journal of the American Chemical Society, 2020, 142, 9428-9438.	13.7	138
35	The O2-independent pathway of ubiquinone biosynthesis is essential for denitrification in Pseudomonas aeruginosa. Journal of Biological Chemistry, 2020, 295, 9021-9032.	3.4	25
36	A Single Molecular Stoichiometric Pâ€Source for Phaseâ€Selective Synthesis of Crystalline and Amorphous Iron Phosphide Nanocatalysts. ChemNanoMat, 2020, 6, 1208-1219.	2.8	6

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37	Copper-Substituted NiTiO₃ Ilmenite-Type Materials for Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2019, 11, 31038-31048.	8.0	8
38	Physiologically relevant reconstitution of iron-sulfur cluster biosynthesis uncovers persulfide-processing functions of ferredoxin-2 and frataxin. Nature Communications, 2019, 10, 3566.	12.8	107
39	Bio-inspired hydrophobicity promotes CO2 reduction on a Cu surface. Nature Materials, 2019, 18, 1222-1227.	27.5	507
40	Ubiquinone Biosynthesis over the Entire O ₂ Range: Characterization of a Conserved O ₂ -Independent Pathway. MBio, 2019, 10, .	4.1	34
41	Electroreduction of CO₂ on Singleâ€Site Copperâ€Nitrogenâ€Doped Carbon Material: Selective Formation of Ethanol and Reversible Restructuration of the Metal Sites. Angewandte Chemie, 2019, 131, 15242-15247.	2.0	43
42	Electroreduction of CO₂ on Singleâ€Site Copperâ€Nitrogenâ€Doped Carbon Material: Selective Formation of Ethanol and Reversible Restructuration of the Metal Sites. Angewandte Chemie - International Edition, 2019, 58, 15098-15103.	13.8	369
43	Shigella IpaA Binding to Talin Stimulates Filopodial Capture and Cell Adhesion. Cell Reports, 2019, 26, 921-932.e6.	6.4	17
44	A Soluble Metabolon Synthesizes the Isoprenoid Lipid Ubiquinone. Cell Chemical Biology, 2019, 26, 482-492.e7.	5.2	46
45	FeNC catalysts for CO₂ electroreduction to CO: effect of nanostructured carbon supports. Sustainable Energy and Fuels, 2019, 3, 1833-1840.	4.9	12
46	Controlling Hydrogen Evolution during Photoreduction of CO₂ to Formic Acid Using [Rh(R-bpy)(Cp*)Cl]⁺ Catalysts: A Structureâ€“Activity Study. Inorganic Chemistry, 2019, 58, 6893-6903.	4.0	31
47	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
48	Bioinspired Artificial [FeFe]-Hydrogenase with a Synthetic H-Cluster. ACS Catalysis, 2019, 9, 4495-4501.	11.2	17
49	Thin Films of Fully Noble Metal-Free POM@MOF for Photocatalytic Water Oxidation. ACS Applied Materials & Interfaces, 2019, 11, 47837-47845.	8.0	58
50	Nickel Complexes Based on Molybdopterin-like Dithiolenes: Catalysts for CO₂ Electroreduction. Organometallics, 2019, 38, 1344-1350.	2.3	34
51	Znâ€“Cu Alloy Nanofoams as Efficient Catalysts for the Reduction of CO₂ to Syngas Mixtures with a Potentialâ€Independent H₂/CO Ratio. ChemSusChem, 2019, 12, 511-517.	6.8	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.	2.6	13
53	A Fully Noble Metal-Free Photosystem Based on Cobalt-Polyoxometalates Immobilized in a Porphyrinic Metalâ€“Organic Framework for Water Oxidation. Journal of the American Chemical Society, 2018, 140, 3613-3618.	13.7	272
54	A Bioinspired Nickel(bis-dithiolene) Complex as a Homogeneous Catalyst for Carbon Dioxide Electroreduction. ACS Catalysis, 2018, 8, 2030-2038.	11.2	86

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55	Engineering an [FeFe]-Hydrogenase: Do Accessory Clusters Influence O₂ Resistance and Catalytic Bias?. Journal of the American Chemical Society, 2018, 140, 5516-5526.	13.7	48
56	Pyranopterin Related Dithiolene Molybdenum Complexes as Homogeneous Catalysts for CO₂ Photoreduction. Angewandte Chemie - International Edition, 2018, 57, 17033-17037.	13.8	40
57	Pyranopterin Related Dithiolene Molybdenum Complexes as Homogeneous Catalysts for CO 2 Photoreduction. Angewandte Chemie, 2018, 130, 17279-17283.	2.0	7
58	Immobilization of a Full Photosystem in the Largeâ€Pore MILâ€101 Metalâ€“Organic Framework for CO₂ reduction. ChemSusChem, 2018, 11, 3315-3322.	6.8	57
59	Molecular polypyridine-based metal complexes as catalysts for the reduction of CO₂. Chemical Society Reviews, 2017, 46, 761-796.	38.1	426
60	Electrochemical Reduction of CO₂ Catalyzed by Fe-N-C Materials: A Structureâ€“Selectivity Study. ACS Catalysis, 2017, 7, 1520-1525.	11.2	363
61	Rhenium Complexes Based on 2-Pyridyl-1,2,3-triazole Ligands: A New Class of CO₂ Reduction Catalysts. Inorganic Chemistry, 2017, 56, 2966-2976.	4.0	48
62	Molecular Cobalt Complexes with Pendant Amines for Selective Electrocatalytic Reduction of Carbon Dioxide to Formic Acid. Journal of the American Chemical Society, 2017, 139, 3685-3696.	13.7	256
63	Effect of Cations on the Structure and Electrocatalytic Response of Polyoxometalate-Based Coordination Polymers. Crystal Growth and Design, 2017, 17, 1600-1609.	3.0	50
64	Rutheniumâ€“cobalt dinuclear complexes as photocatalysts for CO₂ reduction. Chemical Communications, 2017, 53, 5040-5043.	4.1	19
65	Synthesis, Characterization, and DFT Analysis of Bis-Terpyridyl-Based Molecular Cobalt Complexes. Inorganic Chemistry, 2017, 56, 5930-5940.	4.0	52
66	New Cobaltâ€Bisterpyridyl Catalysts for Hydrogen Evolution Reaction. ChemCatChem, 2017, 9, 2099-2105.	3.7	36
67	Maximizing the Photocatalytic Activity of Metalâ€“Organic Frameworks with Aminated-Functionalized Linkers: Substoichiometric Effects in MIL-125-NH₂. Journal of the American Chemical Society, 2017, 139, 8222-8228.	13.7	195
68	Structural and functional characterization of the hydrogenase-maturation HydF protein. Nature Chemical Biology, 2017, 13, 779-784.	8.0	38
69	The UbiK protein is an accessory factor necessary for bacterial ubiquinone (UQ) biosynthesis and forms a complex with the UQ biogenesis factor UbiJ. Journal of Biological Chemistry, 2017, 292, 11937-11950.	3.4	35
70	A Dendritic Nanostructured Copper Oxide Electrocatalyst for the Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2017, 56, 4792-4796.	13.8	201
71	A Dendritic Nanostructured Copper Oxide Electrocatalyst for the Oxygen Evolution Reaction. Angewandte Chemie, 2017, 129, 4870-4874.	2.0	41
72	The unusual ring scission of a quinoxaline-pyran-fused dithiolene system related to molybdopterin. Dalton Transactions, 2017, 46, 4161-4164.	3.3	10

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73	Site-isolated manganese carbonyl on bipyridine-functionalities of periodic mesoporous organosilicas: efficient CO₂ photoreduction and detection of key reaction intermediates. Chemical Science, 2017, 8, 8204-8213.	7.4	42
74	Enzyme Activation with a Synthetic Catalytic Coâ€enzyme Intermediate: Nucleotide Methylation by Flavoenzymes. Angewandte Chemie - International Edition, 2017, 56, 12523-12527.	13.8	10
75	Nonredox thiolation in tRNA occurring via sulfur activation by a [4Fe-4S] cluster. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7355-7360.	7.1	44
76	Porous dendritic copper: an electrocatalyst for highly selective CO₂ reduction to formate in water/ionic liquid electrolyte. Chemical Science, 2017, 8, 742-747.	7.4	128
77	On the Role of Additional [4Fe-4S] Clusters with a Free Coordination Site in Radical-SAM Enzymes. Frontiers in Chemistry, 2017, 5, 17.	3.6	31
78	Artificial Hydrogenases Based on Cobaloximes and Heme Oxygenase. ChemPlusChem, 2016, 81, 1083-1089.	2.8	25
79	A cobalt complex with a bioinspired molybdopterin-like ligand: a catalyst for hydrogen evolution. Dalton Transactions, 2016, 45, 14754-14763.	3.3	33
80	Chemical assembly of multiple metal cofactors: The heterologously expressed multidomain [FeFe]-hydrogenase from Megasphaera elsdenii. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1734-1740.	1.0	26
81	CO₂ Reduction to CO in Water: Carbon Nanotubeâ€“Gold Nanohybrid as a Selective and Efficient Electrocatalyst. ChemSusChem, 2016, 9, 2317-2320.	6.8	45
82	Cu/Cu₂O Electrodes and CO₂ Reduction to Formic Acid: Effects of Organic Additives on Surface Morphology and Activity. Chemistry - A European Journal, 2016, 22, 14029-14035.	3.3	33
83	Reactivity of the Excited States of the H-Cluster of FeFe Hydrogenases. Journal of the American Chemical Society, 2016, 138, 13612-13618.	13.7	25
84	Porousâ€“Hybrid Polymers as Platforms for Heterogeneous Photochemical Catalysis. ACS Applied Materials & Interfaces, 2016, 8, 19994-20002.	8.0	35
85	Synthesis and Reactivity of a Bioâ€inspired Dithiolene Ligand and its Mo Oxo Complex. Chemistry - A European Journal, 2016, 22, 4447-4453.	3.3	13
86	A Simple and Nonâ€Destructive Method for Assessing the Incorporation of Bipyridine Dicarboxylates as Linkers within Metalâ€“Organic Frameworks. Chemistry - A European Journal, 2016, 22, 3713-3718.	3.3	28
87	Synthesis, electrochemical and spectroscopic properties of ruthenium(<scp>ii</scp>) complexes containing 2,6-di(1H-imidazo[4,5-f][1,10]phenanthrolin-2-yl)aryl ligands. New Journal of Chemistry, 2016, 40, 1704-1714.	2.8	9
88	Electroâ€Assisted Reduction of CO₂ to CO and Formaldehyde by (TOA)₆[Î±â€SiW₁₁O₃₉Co(_)] Polyoxometalate. European Journal of Inorganic Chemistry, 2015, 2015, 3642-3648.	2.0	45
89	A Bioinspired Molybdenum Complex as a Catalyst for the Photoâ€and Electroreduction of Protons. Angewandte Chemie - International Edition, 2015, 54, 14090-14093.	13.8	45
90	Artificial hydrogenases: biohybrid and supramolecular systems for catalytic hydrogen production or uptake. Current Opinion in Chemical Biology, 2015, 25, 36-47.	6.1	71

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91	From molecular copper complexes to composite electrocatalytic materials for selective reduction of CO₂ to formic acid. Journal of Materials Chemistry A, 2015, 3, 3901-3907.	10.3	69
92	Artificially maturated [FeFe] hydrogenase from Chlamydomonas reinhardtii: a HYSCORE and ENDOR study of a non-natural H-cluster. Physical Chemistry Chemical Physics, 2015, 17, 5421-5430.	2.8	39
93	Photocatalytic Carbon Dioxide Reduction with Rhodiumâ€based Catalysts in Solution and Heterogenized within Metalâ€“Organic Frameworks. ChemSusChem, 2015, 8, 603-608.	6.8	177
94	Versatile functionalization of carbon electrodes with a polypyridine ligand: metallation and electrocatalytic H⁺ and CO₂ reduction. Chemical Communications, 2015, 51, 2995-2998.	4.1	70
95	From Enzyme Maturation to Synthetic Chemistry: The Case of Hydrogenases. Accounts of Chemical Research, 2015, 48, 2380-2387.	15.6	63
96	Turning it off! Disfavouring hydrogen evolution to enhance selectivity for CO production during homogeneous CO₂ reduction by cobaltâ€“terpyridine complexes. Chemical Science, 2015, 6, 2522-2531.	7.4	152
97	Bioinspired Tungsten Dithiolene Catalysts for Hydrogen Evolution: A Combined Electrochemical, Photochemical, and Computational Study. Journal of Physical Chemistry B, 2015, 119, 13524-13533.	2.6	37
98	Spectroscopic Characterization of the Bridging Amine in the Active Site of [FeFe] Hydrogenase Using Isotopologues of the H-Cluster. Journal of the American Chemical Society, 2015, 137, 12744-12747.	13.7	64
99	Molecular Investigation of Ironâ€“Sulfur Cluster Assembly Scaffolds under Stress. Biochemistry, 2014, 53, 7867-7869.	2.5	27
100	TtcA a new tRNA-thioltransferase with an Fe-S cluster. Nucleic Acids Research, 2014, 42, 7960-7970.	14.5	57
101	An EPR/HYSCORE, MÃ¶ssbauer, and resonance Raman study of the hydrogenase maturation enzyme HydF: a model for N-coordination to [4Feâ€“4S] clusters. Journal of Biological Inorganic Chemistry, 2014, 19, 75-84.	2.6	24
102	Mimicking hydrogenases: From biomimetics to artificial enzymes. Coordination Chemistry Reviews, 2014, 270-271, 127-150.	18.8	426
103	Terpyridine complexes of first row transition metals and electrochemical reduction of CO₂ to CO. Physical Chemistry Chemical Physics, 2014, 16, 13635-13644.	2.8	154
104	ubiJ, a New Gene Required for Aerobic Growth and Proliferation in Macrophage, Is Involved in Coenzyme Q Biosynthesis in Escherichia coli and Salmonella enterica Serovar Typhimurium. Journal of Bacteriology, 2014, 196, 70-79.	2.2	38
105	An integrative computational model for large-scale identification of metalloproteins in microbial genomes: a focus on ironâ€“sulfur cluster proteins. Metallomics, 2014, 6, 1913-1930.	2.4	20
106	Theoretical Modeling of Lowâ€Energy Electronic Absorption Bands in Reduced Cobaloximes. ChemPhysChem, 2014, 15, 2951-2958.	2.1	11
107	Cobaloxime-Based Artificial Hydrogenases. Inorganic Chemistry, 2014, 53, 8071-8082.	4.0	78
108	Biosynthesis and physiology of coenzyme Q in bacteria. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1004-1011.	1.0	123

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109	Engineering the Optical Response of the Titanium-MIL-125 Metalâ€“Organic Framework through Ligand Functionalization. Journal of the American Chemical Society, 2013, 135, 10942-10945.	13.7	701
110	Spontaneous activation of [FeFe]-hydrogenases by an inorganic [2Fe] active site mimic. Nature Chemical Biology, 2013, 9, 607-609.	8.0	316
111	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
112	Activation of a Unique Flavin-Dependent tRNA-Methylating Agent. Biochemistry, 2013, 52, 8949-8956.	2.5	27
113	Catalytic hydrogen production by a Niâ€“Ru mimic of NiFe hydrogenases involves a proton-coupled electron transfer step. Chemical Communications, 2013, 49, 5004.	4.1	54
114	Solar fuels generation and molecular systems: is it homogeneous or heterogeneous catalysis?. Chemical Society Reviews, 2013, 42, 2338-2356.	38.1	437
115	Molecular engineering of a cobalt-based electrocatalytic nanomaterial for H2 evolution under fully aqueous conditions. Nature Chemistry, 2013, 5, 48-53.	13.6	349
116	Artificial photosynthesis as a frontier technology for energy sustainability. Energy and Environmental Science, 2013, 6, 1074.	30.8	284
117	In vivo [<scp>F</scp>eâ€<scp>S</scp>] cluster acquisition by <scp>IscR</scp> and <scp>NsrR</scp>, two stress regulators in <scp>E</scp>scherichia coli. Molecular Microbiology, 2013, 87, 493-508.	2.5	43
118	Two Fe-S clusters catalyze sulfur insertion by radical-SAM methylthiotransferases. Nature Chemical Biology, 2013, 9, 333-338.	8.0	113
119	Biomimetic assembly and activation of [FeFe]-hydrogenases. Nature, 2013, 499, 66-69.	27.8	597
120	Dye-sensitized nanostructured crystalline mesoporous tin-doped indium oxide films with tunable thickness for photoelectrochemical applications. Journal of Materials Chemistry A, 2013, 1, 8217.	10.3	33
121	ubiI, a New Gene in Escherichia coli Coenzyme Q Biosynthesis, Is Involved in Aerobic C5-hydroxylation. Journal of Biological Chemistry, 2013, 288, 20085-20092.	3.4	45
122	4-Demethylwyosine Synthase from Pyrococcus abyssi Is a Radical-S-adenosyl-l-methionine Enzyme with an Additional [4Fe-4S]+2 Cluster That Interacts with the Pyruvate Co-substrate. Journal of Biological Chemistry, 2012, 287, 41174-41185.	3.4	42
123	Flavin Conjugates for Delivery of Peptide Nucleic Acids. ChemBioChem, 2012, 13, 2593-2598.	2.6	11
124	FAD/Folate-Dependent tRNA Methyltransferase: Flavin as a New Methyl-Transfer Agent. Journal of the American Chemical Society, 2012, 134, 19739-19745.	13.7	39
125	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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128	The methylthiolation reaction mediated by the Radical-SAM enzymes. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2012, 1824, 1223-1230.	2.3	27
129	Phosphine Coordination to a Cobalt Diimineâ€“Dioxime Catalyst Increases Stability during Light-Driven H₂ Production. Inorganic Chemistry, 2012, 51, 2115-2120.	4.0	98
130	Combined Experimentalâ€“Theoretical Characterization of the Hydrido-Cobaloxime [HCo(dmgH)₂(PnBu₃)]. Inorganic Chemistry, 2012, 51, 7087-7093.	4.0	55
131	Cobalt stress in Escherichia coli and Salmonella enterica: molecular bases for toxicity and resistance. Metallomics, 2011, 3, 1130.	2.4	87
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133	Light-driven bioinspired water splitting: Recent developments in photoelectrode materials. Comptes Rendus Chimie, 2011, 14, 799-810.	0.5	20
134	Bioinspired catalysis at the crossroads between biology and chemistry: A remarkable example of an electrocatalytic material mimicking hydrogenases. Comptes Rendus Chimie, 2011, 14, 362-371.	0.5	29
135	Cp*^{â€“}â€Ruthenium–Nickelâ€Based H₂â€Evolving Electrocatalysts as Bioâ€inspired Models of NiFe Hydrogenases. European Journal of Inorganic Chemistry, 2011, 2011, 1094-1099.	2.0	30
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137	Noncovalent Modification of Carbon Nanotubes with Pyreneâ€Functionalized Nickel Complexes: Carbon Monoxide Tolerant Catalysts for Hydrogen Evolution and Uptake. Angewandte Chemie - International Edition, 2011, 50, 1371-1374.	13.8	254
138	Splitting Water with Cobalt. Angewandte Chemie - International Edition, 2011, 50, 7238-7266.	13.8	1,231
139	Methylations: A Radical Mechanism. Chemistry and Biology, 2011, 18, 559-561.	6.0	1
140	Water electrolysis and photoelectrolysis on electrodes engineered using biological and bio-inspired molecular systems. Energy and Environmental Science, 2010, 3, 727.	30.8	192
141	Mechanism of hydrogen evolution catalyzed by NiFe hydrogenases: insights from a Niâ€“Ru model compound. Dalton Transactions, 2010, 39, 3043-3049.	3.3	39
142	Catalytic Transfer of Chiral Information from an Organic Compound to a Coordination Complex. ChemCatChem, 2010, 2, 1533-1534.	3.7	6
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144	Understanding Life as Molecules: Reductionism Versus Vitalism. Angewandte Chemie - International Edition, 2010, 49, 4016-4019.	13.8	16

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146	A genetic analysis of the response of Escherichia coli to cobalt stress. Environmental Microbiology, 2010, 12, 2846-2857.	3.8	57
147	Identification of Eukaryotic and Prokaryotic Methylthiotransferase for Biosynthesis of 2-Methylthio-N6-threonylcarbamoyladenosine in tRNA. Journal of Biological Chemistry, 2010, 285, 28425-28433.	3.4	111
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149	Post-translational Modification of Ribosomal Proteins. Journal of Biological Chemistry, 2010, 285, 5792-5801.	3.4	59
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154	The role of the maturase HydG in [FeFe]â€hydrogenase active site synthesis and assembly. FEBS Letters, 2009, 583, 506-511.	2.8	134
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