# Marc Fontecave

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 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 | Splitting Water with Cobalt. Angewandte Chemie - International Edition, 2011, 50, 7238-7266. | 7.2 | 1,231 |
| 2 | From Hydrogenases to Noble Metalâ€“Free Catalytic Nanomaterials for H <sub>2</sub> Production and Uptake. Science, 2009, 326, 1384-1387. | 6.0 | 886 |
| 3 | A Janus cobalt-based catalytic material for electro-splitting of water. Nature Materials, 2012, 11, 802-807. | 13.3 | 784 |
| 4 | 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. | 6.6 | 701 |
| 5 | Biomimetic assembly and activation of [FeFe]-hydrogenases. Nature, 2013, 499, 66-69. | 13.7 | 597 |
| 6 | Bio-inspired hydrophobicity promotes CO2 reduction on a Cu surface. Nature Materials, 2019, 18, 1222-1227. | 13.3 | 507 |
| 7 | S-adenosylmethionine: nothing goes to waste. Trends in Biochemical Sciences, 2004, 29, 243-249. | 3.7 | 496 |
| 8 | Solar fuels generation and molecular systems: is it homogeneous or heterogeneous catalysis?. Chemical Society Reviews, 2013, 42, 2338-2356. | 18.7 | 437 |
| 9 | Mimicking hydrogenases: From biomimetics to artificial enzymes. Coordination Chemistry Reviews, 2014, 270-271, 127-150. | 9.5 | 426 |
| 10 | Molecular polypyridine-based metal complexes as catalysts for the reduction of CO<sub>2</sub>. Chemical Society Reviews, 2017, 46, 761-796. | 18.7 | 426 |
| 11 | Cobaloximeâ€Based Photocatalytic Devices for Hydrogen Production. Angewandte Chemie - International Edition, 2008, 47, 564-567. | 7.2 | 400 |
| 12 | Proton Electroreduction Catalyzed by Cobaloximes:Â Functional Models for Hydrogenases. Inorganic Chemistry, 2005, 44, 4786-4795. | 1.9 | 389 |
| 13 | Cobalt and nickel diimine-dioxime complexes as molecular electrocatalysts for hydrogen evolution with low overvoltages. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20627-20632. | 3.3 | 388 |
| 14 | H<sub>2</sub> Evolution and Molecular Electrocatalysts: Determination of Overpotentials and Effect of Homoconjugation. Inorganic Chemistry, 2010, 49, 10338-10347. | 1.9 | 380 |
| 15 | Electroreduction of CO<sub>2</sub> 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. | 7.2 | 369 |
| 16 | Electrochemical Reduction of CO<sub>2</sub> Catalyzed by Fe-N-C Materials: A Structureâ€“Selectivity Study. ACS Catalysis, 2017, 7, 1520-1525. | 5.5 | 363 |
| 17 | Cobaloximes as Functional Models for Hydrogenases. 2. Proton Electroreduction Catalyzed by Difluoroborylbis(dimethylglyoximato)cobalt(II) Complexes in Organic Media. Inorganic Chemistry, 2007, 46, 1817-1824. | 1.9 | 350 |
| 18 | Molecular engineering of a cobalt-based electrocatalytic nanomaterial for H2 evolution under fully aqueous conditions. Nature Chemistry, 2013, 5, 48-53. | 6.6 | 349 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Some general principles for designing electrocatalysts with hydrogenase activity. Coordination Chemistry Reviews, 2005, 249, 1518-1535. | 9.5 | 321 |
| 20 | Spontaneous activation of [FeFe]-hydrogenases by an inorganic [2Fe] active site mimic. Nature Chemical Biology, 2013, 9, 607-609. | 3.9 | 316 |
| 21 | Mechanistic Understanding of CO<sub>2</sub> Reduction Reaction (CO2RR) Toward Multicarbon Products by Heterogeneous Copper-Based Catalysts. ACS Catalysis, 2020, 10, 1754-1768. | 5.5 | 309 |
| 22 | Artificial photosynthesis as a frontier technology for energy sustainability. Energy and Environmental Science, 2013, 6, 1074. | 15.6 | 284 |
| 23 | Artificial Photosynthesis: From Molecular Catalysts for Lightâ€driven Water Splitting to Photoelectrochemical Cells. Photochemistry and Photobiology, 2011, 87, 946-964. | 1.3 | 273 |
| 24 | 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. | 6.6 | 272 |
| 25 | 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. | 6.6 | 256 |
| 26 | 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. | 7.2 | 254 |
| 27 | Gas diffusion electrodes, reactor designs and key metrics of low-temperature CO2 electrolysers. Nature Energy, 2022, 7, 130-143. | 19.8 | 237 |
| 28 | Iron and activated oxygen species in biology: the basic chemistry. , 1999, 12, 195-199. | | 227 |
| 29 | Efficient H2-producing photocatalytic systems based on cyclometalated iridium- and tricarbonylrhenium-diimine photosensitizers and cobaloxime catalysts. Dalton Transactions, 2008, , 5567. | 1.6 | 226 |
| 30 | A Dendritic Nanostructured Copper Oxide Electrocatalyst for the Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2017, 56, 4792-4796. | 7.2 | 201 |
| 31 | Maximizing the Photocatalytic Activity of Metalâ€“Organic Frameworks with Aminated-Functionalized Linkers: Substoichiometric Effects in MIL-125-NH<sub>2</sub>. Journal of the American Chemical Society, 2017, 139, 8222-8228. | 6.6 | 195 |
| 32 | Biogenesis of Fe-S Cluster by the Bacterial Suf System. Journal of Biological Chemistry, 2003, 278, 38352-38359. | 1.6 | 194 |
| 33 | Iron-sulfur clusters: ever-expanding roles. Nature Chemical Biology, 2006, 2, 171-174. | 3.9 | 192 |
| 34 | Water electrolysis and photoelectrolysis on electrodes engineered using biological and bio-inspired molecular systems. Energy and Environmental Science, 2010, 3, 727. | 15.6 | 192 |
| 35 | Biological Radical Sulfur Insertion Reactions. Chemical Reviews, 2003, 103, 2149-2166. | 23.0 | 178 |
| 36 | Photocatalytic Carbon Dioxide Reduction with Rhodiumâ€based Catalysts in Solution and Heterogenized within Metalâ€“Organic Frameworks. ChemSusChem, 2015, 8, 603-608. | 3.6 | 177 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Iron-Sulfur Cluster Assembly. Journal of Biological Chemistry, 2001, 276, 22604-22607. | 1.6 | 176 |
| 38 | NAD(P)H:flavin oxidoreductase of Escherichia coli. A ferric iron reductase participating in the generation of the free radical of ribonucleotide reductase.. Journal of Biological Chemistry, 1987, 262, 12325-12331. | 1.6 | 172 |
| 39 | Cobalt Stress in Escherichia coli. Journal of Biological Chemistry, 2007, 282, 30442-30451. | 1.6 | 160 |
| 40 | Ironâ€“sulfur cluster biosynthesis in bacteria: Mechanisms of cluster assembly and transfer. Archives of Biochemistry and Biophysics, 2008, 474, 226-237. | 1.4 | 159 |
| 41 | Iron-Sulfur Cluster Biosynthesis. Journal of Biological Chemistry, 2006, 281, 16256-16263. | 1.6 | 156 |
| 42 | Terpyridine complexes of first row transition metals and electrochemical reduction of CO<sub>2</sub> to CO. Physical Chemistry Chemical Physics, 2014, 16, 13635-13644. | 1.3 | 154 |
| 43 | Turning it off! Disfavouring hydrogen evolution to enhance selectivity for CO production during homogeneous CO<sub>2</sub> reduction by cobaltâ€“terpyridine complexes. Chemical Science, 2015, 6, 2522-2531. | 3.7 | 152 |
| 44 | MiaB Protein Is a Bifunctional Radical-S-Adenosylmethionine Enzyme Involved in Thiolation and Methylation of tRNA. Journal of Biological Chemistry, 2004, 279, 47555-47563. | 1.6 | 149 |
| 45 | Biochemical characterization of the HydE and HydG iron-only hydrogenase maturation enzymes fromThermatoga maritima. FEBS Letters, 2005, 579, 5055-5060. | 1.3 | 142 |
| 46 | Modelling NiFe hydrogenases: nickel-based electrocatalysts for hydrogen production. Dalton Transactions, 2008, , 315-325. | 1.6 | 142 |
| 47 | SufE Transfers Sulfur from SufS to SufB for Iron-Sulfur Cluster Assembly. Journal of Biological Chemistry, 2007, 282, 13342-13350. | 1.6 | 140 |
| 48 | 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 CO<sub>2</sub> Reduction. Journal of the American Chemical Society, 2020, 142, 9428-9438. | 6.6 | 138 |
| 49 | Activation of the Anaerobic Ribonucleotide Reductase fromEscherichia coli. Journal of Biological Chemistry, 1997, 272, 24216-24223. | 1.6 | 137 |
| 50 | ErpA, an ironâ€“sulfur (Feâ€“S) protein of the A-type essential for respiratory metabolism in <i>Escherichia coli</i>. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13626-13631. | 3.3 | 134 |
| 51 | The role of the maturase HydG in [FeFe]â€hydrogenase active site synthesis and assembly. FEBS Letters, 2009, 583, 506-511. | 1.3 | 134 |
| 52 | The Free Radical of the Anaerobic Ribonucleotide Reductase from Escherichia coli Is at Glycine 681. Journal of Biological Chemistry, 1996, 271, 6827-6831. | 1.6 | 133 |
| 53 | Chemistry for an essential biological process: the reduction of ferric iron. BioMetals, 2002, 15, 341-346. | 1.8 | 133 |
| 54 | NfuA, a New Factor Required for Maturing Fe/S Proteins in Escherichia coli under Oxidative Stress and Iron Starvation Conditions. Journal of Biological Chemistry, 2008, 283, 14084-14091. | 1.6 | 132 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Electrochemical CO<sub>2</sub> Reduction to Ethanol with Copper-Based Catalysts. ACS Energy Letters, 2021, 6, 694-706. | 8.8 | 130 |
| 56 | Porous dendritic copper: an electrocatalyst for highly selective CO<sub>2</sub> reduction to formate in water/ionic liquid electrolyte. Chemical Science, 2017, 8, 742-747. | 3.7 | 128 |
| 57 | 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 |
| 58 | Biosynthesis and physiology of coenzyme Q in bacteria. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1004-1011. | 0.5 | 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. | 1.6 | 119 |
| 60 | X-ray Structure of the [FeFe]-Hydrogenase Maturase HydE from Thermotoga maritima. Journal of Biological Chemistry, 2008, 283, 18861-18872. | 1.6 | 119 |
| 61 | Iron-Sulfur (Fe-S) Cluster Assembly. Journal of Biological Chemistry, 2010, 285, 23331-23341. | 1.6 | 119 |
| 62 | Two Fe-S clusters catalyze sulfur insertion by radical-SAM methylthiotransferases. Nature Chemical Biology, 2013, 9, 333-338. | 3.9 | 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. | 1.2 | 111 |
| 64 | Identification of Eukaryotic and Prokaryotic Methylthiotransferase for Biosynthesis of 2-Methylthio-N6-threonylcarbamoyladenosine in tRNA. Journal of Biological Chemistry, 2010, 285, 28425-28433. | 1.6 | 111 |
| 65 | The Mechanism and Substrate Specificity of the NADPH:Flavin Oxidoreductase from Escherichia coli. Journal of Biological Chemistry, 1995, 270, 30392-30400. | 1.6 | 109 |
| 66 | Iron-Sulfur Center of Biotin Synthase and Lipoate Synthase. Biochemistry, 2000, 39, 4165-4173. | 1.2 | 107 |
| 67 | 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 |
| 68 | Ferric reductases or flavin reductases?. BioMetals, 1994, 7, 3-8. | 1.8 | 103 |
| 69 | Mechanisms of ironâ€“sulfur cluster assembly: the SUF machinery. Journal of Biological Inorganic Chemistry, 2005, 10, 713-721. | 1.1 | 102 |
| 70 | A structural and functional mimic of the active site of NiFe hydrogenases. Chemical Communications, 2010, 46, 5876. | 2.2 | 101 |
| 71 | Enzymatic Modification of tRNAs. Journal of Biological Chemistry, 2002, 277, 13367-13370. | 1.6 | 98 |
| 72 | Phosphine Coordination to a Cobalt Diimineâ€“Dioxime Catalyst Increases Stability during Light-Driven H<sub>2</sub> Production. Inorganic Chemistry, 2012, 51, 2115-2120. | 1.9 | 98 |

| # | Article | IF | Citations |
|---|---|---|---|
| 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. | 1.6 | 96 |
| 75 | A Computational Study of the Mechanism of Hydrogen Evolution by Cobalt(Diimineâ€Dioxime) Catalysts. Chemistry - A European Journal, 2013, 19, 15166-15174. | 1.7 | 91 |
| 76 | Mechanistic studies of the SufS-SufE cysteine desulfurase: evidence for sulfur transfer from SufS to SufE. FEBS Letters, 2003, 555, 263-267. | 1.3 | 90 |
| 77 | Characterization of Arabidopsis thaliana SufE2 and SufE3. Journal of Biological Chemistry, 2007, 282, 18254-18264. | 1.6 | 89 |
| 78 | Native Escherichia coli SufA, Coexpressed with SufBCDSE, Purifies as a [2Feâ^'2S] Protein and Acts as an Feâ^'S Transporter to Feâ^'S Target Enzymes. Journal of the American Chemical Society, 2009, 131, 6149-6153. | 6.6 | 89 |
| 79 | Adenosylmethionine as a source of 5â€²-deoxyadenosyl radicals. Current Opinion in Chemical Biology, 2001, 5, 506-512. | 2.8 | 88 |
| 80 | High-Current-Density CO2-to-CO Electroreduction on Ag-Alloyed Zn Dendrites at Elevated Pressure. Joule, 2020, 4, 395-406. | 11.7 | 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. | 3.3 | 87 |
| 82 | Quinolinate synthetase, an iron-sulfur enzyme in NAD biosynthesis. FEBS Letters, 2005, 579, 3737-3743. | 1.3 | 87 |
| 83 | Cobalt stress in Escherichia coli and Salmonella enterica: molecular bases for toxicity and resistance. Metallomics, 2011, 3, 1130. | 1.0 | 87 |
| 84 | Crystal Structure of NAD(P)H:Flavin Oxidoreductase from Escherichia coli,. Biochemistry, 1999, 38, 7040-7049. | 1.2 | 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. | 1.1 | 86 |
| 86 | A Bioinspired Nickel(bis-dithiolene) Complex as a Homogeneous Catalyst for Carbon Dioxide Electroreduction. ACS Catalysis, 2018, 8, 2030-2038. | 5.5 | 86 |
| 87 | SufA from Erwinia chrysanthemi. Journal of Biological Chemistry, 2003, 278, 17993-18001. | 1.6 | 85 |
| 88 | The Anaerobic Escherichia coli Ribonucleotide Reductase. Journal of Biological Chemistry, 1996, 271, 9410-9416. | 1.6 | 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. | 3.3 | 80 |
| 90 | Molecular organization, biochemical function, cellular role and evolution of NfuA, an atypical Feâ€S carrier. Molecular Microbiology, 2012, 86, 155-171. | 1.2 | 80 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Cobaloxime-Based Artificial Hydrogenases. Inorganic Chemistry, 2014, 53, 8071-8082. | 1.9 | 78 |
| 92 | Enantioselective Sulfoxidation as a Probe for a Metal-Based Mechanism in H2O2-Dependent Oxidations Catalyzed by a Diiron Complex. Inorganic Chemistry, 1999, 38, 1261-1268. | 1.9 | 76 |
| 93 | Benchmarking of oxygen evolution catalysts on porous nickel supports. Joule, 2021, 5, 1281-1300. | 11.7 | 74 |
| 94 | Artificial hydrogenases: biohybrid and supramolecular systems for catalytic hydrogen production or uptake. Current Opinion in Chemical Biology, 2015, 25, 36-47. | 2.8 | 71 |
| 95 | Versatile functionalization of carbon electrodes with a polypyridine ligand: metallation and electrocatalytic H<sup>+</sup> and CO<sub>2</sub> reduction. Chemical Communications, 2015, 51, 2995-2998. | 2.2 | 70 |
| 96 | From molecular copper complexes to composite electrocatalytic materials for selective reduction of CO<sub>2</sub> to formic acid. Journal of Materials Chemistry A, 2015, 3, 3901-3907. | 5.2 | 69 |
| 97 | Solarâ€Driven Electrochemical CO<sub>2</sub> Reduction with Heterogeneous Catalysts. Advanced Energy Materials, 2021, 11, 2002652. | 10.2 | 67 |
| 98 | [Ni(xbsms)Ru(CO)2Cl2]: A Bioinspired Nickelâˆ’Ruthenium Functional Model of [NiFe] Hydrogenase. Inorganic Chemistry, 2006, 45, 4334-4336. | 1.9 | 66 |
| 99 | The NAD(P)H:flavin oxidoreductase from Escherichia coli as a source of superoxide radicals.. Journal of Biological Chemistry, 1994, 269, 8182-8188. | 1.6 | 66 |
| 100 | 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. | 6.6 | 64 |
| 101 | From Enzyme Maturation to Synthetic Chemistry: The Case of Hydrogenases. Accounts of Chemical Research, 2015, 48, 2380-2387. | 7.6 | 63 |
| 102 | Assembly of 2Fe-2S and 4Fe-4S Clusters in the Anaerobic Ribonucleotide Reductase from Escherichia coli. Journal of the American Chemical Society, 1999, 121, 6344-6350. | 6.6 | 62 |
| 103 | DNA Repair and Free Radicals, New Insights into the Mechanism of Spore Photoproduct Lyase Revealed by Single Amino Acid Substitution. Journal of Biological Chemistry, 2008, 283, 36361-36368. | 1.6 | 62 |
| 104 | Cyclopentadienyl Rutheniumâ€"Nickel Catalysts for Biomimetic Hydrogen Evolution: Electrocatalytic Properties and Mechanistic DFT Studies. Chemistry - A European Journal, 2009, 15, 9350-9364. | 1.7 | 61 |
| 105 | Carbonâ€Nanotubeâ€Supported Copper Polyphthalocyanine for Efficient and Selective Electrocatalytic CO<sub>2</sub> Reduction to CO. ChemSusChem, 2020, 13, 173-179. | 3.6 | 60 |
| 106 | Reductive Cleavage of S-Adenosylmethionine by Biotin Synthase from Escherichia coli. Journal of Biological Chemistry, 2002, 277, 13449-13454. | 1.6 | 59 |
| 107 | MiaB Protein from Thermotoga maritima. Journal of Biological Chemistry, 2003, 278, 29515-29524. | 1.6 | 59 |
| 108 | Dinuclear Nickelâ€"Ruthenium Complexes as Functional Bio-Inspired Models of [NiFe] Hydrogenases. European Journal of Inorganic Chemistry, 2007, 2007, 2613-2626. | 1.0 | 59 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Post-translational Modification of Ribosomal Proteins. Journal of Biological Chemistry, 2010, 285, 5792-5801. | 1.6 | 59 |
| 110 | The Activating Component of the Anaerobic Ribonucleotide Reductase from Escherichia coli. Journal of Biological Chemistry, 2000, 275, 15669-15675. | 1.6 | 58 |
| 111 | Thin Films of Fully Noble Metal-Free POM@MOF for Photocatalytic Water Oxidation. ACS Applied Materials & Interfaces, 2019, 11, 47837-47845. | 4.0 | 58 |
| 112 | The Anaerobic Ribonucleotide Reductase from Escherichia coli. Journal of Biological Chemistry, 1999, 274, 31291-31296. | 1.6 | 57 |
| 113 | A genetic analysis of the response of <i>Escherichia coli</i> to cobalt stress. Environmental Microbiology, 2010, 12, 2846-2857. | 1.8 | 57 |
| 114 | TtcA a new tRNA-thioltransferase with an Fe-S cluster. Nucleic Acids Research, 2014, 42, 7960-7970. | 6.5 | 57 |
| 115 | Immobilization of a Full Photosystem in the Largeâ€Pore MILâ€101 Metalâ€“Organic Framework for CO<sub>2</sub> reduction. ChemSusChem, 2018, 11, 3315-3322. | 3.6 | 57 |
| 116 | The lipoate synthase from Escherichia coli is an iron-sulfur protein. FEBS Letters, 1999, 453, 25-28. | 1.3 | 56 |
| 117 | Mesoporous Î±-Fe2O3 thin films synthesized via the solâ€“gel process for light-driven water oxidation. Physical Chemistry Chemical Physics, 2012, 14, 13224. | 1.3 | 55 |
| 118 | Combined Experimentalâ€“Theoretical Characterization of the Hydrido-Cobaloxime [HCo(dmgH)<sub>2</sub>(P<i>n</i>Bu<sub>3</sub>)]. Inorganic Chemistry, 2012, 51, 7087-7093. | 1.9 | 55 |
| 119 | Keeping sight of copper in single-atom catalysts for electrochemical carbon dioxide reduction. Nature Communications, 2022, 13, 2280. | 5.8 | 55 |
| 120 | Catalytic hydrogen production by a Niâ€“Ru mimic of NiFe hydrogenases involves a proton-coupled electron transfer step. Chemical Communications, 2013, 49, 5004. | 2.2 | 54 |
| 121 | Biotin Synthase Is a Pyridoxal Phosphate-Dependent Cysteine Desulfurase. Biochemistry, 2002, 41, 9145-9152. | 1.2 | 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 (exâ€YgdL), a ubiquitinâ€modifyingâ€like protein. Molecular Microbiology, 2009, 74, 1527-1542. | 1.2 | 52 |
| 123 | S-Adenosylmethionine-dependent radical-based modification of biological macromolecules. Current Opinion in Structural Biology, 2010, 20, 684-692. | 2.6 | 52 |
| 124 | Synthesis, Characterization, and DFT Analysis of Bis-Terpyridyl-Based Molecular Cobalt Complexes. Inorganic Chemistry, 2017, 56, 5930-5940. | 1.9 | 52 |
| 125 | Dinucleotide Spore Photoproduct, a Minimal Substrate of the DNA Repair Spore Photoproduct Lyase Enzyme from Bacillus subtilis. Journal of Biological Chemistry, 2006, 281, 26922-26931. | 1.6 | 51 |
| 126 | Effect of Cations on the Structure and Electrocatalytic Response of Polyoxometalate-Based Coordination Polymers. Crystal Growth and Design, 2017, 17, 1600-1609. | 1.4 | 50 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Znâ€“Cu Alloy Nanofoams as Efficient Catalysts for the Reduction of CO<sub>2</sub> to Syngas Mixtures with a Potentialâ€Independent H<sub>2</sub>/CO Ratio. ChemSusChem, 2019, 12, 511-517. | 3.6 | 49 |
| 128 | Rhenium Complexes Based on 2-Pyridyl-1,2,3-triazole Ligands: A New Class of CO<sub>2</sub> Reduction Catalysts. Inorganic Chemistry, 2017, 56, 2966-2976. | 1.9 | 48 |
| 129 | Engineering an [FeFe]-Hydrogenase: Do Accessory Clusters Influence O<sub>2</sub> Resistance and Catalytic Bias?. Journal of the American Chemical Society, 2018, 140, 5516-5526. | 6.6 | 48 |
| 130 | Deoxyribonucleotide synthesis in anaerobic microorganisms: The class III ribonucleotide reductase. Progress in Molecular Biology and Translational Science, 2002, 72, 95-127. | 1.9 | 47 |
| 131 | The NAD(P)H:flavin oxidoreductase from Escherichia coli as a source of superoxide radicals. Journal of Biological Chemistry, 1994, 269, 8182-8. | 1.6 | 47 |
| 132 | Activation of Class III Ribonucleotide Reductase fromE. coli. The Electron Transfer from the Ironâˆ’Sulfur Center toS-Adenosylmethionineâ€. Biochemistry, 2001, 40, 6713-6719. | 1.2 | 46 |
| 133 | A Soluble Metabolon Synthesizes the Isoprenoid Lipid Ubiquinone. Cell Chemical Biology, 2019, 26, 482-492.e7. | 2.5 | 46 |
| 134 | Activation of Class III Ribonucleotide Reductase by Flavodoxin:Â A Protein Radical-Driven Electron Transfer to the Ironâˆ’Sulfur Center. Biochemistry, 2001, 40, 3730-3736. | 1.2 | 45 |
| 135 | The iron-sulfur center of biotin synthase: site-directed mutants. Journal of Biological Inorganic Chemistry, 2002, 7, 83-93. | 1.1 | 45 |
| 136 | Chiral-at-Metal Ruthenium Complex as a Metalloligand for Asymmetric Catalysis. Inorganic Chemistry, 2007, 46, 5354-5360. | 1.9 | 45 |
| 137 | ubiI, a New Gene in Escherichia coli Coenzyme Q Biosynthesis, Is Involved in Aerobic C5-hydroxylation. Journal of Biological Chemistry, 2013, 288, 20085-20092. | 1.6 | 45 |
| 138 | Electroâ€Assisted Reduction of CO<sub>2</sub> to CO and Formaldehyde by (TOA)<sub>6</sub>[Î±â€SiW<sub>11</sub>O<sub>39</sub>Co(_)] Polyoxometalate. European Journal of Inorganic Chemistry, 2015, 2015, 3642-3648. | 1.0 | 45 |
| 139 | A Bioinspired Molybdenum Complex as a Catalyst for the Photoâ€•and Electroreduction of Protons. Angewandte Chemie - International Edition, 2015, 54, 14090-14093. | 7.2 | 45 |
| 140 | CO<sub>2</sub> Reduction to CO in Water: Carbon Nanotubeâ€“Gold Nanohybrid as a Selective and Efficient Electrocatalyst. ChemSusChem, 2016, 9, 2317-2320. | 3.6 | 45 |
| 141 | tRNA-modifying MiaE protein from<i>Salmonella typhimurium</i>is a nonheme diiron monooxygenase. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13295-13300. | 3.3 | 44 |
| 142 | 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. | 3.3 | 44 |
| 143 | <i>In vivo</i> [<scp>F</scp>eâ€<scp>S</scp>] cluster acquisition by <scp>IscR</scp> and <scp>NsrR</scp>, two stress regulators in <i><scp>E</scp>scherichia coli</i>. Molecular Microbiology, 2013, 87, 493-508. | 1.2 | 43 |
| 144 | Electroreduction of CO<sub>2</sub> 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. | 1.6 | 43 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | The SUF iron-sulfur cluster biosynthetic machinery: Sulfur transfer from the SUFS-SUFE complex to SUFA. FEBS Letters, 2007, 581, 1362-1368. | 1.3 | 42 |
| 146 | 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. | 1.6 | 42 |
| 147 | Site-isolated manganese carbonyl on bipyridine-functionalities of periodic mesoporous organosilicas: efficient CO<sub>2</sub> photoreduction and detection of key reaction intermediates. Chemical Science, 2017, 8, 8204-8213. | 3.7 | 42 |
| 148 | Bimetallic effects on Zn-Cu electrocatalysts enhance activity and selectivity for the conversion of CO2 to CO. Chem Catalysis, 2021, 1, 663-680. | 2.9 | 42 |
| 149 | A Dendritic Nanostructured Copper Oxide Electrocatalyst for the Oxygen Evolution Reaction. Angewandte Chemie, 2017, 129, 4870-4874. | 1.6 | 41 |
| 150 | Designing a Znâ€“Ag Catalyst Matrix and Electrolyzer System for CO<sub>2</sub> Conversion to CO and Beyond. Advanced Materials, 2022, 34, e2103963. | 11.1 | 41 |
| 151 | Pyranopterin Related Dithiolene Molybdenum Complexes as Homogeneous Catalysts for CO<sub>2</sub> Photoreduction. Angewandte Chemie - International Edition, 2018, 57, 17033-17037. | 7.2 | 40 |
| 152 | A bioinspired molybdenumâ€“copper molecular catalyst for CO<sub>2</sub> electroreduction. Chemical Science, 2020, 11, 5503-5510. | 3.7 | 40 |
| 153 | The spore photoproduct lyase repairs the 5S- and not the 5R-configured spore photoproduct DNA lesion. Chemical Communications, 2006, , 445-447. | 2.2 | 39 |
| 154 | Mechanism of hydrogen evolution catalyzed by NiFe hydrogenases: insights from a Niâ€“Ru model compound. Dalton Transactions, 2010, 39, 3043-3049. | 1.6 | 39 |
| 155 | FAD/Folate-Dependent tRNA Methyltransferase: Flavin as a New Methyl-Transfer Agent. Journal of the American Chemical Society, 2012, 134, 19739-19745. | 6.6 | 39 |
| 156 | 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. | 1.3 | 39 |
| 157 | The NAD(P)H:Flavin Oxidoreductase from Escherichia coli. Journal of Biological Chemistry, 1999, 274, 18252-18260. | 1.6 | 38 |
| 158 | The PLP-dependent biotin synthase from Escherichia coli : mechanistic studies. FEBS Letters, 2002, 532, 465-468. | 1.3 | 38 |
| 159 | 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. | 1.0 | 38 |
| 160 | Structural and functional characterization of the hydrogenase-maturation HydF protein. Nature Chemical Biology, 2017, 13, 779-784. | 3.9 | 38 |
| 161 | Electroreduction of CO<sub>2</sub> to Formate with Low Overpotential using Cobalt Pyridine Thiolate Complexes. Angewandte Chemie - International Edition, 2020, 59, 15726-15733. | 7.2 | 38 |
| 162 | Bioinspired Tungsten Dithiolene Catalysts for Hydrogen Evolution: A Combined Electrochemical, Photochemical, and Computational Study. Journal of Physical Chemistry B, 2015, 119, 13524-13533. | 1.2 | 37 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | New Cobaltâ€Bisterpyridyl Catalysts for Hydrogen Evolution Reaction. ChemCatChem, 2017, 9, 2099-2105. | 1.8 | 36 |
| 164 | Porousâ€"Hybrid Polymers as Platforms for Heterogeneous Photochemical Catalysis. ACS Applied Materials & Interfaces, 2016, 8, 19994-20002. | 4.0 | 35 |
| 165 | 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. | 1.6 | 35 |
| 166 | Crystallization-Induced Asymmetric Transformation of Chiral-at-metal Ruthenium(II) Complexes Bearing Achiral Ligands. Chemistry - A European Journal, 2004, 10, 2548-2554. | 1.7 | 34 |
| 167 | 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 |
| 168 | Nickel Complexes Based on Molybdopterin-like Dithiolenes: Catalysts for CO<sub>2</sub> Electroreduction. Organometallics, 2019, 38, 1344-1350. | 1.1 | 34 |
| 169 | Synthesis, crystal structure, magnetic properties and reactivity of a Niâ€"Ru model of NiFe hydrogenases with a pentacoordinated triplet (S=1) NiII center. Journal of Organometallic Chemistry, 2009, 694, 2866-2869. | 0.8 | 33 |
| 170 | Dye-sensitized nanostructured crystalline mesoporous tin-doped indium oxide films with tunable thickness for photoelectrochemical applications. Journal of Materials Chemistry A, 2013, 1, 8217. | 5.2 | 33 |
| 171 | A cobalt complex with a bioinspired molybdopterin-like ligand: a catalyst for hydrogen evolution. Dalton Transactions, 2016, 45, 14754-14763. | 1.6 | 33 |
| 172 | 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. Chemistry - A European Journal, 2016, 22, 14029-14035. | 1.7 | 33 |
| 173 | Is the NAD(P)H:Flavin Oxidoreductase from a Member of the Ferredoxin-NADP+ Reductase Family?. Journal of Biological Chemistry, 1996, 271, 16656-16661. | 1.6 | 32 |
| 174 | DNA Detection through Signal Amplification by Using NADH:Flavin Oxidoreductase and Oligonucleotide-Flavin Conjugates as Cofactors. Angewandte Chemie - International Edition, 2005, 44, 2764-2767. | 7.2 | 31 |
| 175 | On the Role of Additional [4Fe-4S] Clusters with a Free Coordination Site in Radical-SAM Enzymes. Frontiers in Chemistry, 2017, 5, 17. | 1.8 | 31 |
| 176 | Controlling Hydrogen Evolution during Photoreduction of CO<sub>2</sub> to Formic Acid Using [Rh(R-bpy)(Cp*)Cl]<sup>+</sup> Catalysts: A Structureâ€"Activity Study. Inorganic Chemistry, 2019, 58, 6893-6903. | 1.9 | 31 |
| 177 | Cp*<sup>â€"</sup>â€Rutheniumâ€"Nickelâ€Based H<sub>2</sub>â€Evolving Electrocatalysts as Bioâ€inspired Models of NiFe Hydrogenases. European Journal of Inorganic Chemistry, 2011, 2011, 1094-1099. | 1.0 | 30 |
| 178 | A metal-binding site in the catalytic subunit of anaerobic ribonucleotide reductase. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3826-3831. | 3.3 | 29 |
| 179 | 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. | 0.2 | 29 |
| 180 | Reaction of the NAD(P)H:Flavin Oxidoreductase fromEscherichia coliwith NADPH and Riboflavin:Â Identification of Intermediatesâ€. Biochemistry, 1998, 37, 11879-11887. | 1.2 | 28 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Activation of the Anaerobic Ribonucleotide Reductase by S-Adenosylmethionine. ChemBioChem, 2005, 6, 1960-1962. | 1.3 | 28 |
| 182 | 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. | 1.7 | 28 |
| 183 | The methylthiolation reaction mediated by the Radical-SAM enzymes. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2012, 1824, 1223-1230. | 1.1 | 27 |
| 184 | Activation of a Unique Flavin-Dependent tRNA-Methylating Agent. Biochemistry, 2013, 52, 8949-8956. | 1.2 | 27 |
| 185 | Molecular Investigation of Ironâ€"Sulfur Cluster Assembly Scaffolds under Stress. Biochemistry, 2014, 53, 7867-7869. | 1.2 | 27 |
| 186 | Functionalization of Carbon Nanotubes with Nickel Cyclam for the Electrochemical Reduction of CO<sub>2</sub>. ChemSusChem, 2020, 13, 6449-6456. | 3.6 | 27 |
| 187 | Understanding the Photocatalytic Reduction of CO<sub>2</sub>with Heterometallic Molybdenum(V) Phosphate Polyoxometalates in Aqueous Media. ACS Catalysis, 2022, 12, 453-464. | 5.5 | 27 |
| 188 | Method for Preparing New Flavin Derivatives:Â Synthesis of Flavinâˆ'Thymine Nucleotides and Flavinâˆ'Oligonucleotide Adducts. Journal of Organic Chemistry, 1997, 62, 3520-3528. | 1.7 | 26 |
| 189 | The [4Feâ€"4S] cluster of quinolinate synthase from <i>Escherichia coli</i>: Investigation of cluster ligands. FEBS Letters, 2008, 582, 2937-2944. | 1.3 | 26 |
| 190 | Chemical assembly of multiple metal cofactors: The heterologously expressed multidomain [FeFe]-hydrogenase from Megasphaera elsdenii. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1734-1740. | 0.5 | 26 |
| 191 | Artificial Hydrogenases Based on Cobaloximes and Heme Oxygenase. ChemPlusChem, 2016, 81, 1083-1089. | 1.3 | 25 |
| 192 | Reactivity of the Excited States of the H-Cluster of FeFe Hydrogenases. Journal of the American Chemical Society, 2016, 138, 13612-13618. | 6.6 | 25 |
| 193 | The O2-independent pathway of ubiquinone biosynthesis is essential for denitrification in Pseudomonas aeruginosa. Journal of Biological Chemistry, 2020, 295, 9021-9032. | 1.6 | 25 |
| 194 | Iron-sulfur interconversions in the anaerobic ribonucleotide reductase from Escherichia coli. Journal of Biological Inorganic Chemistry, 1999, 4, 614-620. | 1.1 | 24 |
| 195 | Activation of Class III Ribonucleotide Reductase by Thioredoxin. Journal of Biological Chemistry, 2001, 276, 9587-9589. | 1.6 | 24 |
| 196 | Fluorescent Deazaflavin-Oligonucleotide Probes for Selective Detection of DNA. Angewandte Chemie - International Edition, 2002, 41, 486-489. | 7.2 | 24 |
| 197 | A Diferric Peroxo Complex with an Unprecedented Spin Configuration: AnS=2 System Arising from anS=5/2, 1/2 Pair. Angewandte Chemie - International Edition, 2002, 41, 617-620. | 7.2 | 24 |
| 198 | Maturation of [FeFe]-hydrogenases: Structures and mechanisms. International Journal of Hydrogen Energy, 2010, 35, 10750-10760. | 3.8 | 24 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | 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. | 1.1 | 24 |
| 200 | Further Characterization of the [FeFe]â€Hydrogenase Maturase HydG. European Journal of Inorganic Chemistry, 2011, 2011, 1121-1127. | 1.0 | 23 |
| 201 | Carbon Dioxide Reduction: A Bioinspired Catalysis Approach. Accounts of Chemical Research, 2021, 54, 4250-4261. | 7.6 | 23 |
| 202 | Origin of the Boosting Effect of Polyoxometalates in Photocatalysis: The Case of CO<sub>2</sub> Reduction by a Rh-Containing Metalâ€“Organic Framework. ACS Catalysis, 2022, 12, 9244-9255. | 5.5 | 22 |
| 203 | Structural and Functional Characterization of 4â€Hydroxyphenylacetate 3â€Hydroxylase from <i>Escherichia coli</i>. ChemBioChem, 2020, 21, 163-170. | 1.3 | 21 |
| 204 | Molecular Inhibition for Selective CO<sub>2</sub> Conversion. Angewandte Chemie - International Edition, 2022, 61, . | 7.2 | 21 |
| 205 | Light-driven bioinspired water splitting: Recent developments in photoelectrode materials. Comptes Rendus Chimie, 2011, 14, 799-810. | 0.2 | 20 |
| 206 | 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. | 1.0 | 20 |
| 207 | Rutheniumâ€“cobalt dinuclear complexes as photocatalysts for CO<sub>2</sub> reduction. Chemical Communications, 2017, 53, 5040-5043. | 2.2 | 19 |
| 208 | Shigella IpaA Binding to Talin Stimulates Filopodial Capture and Cell Adhesion. Cell Reports, 2019, 26, 921-932.e6. | 2.9 | 17 |
| 209 | Bioinspired Artificial [FeFe]-Hydrogenase with a Synthetic H-Cluster. ACS Catalysis, 2019, 9, 4495-4501. | 5.5 | 17 |
| 210 | Understanding Life as Molecules: Reductionism Versus Vitalism. Angewandte Chemie - International Edition, 2010, 49, 4016-4019. | 7.2 | 16 |
| 211 | Ironâ€“sulfur biology invades tRNA modification: the case of U34 sulfuration. Nucleic Acids Research, 2021, 49, 3997-4007. | 6.5 | 16 |
| 212 | Selective Ethylene Production from CO<sub>2</sub> and CO Reduction via Engineering Membrane Electrode Assembly with Porous Dendritic Copper Oxide. ACS Applied Materials & Interfaces, 2022, 14, 31933-31941. | 4.0 | 16 |
| 213 | Structural Evidence for a [4Feâ€5S] Intermediate in the Nonâ€Redox Desulfuration of Thiouracil. Angewandte Chemie - International Edition, 2021, 60, 424-431. | 7.2 | 15 |
| 214 | DNA Detection through Signal Amplification by Using NADH:Flavin Oxidoreductase and Oligonucleotide-Flavin Conjugates as Cofactors. Angewandte Chemie, 2005, 117, 2824-2827. | 1.6 | 14 |
| 215 | The Zn center of the anaerobic ribonucleotide reductase from E. coli. Journal of Biological Inorganic Chemistry, 2009, 14, 923-933. | 1.1 | 14 |
| 216 | The flavin reductase ActVB fromStreptomyces coelicolor: Characterization of the electron transferase activity of the flavoprotein form. FEBS Letters, 2005, 579, 2817-2820. | 1.3 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | Synthesis and Reactivity of a Bioâ€inspired Dithiolene Ligand and its Mo Oxo Complex. Chemistry - A European Journal, 2016, 22, 4447-4453. | 1.7 | 13 |
| 218 | 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 |
| 219 | Electroreduction of CO 2 to Formate with Low Overpotential using Cobalt Pyridine Thiolate Complexes. Angewandte Chemie, 2020, 132, 15856-15863. | 1.6 | 13 |
| 220 | Advancing the Anode Compartment for Energy Efficient CO<sub>2</sub> Reduction at Neutral pH. ChemElectroChem, 2021, 8, 2726-2736. | 1.7 | 13 |
| 221 | Characterization of the DNA repair spore photoproduct lyase enzyme from Clostridium acetobutylicum: A radical-SAM enzyme. Comptes Rendus Chimie, 2007, 10, 756-765. | 0.2 | 12 |
| 222 | From Iron and Cysteine to Iron-Sulfur Clusters: the Biogenesis Protein Machineries. EcoSal Plus, 2008, 3, . | 2.1 | 12 |
| 223 | 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 |
| 224 | Flavin-oligonucleotide conjugates: sequence specific photocleavage of DNA. Chemical Communications, 1998, , 2457-2458. | 2.2 | 11 |
| 225 | Flavin Conjugates for Delivery of Peptide Nucleic Acids. ChemBioChem, 2012, 13, 2593-2598. | 1.3 | 11 |
| 226 | Theoretical Modeling of Lowâ€Energy Electronic Absorption Bands in Reduced Cobaloximes. ChemPhysChem, 2014, 15, 2951-2958. | 1.0 | 11 |
| 227 | The unusual ring scission of a quinoxaline-pyran-fused dithiolene system related to molybdopterin. Dalton Transactions, 2017, 46, 4161-4164. | 1.6 | 10 |
| 228 | Enzyme Activation with a Synthetic Catalytic Coâ€enzyme Intermediate: Nucleotide Methylation by Flavoenzymes. Angewandte Chemie - International Edition, 2017, 56, 12523-12527. | 7.2 | 10 |
| 229 | 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. | 1.4 | 9 |
| 230 | Immobilization of a Molecular Re Complex on MOFâ€derived Hierarchical Porous Carbon for CO<sub>2</sub> Electroreduction in Water/Ionic Liquid Electrolyte. ChemSusChem, 2020, 13, 6418-6425. | 3.6 | 9 |
| 231 | Coupling Electrocatalytic CO<sub>2</sub> Reduction with Thermocatalysis Enables the Formation of a Lactone Monomer. ChemSusChem, 2021, 14, 2198-2204. | 3.6 | 9 |
| 232 | Dihydrouridine in the Transcriptome: New Life for This Ancient RNA Chemical Modification. ACS Chemical Biology, 2022, 17, 1638-1657. | 1.6 | 9 |
| 233 | Copper-Substituted NiTiO<sub>3</sub> Ilmenite-Type Materials for Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2019, 11, 31038-31048. | 4.0 | 8 |
| 234 | A Heterogeneous Recyclable Rhodiumâ€based Catalyst for the Reduction of Pyridine Dinucleotides and Flavins. ChemCatChem, 2020, 12, 1236-1243. | 1.8 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | Pyranopterin Related Dithiolene Molybdenum Complexes as Homogeneous Catalysts for CO 2 Photoreduction. Angewandte Chemie, 2018, 130, 17279-17283. | 1.6 | 7 |
| 236 | New flavin and deazaflavin oligonucleotide conjugates for the amperometric detection of DNA hybridization. Chemical Communications, 2004, , 1624-1625. | 2.2 | 6 |
| 237 | Catalytic Transfer of Chiral Information from an Organic Compound to a Coordination Complex. ChemCatChem, 2010, 2, 1533-1534. | 1.8 | 6 |
| 238 | A Single Molecular Stoichiometric Pâ€Source for Phaseâ€Selective Synthesis of Crystalline and Amorphous Iron Phosphide Nanocatalysts. ChemNanoMat, 2020, 6, 1208-1219. | 1.5 | 6 |
| 239 | An enzymatic activation of formaldehyde for nucleotide methylation. Nature Communications, 2021, 12, 4542. | 5.8 | 6 |
| 240 | Mechanisms of formation of free radicals in biological catalysis. Comptes Rendus De L'Academie Des Sciences - Series IIc: Chemistry, 2001, 4, 531-538. | 0.1 | 5 |
| 241 | Sequence-Specific Nucleic Acid Damage Induced by Peptide Nucleic Acid Conjugates That Can Be Enzyme-Activated. Angewandte Chemie - International Edition, 2006, 45, 6859-6861. | 7.2 | 5 |
| 242 | New Light on Methylthiolation Reactions. Chemistry and Biology, 2008, 15, 209-210. | 6.2 | 5 |
| 243 | Electrochemical CO<sub>2</sub> reduction on Cu single atom catalyst and Cu nanoclusters: an <i>ab initio</i> approach. Physical Chemistry Chemical Physics, 2022, 24, 15767-15775. | 1.3 | 4 |
| 244 | From Nickel Foam to Highly Active NiFeâ€based Oxygen Evolution Catalysts. ChemElectroChem, 2022, 9, . | 1.7 | 3 |
| 245 | Molecular Inhibition for Selective CO<sub>2</sub> Conversion. Angewandte Chemie, 2022, 134, . | 1.6 | 3 |
| 246 | Artificial maturation of [FeFe] hydrogenase in a redox polymer film. Chemical Communications, 2021, 57, 1750-1753. | 2.2 | 2 |
| 247 | Methylations: A Radical Mechanism. Chemistry and Biology, 2011, 18, 559-561. | 6.2 | 1 |
| 248 | Ironâ€"Sulfur Clusters in â€œRadical SAMâ€• Enzymes: Spectroscopy and Coordination. Biological Magnetic Resonance, 2010, , 53-82. | 0.4 | 1 |
| 249 | Biological Radical Sulfur Insertion Reactions. ChemInform, 2003, 34, no. | 0.1 | 0 |
| 250 | Structural Evidence for a [4Feâ€5S] Intermediate in the Nonâ€Redox Desulfuration of Thiouracil. Angewandte Chemie, 2021, 133, 428-435. | 1.6 | 0 |
| 251 | A Soluble Metabolon Synthesizes the Isoprenoid Lipid Ubiquinone. SSRN Electronic Journal, 0, , . | 0.4 | 0 |