Vincent Artero

List of Publications by Year
in descending order

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168 papers	17,169 citations	21215 62 h-index	16186 128 g-index
181 all docs	181 docs citations	181 times ranked	15666 citing authors

#	Article	IF	Citations
1	A bio-inspired heterodinuclear hydrogenase CoFe complex. Faraday Discussions, 2022, 234, 34-41.	1.6	2
2	A covalent cobalt diimine-dioxime â€“ fullerene assembly for photoelectrochemical hydrogen production from near-neutral aqueous media. Chemical Science, 2022, 13, 3857-3863.	3.7	2
3	A Bidirectional Bioinspired [FeFe]-Hydrogenase Model. Journal of the American Chemical Society, 2022, 144, 3614-3625.	6.6	31
4	Water-Splitting Artificial Leaf Based on a Triple-Junction Silicon Solar Cell: One-Step Fabrication through Photoinduced Deposition of Catalysts and Electrochemical Operando Monitoring. Journal of the American Chemical Society, 2022, 144, 9651-9660.	6.6	10
5	Pushâ€“pull organic dyes and dye-catalyst assembly featuring a benzothiadiazole unit for photoelectrochemical hydrogen production. Sustainable Energy and Fuels, 2022, 6, 3565-3572.	2.5	3
6	Artificial maturation of [FeFe] hydrogenase in a redox polymer film. Chemical Communications, 2021, 57, 1750-1753.	2.2	2
7	Synthesis and Characterization of a Covalent Porphyrinâ€Cobalt Diimineâ€Dioxime Dyad for Photoelectrochemical H 2 Evolution. European Journal of Inorganic Chemistry, 2021, 2021, 1122-1129.	1.0	10
8	Spectroscopic Investigations Provide a Rationale for the Hydrogen-Evolving Activity of Dye-Sensitized Photocathodes Based on a Cobalt Tetraazamacrocyclic Catalyst. ACS Catalysis, 2021, 11, 3662-3678.	5.5	19
9	An [FeFe]â€Hydrogenase Mimic Immobilized through Simple Physiadsorption and Active for Aqueous H₂ Production. ChemElectroChem, 2021, 8, 1674-1677.	1.7	9
10	Impact of ionomer structuration on the performance of bio-inspired noble-metal-free fuel cell anodes. Chem Catalysis, 2021, 1, 88-105.	2.9	14
11	Hydrogen Evolution Mediated by Cobalt Diimineâ€Dioxime Complexes: Insights into the Role of the Ligand Acid/Base Functionalities.. ChemElectroChem, 2021, 8, 2671-2679.	1.7	10
12	Hydrogen Production at a NiO Photocathode Based on a Ruthenium Dyeâ€“Cobalt Diimine Dioxime Catalyst Assembly: Insights from Advanced Spectroscopy and Post-operando Characterization. ACS Applied Materials & Interfaces, 2021, 13, 49802-49815.	4.0	16
13	Approaching Industrially Relevant Current Densities for Hydrogen Oxidation with a Bioinspired Molecular Catalytic Material. Journal of the American Chemical Society, 2021, 143, 18150-18158.	6.6	16
14	Electrocatalytic reduction of protons to dihydrogen by the cobalt tetraazamacrocyclic complex [Co(N₄H)Cl₂]⁺: mechanism and benchmarking of performances. Sustainable Energy and Fuels, 2021, 6, 143-149.	2.5	7
15	How do H₂ oxidation molecular catalysts assemble onto carbon nanotube electrodes? A crosstalk between electrochemical and multi-physical characterization techniques. Chemical Science, 2021, 12, 15916-15927.	3.7	5
16	Insights into the mechanism of photosynthetic H₂ evolution catalyzed by a heptacoordinate cobalt complex. Sustainable Energy and Fuels, 2020, 4, 589-599.	2.5	18
17	Noncovalent Integration of a Bioinspired Ni Catalyst to Graphene Acid for Reversible Electrocatalytic Hydrogen Oxidation. ACS Applied Materials & Interfaces, 2020, 12, 5805-5811.	4.0	28
18	Dye-Sensitized Photocathodes: Boosting Photoelectrochemical Performances with Polyoxometalate Electron Transfer Mediators. ACS Applied Energy Materials, 2020, 3, 163-169.	2.5	14

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19	Role of the Metal Ion in Bio-Inspired Hydrogenase Models: Investigation of a Homodinuclear FeFe Complex vs Its Heterodinuclear NiFe Analogue. ACS Catalysis, 2020, 10, 177-186.	5.5	19
20	Electrocatalytic Hydrogen Evolution with a Cobalt Complex Bearing Pendant Proton Relays: Acid Strength and Applied Potential Govern Mechanism and Stability. Journal of the American Chemical Society, 2020, 142, 274-282.	6.6	92
21	Revisiting amorphous molybdenum sulfide's activity for the electro-driven reduction of dinitrogen and N-containing substrates. Chemical Communications, 2020, 56, 13975-13978.	2.2	2
22	Investigating Light-Induced Processes in Covalent Dye-Catalyst Assemblies for Hydrogen Production. Catalysts, 2020, 10, 1340.	1.6	8
23	Nonprecious Bimetallic Ironâ€“Molybdenum Sulfide Electrocatalysts for the Hydrogen Evolution Reaction in Proton Exchange Membrane Electrolyzers. ACS Catalysis, 2020, 10, 14336-14348.	5.5	50
24	Catalytic Reduction of Oxygen by a Copper Thiosemicarbazone Complex. European Journal of Inorganic Chemistry, 2020, 2020, 4549-4555.	1.0	7
25	Repurposing a Bio-Inspired NiFe Hydrogenase Model for CO₂ Reduction with Selective Production of Methane as the Unique C-Based Product. ACS Energy Letters, 2020, 5, 3837-3842.	8.8	41
26	Hydrogen evolution reaction mediated by an all-sulfur trinuclear nickel complex. Chemical Communications, 2020, 56, 11106-11109.	2.2	8
27	Achieving visible light-driven hydrogen evolution at positive bias with a hybrid copperâ€“iron oxide|TiO2-cobaloxime photocathode. Green Chemistry, 2020, 22, 3141-3149.	4.6	9
28	A Nanotube-Supported Dicopper Complex Enhances Pt-free Molecular H2/Air Fuel Cells. Joule, 2019, 3, 2020-2029.	11.7	28
29	Tuning the Electron Storage Potential of a Chargeâ€Photoaccumulating Ru^{II} Complex by a DFTâ€Guided Approach. Chemistry - A European Journal, 2019, 25, 13911-13920.	1.7	5
30	H₂-Evolving Dye-Sensitized Photocathode Based on a Rutheniumâ€“Diacetylide/Cobaloxime Supramolecular Assembly. ACS Applied Energy Materials, 2019, 2, 4971-4980.	2.5	26
31	Investigating Light-Driven Hole Injection and Hydrogen Evolution Catalysis at Dye-Sensitized NiO Photocathodes: A Combined Experimentalâ€“Theoretical Study. Journal of Physical Chemistry C, 2019, 123, 17176-17184.	1.5	18
32	Earth-Abundant Molecular Z-Scheme Photoelectrochemical Cell for Overall Water-Splitting. Journal of the American Chemical Society, 2019, 141, 9593-9602.	6.6	84
33	A Non-Heme Diiron Complex for (Electro)catalytic Reduction of Dioxygen: Tuning the Selectivity through Electron Delivery. Journal of the American Chemical Society, 2019, 141, 8244-8253.	6.6	56
34	A robust ALD-protected silicon-based hybrid photoelectrode for hydrogen evolution under aqueous conditions. Chemical Science, 2019, 10, 4469-4475.	3.7	25
35	Bioinspired Artificial [FeFe]-Hydrogenase with a Synthetic H-Cluster. ACS Catalysis, 2019, 9, 4495-4501.	5.5	17
36	Synthesis of Ruthenium Trisâ€Diimine Photosensitizers Substituted by Four Methylphosphonate Anchoring Groups for Dyeâ€Sensitized Photoelectrochemical Cell Applications. European Journal of Inorganic Chemistry, 2019, 2019, 2154-2161.	1.0	9

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37	Structure of Ni(OH)2 intermediates determines the efficiency of NiO-based photocathodes â€“ a case study using novel mesoporous NiO nanostars. RSC Advances, 2019, 9, 39422-39433.	1.7	3
38	CuO photoelectrodes synthesized by the solâ€“gel method for water splitting. Journal of Sol-Gel Science and Technology, 2019, 89, 255-263.	1.1	27
39	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
40	An artificial photosynthetic system for photoaccumulation of two electrons on a fused dipyridophenazine (dppz)â€“pyridoquinolinone ligand. Chemical Science, 2018, 9, 4152-4159.	3.7	48
41	Engineering an [FeFe]-Hydrogenase: Do Accessory Clusters Influence O₂ Resistance and Catalytic Bias?. Journal of the American Chemical Society, 2018, 140, 5516-5526.	6.6	48
42	A noble metal-free photocatalytic system based on a novel cobalt tetrapyridyl catalyst for hydrogen production in fully aqueous medium. Sustainable Energy and Fuels, 2018, 2, 553-557.	2.5	37
43	Tuning Reactivity of Bioinspired [NiFe]-Hydrogenase Models by Ligand Design and Modeling the CO Inhibition Process. ACS Catalysis, 2018, 8, 10658-10667.	5.5	47
44	Hydrogen Evolution from Aqueous Solutions Mediated by a Heterogenized [NiFe]â€Hydrogenase Model: Low pH Enables Catalysis through an Enzymeâ€Relevant Mechanism. Angewandte Chemie - International Edition, 2018, 57, 16001-16004.	7.2	45
45	Hydrogen Evolution from Aqueous Solutions Mediated by a Heterogenized [NiFe]â€Hydrogenase Model: Low pH Enables Catalysis through an Enzymeâ€Relevant Mechanism. Angewandte Chemie, 2018, 130, 16233-16236.	1.6	9
46	Electron transfer in a covalent dyeâ€“cobalt catalyst assembly â€“ a transient absorption spectroelectrochemistry perspective. Chemical Communications, 2018, 54, 10594-10597.	2.2	29
47	A protocol for quantifying hydrogen evolution by dye-sensitized molecular photocathodes and its implementation for evaluating a new covalent architecture based on an optimized dye-catalyst dyad. Dalton Transactions, 2018, 47, 10509-10516.	1.6	17
48	Insights into the mechanism and aging of a noble-metal free H₂-evolving dye-sensitized photocathode. Chemical Science, 2018, 9, 6721-6738.	3.7	31
49	Hydrogen Evolution Reactions Catalyzed by a Bis(thiosemicarbazone) Cobalt Complex: An Experimental and Theoretical Study. Chemistry - A European Journal, 2018, 24, 8779-8786.	1.7	50
50	Toward Platinum Group Metal-Free Catalysts for Hydrogen/Air Proton-Exchange Membrane Fuel Cells. Johnson Matthey Technology Review, 2018, 62, 231-255.	0.5	97
51	Pathways to electrochemical solar-hydrogen technologies. Energy and Environmental Science, 2018, 11, 2768-2783.	15.6	238
52	Mesoporous thin film WO₃ photoanode for photoelectrochemical water splitting: a solâ€“gel dip coating approach. Sustainable Energy and Fuels, 2017, 1, 145-153.	2.5	65
53	Carbonâ€Nanotubeâ€Supported Bioâ€Inspired Nickel Catalyst and Its Integration in Hybrid Hydrogen/Air Fuel Cells. Angewandte Chemie - International Edition, 2017, 56, 1845-1849.	7.2	87
54	Carbonâ€Nanotubeâ€Supported Bioâ€Inspired Nickel Catalyst and Its Integration in Hybrid Hydrogen/Air Fuel Cells. Angewandte Chemie, 2017, 129, 1871-1875.	1.6	17

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55	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
56	Protonâ€Reduction Reaction Catalyzed by Homoleptic Nickelâ€"bisâ€1,2â€dithiolate Complexes: Experimental and Theoretical Mechanistic Investigations. ChemCatChem, 2017, 9, 2308-2317.	1.8	50
57	Biological approaches to artificial photosynthesis, fundamental processes and theoretical approaches: general discussion. Faraday Discussions, 2017, 198, 147-168.	1.6	0
58	Molecular catalysts for artificial photosynthesis: general discussion. Faraday Discussions, 2017, 198, 353-395.	1.6	6
59	Structural and functional characterization of the hydrogenase-maturation HydF protein. Nature Chemical Biology, 2017, 13, 779-784.	3.9	38
60	Solarâ€Waterâ€Splitting BiVO₄ Thinâ€Film Photoanodes Prepared By Using a Solâ€"Gel Dipâ€Coating Technique. ChemPhotoChem, 2017, 1, 273-280.	1.5	31
61	Aqueous Photocurrent Measurements Correlated to Ultrafast Electron Transfer Dynamics at Ruthenium Tris Diimine Sensitized NiO Photocathodes. Journal of Physical Chemistry C, 2017, 121, 5891-5904.	1.5	33
62	CuAAC-based assembly and characterization of a rutheniumâ€"copper dyad containing a diimineâ€"dioxime ligand framework. Faraday Discussions, 2017, 198, 251-261.	1.6	12
63	Engineering nâ€"p junction for photo-electrochemical hydrogen production. Physical Chemistry Chemical Physics, 2017, 19, 30675-30682.	1.3	11
64	Bioinspired catalytic materials for energy-relevant conversions. Nature Energy, 2017, 2, .	19.8	89
65	Heterogenization of a [NiFe] Hydrogenase Mimic through Simple and Efficient Encapsulation into a Mesoporous MOF. Inorganic Chemistry, 2017, 56, 14801-14808.	1.9	28
66	Porous dendritic copper: an electrocatalyst for highly selective CO₂ reduction to formate in water/ionic liquid electrolyte. Chemical Science, 2017, 8, 742-747.	3.7	128
67	A Thiosemicarbazoneâ€"Nickel(II) Complex as Efficient Electrocatalyst for Hydrogen Evolution. ChemCatChem, 2017, 9, 2262-2268.	1.8	57
68	Artificial Hydrogenases Based on Cobaloximes and Heme Oxygenase. ChemPlusChem, 2016, 81, 1083-1089.	1.3	25
69	Photochemical hydrogen production and cobaloximes: the influence of the cobalt axial N-ligand on the system stability. Dalton Transactions, 2016, 45, 6732-6738.	1.6	84
70	The Dark Side of Molecular Catalysis: Diimineâ€"Dioxime Cobalt Complexes Are Not the Actual Hydrogen Evolution Electrocatalyst in Acidic Aqueous Solutions. ACS Catalysis, 2016, 6, 3727-3737.	5.5	129
71	European and International Initiatives in the Field of Artificial Photosynthesis. Advances in Botanical Research, 2016, 79, 193-221.	0.5	1
72	Covalent Design for Dye-Sensitized H₂-Evolving Photocathodes Based on a Cobalt Diimineâ€"Dioxime Catalyst. Journal of the American Chemical Society, 2016, 138, 12308-12311.	6.6	142

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73	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
74	Molecular engineered nanomaterials for catalytic hydrogen evolution and oxidation. Chemical Communications, 2016, 52, 13728-13748.	2.2	98
75	Photoelectrochemical Reduction of CO₂ Coupled to Water Oxidation Using a Photocathode with a Ru(II)â€“Re(I) Complex Photocatalyst and a CoO_x/TaON Photoanode. Journal of the American Chemical Society, 2016, 138, 14152-14158.	6.6	260
76	Noble metal-free hydrogen-evolving photocathodes based on small molecule organic semiconductors. Nanotechnology, 2016, 27, 355401.	1.3	21
77	CO₂ Reduction to CO in Water: Carbon Nanotubeâ€“Gold Nanohybrid as a Selective and Efficient Electrocatalyst. ChemSusChem, 2016, 9, 2317-2320.	3.6	45
78	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.	1.7	33
79	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
80	Supramolecular assembly of cobaloxime on nanoring-coated carbon nanotubes: addressing the stability of the pyridineâ€“cobalt linkage under hydrogen evolution turnover conditions. Chemical Communications, 2016, 52, 11783-11786.	2.2	28
81	Nickel-centred proton reduction catalysis in a model of [NiFe] hydrogenase. Nature Chemistry, 2016, 8, 1054-1060.	6.6	200
82	Design and synthesis of novel organometallic dyes for NiO sensitization and photo-electrochemical applications. Dalton Transactions, 2016, 45, 12539-12547.	1.6	21
83	A comprehensive comparison of dye-sensitized NiO photocathodes for solar energy conversion. Physical Chemistry Chemical Physics, 2016, 18, 10727-10738.	1.3	135
84	Experimental and Theoretical Insight into Electrocatalytic Hydrogen Evolution with Nickel Bis(aryldithiolene) Complexes as Catalysts. Inorganic Chemistry, 2016, 55, 432-444.	1.9	76
85	Coordination polymer structure and revisited hydrogen evolution catalytic mechanism for amorphous molybdenumÂsulfide. Nature Materials, 2016, 15, 640-646.	13.3	490
86	Bio-inspired noble metal-free nanomaterials approaching platinum performances for H₂ evolution and uptake. Energy and Environmental Science, 2016, 9, 940-947.	15.6	60
87	A Systematic Comparative Study of Hydrogenâ€Evolving Molecular Catalysts in Aqueous Solutions. ChemSusChem, 2015, 8, 3632-3638.	3.6	52
88	Microsecond Xâ€ray Absorption Spectroscopy Identification of Co^I Intermediates in Cobaloximeâ€Catalyzed Hydrogen Evolution. Chemistry - A European Journal, 2015, 21, 15158-15162.	1.7	35
89	A noble metal-free proton-exchange membrane fuel cell based on bio-inspired molecular catalysts. Chemical Science, 2015, 6, 2050-2053.	3.7	66
90	Oxygen Tolerance of a Molecular Engineered Cathode for Hydrogen Evolution Based on a Cobalt Diimineâ€“Dioxime Catalyst. Journal of Physical Chemistry B, 2015, 119, 13707-13713.	1.2	41

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91	Artificial hydrogenases: biohybrid and supramolecular systems for catalytic hydrogen production or uptake. Current Opinion in Chemical Biology, 2015, 25, 36-47.	2.8	71
92	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.	5.2	69
93	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
94	Enhancing the Performances of P3HT:PCBMâ€“MoS₃-Based H₂-Evolving Photocathodes with Interfacial Layers. ACS Applied Materials & Interfaces, 2015, 7, 16395-16403.	4.0	51
95	From Enzyme Maturation to Synthetic Chemistry: The Case of Hydrogenases. Accounts of Chemical Research, 2015, 48, 2380-2387.	7.6	63
96	A simple method for the preparation of bio-inspired nickel bisdiphosphine hydrogen-evolving catalysts. Comptes Rendus Chimie, 2015, 18, 752-757.	0.2	3
97	Dye-sensitized PS- b -P2VP-templated nickel oxide films for photoelectrochemical applications. Interface Focus, 2015, 5, 20140083.	1.5	32
98	Hydrogen Evolution Catalyzed by Cobalt Diimineâ€“Dioxime Complexes. Accounts of Chemical Research, 2015, 48, 1286-1295.	7.6	228
99	Recent developments in hydrogen evolving molecular cobalt(II)â€“polypyridyl catalysts. Coordination Chemistry Reviews, 2015, 304-305, 3-19.	9.5	205
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	Carbon nanotubes-gold nanohybrid as potent electrocatalyst for oxygen reduction in alkaline media. Nanoscale, 2015, 7, 17274-17277.	2.8	22
102	Molecular cathode and photocathode materials for hydrogen evolution in photoelectrochemical devices. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2015, 25, 90-105.	5.6	84
103	Forest of Ptâ€“Auâ€“Ag tri-metallic nanodendrites as an efficient electrocatalyst for methanol oxidation reaction. RSC Advances, 2015, 5, 6940-6944.	1.7	12
104	X-ray absorption spectroscopy with time-tagged photon counting: application to study the structure of a Co(i) intermediate of H2 evolving photo-catalyst. Faraday Discussions, 2014, 171, 259-273.	1.6	37
105	Mimicking hydrogenases: From biomimetics to artificial enzymes. Coordination Chemistry Reviews, 2014, 270-271, 127-150.	9.5	426
106	Terpyridine complexes of first row transition metals and electrochemical reduction of CO₂ to CO. Physical Chemistry Chemical Physics, 2014, 16, 13635-13644.	1.3	154
107	Electronic Structure and Hydration of Tetramine Cobalt Hydride Complexes. Journal of Physical Chemistry B, 2014, 118, 5551-5561.	1.2	10
108	Theoretical Modeling of Lowâ€Energy Electronic Absorption Bands in Reduced Cobaloximes. ChemPhysChem, 2014, 15, 2951-2958.	1.0	11

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109	Toward the rational benchmarking of homogeneous H₂-evolving catalysts. Energy and Environmental Science, 2014, 7, 3808-3814.	15.6	241
110	Cobaloxime-Based Artificial Hydrogenases. Inorganic Chemistry, 2014, 53, 8071-8082.	1.9	78
111	Novel cobalt/nickelâ€“tungsten-sulfide catalysts for electrocatalytic hydrogen generation from water. Energy and Environmental Science, 2013, 6, 2452.	15.6	182
112	A H2-evolving photocathode based on direct sensitization of MoS3 with an organic photovoltaic cell. Energy and Environmental Science, 2013, 6, 2706.	15.6	83
113	Pump-Flow-Probe X-ray Absorption Spectroscopy as a Tool for Studying Intermediate States of Photocatalytic Systems. Journal of Physical Chemistry C, 2013, 117, 17367-17375.	1.5	31
114	Spontaneous activation of [FeFe]-hydrogenases by an inorganic [2Fe] active site mimic. Nature Chemical Biology, 2013, 9, 607-609.	3.9	316
115	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
116	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
117	Solar fuels generation and molecular systems: is it homogeneous or heterogeneous catalysis?. Chemical Society Reviews, 2013, 42, 2338-2356.	18.7	437
118	Molecular engineering of a cobalt-based electrocatalytic nanomaterial for H2 evolution under fully aqueous conditions. Nature Chemistry, 2013, 5, 48-53.	6.6	349
119	Artificial Photosynthesis for Solar Fuels â€“ an Evolving Research Field within AMPEA, a Joint Programme of the European Energy Research Alliance. Green, 2013, 3, .	0.4	62
120	Tuning the electrocatalytic hydrogen evolution reaction promoted by [Mo2O2S2]-based molybdenum cycles in aqueous medium. Dalton Transactions, 2013, 42, 4848.	1.6	31
121	Charge photo-accumulation and photocatalytic hydrogen evolution under visible light at an iridium(iii)-photosensitized polyoxotungstate. Energy and Environmental Science, 2013, 6, 1504.	15.6	138
122	Biomimetic assembly and activation of [FeFe]-hydrogenases. Nature, 2013, 499, 66-69.	13.7	597
123	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
124	Hydrogenase enzymes: Application in biofuel cells and inspiration for the design of noble-metal free catalysts for H2 oxidation. Comptes Rendus Chimie, 2013, 16, 491-505.	0.2	46
125	Catalytic Hydrogen Oxidation: Dawn of a New Iron Age. Angewandte Chemie - International Edition, 2013, 52, 6143-6145.	7.2	48
126	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

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127	A Janus cobalt-based catalytic material for electro-splitting of water. Nature Materials, 2012, 11, 802-807.	13.3	784
128	Copper molybdenum sulfide: a new efficient electrocatalyst for hydrogen production from water. Energy and Environmental Science, 2012, 5, 8912.	15.6	314
129	Phosphine Coordination to a Cobalt Diimineâ€“Dioxime Catalyst Increases Stability during Light-Driven H₂ Production. Inorganic Chemistry, 2012, 51, 2115-2120.	1.9	98
130	Combined Experimentalâ€“Theoretical Characterization of the Hydrido-Cobaloxime [HCo(dmgH)₂(PnBu₃)]. Inorganic Chemistry, 2012, 51, 7087-7093.	1.9	55
131	A nickelâ€“manganese catalyst as a biomimic of the active site of NiFe hydrogenases: a combined electrocatalytical and DFT mechanistic study. Energy and Environmental Science, 2011, 4, 2417.	15.6	85
132	Capture of the Complex [Ni(dto)₂]^{2â€“} (dto^{2â€“} = Dithiooxalato) Tj ETQq0 0 0 rgBT /Overlock 1 Reduction of Protons. Inorganic Chemistry, 2011, 50, 9031-9038.	1.9	29
133	Artificial Photosynthesis: From Molecular Catalysts for Lightâ€driven Water Splitting to Photoelectrochemical Cells. Photochemistry and Photobiology, 2011, 87, 946-964.	1.3	273
134	Light-driven bioinspired water splitting: Recent developments in photoelectrode materials. Comptes Rendus Chimie, 2011, 14, 799-810.	0.2	20
135	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
136	Cp*^{â€“}â€Ruthenâ€“Nickelâ€Based H₂â€Evolving Electrocatalysts as Bioâ€inspired Models of NiFe Hydrogenases. European Journal of Inorganic Chemistry, 2011, 2011, 1094-1099.	1.0	30
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.	7.2	254
138	Splitting Water with Cobalt. Angewandte Chemie - International Edition, 2011, 50, 7238-7266.	7.2	1,231
139	Water electrolysis and photoelectrolysis on electrodes engineered using biological and bio-inspired molecular systems. Energy and Environmental Science, 2010, 3, 727.	15.6	192
140	Mechanism of hydrogen evolution catalyzed by NiFe hydrogenases: insights from a Niâ€“Ru model compound. Dalton Transactions, 2010, 39, 3043-3049.	1.6	39
141	Facile and tunable functionalization of carbon nanotube electrodes with ferrocene by covalent coupling and Ï€-stacking interactions and their relevance to glucose bio-sensing. Journal of Electroanalytical Chemistry, 2010, 641, 57-63.	1.9	87
142	Immobilization of FeFe hydrogenase mimics onto carbon and gold electrodes by controlled aryldiazonium salt reduction: an electrochemical, XPS and ATR-IR study. International Journal of Hydrogen Energy, 2010, 35, 10790-10796.	3.8	47
143	H₂ Evolution and Molecular Electrocatalysts: Determination of Overpotentials and Effect of Homoconjugation. Inorganic Chemistry, 2010, 49, 10338-10347.	1.9	380
144	A structural and functional mimic of the active site of NiFe hydrogenases. Chemical Communications, 2010, 46, 5876.	2.2	101

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145	Chimie bio-inspirÃ©e et nanosciencesÂ: vers de nouveaux catalyseurs pour la production et lâ€™oxydation de lâ€™hydrogÃ¨ne. La Lettre Du CollÃ¨ge De France, 2010, , 14.	0.0	0
146	Cyclopentadienyl Ruthenâ€“Nickel Catalysts for Biomimetic Hydrogen Evolution: Electrocatalytic Properties and Mechanistic DFT Studies. Chemistry - A European Journal, 2009, 15, 9350-9364.	1.7	61
147	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
148	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
149	From Hydrogenases to Noble Metalâ€“Free Catalytic Nanomaterials for H ₂ Production and Uptake. Science, 2009, 326, 1384-1387.	6.0	886
150	Cobaloximeâ€Based Photocatalytic Devices for Hydrogen Production. Angewandte Chemie - International Edition, 2008, 47, 564-567.	7.2	400
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