

Vincent Artero

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5338425/publications.pdf>

Version: 2024-02-01

168
papers

17,169
citations

18482

62
h-index

14208

128
g-index

181
all docs

181
docs citations

181
times ranked

13728
citing authors

#	ARTICLE	IF	CITATIONS
1	A bio-inspired heterodinuclear hydrogenase CoFe complex. <i>Faraday Discussions</i> , 2022, 234, 34-41.	3.2	2
2	A covalent cobalt diimine-dioxime " fullerene assembly for photoelectrochemical hydrogen production from near-neutral aqueous media. <i>Chemical Science</i> , 2022, 13, 3857-3863.	7.4	2
3	A Bidirectional Bioinspired [FeFe]-Hydrogenase Model. <i>Journal of the American Chemical Society</i> , 2022, 144, 3614-3625.	13.7	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. <i>Journal of the American Chemical Society</i> , 2022, 144, 9651-9660.	13.7	10
5	Push"pull organic dyes and dye-catalyst assembly featuring a benzothiadiazole unit for photoelectrochemical hydrogen production. <i>Sustainable Energy and Fuels</i> , 2022, 6, 3565-3572.	4.9	3
6	Artificial maturation of [FeFe] hydrogenase in a redox polymer film. <i>Chemical Communications</i> , 2021, 57, 1750-1753.	4.1	2
7	Synthesis and Characterization of a Covalent Porphyrin" Cobalt Diimine" Dioxime Dyad for Photoelectrochemical H ₂ Evolution. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 1122-1129.	2.0	10
8	Spectroscopic Investigations Provide a Rationale for the Hydrogen-Evolving Activity of Dye-Sensitized Photocathodes Based on a Cobalt Tetraazamacrocyclic Catalyst. <i>ACS Catalysis</i> , 2021, 11, 3662-3678.	11.2	19
9	An [FeFe]"Hydrogenase Mimic Immobilized through Simple Physadsorption and Active for Aqueous H ₂ Production. <i>ChemElectroChem</i> , 2021, 8, 1674-1677.	3.4	9
10	Impact of ionomer structuration on the performance of bio-inspired noble-metal-free fuel cell anodes. <i>Chem Catalysis</i> , 2021, 1, 88-105.	6.1	14
11	Hydrogen Evolution Mediated by Cobalt Diimine" Dioxime Complexes: Insights into the Role of the Ligand Acid/Base Functionalities.. <i>ChemElectroChem</i> , 2021, 8, 2671-2679.	3.4	10
12	Hydrogen Production at a NiO Photocathode Based on a Ruthenium Dye" Cobalt Diimine Dioxime Catalyst Assembly: Insights from Advanced Spectroscopy and Post-operando Characterization. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 49802-49815.	8.0	16
13	Approaching Industrially Relevant Current Densities for Hydrogen Oxidation with a Bioinspired Molecular Catalytic Material. <i>Journal of the American Chemical Society</i> , 2021, 143, 18150-18158.	13.7	16
14	Electrocatalytic reduction of protons to dihydrogen by the cobalt tetraazamacrocyclic complex [Co(N₄H)Cl₂] ⁺ : mechanism and benchmarking of performances. <i>Sustainable Energy and Fuels</i> , 2021, 6, 143-149.	4.9	7
15	How do H₂ oxidation molecular catalysts assemble onto carbon nanotube electrodes? A crosstalk between electrochemical and multi-physical characterization techniques. <i>Chemical Science</i> , 2021, 12, 15916-15927.	7.4	5
16	Insights into the mechanism of photosynthetic H₂ evolution catalyzed by a heptacoordinate cobalt complex. <i>Sustainable Energy and Fuels</i> , 2020, 4, 589-599.	4.9	18
17	Noncovalent Integration of a Bioinspired Ni Catalyst to Graphene Acid for Reversible Electrocatalytic Hydrogen Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 5805-5811.	8.0	28
18	Dye-Sensitized Photocathodes: Boosting Photoelectrochemical Performances with Polyoxometalate Electron Transfer Mediators. <i>ACS Applied Energy Materials</i> , 2020, 3, 163-169.	5.1	14

#	ARTICLE	IF	CITATIONS
19	Role of the Metal Ion in Bio-Inspired Hydrogenase Models: Investigation of a Homodinuclear FeFe Complex vs Its Heterodinuclear NiFe Analogue. <i>ACS Catalysis</i> , 2020, 10, 177-186.	11.2	19
20	Electrocatalytic Hydrogen Evolution with a Cobalt Complex Bearing Pendant Proton Relays: Acid Strength and Applied Potential Govern Mechanism and Stability. <i>Journal of the American Chemical Society</i> , 2020, 142, 274-282.	13.7	92
21	Revisiting amorphous molybdenum sulfide's activity for the electro-driven reduction of dinitrogen and N-containing substrates. <i>Chemical Communications</i> , 2020, 56, 13975-13978.	4.1	2
22	Investigating Light-Induced Processes in Covalent Dye-Catalyst Assemblies for Hydrogen Production. <i>Catalysts</i> , 2020, 10, 1340.	3.5	8
23	Nonprecious Bimetallic Iron-Molybdenum Sulfide Electrocatalysts for the Hydrogen Evolution Reaction in Proton Exchange Membrane Electrolyzers. <i>ACS Catalysis</i> , 2020, 10, 14336-14348.	11.2	50
24	Catalytic Reduction of Oxygen by a Copper Thiosemicarbazone Complex. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 4549-4555.	2.0	7
25	Repurposing a Bio-Inspired NiFe Hydrogenase Model for CO ₂ Reduction with Selective Production of Methane as the Unique C-Based Product. <i>ACS Energy Letters</i> , 2020, 5, 3837-3842.	17.4	41
26	Hydrogen evolution reaction mediated by an all-sulfur trinuclear nickel complex. <i>Chemical Communications</i> , 2020, 56, 11106-11109.	4.1	8
27	Achieving visible light-driven hydrogen evolution at positive bias with a hybrid copper-iron oxide TiO ₂ -cobaloxime photocathode. <i>Green Chemistry</i> , 2020, 22, 3141-3149.	9.0	9
28	A Nanotube-Supported Dicopper Complex Enhances Pt-free Molecular H ₂ /Air Fuel Cells. <i>Joule</i> , 2019, 3, 2020-2029.	24.0	28
29	Tuning the Electron Storage Potential of a Charge-Photoaccumulating Ru ^{II} Complex by a DFT-Guided Approach. <i>Chemistry - A European Journal</i> , 2019, 25, 13911-13920.	3.3	5
30	H ₂ -Evolving Dye-Sensitized Photocathode Based on a Ruthenium-Diacetylde/Cobaloxime Supramolecular Assembly. <i>ACS Applied Energy Materials</i> , 2019, 2, 4971-4980.	5.1	26
31	Investigating Light-Driven Hole Injection and Hydrogen Evolution Catalysis at Dye-Sensitized NiO Photocathodes: A Combined Experimental-Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2019, 123, 17176-17184.	3.1	18
32	Earth-Abundant Molecular Z-Scheme Photoelectrochemical Cell for Overall Water-Splitting. <i>Journal of the American Chemical Society</i> , 2019, 141, 9593-9602.	13.7	84
33	A Non-Heme Diiron Complex for (Electro)catalytic Reduction of Dioxygen: Tuning the Selectivity through Electron Delivery. <i>Journal of the American Chemical Society</i> , 2019, 141, 8244-8253.	13.7	56
34	A robust ALD-protected silicon-based hybrid photoelectrode for hydrogen evolution under aqueous conditions. <i>Chemical Science</i> , 2019, 10, 4469-4475.	7.4	25
35	Bioinspired Artificial [FeFe]-Hydrogenase with a Synthetic H-Cluster. <i>ACS Catalysis</i> , 2019, 9, 4495-4501.	11.2	17
36	Synthesis of Ruthenium Tris-diimine Photosensitizers Substituted by Four Methylphosphonate Anchoring Groups for Dye-Sensitized Photoelectrochemical Cell Applications. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 2154-2161.	2.0	9

#	ARTICLE	IF	CITATIONS
37	Structure of Ni(OH) ₂ intermediates determines the efficiency of NiO-based photocathodes – a case study using novel mesoporous NiO nanostars. RSC Advances, 2019, 9, 39422-39433.	3.6	3
38	CuO photoelectrodes synthesized by the sol-gel method for water splitting. Journal of Sol-Gel Science and Technology, 2019, 89, 255-263.	2.4	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.	2.6	13
40	An artificial photosynthetic system for photoaccumulation of two electrons on a fused dipyrrophenazine (dppz)-pyridoquinolinone ligand. Chemical Science, 2018, 9, 4152-4159.	7.4	48
41	Engineering an [FeFe]-Hydrogenase: Do Accessory Clusters Influence O ₂ Resistance and Catalytic Bias?. Journal of the American Chemical Society, 2018, 140, 5516-5526.	13.7	48
42	A noble metal-free photocatalytic system based on a novel cobalt tetrapyrridyl catalyst for hydrogen production in fully aqueous medium. Sustainable Energy and Fuels, 2018, 2, 553-557.	4.9	37
43	Tuning Reactivity of Bioinspired [NiFe]-Hydrogenase Models by Ligand Design and Modeling the CO Inhibition Process. ACS Catalysis, 2018, 8, 10658-10667.	11.2	47
44	Hydrogen Evolution from Aqueous Solutions Mediated by a Heterogenized [NiFe]-Hydrogenase Model: Low pH Enables Catalysis through an Enzyme-Relevant Mechanism. Angewandte Chemie - International Edition, 2018, 57, 16001-16004.	13.8	45
45	Hydrogen Evolution from Aqueous Solutions Mediated by a Heterogenized [NiFe]-Hydrogenase Model: Low pH Enables Catalysis through an Enzyme-Relevant Mechanism. Angewandte Chemie, 2018, 130, 16233-16236.	2.0	9
46	Electron transfer in a covalent dye-cobalt catalyst assembly – a transient absorption spectroelectrochemistry perspective. Chemical Communications, 2018, 54, 10594-10597.	4.1	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.	3.3	17
48	Insights into the mechanism and aging of a noble-metal free H ₂ -evolving dye-sensitized photocathode. Chemical Science, 2018, 9, 6721-6738.	7.4	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.	3.3	50
50	Toward Platinum Group Metal-Free Catalysts for Hydrogen/Air Proton-Exchange Membrane Fuel Cells. Johnson Matthey Technology Review, 2018, 62, 231-255.	1.0	97
51	Pathways to electrochemical solar-hydrogen technologies. Energy and Environmental Science, 2018, 11, 2768-2783.	30.8	238
52	Mesoporous thin film WO ₃ photoanode for photoelectrochemical water splitting: a sol-gel dip coating approach. Sustainable Energy and Fuels, 2017, 1, 145-153.	4.9	65
53	Carbon-Nanotube-Supported Bio-Inspired Nickel Catalyst and Its Integration in Hybrid Hydrogen/Air Fuel Cells. Angewandte Chemie - International Edition, 2017, 56, 1845-1849.	13.8	87
54	Carbon-Nanotube-Supported Bio-Inspired Nickel Catalyst and Its Integration in Hybrid Hydrogen/Air Fuel Cells. Angewandte Chemie, 2017, 129, 1871-1875.	2.0	17

#	ARTICLE	IF	CITATIONS
55	Molecular Cobalt Complexes with Pendant Amines for Selective Electrocatalytic Reduction of Carbon Dioxide to Formic Acid. <i>Journal of the American Chemical Society</i> , 2017, 139, 3685-3696.	13.7	256
56	Proton-Reduction Reaction Catalyzed by Homoleptic Nickel-bis(1,2-ethanedithiolate) Complexes: Experimental and Theoretical Mechanistic Investigations. <i>ChemCatChem</i> , 2017, 9, 2308-2317.	3.7	50
57	Biological approaches to artificial photosynthesis, fundamental processes and theoretical approaches: general discussion. <i>Faraday Discussions</i> , 2017, 198, 147-168.	3.2	0
58	Molecular catalysts for artificial photosynthesis: general discussion. <i>Faraday Discussions</i> , 2017, 198, 353-395.	3.2	6
59	Structural and functional characterization of the hydrogenase-maturation HydF protein. <i>Nature Chemical Biology</i> , 2017, 13, 779-784.	8.0	38
60	Solar-Water-Splitting BiVO ₄ Thin-Film Photoanodes Prepared By Using a Sol-Gel Dip-Coating Technique. <i>ChemPhotoChem</i> , 2017, 1, 273-280.	8.0	31
61	Aqueous Photocurrent Measurements Correlated to Ultrafast Electron Transfer Dynamics at Ruthenium Tris Diimine Sensitized NiO Photocathodes. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5891-5904.	3.1	33
62	CuAAC-based assembly and characterization of a ruthenium-copper dyad containing a diimine-dioxime ligand framework. <i>Faraday Discussions</i> , 2017, 198, 251-261.	3.2	12
63	Engineering n-p junction for photo-electrochemical hydrogen production. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 30675-30682.	2.8	11
64	Bioinspired catalytic materials for energy-relevant conversions. <i>Nature Energy</i> , 2017, 2, .	39.5	89
65	Heterogenization of a [NiFe] Hydrogenase Mimic through Simple and Efficient Encapsulation into a Mesoporous MOF. <i>Inorganic Chemistry</i> , 2017, 56, 14801-14808.	4.0	28
66	Porous dendritic copper: an electrocatalyst for highly selective CO ₂ reduction to formate in water/ionic liquid electrolyte. <i>Chemical Science</i> , 2017, 8, 742-747.	7.4	128
67	A Thiosemicarbazone-Nickel(II) Complex as Efficient Electrocatalyst for Hydrogen Evolution. <i>ChemCatChem</i> , 2017, 9, 2262-2268.	3.7	57
68	Artificial Hydrogenases Based on Cobaloximes and Heme Oxygenase. <i>ChemPlusChem</i> , 2016, 81, 1083-1089.	2.8	25
69	Photochemical hydrogen production and cobaloximes: the influence of the cobalt axial N-ligand on the system stability. <i>Dalton Transactions</i> , 2016, 45, 6732-6738.	3.3	84
70	The Dark Side of Molecular Catalysis: Diimine-Dioxime Cobalt Complexes Are Not the Actual Hydrogen Evolution Electrocatalyst in Acidic Aqueous Solutions. <i>ACS Catalysis</i> , 2016, 6, 3727-3737.	11.2	129
71	European and International Initiatives in the Field of Artificial Photosynthesis. <i>Advances in Botanical Research</i> , 2016, 79, 193-221.	1.1	1
72	Covalent Design for Dye-Sensitized H ₂ -Evolving Photocathodes Based on a Cobalt Diimine-Dioxime Catalyst. <i>Journal of the American Chemical Society</i> , 2016, 138, 12308-12311.	13.7	142

#	ARTICLE	IF	CITATIONS
73	Chemical assembly of multiple metal cofactors: The heterologously expressed multidomain [FeFe]-hydrogenase from <i>Megasphaera elsdenii</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 1734-1740.	1.0	26
74	Molecular engineered nanomaterials for catalytic hydrogen evolution and oxidation. <i>Chemical Communications</i> , 2016, 52, 13728-13748.	4.1	98
75	Photoelectrochemical Reduction of CO ₂ Coupled to Water Oxidation Using a Photocathode with a Ru(II)–Re(I) Complex Photocatalyst and a CoO _x /TaON Photoanode. <i>Journal of the American Chemical Society</i> , 2016, 138, 14152-14158.	13.7	260
76	Noble metal-free hydrogen-evolving photocathodes based on small molecule organic semiconductors. <i>Nanotechnology</i> , 2016, 27, 355401.	2.6	21
77	CO ₂ Reduction to CO in Water: Carbon Nanotube–Gold Nanohybrid as a Selective and Efficient Electrocatalyst. <i>ChemSusChem</i> , 2016, 9, 2317-2320.	6.8	45
78	Cu/Cu ₂ O Electrodes and CO ₂ Reduction to Formic Acid: Effects of Organic Additives on Surface Morphology and Activity. <i>Chemistry - A European Journal</i> , 2016, 22, 14029-14035.	3.3	33
79	Reactivity of the Excited States of the H-Cluster of FeFe Hydrogenases. <i>Journal of the American Chemical Society</i> , 2016, 138, 13612-13618.	13.7	25
80	Supramolecular assembly of cobaloxime on nanoring-coated carbon nanotubes: addressing the stability of the pyridine–cobalt linkage under hydrogen evolution turnover conditions. <i>Chemical Communications</i> , 2016, 52, 11783-11786.	4.1	28
81	Nickel-centred proton reduction catalysis in a model of [NiFe] hydrogenase. <i>Nature Chemistry</i> , 2016, 8, 1054-1060.	13.6	200
82	Design and synthesis of novel organometallic dyes for NiO sensitization and photo-electrochemical applications. <i>Dalton Transactions</i> , 2016, 45, 12539-12547.	3.3	21
83	A comprehensive comparison of dye-sensitized NiO photocathodes for solar energy conversion. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10727-10738.	2.8	135
84	Experimental and Theoretical Insight into Electrocatalytic Hydrogen Evolution with Nickel Bis(aryldithiolene) Complexes as Catalysts. <i>Inorganic Chemistry</i> , 2016, 55, 432-444.	4.0	76
85	Coordination polymer structure and revisited hydrogen evolution catalytic mechanism for amorphous molybdenum sulfide. <i>Nature Materials</i> , 2016, 15, 640-646.	27.5	490
86	Bio-inspired noble metal-free nanomaterials approaching platinum performances for H ₂ evolution and uptake. <i>Energy and Environmental Science</i> , 2016, 9, 940-947.	30.8	60
87	A Systematic Comparative Study of Hydrogen–Evolving Molecular Catalysts in Aqueous Solutions. <i>ChemSusChem</i> , 2015, 8, 3632-3638.	6.8	52
88	Microsecond X-ray Absorption Spectroscopy Identification of Co ^I Intermediates in Cobaloxime–Catalyzed Hydrogen Evolution. <i>Chemistry - A European Journal</i> , 2015, 21, 15158-15162.	3.3	35
89	A noble metal-free proton-exchange membrane fuel cell based on bio-inspired molecular catalysts. <i>Chemical Science</i> , 2015, 6, 2050-2053.	7.4	66
90	Oxygen Tolerance of a Molecular Engineered Cathode for Hydrogen Evolution Based on a Cobalt Diimine–Dioxime Catalyst. <i>Journal of Physical Chemistry B</i> , 2015, 119, 13707-13713.	2.6	41

#	ARTICLE	IF	CITATIONS
91	Artificial hydrogenases: biohybrid and supramolecular systems for catalytic hydrogen production or uptake. <i>Current Opinion in Chemical Biology</i> , 2015, 25, 36-47.	6.1	71
92	From molecular copper complexes to composite electrocatalytic materials for selective reduction of CO ₂ to formic acid. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3901-3907.	10.3	69
93	Artificially matured [FeFe] hydrogenase from <i>Chlamydomonas reinhardtii</i> : a HYSCORE and ENDOR study of a non-natural H-cluster. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 5421-5430.	2.8	39
94	Enhancing the Performances of P3HT:PCBM/MoS ₃ -Based H ₂ -Evolving Photocathodes with Interfacial Layers. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16395-16403.	8.0	51
95	From Enzyme Maturation to Synthetic Chemistry: The Case of Hydrogenases. <i>Accounts of Chemical Research</i> , 2015, 48, 2380-2387.	15.6	63
96	A simple method for the preparation of bio-inspired nickel bisdiphosphine hydrogen-evolving catalysts. <i>Comptes Rendus Chimie</i> , 2015, 18, 752-757.	0.5	3
97	Dye-sensitized PS- <i>b</i> -P2VP-templated nickel oxide films for photoelectrochemical applications. <i>Interface Focus</i> , 2015, 5, 20140083.	3.0	32
98	Hydrogen Evolution Catalyzed by Cobalt Diimine/Dioxime Complexes. <i>Accounts of Chemical Research</i> , 2015, 48, 1286-1295.	15.6	228
99	Recent developments in hydrogen evolving molecular cobalt(II) polypyridyl catalysts. <i>Coordination Chemistry Reviews</i> , 2015, 304-305, 3-19.	18.8	205
100	Spectroscopic Characterization of the Bridging Amine in the Active Site of [FeFe] Hydrogenase Using Isotopologues of the H-Cluster. <i>Journal of the American Chemical Society</i> , 2015, 137, 12744-12747.	13.7	64
101	Carbon nanotubes-gold nanohybrid as potent electrocatalyst for oxygen reduction in alkaline media. <i>Nanoscale</i> , 2015, 7, 17274-17277.	5.6	22
102	Molecular cathode and photocathode materials for hydrogen evolution in photoelectrochemical devices. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2015, 25, 90-105.	11.6	84
103	Forest of Pt-Au-Ag tri-metallic nanodendrites as an efficient electrocatalyst for methanol oxidation reaction. <i>RSC Advances</i> , 2015, 5, 6940-6944.	3.6	12
104	X-ray absorption spectroscopy with time-tagged photon counting: application to study the structure of a Co(i) intermediate of H ₂ evolving photo-catalyst. <i>Faraday Discussions</i> , 2014, 171, 259-273.	3.2	37
105	Mimicking hydrogenases: From biomimetics to artificial enzymes. <i>Coordination Chemistry Reviews</i> , 2014, 270-271, 127-150.	18.8	426
106	Terpyridine complexes of first row transition metals and electrochemical reduction of CO ₂ to CO. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 13635-13644.	2.8	154
107	Electronic Structure and Hydration of Tetramine Cobalt Hydride Complexes. <i>Journal of Physical Chemistry B</i> , 2014, 118, 5551-5561.	2.6	10
108	Theoretical Modeling of Low-Energy Electronic Absorption Bands in Reduced Cobaloximes. <i>ChemPhysChem</i> , 2014, 15, 2951-2958.	2.1	11

#	ARTICLE	IF	CITATIONS
109	Toward the rational benchmarking of homogeneous H ₂ -evolving catalysts. <i>Energy and Environmental Science</i> , 2014, 7, 3808-3814.	30.8	241
110	Cobaloxime-Based Artificial Hydrogenases. <i>Inorganic Chemistry</i> , 2014, 53, 8071-8082.	4.0	78
111	Novel cobalt/nickel-tungsten-sulfide catalysts for electrocatalytic hydrogen generation from water. <i>Energy and Environmental Science</i> , 2013, 6, 2452.	30.8	182
112	A H ₂ -evolving photocathode based on direct sensitization of MoS ₃ with an organic photovoltaic cell. <i>Energy and Environmental Science</i> , 2013, 6, 2706.	30.8	83
113	Pump-Flow-Probe X-ray Absorption Spectroscopy as a Tool for Studying Intermediate States of Photocatalytic Systems. <i>Journal of Physical Chemistry C</i> , 2013, 117, 17367-17375.	3.1	31
114	Spontaneous activation of [FeFe]-hydrogenases by an inorganic [2Fe] active site mimic. <i>Nature Chemical Biology</i> , 2013, 9, 607-609.	8.0	316
115	A Computational Study of the Mechanism of Hydrogen Evolution by Cobalt(Diimine-Dioxime) Catalysts. <i>Chemistry - A European Journal</i> , 2013, 19, 15166-15174.	3.3	91
116	Catalytic hydrogen production by a Ni-Ru mimic of NiFe hydrogenases involves a proton-coupled electron transfer step. <i>Chemical Communications</i> , 2013, 49, 5004.	4.1	54
117	Solar fuels generation and molecular systems: is it homogeneous or heterogeneous catalysis?. <i>Chemical Society Reviews</i> , 2013, 42, 2338-2356.	38.1	437
118	Molecular engineering of a cobalt-based electrocatalytic nanomaterial for H ₂ evolution under fully aqueous conditions. <i>Nature Chemistry</i> , 2013, 5, 48-53.	13.6	349
119	Artificial Photosynthesis for Solar Fuels – an Evolving Research Field within AMPEA, a Joint Programme of the European Energy Research Alliance. <i>Green</i> , 2013, 3, .	0.4	62
120	Tuning the electrocatalytic hydrogen evolution reaction promoted by [Mo ₂ O ₂ S ₂]-based molybdenum cycles in aqueous medium. <i>Dalton Transactions</i> , 2013, 42, 4848.	3.3	31
121	Charge photo-accumulation and photocatalytic hydrogen evolution under visible light at an iridium(III)-photosensitized polyoxotungstate. <i>Energy and Environmental Science</i> , 2013, 6, 1504.	30.8	138
122	Biomimetic assembly and activation of [FeFe]-hydrogenases. <i>Nature</i> , 2013, 499, 66-69.	27.8	597
123	Dye-sensitized nanostructured crystalline mesoporous tin-doped indium oxide films with tunable thickness for photoelectrochemical applications. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8217.	10.3	33
124	Hydrogenase enzymes: Application in biofuel cells and inspiration for the design of noble-metal free catalysts for H ₂ oxidation. <i>Comptes Rendus Chimie</i> , 2013, 16, 491-505.	0.5	46
125	Catalytic Hydrogen Oxidation: Dawn of a New Iron Age. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6143-6145.	13.8	48
126	Mesoporous γ -Fe ₂ O ₃ thin films synthesized via the sol-gel process for light-driven water oxidation. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13224.	2.8	55

#	ARTICLE	IF	CITATIONS
127	A Janus cobalt-based catalytic material for electro-splitting of water. <i>Nature Materials</i> , 2012, 11, 802-807.	27.5	784
128	Copper molybdenum sulfide: a new efficient electrocatalyst for hydrogen production from water. <i>Energy and Environmental Science</i> , 2012, 5, 8912.	30.8	314
129	Phosphine Coordination to a Cobalt Diimine-Dioxime Catalyst Increases Stability during Light-Driven H ₂ Production. <i>Inorganic Chemistry</i> , 2012, 51, 2115-2120.	4.0	98
130	Combined Experimental/Theoretical Characterization of the Hydrido-Cobaloxime [HCo(dmgh) ₂ (P ⁿ i ⁿ Bu ₃)]. <i>Inorganic Chemistry</i> , 2012, 51, 7087-7093.	4.0	55
131	A nickel-manganese catalyst as a biomimic of the active site of NiFe hydrogenases: a combined electrocatalytic and DFT mechanistic study. <i>Energy and Environmental Science</i> , 2011, 4, 2417.	30.8	85
132	Capture of the Complex [Ni(dto) ₂] ²⁺ (dto ²⁻ = Dithiooxalato) Tj ETQq0 0 0 rgBT /Overlock 1 Reduction of Protons. <i>Inorganic Chemistry</i> , 2011, 50, 9031-9038.	4.0	29
133	Artificial Photosynthesis: From Molecular Catalysts for Light-driven Water Splitting to Photoelectrochemical Cells. <i>Photochemistry and Photobiology</i> , 2011, 87, 946-964.	2.5	273
134	Light-driven bioinspired water splitting: Recent developments in photoelectrode materials. <i>Comptes Rendus Chimie</i> , 2011, 14, 799-810.	0.5	20
135	Bioinspired catalysis at the crossroads between biology and chemistry: A remarkable example of an electrocatalytic material mimicking hydrogenases. <i>Comptes Rendus Chimie</i> , 2011, 14, 362-371.	0.5	29
136	Cp* ⁺ Ruthenium-Nickel-Based H ₂ -Evolving Electrocatalysts as Bio-Inspired Models of NiFe Hydrogenases. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 1094-1099.	2.0	30
137	Noncovalent Modification of Carbon Nanotubes with Pyrene-Functionalized Nickel Complexes: Carbon Monoxide Tolerant Catalysts for Hydrogen Evolution and Uptake. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1371-1374.	13.8	254
138	Splitting Water with Cobalt. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7238-7266.	13.8	1,231
139	Water electrolysis and photoelectrolysis on electrodes engineered using biological and bio-inspired molecular systems. <i>Energy and Environmental Science</i> , 2010, 3, 727.	30.8	192
140	Mechanism of hydrogen evolution catalyzed by NiFe hydrogenases: insights from a Ni-Ru model compound. <i>Dalton Transactions</i> , 2010, 39, 3043-3049.	3.3	39
141	Facile and tunable functionalization of carbon nanotube electrodes with ferrocene by covalent coupling and π -stacking interactions and their relevance to glucose bio-sensing. <i>Journal of Electroanalytical Chemistry</i> , 2010, 641, 57-63.	3.8	87
142	Immobilization of FeFe hydrogenase mimics onto carbon and gold electrodes by controlled aryldiazonium salt reduction: an electrochemical, XPS and ATR-IR study. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 10790-10796.	7.1	47
143	H ₂ Evolution and Molecular Electrocatalysts: Determination of Overpotentials and Effect of Homoconjugation. <i>Inorganic Chemistry</i> , 2010, 49, 10338-10347.	4.0	380
144	A structural and functional mimic of the active site of NiFe hydrogenases. <i>Chemical Communications</i> , 2010, 46, 5876.	4.1	101

#	ARTICLE	IF	CITATIONS
145	Chimie bio-inspirée et nanosciences: vers de nouveaux catalyseurs pour la production et l'oxydation de l'hydrogène. La Lettre Du Collège De France, 2010, , 14.	0.0	0
146	Cyclopentadienyl Ruthenium-Nickel Catalysts for Biomimetic Hydrogen Evolution: Electrocatalytic Properties and Mechanistic DFT Studies. Chemistry - A European Journal, 2009, 15, 9350-9364.	3.3	61
147	Synthesis, crystal structure, magnetic properties and reactivity of a Ni-Ru model of NiFe hydrogenases with a pentacoordinated triplet (S=1) Nill center. Journal of Organometallic Chemistry, 2009, 694, 2866-2869.	1.8	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.	7.1	388
149	From Hydrogenases to Noble Metal-Free Catalytic Nanomaterials for H ₂ Production and Uptake. Science, 2009, 326, 1384-1387.	12.6	886
150	Cobaloxime-Based Photocatalytic Devices for Hydrogen Production. Angewandte Chemie - International Edition, 2008, 47, 564-567.	13.8	400
151	Hydrogen evolution catalyzed by {CpFe(CO) ₂ }-based complexes. Comptes Rendus Chimie, 2008, 11, 926-931.	0.5	24
152	Modelling NiFe hydrogenases: nickel-based electrocatalysts for hydrogen production. Dalton Transactions, 2008, , 315-325.	3.3	142
153	Efficient H ₂ -producing photocatalytic systems based on cyclometalated iridium- and tricarbonylrhenium-diimine photosensitizers and cobaloxime catalysts. Dalton Transactions, 2008, , 5567.	3.3	226
154	Cobaloximes as Functional Models for Hydrogenases. 2. Proton Electroreduction Catalyzed by Difluoroborylbis(dimethylglyoximate)cobalt(II) Complexes in Organic Media. Inorganic Chemistry, 2007, 46, 1817-1824.	4.0	350
155	Tricarbonylmanganese(i)-lysozyme complex: a structurally characterized organometallic protein. Chemical Communications, 2007, , 2805-2807.	4.1	53
156	Dinuclear Nickel-Ruthenium Complexes as Functional Bio-Inspired Models of [NiFe] Hydrogenases. European Journal of Inorganic Chemistry, 2007, 2007, 2613-2626.	2.0	59
157	[Ni(xbsms)Ru(CO) ₂ Cl ₂]: A Bioinspired Nickel-Ruthenium Functional Model of [NiFe] Hydrogenase. Inorganic Chemistry, 2006, 45, 4334-4336.	4.0	66
158	Some general principles for designing electrocatalysts with hydrogenase activity. Coordination Chemistry Reviews, 2005, 249, 1518-1535.	18.8	321
159	Proton Electroreduction Catalyzed by Cobaloximes: Functional Models for Hydrogenases. Inorganic Chemistry, 2005, 44, 4786-4795.	4.0	389
160	Synthesis, Characterization, and Photochemical Behavior of {Ru(arene)} ₂ ⁺ Derivatives of [±-[PW ₁₁ O ₃₉]-] An Organometallic Way to Ruthenium-Substituted Heteropolytungstates. Inorganic Chemistry, 2005, 44, 2826-2835.	4.0	84
161	Organometallic polyoxometalates: synthesis and structural analysis of (η ⁶ -arene) ruthenium-containing polyoxomolybdates. Journal of Molecular Structure, 2003, 656, 67-77.	3.6	27
162	Synthesis and Characterization of the First Carbene Derivative of a Polyoxometalate. Journal of the American Chemical Society, 2003, 125, 11156-11157.	13.7	114

#	ARTICLE	IF	CITATIONS
163	Dynamics of Organometallic Oxides: From Synthesis and Reactivity to DFT Calculations. Nanostructure Science and Technology, 2002, , 83-95.	0.1	0
164	Adamantane Selective Hydroxylation by 2,6-Dichloropyridine N-Oxide and Organoruthenium(II) Polyoxometalates as Catalyst Precursors. Advanced Synthesis and Catalysis, 2002, 344, 841-844.	4.3	33
165	Interplay of Cubic Building Blocks in (1-6-arene)Ruthenium-Containing Tungsten and Molybdenum Oxides. Chemistry - A European Journal, 2001, 7, 3901-3910.	3.3	71
166	Reduction of the Phosphododecamolybdate Ion by Phosphonium Ylides and Phosphanes. European Journal of Inorganic Chemistry, 2000, 2000, 2393-2400.	2.0	25
167	(1-6-Arene)ruthenium oxomolybdenum and oxotungsten clusters. Stereochemical non-rigidity of $[\{Ru(1-6-p-MeC_6H_4Pri)\}_4Mo_4O_{16}]$ and crystal structure of $[\{Ru(1-6-p-MeC_6H_4Pri)\}_4W_2O_{10}]$. Chemical Communications, 2000, , 883-884.	4.1	38
168	The unexpected reactivity of p-tolylisocyanate towards the Keggin anion $\hat{1}\pm-[PMo_{12}O_{40}]_3\hat{a}\epsilon$. Chemical Communications, 1996, , 2195-2196.	4.1	21