

Frederic Gloaguen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84
papers

6,019
citations

43
h-index

77
g-index

89
ext. papers

6,330
ext. citations

6.6
avg, IF

5.67
L-index

#	Paper	IF	Citations
84	Rhodium-based cathodes with ultra-low metal loading to increase the sustainability in the hydrogen evolution reaction. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 107682	6.8	0
83	Electrochemically Driven Reduction of Carbon Dioxide Mediated by Mono-Reduced Mo-Diimine Tetracarbonyl Complexes: Electrochemical, Spectroelectrochemical and Theoretical Studies. <i>ChemElectroChem</i> , 2021 , 8, 1899-1910	4.3	0
82	Oxo-functionalised mesoionic NHC nickel complexes for selective electrocatalytic reduction of CO to formate. <i>Green Chemistry</i> , 2021 , 23, 3365-3373	10	3
81	Influence of QD photosensitizers in the photocatalytic production of hydrogen with biomimetic [FeFe]-hydrogenase. Comparative performance of CdSe and CdTe. <i>Chemosphere</i> , 2021 , 278, 130485	8.4	2
80	Electrocatalytic Proton Reduction by a Cobalt Complex Containing a Proton-Responsive Bis(alkylimidazole)methane Ligand: Involvement of a C-H Bond in H Formation. <i>Chemistry - A European Journal</i> , 2020 , 26, 12560-12569	4.8	3
79	Why Cobalt macrocyclic complexes are not efficient catalysts for the oxygen reduction reaction, under acidic conditions. <i>Electrochimica Acta</i> , 2020 , 358, 136854	6.7	0
78	Comprehensive review and future perspectives on the photocatalytic hydrogen production. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 3049-3063	3.5	67
77	Insights into the radical-radical and radical-substrate dimerization processes for substituted phenylmethylenepyrans. <i>Electrochimica Acta</i> , 2019 , 305, 304-311	6.7	4
76	Selective Earth-Abundant System for CO ₂ Reduction: Comparing Photo- and Electrocatalytic Processes. <i>ACS Catalysis</i> , 2019 , 9, 2091-2100	13.1	50
75	Spectral radiative analysis of bio-inspired H ₂ production in a benchmark photoreactor: A first investigation using spatial photonic balance. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 8221-8231	6.7	6
74	Reversible Redox Switching of Chromophoric Phenylmethylenepyrans by Carbon-Carbon Bond Making/Breaking. <i>Journal of Organic Chemistry</i> , 2017 , 82, 12395-12405	4.2	10
73	Electronic and molecular structure relations in diiron compounds mimicking the [FeFe]-hydrogenase active site studied by X-ray spectroscopy and quantum chemistry. <i>Dalton Transactions</i> , 2017 , 46, 12544-12557	4.3	5
72	Electrochemistry of Simple Organometallic Models of Iron-Iron Hydrogenases in Organic Solvent and Water. <i>Inorganic Chemistry</i> , 2016 , 55, 390-8	5.1	41
71	Study of the magnetization behavior of ferromagnetic nanowire array: Existence of growth defects revealed by micromagnetic simulations. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 401, 378-385	2.8	7
70	A molecular material based on electropolymerized cobalt macrocycles for electrocatalytic hydrogen evolution. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 13374-9	3.6	6
69	Application of the energetic span model to the electrochemical catalysis of proton reduction by a diiron azadithiolate complex. <i>New Journal of Chemistry</i> , 2015 , 39, 8073-8079	3.6	5
68	Electrochemical and Computational Study of the Reactivity of a Diiron Azadithiolate Complex towards Protons in the Presence of Coordinating Anions. <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, 4986-4990	2.3	3

67	Photocatalytic hydrogen production using models of the iron-iron hydrogenase active site dispersed in micellar solution. <i>ChemSusChem</i> , 2014 , 7, 638-43	8.3	55
66	A super-efficient cobalt catalyst for electrochemical hydrogen production from neutral water with 80 mV overpotential. <i>Energy and Environmental Science</i> , 2014 , 7, 329-334	35.4	104
65	Mechanistic insights into the catalysis of electrochemical proton reduction by a diiron azadithiolate complex. <i>Inorganic Chemistry</i> , 2014 , 53, 10667-73	5.1	37
64	Concerted proton-coupled electron transfer from a metal-hydride complex. <i>Nature Chemistry</i> , 2014 , 7, 140-5	17.6	72
63	Electrocatalytic hydrogen evolution from neutral water by molecular cobalt tripyridine-diamine complexes. <i>Chemical Communications</i> , 2013 , 49, 9455-7	5.8	80
62	Tetranuclear iron complexes bearing benzenetetrathiolate bridges as four-electron transformation templates and their electrocatalytic properties for proton reduction. <i>Inorganic Chemistry</i> , 2013 , 52, 1798-806	5.1	26
61	Kinetic and thermodynamic aspects of the electrocatalysis of acid reduction in organic solvent using molecular diiron-dithiolate compounds. <i>Electrochimica Acta</i> , 2013 , 110, 641-645	6.7	19
60	Electrochemistry of cytochrome c immobilized on cardiolipin-modified electrodes: a probe for protein-lipid interactions. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013 , 1830, 2798-803	4	10
59	A binuclear iron-thiolate catalyst for electrochemical hydrogen production in aqueous micellar solution. <i>Chemistry - A European Journal</i> , 2012 , 18, 13473-9	4.8	36
58	Multielectron-transfer templates via consecutive two-electron transformations: iron-sulfur complexes relevant to biological enzymes. <i>Chemistry - A European Journal</i> , 2012 , 18, 13968-73	4.8	26
57	Electrochemical hydrogen production in aqueous micellar solution by a diiron benzenedithiolate complex relevant to [FeFe] hydrogenases. <i>Energy and Environmental Science</i> , 2012 , 5, 7757	35.4	98
56	Electrochemical hydrogen production in aqueous micellar solution by a diiron benzenedithiolate complex relevant to [FeFe] hydrogenases. <i>Physical Chemistry Chemical Physics</i> , 2012 ,	3.6	2
55	Diiron species containing a cyclic P(Ph)2N(Ph)2 diphosphine related to the [FeFe]H2ases active site. <i>Chemical Communications</i> , 2011 , 47, 878-80	5.8	28
54	Oxidatively induced reactivity of [Fe2(CO)4(η -dppe)(η -pdt)]: an electrochemical and theoretical study of the structure change and ligand binding processes. <i>Inorganic Chemistry</i> , 2011 , 50, 12575-85	5.1	26
53	Diiron Complexes with a [2Fe3S] Core Related to the Active Site of [FeFe]H2ases. <i>European Journal of Inorganic Chemistry</i> , 2011 , 2011, 1038-1042	2.3	9
52	Magnetic crossover effect in Nickel nanowire arrays. <i>Physica B: Condensed Matter</i> , 2011 , 406, 2046-2053	2.8	20
51	Magnetic properties of ferromagnetic nanowire arrays: Theory and experiment. <i>Journal of Physics: Conference Series</i> , 2010 , 200, 072032	0.3	6
50	Effect of electron-withdrawing dithiolate bridge on the electron-transfer steps in diiron molecules related to [2Fe](H) subsite of the [FeFe]-hydrogenases. <i>Inorganic Chemistry</i> , 2010 , 49, 2496-501	5.1	47

49	Investigation on the protonation of a trisubstituted [Fe ₂ (CO) ₃ (PPh ₃) ₃](κ ² -phen)(μ-pdt)] complex: rotated versus unrotated intermediate pathways. <i>Inorganic Chemistry</i> , 2010 , 49, 5003-8	5.1	25
48	Reactivity of [Fe ₂ (CO) ₆ (μ ₂ -S)] toward a Base-Containing Diphosphine (Ph ₂ PCH ₂) ₂ NCH ₃ : Formation of Diiron Carbonyl Compounds Having Polydentate Heterofunctionalized Phosphine (PNS = Ph ₂ PCH ₂ N(CH ₃)CH ₂ S) and Bidentate Thiophosphinito (Ph ₂ PS = PS) Bridges. <i>Organometallics</i> , 2010 , 29, 1296-1301	3.8	11
47	Non-innocent bma ligand in a dissymmetrically disubstituted diiron dithiolate related to the active site of the [FeFe] hydrogenases. <i>Journal of Inorganic Biochemistry</i> , 2010 , 104, 1038-42	4.2	32
46	Tuning of electron transfer in diiron azo-bridged complexes relevant to hydrogenases. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 10797-10802	6.7	21
45	Effects of anodization and electrodeposition conditions on the growth of copper and cobalt nanostructures in aluminum oxide films. <i>Journal of Applied Electrochemistry</i> , 2009 , 39, 719-725	2.6	8
44	Electrochemical study of the role of a H-bridged, unsymmetrically disubstituted diiron complex in proton reduction catalysis. <i>Journal of Electroanalytical Chemistry</i> , 2009 , 626, 161-170	4.1	42
43	Modeling [FeFe] hydrogenase: Synthesis and protonation of a diiron dithiolate complex containing a phosphine-N-heterocyclic-carbene ligand. <i>Journal of Organometallic Chemistry</i> , 2009 , 694, 2801-2807	2.3	46
42	Electron and proton transfers at diiron dithiolate sites relevant to the catalysis of proton reduction by the [FeFe]-hydrogenases. <i>Coordination Chemistry Reviews</i> , 2009 , 253, 1476-1494	23.2	279
41	Small molecule mimics of hydrogenases: hydrides and redox. <i>Chemical Society Reviews</i> , 2009 , 38, 100-8	58.5	582
40	Influence of a pendant amine in the second coordination sphere on proton transfer at a dissymmetrically disubstituted diiron system related to the [2Fe]H subsite of [FeFe]H ₂ ase. <i>Inorganic Chemistry</i> , 2009 , 48, 2-4	5.1	133
39	Thermal Evolution of Magnetic Interactions in Ni Nanowires Embedded in Polycarbonate Membranes by Ferromagnetic Resonance. <i>Acta Physica Polonica A</i> , 2009 , 116, 1039-1043	0.6	8
38	New nitrosyl derivatives of diiron dithiolates related to the active site of the [FeFe]-hydrogenases. <i>Inorganic Chemistry</i> , 2008 , 47, 11816-24	5.1	24
37	Phosphorus Functionalized Carbenes: Synthesis and Coordination Properties. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2008 , 183, 669-670	1	
36	On the electrochemistry of diiron dithiolate complexes related to the active site of the [FeFe]H ₂ ase. <i>Comptes Rendus Chimie</i> , 2008 , 11, 842-851	2.7	46
35	Electrochemical insights into the mechanisms of proton reduction by [Fe ₂ (CO) ₆ {μ-SCH ₂ N(R)CH ₂ S}] complexes related to the [2Fe](H) subsite of [FeFe]hydrogenase. <i>Chemistry - A European Journal</i> , 2008 , 14, 1954-64	4.8	92
34	Organometallic Diiron Complex Chemistry Related to the [2Fe]H Subsite of [FeFe]H ₂ ase. <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 4671-4681	2.3	67
33	Diiron chelate complexes relevant to the active site of the iron-only hydrogenase. <i>Comptes Rendus Chimie</i> , 2008 , 11, 906-914	2.7	42
32	First insights into the protonation of dissymmetrically disubstituted di-iron azadithiolate models of the [FeFe]H ₂ ases active site. <i>Chemical Communications</i> , 2008 , 2547-9	5.8	46

31	Electrochemical and theoretical investigations of the reduction of $[\text{Fe}_2(\text{CO})_5\text{L}\{\text{E}\text{SCH}_2\text{XCH}_2\text{S}\}]$ complexes related to $[\text{FeFe}]$ hydrogenase. <i>New Journal of Chemistry</i> , 2007 , 31, 2052	3.6	89
30	Evidence for the formation of terminal hydrides by protonation of an asymmetric iron hydrogenase active site mimic. <i>Inorganic Chemistry</i> , 2007 , 46, 3426-8	5.1	196
29	Electron-transfer-catalyzed rearrangement of unsymmetrically substituted diiron dithiolate complexes related to the active site of the $[\text{FeFe}]$ -hydrogenases. <i>Inorganic Chemistry</i> , 2007 , 46, 9863-72	5.1	88
28	N-Heterocyclic Carbene Ligands in Nonsymmetric Diiron Models of Hydrogenase Active Sites. <i>Organometallics</i> , 2007 , 26, 2042-2052	3.8	136
27	Electrochemical Synthesis of Mono- and Disubstituted Diiron Dithiolate Complexes as Models for the Active Site of Iron-Only Hydrogenases. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 5062-5068	2.3	29
26	Carboxy-functionalized dithiolate di-iron complexes related to the active site of Fe-only hydrogenase. <i>Journal of Organometallic Chemistry</i> , 2007 , 692, 4177-4181	2.3	16
25	Use of 1,10-phenanthroline in diiron dithiolate derivatives related to the $[\text{Fe-Fe}]$ hydrogenase active site. <i>Dalton Transactions</i> , 2007 , 3754-6	4.3	61
24	Electrochemical proton reduction at mild potentials by monosubstituted diiron organometallic complexes bearing a benzenedithiolate bridge. <i>Journal of Electroanalytical Chemistry</i> , 2007 , 603, 15-20	4.1	61
23	Activation of proton by the two-electron reduction of a di-iron organometallic complex. <i>Journal of Electroanalytical Chemistry</i> , 2006 , 595, 47-52	4.1	106
22	N-Heterocyclic Carbene Ligands as Cyanide Mimics in Diiron Models of the All-Iron Hydrogenase Active Site. <i>Organometallics</i> , 2005 , 24, 2020-2022	3.8	146
21	Catalysis of the electrochemical H_2 evolution by di-iron sub-site models. <i>Coordination Chemistry Reviews</i> , 2005 , 249, 1664-1676	23.2	231
20	Chemically modified electrode based on an organometallic model of the $[\text{FeFe}]$ hydrogenase active center. <i>Electrochemistry Communications</i> , 2005 , 7, 427-430	5.1	52
19	Electrochemical proton reduction by thiolate-bridged hexacarbonyldiiron clusters. <i>Journal of Electroanalytical Chemistry</i> , 2004 , 566, 241-247	4.1	123
18	Di-iron aza diphosphido complexes: mimics for the active site of Fe-only hydrogenase, and effects of changing the coordinating atoms of the bridging ligand in $[\text{Fe}_2[\mu\text{-(E}\text{CH}_2)_2\text{NR}](\text{CO})_6]$. <i>Inorganic Chemistry</i> , 2004 , 43, 8203-5	5.1	65
17	Preparation of methanol oxidation electrocatalysts: ruthenium deposition on carbon-supported platinum nanoparticles. <i>Journal of Applied Electrochemistry</i> , 2003 , 33, 1-8	2.6	47
16	Oxygen electroreduction on carbon-supported platinum catalysts. Particle-size effect on the tolerance to methanol competition. <i>Electrochimica Acta</i> , 2002 , 47, 3431-3440	6.7	180
15	Bimetallic carbonyl thiolates as functional models for Fe-only hydrogenases. <i>Inorganic Chemistry</i> , 2002 , 41, 6573-82	5.1	209
14	Electrodes modified by electrodeposition of CoTAA complexes as selective oxygen cathodes in a direct methanol fuel cell. <i>Journal of Applied Electrochemistry</i> , 2001 , 31, 945-952	2.6	73

13	Electrochemical and spontaneous deposition of ruthenium at platinum electrodes for methanol oxidation: an electrochemical quartz crystal microbalance study. <i>Electrochimica Acta</i> , 2001 , 46, 4331-4337	6.7	55
12	Biomimetic hydrogen evolution catalyzed by an iron carbonyl thiolate. <i>Journal of the American Chemical Society</i> , 2001 , 123, 9476-7	16.4	399
11	Synthetic and structural studies on $[\text{Fe}_2(\text{SR})_2(\text{CN})_x(\text{CO})_{6-x}]^{(x-)}$ as active site models for Fe-only hydrogenases. <i>Journal of the American Chemical Society</i> , 2001 , 123, 12518-27	16.4	261
10	In Situ Infrared Study of Carbon Monoxide Adsorbed onto Commercial Fuel-Cell-Grade Carbon-Supported Platinum Nanoparticles: Correlation with ^{13}C NMR Results. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 5803-5807	3.4	67
9	An electrochemical quartz crystal microbalance study of the hydrogen underpotential deposition at a Pt electrode. <i>Journal of Electroanalytical Chemistry</i> , 1999 , 467, 186-192	4.1	35
8	Platinum electrodeposition on graphite: electrochemical study and STM imaging. <i>Electrochimica Acta</i> , 1999 , 44, 1805-1816	6.7	136
7	An evaluation of the macro-homogeneous and agglomerate model for oxygen reduction in PEMFCs. <i>Electrochimica Acta</i> , 1998 , 43, 3767-3772	6.7	80
6	Electrocatalytic oxidation of methanol on platinum nanoparticles electrodeposited onto porous carbon substrates. <i>Journal of Applied Electrochemistry</i> , 1997 , 27, 1052-1060	2.6	169
5	Simulations of PEFC cathodes: an effectiveness factor approach. <i>Journal of Applied Electrochemistry</i> , 1997 , 27, 1029-1035	2.6	52
4	Oxygen reduction on well-defined platinum nanoparticles inside recast ionomer. <i>Electrochimica Acta</i> , 1996 , 41, 307-314	6.7	128
3	Kinetic study of electrochemical reactions at catalyst-recast ionomer interfaces from thin active layer modelling. <i>Journal of Applied Electrochemistry</i> , 1994 , 24, 863-869	2.6	177
2	Particle size effect for oxygen reduction and methanol oxidation on Pt/C inside a proton exchange membrane. <i>Journal of Electroanalytical Chemistry</i> , 1994 , 373, 251-254	4.1	124
1	Electrochemistry of dinuclear, thiolate-bridged transition-metal compounds. 7. Electrochemical generation of isomers of $[\text{Mo}_2\text{Cp}_2(\text{CO})_2(\mu\text{-SMe})_2]$ and their reactivity toward isocyanide ligands. <i>Organometallics</i> , 1991 , 10, 2004-2011	3.8	9