Murielle Chavarot-Kerlidou

List of Publications by Year
in descending order

42	3,522	279798 23	265206 42
papers	citations	h-index	g-index

43	43	43	4367
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Splitting Water with Cobalt. Angewandte Chemie - International Edition, 2011, 50, 7238-7266.	13.8	1,231
2	Molecular engineering of a cobalt-based electrocatalytic nanomaterial for H2 evolution under fully aqueous conditions. Nature Chemistry, 2013, 5, 48-53.	13.6	349
3	Artificial Photosynthesis: From Molecular Catalysts for Lightâ€driven Water Splitting to Photoelectrochemical Cells. Photochemistry and Photobiology, 2011, 87, 946-964.	2.5	273
4	Hydrogen Evolution Catalyzed by Cobalt Diimineâ€“Dioxime Complexes. Accounts of Chemical Research, 2015, 48, 1286-1295.	15.6	228
5	Recent developments in hydrogen evolving molecular cobalt(II)â€“polypyridyl catalysts. Coordination Chemistry Reviews, 2015, 304-305, 3-19.	18.8	205
6	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.	13.7	142
7	Phosphine Coordination to a Cobalt Diimineâ€“Dioxime Catalyst Increases Stability during Light-Driven H₂ Production. Inorganic Chemistry, 2012, 51, 2115-2120.	4.0	98
8	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.	13.7	92
9	A Computational Study of the Mechanism of Hydrogen Evolution by Cobalt(Diimineâ€Dioxime) Catalysts. Chemistry - A European Journal, 2013, 19, 15166-15174.	3.3	91
10	Molecular cathode and photocathode materials for hydrogen evolution in photoelectrochemical devices. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2015, 25, 90-105.	11.6	84
11	Earth-Abundant Molecular Z-Scheme Photoelectrochemical Cell for Overall Water-Splitting. Journal of the American Chemical Society, 2019, 141, 9593-9602.	13.7	84
12	Combined Experimentalâ€“Theoretical Characterization of the Hydrido-Cobaloxime [HCo(dmgH)₂(PnBu₃)]. Inorganic Chemistry, 2012, 51, 7087-7093.	4.0	55
13	An artificial photosynthetic system for photoaccumulation of two electrons on a fused dipyridophenazine (dppz)â€“pyridoquinolinone ligand. Chemical Science, 2018, 9, 4152-4159.	7.4	48
14	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.	4.9	37
15	Microsecond Xâ€ray Absorption Spectroscopy Identification of Co^I Intermediates in Cobaloximeâ€Catalyzed Hydrogen Evolution. Chemistry - A European Journal, 2015, 21, 15158-15162.	3.3	35
16	Dye-sensitized nanostructured crystalline mesoporous tin-doped indium oxide films with tunable thickness for photoelectrochemical applications. Journal of Materials Chemistry A, 2013, 1, 8217.	10.3	33
17	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.	3.1	33
18	Dye-sensitized PS- b -P2VP-templated nickel oxide films for photoelectrochemical applications. Interface Focus, 2015, 5, 20140083.	3.0	32

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19	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.	3.1	31
20	Insights into the mechanism and aging of a noble-metal free H₂-evolving dye-sensitized photocathode. Chemical Science, 2018, 9, 6721-6738.	7.4	31
21	Electron transfer in a covalent dyeâ€“cobalt catalyst assembly â€“ a transient absorption spectroelectrochemistry perspective. Chemical Communications, 2018, 54, 10594-10597.	4.1	29
22	H₂-Evolving Dye-Sensitized Photocathode Based on a Rutheniumâ€“Diacetylide/Cobaloxime Supramolecular Assembly. ACS Applied Energy Materials, 2019, 2, 4971-4980.	5.1	26
23	Identification of Three-Way DNA Junction Ligands through Screening of Chemical Libraries and Validation by Complementary in Vitro Assays. Journal of Medicinal Chemistry, 2019, 62, 4456-4466.	6.4	25
24	Selective Luminescent Labeling of DNA and RNA Quadruplexes by Ï€â€Extended Ruthenium Lightâ€Up Probes. Chemistry - A European Journal, 2017, 23, 4967-4972.	3.3	24
25	Design and synthesis of novel organometallic dyes for NiO sensitization and photo-electrochemical applications. Dalton Transactions, 2016, 45, 12539-12547.	3.3	21
26	A Ï€Ï€* State Enables Photoaccumulation of Charges on a Ï€-Extended Dipyridophenazine Ligand in a Ru(II) Polypyridine Complex. Journal of Physical Chemistry C, 2018, 122, 83-95.	3.1	19
27	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.	11.2	19
28	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.	3.1	18
29	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
30	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.	8.0	16
31	Dye-Sensitized Photocathodes: Boosting Photoelectrochemical Performances with Polyoxometalate Electron Transfer Mediators. ACS Applied Energy Materials, 2020, 3, 163-169.	5.1	14
32	CuAAC-based assembly and characterization of a rutheniumâ€“copper dyad containing a diimineâ€“dioxime ligand framework. Faraday Discussions, 2017, 198, 251-261.	3.2	12
33	Synthesis of three series of ruthenium tris-diimine complexes containing acridine-based Ï€-extended ligands using an efficient â€œchemistry on the complexâ€•approach. Dalton Transactions, 2016, 45, 16298-16308.	3.3	10
34	Photophysics of a Ruthenium Complex with a Ï€-Extended Dipyridophenazine Ligand for DNA Quadruplex Labeling. Journal of Physical Chemistry A, 2018, 122, 6558-6569.	2.5	10
35	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.	2.0	10
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.	2.0	9

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37	Investigating Light-Induced Processes in Covalent Dye-Catalyst Assemblies for Hydrogen Production. Catalysts, 2020, 10, 1340.	3.5	8
38	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.	4.9	7
39	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.	3.3	5
40	A Combined Spectroscopic and Theoretical Study on a Ruthenium Complex Featuring a Ï€â€Extended dppz Ligand for Lightâ€Driven Accumulation of Multiple Reducing Equivalents. Chemistry - A European Journal, 2022, 28, e202103882.	3.3	5
41	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.	3.6	3
42	Pushâ€“pull organic dyes and dye-catalyst assembly featuring a benzothiadiazole unit for photoelectrochemical hydrogen production. Sustainable Energy and Fuels, 2022, 6, 3565-3572.	4.9	3