CÃ©dric Tard

List of Publications by Year
in descending order

41 papers	3,826 citations	236925 25 h-index	276875 41 g-index
43 all docs	43 docs citations	43 times ranked	4038 citing authors

#	Article	IF	Citations
1	Structural and Functional Analogues of the Active Sites of the [Fe]-, [NiFe]-, and [FeFe]-Hydrogenases. Chemical Reviews, 2009, 109, 2245-2274.	47.7	1,184
2	Synthesis of the H-cluster framework of iron-only hydrogenase. Nature, 2005, 433, 610-613.	27.8	498
3	Iron-only hydrogenase: Synthetic, structural and reactivity studies of model compounds. Coordination Chemistry Reviews, 2005, 249, 1641-1652.	18.8	263
4	Thermochromic Luminescence of Copper Iodide Clusters: The Case of Phosphine Ligands. Inorganic Chemistry, 2011, 50, 10682-10692.	4.0	262
5	Bioinspired Iron Sulfide Nanoparticles for Cheap and Long-Lived Electrocatalytic Molecular Hydrogen Evolution in Neutral Water. ACS Catalysis, 2014, 4, 681-687.	11.2	164
6	Modeling [Feâˆ'Fe] Hydrogenase:â€‰ Evidence for Bridging Carbonyl and Distal Iron Coordination Vacancy in an Electrocatalytically Competent Proton Reduction by an Iron Thiolate Assembly That Operates through Fe(0)âˆ'Fe(II) Levels. Journal of the American Chemical Society, 2007, 129, 11085-11092.	13.7	114
7	Low-Cost Nanostructured Iron Sulfide Electrocatalysts for PEM Water Electrolysis. ACS Catalysis, 2016, 6, 2626-2631.	11.2	105
8	Photostable Secondâ€Harmonic Generation from a Single KTiOPO₄ Nanocrystal for Nonlinear Microscopy. Small, 2008, 4, 1332-1336.	10.0	100
9	Thermochromic Luminescence of Solâˆ'Gel Films Based on Copper Iodide Clusters. Chemistry of Materials, 2008, 20, 7010-7016.	6.7	95
10	Hydrogen-Bond Relays in Concerted Protonâ€"Electron Transfers. Accounts of Chemical Research, 2012, 45, 372-381.	15.6	84
11	Hierarchically Structured Ultraporous Iridiumâ€Based Materials: A Novel Catalyst Architecture for Proton Exchange Membrane Water Electrolyzers. Advanced Energy Materials, 2019, 9, 1802136.	19.5	72
12	Electropolymeric materials incorporating subsite structures related to iron-only hydrogenase: active ester functionalised poly(pyrroles) for covalent binding of {2Fe3S}-carbonyl/cyanide assemblies. Chemical Communications, 2007, , 1535.	4.1	69
13	Inserting a Hydrogenâ€Bond Relay between Proton Exchanging Sites in Protonâ€Coupled Electron Transfers. Angewandte Chemie - International Edition, 2010, 49, 3803-3806.	13.8	65
14	A novel {Feiâ€"Feiiâ€"Feiiâ€"Fei} iron thiolate carbonyl assembly which electrocatalyses hydrogen evolution. Chemical Communications, 2005, , 133-135.	4.1	62
15	The origin of the high electrochemical activity of pseudo-amorphous iridium oxides. Nature Communications, 2021, 12, 3935.	12.8	56
16	Controlling carbon monoxide binding at di-iron units related to the iron-only hydrogenase sub-site. Chemical Communications, 2008, , 606-608.	4.1	53
17	Breaking Bonds with Electrons and Protons. Models and Examples. Accounts of Chemical Research, 2014, 47, 271-280.	15.6	47
18	On the electronic structure of the hydrogenase H-cluster. Chemical Communications, 2006, , 3696.	4.1	44

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19	Balanced homodyne detection of second-harmonic generation from isolated subwavelength emitters. Applied Physics Letters, 2006, 89, 121118.	3.3	43
20	Catalysis of CO₂ Electrochemical Reduction by Protonated Pyridine and Similar Molecules. Useful Lessons from a Methodological Misadventure. ACS Energy Letters, 2018, 3, 695-703.	17.4	42
21	Proton-Coupled Electron Transfer in Azobenzene/Hydrazobenzene Couples with Pendant Acidâ€"Base Functions. Hydrogen-Bonding and Structural Effects. Journal of the American Chemical Society, 2014, 136, 8907-8910.	13.7	38
22	Attempts To Catalyze the Electrochemical CO₂-to-Methanol Conversion by Biomimetic 2e^{â€"} + 2H⁺ Transferring Molecules. Journal of the American Chemical Society, 2016, 138, 1017-1021.	13.7	37
23	Concerted heavy-atom bond cleavage and proton and electron transfers illustrated by proton-assisted reductive cleavage of an Oâ€"O bond. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8559-8564.	7.1	35
24	Nanodiffusion in electrocatalytic films. Nature Materials, 2017, 16, 1016-1021.	27.5	34
25	Ligand â€œnoninnocenceâ€•in coordination complexes vs. kinetic, mechanistic, and selectivity issues in electrochemical catalysis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9104-9109.	7.1	33
26	<i>De Novo</i> Design and Characterization of Copper Metallopeptides Inspired by Native Cupredoxins. Inorganic Chemistry, 2015, 54, 9470-9482.	4.0	25
27	pH-dependence on HER electrocatalytic activity of iron sulfide pyrite nanoparticles. Electrochemistry Communications, 2018, 91, 10-14.	4.7	24
28	H-bond relays in proton-coupled electron transfers. Oxidation of a phenol concerted with proton transport to a distal base through an OH relay. Physical Chemistry Chemical Physics, 2011, 13, 5353.	2.8	21
29	Coherent nonlinear emission from a single KTP nanoparticle with broadband femtosecond pulses. Optics Express, 2009, 17, 4652.	3.4	20
30	Conductive Mesoporous Catalytic Films. Current Distortion and Performance Degradation by Dual-Phase Ohmic Drop Effects. Analysis and Remedies. Journal of Physical Chemistry C, 2016, 120, 21263-21271.	3.1	19
31	Clarifying the Copper Coordination Environment in a <i>de Novo</i> Designed Red Copper Protein. Inorganic Chemistry, 2018, 57, 12291-12302.	4.0	19
32	Electrochemical Active Surface Area Determination of Iridiumâ€Based Mixed Oxides by Mercury Underpotential Deposition. ChemElectroChem, 2021, 8, 3519-3524.	3.4	17
33	Development of a Rubredoxin-Type Center Embedded in a <i>de Dovo</i>-Designed Three-Helix Bundle. Biochemistry, 2018, 57, 2308-2316.	2.5	16
34	Rational De Novo Design of a Cu Metalloenzyme for Superoxide Dismutation. Chemistry - A European Journal, 2020, 26, 249-258.	3.3	16
35	Effect of Base Pairing on the Electrochemical Oxidation of Guanine. Journal of the American Chemical Society, 2010, 132, 10142-10147.	13.7	13
36	Aerosol synthesis of thermally stable porous noble metals and alloys by using bi-functional templates. Materials Horizons, 2020, 7, 541-550.	12.2	13

#	Article	IF	Citations
37	Traversing the Redâ€"Greenâ€"Blue Color Spectrum in Rationally Designed Cupredoxins. Journal of the American Chemical Society, 2020, 142, 15282-15294.	13.7	10
38	A Pioneering Career in Electrochemistry: Jean-Michel SavÃ©ant. ACS Catalysis, 2021, 11, 3224-3238.	11.2	7
39	Hollow Iridium-Based Catalysts for the Oxygen Evolution Reaction in Proton Exchange Membrane Water Electrolyzers. ECS Transactions, 2017, 80, 1077-1084.	0.5	3
40	Electronic Communication between Dithiolato-Bridged Diiron Carbonyl and S-Bridged Redox-Active Centres. Inorganics, 2019, 7, 37.	2.7	3
41	Porous Electrocatalysts: Hierarchically Structured Ultraporous Iridium-Based Materials: A Novel Catalyst Architecture for Proton Exchange Membrane Water Electrolyzers (Adv. Energy Mater.) Tj ETQq1 1 0.784314 rg BT /Overlock 10	19.5	1