

CÃ©dric Tard

List of Publications by Year in descending order

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papers

3,826
citations

236925

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276875

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g-index

43
all docs

43
docs citations

43
times ranked

4038
citing authors

#	ARTICLE	IF	CITATIONS
1	A Pioneering Career in Electrochemistry: Jean-Michel Savant. ACS Catalysis, 2021, 11, 3224-3238.	11.2	7
2	The origin of the high electrochemical activity of pseudo-amorphous iridium oxides. Nature Communications, 2021, 12, 3935.	12.8	56
3	Electrochemical Active Surface Area Determination of Iridium-Based Mixed Oxides by Mercury Underpotential Deposition. ChemElectroChem, 2021, 8, 3519-3524.	3.4	17
4	Rational De Novo Design of a Cu Metalloenzyme for Superoxide Dismutation. Chemistry - A European Journal, 2020, 26, 249-258.	3.3	16
5	Aerosol synthesis of thermally stable porous noble metals and alloys by using bi-functional templates. Materials Horizons, 2020, 7, 541-550.	12.2	13
6	Traversing the Red-Green-Blue Color Spectrum in Rationally Designed Cupredoxins. Journal of the American Chemical Society, 2020, 142, 15282-15294.	13.7	10
7	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.rgBT /Overlock 10	14.1	10
8	Electronic Communication between Dithiolato-Bridged Diiron Carbonyl and S-Bridged Redox-Active Centres. Inorganics, 2019, 7, 37.	2.7	3
9	Hierarchically Structured Ultraporous Iridium-Based Materials: A Novel Catalyst Architecture for Proton Exchange Membrane Water Electrolyzers. Advanced Energy Materials, 2019, 9, 1802136.	19.5	72
10	Catalysis of CO ₂ Electrochemical Reduction by Protonated Pyridine and Similar Molecules. Useful Lessons from a Methodological Misadventure. ACS Energy Letters, 2018, 3, 695-703.	17.4	42
11	pH-dependence on HER electrocatalytic activity of iron sulfide pyrite nanoparticles. Electrochemistry Communications, 2018, 91, 10-14.	4.7	24
12	Development of a Rubredoxin-Type Center Embedded in a <i>de Novo</i> -Designed Three-Helix Bundle. Biochemistry, 2018, 57, 2308-2316.	2.5	16
13	Clarifying the Copper Coordination Environment in a <i>de Novo</i> Designed Red Copper Protein. Inorganic Chemistry, 2018, 57, 12291-12302.	4.0	19
14	Ligand "noninnocence" 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
15	Hollow Iridium-Based Catalysts for the Oxygen Evolution Reaction in Proton Exchange Membrane Water Electrolyzers. ECS Transactions, 2017, 80, 1077-1084.	0.5	3
16	Nanodiffusion in electrocatalytic films. Nature Materials, 2017, 16, 1016-1021.	27.5	34
17	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
18	Low-Cost Nanostructured Iron Sulfide Electrocatalysts for PEM Water Electrolysis. ACS Catalysis, 2016, 6, 2626-2631.	11.2	105

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19	Attempts To Catalyze the Electrochemical CO ₂ -to-Methanol Conversion by Biomimetic 2e ⁺ + 2H ⁺ Transferring Molecules. <i>Journal of the American Chemical Society</i> , 2016, 138, 1017-1021.	13.7	37
20	<i>De Novo</i> Design and Characterization of Copper Metallopeptides Inspired by Native Cupredoxins. <i>Inorganic Chemistry</i> , 2015, 54, 9470-9482.	4.0	25
21	Breaking Bonds with Electrons and Protons. Models and Examples. <i>Accounts of Chemical Research</i> , 2014, 47, 271-280.	15.6	47
22	Bioinspired Iron Sulfide Nanoparticles for Cheap and Long-Lived Electrocatalytic Molecular Hydrogen Evolution in Neutral Water. <i>ACS Catalysis</i> , 2014, 4, 681-687.	11.2	164
23	Proton-Coupled Electron Transfer in Azobenzene/Hydrazobenzene Couples with Pendant Acid-Base Functions. Hydrogen-Bonding and Structural Effects. <i>Journal of the American Chemical Society</i> , 2014, 136, 8907-8910.	13.7	38
24	Hydrogen-Bond Relays in Concerted Proton-Electron Transfers. <i>Accounts of Chemical Research</i> , 2012, 45, 372-381.	15.6	84
25	H-bond relays in proton-coupled electron transfers. Oxidation of a phenol concerted with proton transport to a distal base through an OH relay. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 5353.	2.8	21
26	Thermochromic Luminescence of Copper Iodide Clusters: The Case of Phosphine Ligands. <i>Inorganic Chemistry</i> , 2011, 50, 10682-10692.	4.0	262
27	Concerted heavy-atom bond cleavage and proton and electron transfers illustrated by proton-assisted reductive cleavage of an O-O bond. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8559-8564.	7.1	35
28	Inserting a Hydrogen-Bond Relay between Proton Exchanging Sites in Proton-Coupled Electron Transfers. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3803-3806.	13.8	65
29	Effect of Base Pairing on the Electrochemical Oxidation of Guanine. <i>Journal of the American Chemical Society</i> , 2010, 132, 10142-10147.	13.7	13
30	Structural and Functional Analogues of the Active Sites of the [Fe]-, [NiFe]-, and [FeFe]-Hydrogenases. <i>Chemical Reviews</i> , 2009, 109, 2245-2274.	47.7	1,184
31	Coherent nonlinear emission from a single KTP nanoparticle with broadband femtosecond pulses. <i>Optics Express</i> , 2009, 17, 4652.	3.4	20
32	Photostable Second-Harmonic Generation from a Single KTiOPO ₄ Nanocrystal for Nonlinear Microscopy. <i>Small</i> , 2008, 4, 1332-1336.	10.0	100
33	Thermochromic Luminescence of Sol-Gel Films Based on Copper Iodide Clusters. <i>Chemistry of Materials</i> , 2008, 20, 7010-7016.	6.7	95
34	Controlling carbon monoxide binding at di-iron units related to the iron-only hydrogenase sub-site. <i>Chemical Communications</i> , 2008, , 606-608.	4.1	53
35	Modeling [Fe-Fe] Hydrogenase: 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)-Fe(II) Levels. <i>Journal of the American Chemical Society</i> , 2007, 129, 11085-11092.	13.7	114
36	Electropolymeric materials incorporating subsite structures related to iron-only hydrogenase: active ester functionalised poly(pyrroles) for covalent binding of {2Fe3S}-carbonyl/cyanide assemblies. <i>Chemical Communications</i> , 2007, , 1535.	4.1	69

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37	On the electronic structure of the hydrogenase H-cluster. <i>Chemical Communications</i> , 2006, , 3696.	4.1	44
38	Balanced homodyne detection of second-harmonic generation from isolated subwavelength emitters. <i>Applied Physics Letters</i> , 2006, 89, 121118.	3.3	43
39	Iron-only hydrogenase: Synthetic, structural and reactivity studies of model compounds. <i>Coordination Chemistry Reviews</i> , 2005, 249, 1641-1652.	18.8	263
40	Synthesis of the H-cluster framework of iron-only hydrogenase. <i>Nature</i> , 2005, 433, 610-613.	27.8	498
41	A novel {Fe ₂ Fe ₂ Fe} iron thiolate carbonyl assembly which electrocatalyses hydrogen evolution. <i>Chemical Communications</i> , 2005, , 133-135.	4.1	62