

AurÃ©lien Habrioux

List of Publications by Year in descending order

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49
papers

2,009
citations

279798

23
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243625

44
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50
all docs

50
docs citations

50
times ranked

2755
citing authors

#	ARTICLE	IF	CITATIONS
1	A critical analysis of the X-ray photoelectron spectra of Ti ₃ C ₂ T _z MXenes. Matter, 2021, 4, 1224-1251.	10.0	180
2	One MAX phase, different MXenes: A guideline to understand the crucial role of etching conditions on Ti ₃ C ₂ T _x surface chemistry. Applied Surface Science, 2020, 530, 147209.	6.1	172
3	Activity of Platinum-Gold Alloys for Glucose Electrooxidation in Biofuel Cells. Journal of Physical Chemistry B, 2007, 111, 10329-10333.	2.6	168
4	Electronic interaction between platinum nanoparticles and nitrogen-doped reduced graphene oxide: effect on the oxygen reduction reaction. Journal of Materials Chemistry A, 2015, 3, 11891-11904.	10.3	143
5	Effect of the Oxide-Carbon Heterointerface on the Activity of Co ₃ O ₄ /NRGO Nanocomposites toward ORR and OER. Journal of Physical Chemistry C, 2016, 120, 7949-7958.	3.1	137
6	Structural and electrochemical studies of Au-Pt nanoalloys. Physical Chemistry Chemical Physics, 2009, 11, 3573.	2.8	101
7	Electrochemically induced surface modifications of mesoporous spinels (Co ₃ O ₄ , MnCo ₂ O ₄) Chemistry A, 2015, 3, 17433-17444.	10.3	85
8	Spectroelectrochemical Probing of the Strong Interaction between Platinum Nanoparticles and Graphitic Domains of Carbon. ACS Catalysis, 2013, 3, 1940-1950.	11.2	78
9	Concentric glucose/O ₂ biofuel cell. Journal of Electroanalytical Chemistry, 2008, 622, 97-102.	3.8	73
10	Hydration of Ti ₃ C ₂ T _x MXene: An Interstratification Process with Major Implications on Physical Properties. Chemistry of Materials, 2019, 31, 454-461.	6.7	70
11	MXene Supported Cobalt Layered Double Hydroxide Nanocrystals: Facile Synthesis Route for a Synergistic Oxygen Evolution Reaction Electrocatalyst. Advanced Materials Interfaces, 2019, 6, 1901328.	3.7	66
12	Enhancement of the performances of a single concentric glucose/O ₂ biofuel cell by combination of bilirubin oxidase/Nafion cathode and Au-Pt anode. Electrochemistry Communications, 2009, 11, 111-113.	4.7	55
13	Three dimensionally ordered mesoporous hydroxylated Ni _x Co _{3-x} O ₄ spinels for the oxygen evolution reaction: on the hydroxyl-induced surface restructuring effect. Journal of Materials Chemistry A, 2017, 5, 7173-7183.	10.3	52
14	Functionalizing Effect of Increasingly Graphitic Carbon Supports on Carbon-Supported and TiO ₂ -Carbon Composite-Supported Pt Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 21788-21794.	3.1	49
15	Yttrium Oxide/Gadolinium Oxide-Modified Platinum Nanoparticles as Cathodes for the Oxygen Reduction Reaction. ChemPhysChem, 2014, 15, 2136-2144.	2.1	49
16	Electrochemical characterization of adsorbed bilirubin oxidase on Vulcan XC 72R for the biocathode preparation in a glucose/O ₂ biofuel cell. Electrochimica Acta, 2010, 55, 7701-7705.	5.2	41
17	Long-term activity of covalent grafted biocatalysts during intermittent use of a glucose/O ₂ biofuel cell. Electrochimica Acta, 2009, 54, 2998-3003.	5.2	36
18	Cu-ZnO catalysts for CO ₂ hydrogenation to methanol: Morphology change induced by ZnO lixiviation and its impact on the active phase formation. Molecular Catalysis, 2018, 446, 98-105.	2.0	34

#	ARTICLE	IF	CITATIONS
19	Effect of gradual reduction of graphene oxide on the CO tolerance of supported platinum nanoparticles. Carbon, 2017, 111, 849-858.	10.3	31
20	The Effect of Substrates at Cathodes in Low-temperature Fuel Cells. ChemElectroChem, 2014, 1, 37-46.	3.4	29
21	Thermally Induced Strains on the Catalytic Activity and Stability of Pt ₂ O ₃ /C (M=Y or Gd) Catalysts towards Oxygen Reduction Reaction. ChemCatChem, 2015, 7, 1573-1582.	3.7	27
22	On a Two-Dimensional MoS ₂ /Mo ₂ CT _x Hydrogen Evolution Catalyst Obtained by the Topotactic Sulfurization of Mo ₂ CT _x MXene. Journal of the Electrochemical Society, 2020, 167, 124507.	2.9	26
23	Fabrication and evaluation of a passive alkaline membrane micro direct methanol fuel cell. International Journal of Hydrogen Energy, 2014, 39, 5406-5413.	7.1	25
24	Induced electronic modification of Pt nanoparticles deposited onto graphitic domains of carbon materials by UV irradiation. Electrochemistry Communications, 2013, 29, 12-16.	4.7	24
25	Electrocatalytic Activity of Supported Au-Pt Nanoparticles for CO Oxidation and O ₂ Reduction in Alkaline Medium. Electrocatalysis, 2010, 1, 51-59.	3.0	23
26	Enhanced HER and ORR behavior on photodeposited Pt nanoparticles onto oxide-carbon composite. Journal of Solid State Electrochemistry, 2013, 17, 1913-1921.	2.5	21
27	Metal Loading Effect on the Activity of Co ₃ O ₄ /N-Doped Reduced Graphene Oxide Nanocomposites as Bifunctional Oxygen Reduction/Evolution Catalysts. ChemElectroChem, 2018, 5, 483-493.	3.4	20
28	Kinetic Study of Oxygen Reduction Reaction on Carbon Supported Pd-Based Nanomaterials in Alkaline Medium. Journal of the Electrochemical Society, 2013, 160, H302-H308.	2.9	19
29	Co ₃ O ₄ /rGO Catalysts for Oxygen Electrocatalysis: On the Role of the Oxide/Carbon Interaction. Journal of the Electrochemical Society, 2019, 166, H94-H102.	2.9	18
30	Nuclear microanalysis of lithium dispersion in LiFePO ₄ based cathode materials for Li-ion batteries. Nuclear Instruments & Methods in Physics Research B, 2012, 290, 13-18.	1.4	17
31	Correlation between surface chemical composition with catalytic activity and selectivity of organic-solvent synthesized Pt-Ti nanoparticles. Journal of Materials Chemistry A, 2013, 1, 8798.	10.3	16
32	Electronic modification of Pt via Ti and Se as tolerant cathodes in air-breathing methanol microfluidic fuel cells. Physical Chemistry Chemical Physics, 2014, 16, 13820.	2.8	16
33	One-Step Synthesis of Clean and Size-Controlled Gold Electrocatalysts: Modeling by Taguchi Design of Experiments. Electrocatalysis, 2011, 2, 279-284.	3.0	13
34	Tailoring nanostructured catalysts for electrochemical energy conversion systems. Nanotechnology Reviews, 2012, 1, 427-453.	5.8	13
35	Photohole Trapping Induced Platinum Cluster Nucleation on the Surface of TiO ₂ Nanoparticles. Journal of Physical Chemistry C, 2014, 118, 1111-1117.	3.1	13
36	Oxygen Electroreduction Catalyzed by Bilirubin Oxidase Does Not Release Hydrogen Peroxide. Electrocatalysis, 2011, 2, 268-272.	3.0	9

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37	Electronic Structure Sensitivity to Surface Disorder and Nanometer-Scale Impurity of 2D Titanium Carbide MXene Sheets as Revealed by Electron Energy-Loss Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 27071-27081.	3.1	9
38	Recent trends in hydrogen and oxygen electrocatalysis for anion exchange membrane technologies. Current Opinion in Electrochemistry, 2020, 21, 146-159.	4.8	9
39	Activity of sputtered gold particles layers towards glucose electrochemical oxidation in alkaline medium. Current Applied Physics, 2011, 11, 1149-1152.	2.4	8
40	Effect of the Cleaning Step on the Morphology of Gold Nanoparticles. Electrocatalysis, 2011, 2, 24-27.	3.0	7
41	Towards Understanding the Essential Role Played by the Platinum-Support Interaction on Electrocatalytic Activity. ECS Transactions, 2013, 45, 25-33.	0.5	5
42	Mixed-oxide $Ti_{1-x}W_xO_2$ as support for (photo)-electrochemical processes. Applied Catalysis B: Environmental, 2014, 147, 756-763.	20.2	5
43	Preparation and Electrochemical Properties of $NiCo_2O_4$ Nanospinel Supported on Graphene Derivatives as Earth-Abundant Oxygen Bifunctional Catalysts. ChemPhysChem, 2018, 19, 319-326.	2.1	5
44	Complementary Ion Beam Analysis and Raman Studies for Investigation of the Carbon Coating Impact on Li Insertion/Deinsertion Process at $LiFePO_4/C$ Electrodes. Journal of the Electrochemical Society, 2017, 164, A3538-A3544.	2.9	4
45	Glucose Oxidation on Au-Pt Nanoparticles in a Membrane-Less Biofuel Cell. ECS Transactions, 2007, 6, 9-17.	0.5	3
46	Co-Based Mesoporous Spinels for Oxygen Evolution Reaction in Alkaline Medium. ECS Transactions, 2017, 77, 15-24.	0.5	2
47	Plasmon spectroscopy for the determination of $Ti_3C_2T_x$ MXene few layer stacks architecture. 2D Materials, 2022, 9, 035017.	4.4	2
48	Decorated nanotube buckypaper as electrocatalyst for glucose fuel cells. , 2009, , .		1
49	Facile Synthesis of Mesoporous Co_3O_4/CoO on rGO Nanocomposites as Highly Active and Stable Oxygen Bi-Functional Electrocatalysts. Journal of the Electrochemical Society, 2020, 167, 134509.	2.9	0