AurÃ©lien Habrioux

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4674829/publications.pdf

Version: 2024-02-01

49 papers	2,009 citations	279798 23 h-index	243625 44 g-index
50 all docs	50 docs citations	50 times ranked	2755 citing authors

#	Article	IF	Citations
1	Plasmon spectroscopy for the determination of Ti₃C₂T_x MXene few layer stacks architecture. 2D Materials, 2022, 9, 035017.	4.4	2
2	A critical analysis of the X-ray photoelectron spectra of Ti3C2Tz MXenes. Matter, 2021, 4, 1224-1251.	10.0	180
3	One MAX phase, different MXenes: A guideline to understand the crucial role of etching conditions on Ti3C2Tx surface chemistry. Applied Surface Science, 2020, 530, 147209.	6.1	172
4	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
5	Recent trends in hydrogen and oxygen electrocatalysis for anion exchange membrane technologies. Current Opinion in Electrochemistry, 2020, 21, 146-159.	4.8	9
6	On a Two-Dimensional MoS₂/Mo₂CT_x Hydrogen Evolution Catalyst Obtained by the Topotactic Sulfurization of Mo₂CT_x MXene. Journal of the Electrochemical Society, 2020, 167, 124507.	2.9	26
7	Facile Synthesis of Mesoporous Co3O4/CoO on rGO Nanocomposites as Highly Active and Stable Oxygen Bi-Functional Electrocatalysts. Journal of the Electrochemical Society, 2020, 167, 134509.	2.9	0
8	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
9	Co₃O₄/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
10	Hydration of Ti₃C₂T<i>_x</i> MXene: An Interstratification Process with Major Implications on Physical Properties. Chemistry of Materials, 2019, 31, 454-461.	6.7	70
11	Cu-ZnO catalysts for CO2 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
12	Preparation and Electrochemical Properties of NiCo₂O₄ Nanospinels Supported on Graphene Derivatives as Earthâ€Abundant Oxygen Bifunctional Catalysts. ChemPhysChem, 2018, 19, 319-326.	2.1	5
13	Metal Loading Effect on the Activity of Co₃O₄/Nâ€Doped Reduced Graphene Oxide Nanocomposites as Bifunctional Oxygen Reduction/Evolution Catalysts. ChemElectroChem, 2018, 5, 483-493.	3.4	20
14	Co-Based Mesoporous Spinels for Oxygen Evolution Reaction in Alkaline Medium. ECS Transactions, 2017, 77, 15-24.	0.5	2
15	Three dimensionally ordered mesoporous hydroxylated Ni_xCo_{3â^'x}O₄ 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
16	Complementary Ion Beam Analysis and Raman Studies for Investigation of the Carbon Coating Impact on Li Insertion/Deinsertion Process at LiFePO₄/C Electrodes. Journal of the Electrochemical Society, 2017, 164, A3538-A3544.	2.9	4
17	Effect of gradual reduction of graphene oxide on the CO tolerance of supported platinum nanoparticles. Carbon, 2017, 111, 849-858.	10.3	31
18	Effect of the Oxideâ€"Carbon Heterointerface on the Activity of Co₃O₄/NRGO Nanocomposites toward ORR and OER. Journal of Physical Chemistry C, 2016, 120, 7949-7958.	3.1	137

#	Article	IF	Citations
19	Electrochemically induced surface modifications of mesoporous spinels (Co3O4â^'Î´, MnCo2O4â^'Î´,) Tj ETQq1 1 0.784314 rgBT /Overlo Chemistry A, 2015, 3, 17433-17444.	10.3	85
20	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
21	Thermally Induced Strains on the Catalytic Activity and Stability of Ptâ€"M₂O₃/C (M=Y or Gd) Catalysts towards Oxygen Reduction Reaction. ChemCatChem, 2015, 7, 1573-1582.	3.7	27
22	The Effect of Substrates at Cathodes in Lowâ€temperature Fuel Cells. ChemElectroChem, 2014, 1, 37-46.	3.4	29
23	Mixed-oxide Ti1â^'xWxO2 as support for (photo)-electrochemical processes. Applied Catalysis B: Environmental, 2014, 147, 756-763.	20.2	5
24	Yttrium Oxide/Gadolinium Oxideâ€Modified Platinum Nanoparticles as Cathodes for the Oxygen Reduction Reaction. ChemPhysChem, 2014, 15, 2136-2144.	2.1	49
25	Photohole Trapping Induced Platinum Cluster Nucleation on the Surface of TiO₂ Nanoparticles. Journal of Physical Chemistry C, 2014, 118, 1111-1117.	3.1	13
26	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
27	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
28	Correlation between surface chemical composition with catalytic activity and selectivity of organic-solvent synthesized Ptâ€"Ti nanoparticles. Journal of Materials Chemistry A, 2013, 1, 8798.	10.3	16
29	Enhanced HER and ORR behavior on photodeposited Pt nanoparticles onto oxideâ€"carbon composite. Journal of Solid State Electrochemistry, 2013, 17, 1913-1921.	2.5	21
30	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
31	Spectroelectrochemical Probing of the Strong Interaction between Platinum Nanoparticles and Graphitic Domains of Carbon. ACS Catalysis, 2013, 3, 1940-1950.	11.2	78
32	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
33	Towards Understanding the Essential Role Played by the Platinum-Support Interaction on Electrocatalytic Activity. ECS Transactions, 2013, 45, 25-33.	0.5	5
34	Tailoring nanostructured catalysts for electrochemical energy conversion systems. Nanotechnology Reviews, 2012, 1, 427-453.	5.8	13
35	Functionalizing Effect of Increasingly Graphitic Carbon Supports on Carbon-Supported and TiO₂â€"Carbon Composite-Supported Pt Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 21788-21794.	3.1	49
36	Nuclear microanalysis of lithium dispersion in LiFePO4 based cathode materials for Li-ion batteries. Nuclear Instruments & Methods in Physics Research B, 2012, 290, 13-18.	1.4	17

#	Article	IF	Citations
37	Activity of sputtered gold particles layers towards glucose electrochemical oxidation in alkaline medium. Current Applied Physics, 2011, 11, 1149-1152.	2.4	8
38	Effect of the Cleaning Step on the Morphology of Gold Nanoparticles. Electrocatalysis, 2011, 2, 24-27.	3.0	7
39	Oxygen Electroreduction Catalyzed by Bilirubin Oxidase Does Not Release Hydrogen Peroxide. Electrocatalysis, 2011, 2, 268-272.	3.0	9
40	One-Step Synthesis of Clean and Size-Controlled Gold Electrocatalysts: Modeling by Taguchi Design of Experiments. Electrocatalysis, 2011, 2, 279-284.	3.0	13
41	Electrochemical characterization of adsorbed bilirubin oxidase on Vulcan XC 72R for the biocathode preparation in a glucose/O2 biofuel cell. Electrochimica Acta, 2010, 55, 7701-7705.	5.2	41
42	Electrocatalytic Activity of Supported Auâ€"Pt Nanoparticles for CO Oxidation and O2 Reduction in Alkaline Medium. Electrocatalysis, 2010, 1, 51-59.	3.0	23
43	Decorated nanotube buckypaper as electrocatalyst for glucose fuel cells. , 2009, , .		1
44	Long-term activity of covalent grafted biocatalysts during intermittent use of a glucose/O2 biofuel cell. Electrochimica Acta, 2009, 54, 2998-3003.	5.2	36
45	Enhancement of the performances of a single concentric glucose/O2 biofuel cell by combination of bilirubin oxidase/Nafion cathode and Auâ€"Pt anode. Electrochemistry Communications, 2009, 11, 111-113.	4.7	55
46	Structural and electrochemical studies of Auâ€"Pt nanoalloys. Physical Chemistry Chemical Physics, 2009, 11, 3573.	2.8	101
47	Concentric glucose/O2 biofuel cell. Journal of Electroanalytical Chemistry, 2008, 622, 97-102.	3.8	73
48	Activity of Platinumâ^'Gold Alloys for Glucose Electrooxidation in Biofuel Cells. Journal of Physical Chemistry B, 2007, 111, 10329-10333.	2.6	168
49	Glucose Oxidation on Au-Pt Nanoparticles in a Membrane-Less Biofuel Cell. ECS Transactions, 2007, 6, 9-17.	0.5	3