

Cinthia Alegre

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,292
citations

257101

24
h-index

360668

35
g-index

46
all docs

46
docs citations

46
times ranked

1634
citing authors

#	ARTICLE	IF	CITATIONS
1	A combination of CoO and Co nanoparticles supported on electrospun carbon nanofibers as highly stable air electrodes. <i>Journal of Power Sources</i> , 2017, 364, 101-109.	4.0	60
2	Pt and PtRu electrocatalysts supported on carbon xerogels for direct methanol fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 4226-4235.	4.0	59
3	TiO ₂ as textural promoter on high loaded Ni catalysts for methane decomposition. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 3320-3329.	3.8	58
4	Corrosion behavior of tantalum coatings on AISI 316L stainless steel substrate for bipolar plates of PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 20679-20691.	3.8	53
5	Towards an optimal synthesis route for the preparation of highly mesoporous carbon xerogel-supported Pt catalysts for the oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 947-957.	10.8	48
6	Sulfurized carbon xerogels as Pt support with enhanced activity for fuel cell applications. <i>Applied Catalysis B: Environmental</i> , 2016, 192, 260-267.	10.8	46
7	Electrospun carbon nanofibers loaded with spinel-type cobalt oxide as bifunctional catalysts for enhanced oxygen electrocatalysis. <i>Journal of Energy Storage</i> , 2019, 23, 269-277.	3.9	46
8	Influence of support's oxygen functionalization on the activity of Pt/carbon xerogels catalysts for methanol electro-oxidation. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 7180-7191.	3.8	44
9	Carbon-based catalysts: Synthesis and applications. <i>Comptes Rendus Chimie</i> , 2015, 18, 1229-1241.	0.2	44
10	Oxygen-Functionalized Highly Mesoporous Carbon Xerogel Based Catalysts for Direct Methanol Fuel Cell Anodes. <i>Journal of Physical Chemistry C</i> , 2013, 117, 13045-13058.	1.5	43
11	A Rechargeable, Aqueous Iron Air Battery with Nanostructured Electrodes Capable of High Energy Density Operation. <i>Journal of the Electrochemical Society</i> , 2017, 164, A1148-A1157.	1.3	43
12	A nanostructured bifunctional Pd/C gas-diffusion electrode for metal-air batteries. <i>Electrochimica Acta</i> , 2015, 174, 508-515.	2.6	41
13	Carbon-supported Pd and Pd-Co cathode catalysts for direct methanol fuel cells (DMFCs) operating with high methanol concentration. <i>Journal of Electroanalytical Chemistry</i> , 2018, 808, 464-473.	1.9	40
14	Investigation of the activity and stability of Pd-based catalysts towards the oxygen reduction (ORR) and evolution reactions (OER) in iron-air batteries. <i>RSC Advances</i> , 2015, 5, 25424-25427.	1.7	39
15	Carbon supports for the catalytic dehydrogenation of liquid organic hydrides as hydrogen storage and delivery system. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4109-4115.	3.8	37
16	Bifunctional oxygen electrode based on a perovskite/carbon composite for electrochemical devices. <i>Journal of Electroanalytical Chemistry</i> , 2018, 808, 412-419.	1.9	37
17	NiCo-loaded carbon nanofibers obtained by electrospinning: Bifunctional behavior as air electrodes. <i>Renewable Energy</i> , 2018, 125, 250-259.	4.3	36
18	Tailoring Synthesis Conditions of Carbon Xerogels towards Their Utilization as Pt-Catalyst Supports for Oxygen Reduction Reaction (ORR). <i>Catalysts</i> , 2012, 2, 466-489.	1.6	33

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19	Towards new generation fuel cell electrocatalysts based on xerogelâ€“nanofiber carbon composites. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13713.	5.2	33
20	N-Doped Carbon Xerogels as Pt Support for the Electro-Reduction of Oxygen. <i>Materials</i> , 2017, 10, 1092.	1.3	31
21	Investigation of Supported Pd-Based Electrocatalysts for the Oxygen Reduction Reaction: Performance, Durability and Methanol Tolerance. <i>Materials</i> , 2015, 8, 7997-8008.	1.3	30
22	Assessment of the durability of low-cost Al bipolar plates for High Temperature PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 12748-12759.	3.8	29
23	Influence of the Synthesis Method for Pt Catalysts Supported on Highly Mesoporous Carbon Xerogel and Vulcan Carbon Black on the Electro-Oxidation of Methanol. <i>Catalysts</i> , 2015, 5, 392-405.	1.6	27
24	Electrocatalysis of Oxygen on Bifunctional Nickelâ€“Cobaltite Spinel. <i>ChemElectroChem</i> , 2020, 7, 124-130.	1.7	27
25	A high-performance, bifunctional oxygen electrode catalysed with palladium and nickel-iron hexacyanoferrate. <i>Electrochimica Acta</i> , 2016, 206, 127-133.	2.6	25
26	Towardâ€“more efficient and stable bifunctional electrocatalysts for oxygen electrodes using FeCo ₂ O ₄ /carbon nanofiber prepared by electrospinning. <i>Materials Today Energy</i> , 2020, 18, 100508.	2.5	25
27	Single cell induced starvation in a high temperature proton exchange membrane fuel cell stack. <i>Applied Energy</i> , 2019, 250, 1176-1189.	5.1	24
28	Pd supported on Ti-suboxides as bifunctional catalyst for air electrodes of metal-air batteries. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 19579-19586.	3.8	23
29	Biomass waste-derived nitrogen and iron co-doped nanoporous carbons as electrocatalysts for the oxygen reduction reaction. <i>Electrochimica Acta</i> , 2021, 387, 138490.	2.6	23
30	Carbon xerogels electrochemical oxidation and correlation with their physico-chemical properties. <i>Carbon</i> , 2019, 144, 382-394.	5.4	21
31	Platinum Ruthenium Catalysts Supported on Carbon Xerogel for Methanol Electroâ€“Oxidation: Influence of the Catalyst Synthesis Method. <i>ChemCatChem</i> , 2013, 5, 3770-3780.	1.8	20
32	Carbon Nanofibers as Advanced Pd Catalyst Supports for the Air Electrode of Alkaline Metalâ€“Air Batteries. <i>ChemPlusChem</i> , 2015, 80, 1384-1388.	1.3	20
33	Evaluation of the corrosion resistance of Ni(P)Cr coatings for bipolar plates by electrochemical impedance spectroscopy. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 20632-20646.	3.8	20
34	Nanostructured Carbon Materials as Supports in the Preparation of Direct Methanol Fuel Cell Electrocatalysts. <i>Catalysts</i> , 2013, 3, 671-682.	1.6	15
35	Tailoring carbon xerogels' properties to enhance catalytic activity of Pt catalysts towards methanol oxidation. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14736-14745.	3.8	15
36	Improving the stability and discharge capacity of nanostructured Fe ₂ O ₃ /C anodes for iron-air batteries and investigation of 1-octanethiol as an electrolyte additive. <i>Electrochimica Acta</i> , 2019, 318, 625-634.	2.6	14

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37	Enhanced durability of a cost-effective perovskite-carbon catalyst for the oxygen evolution and reduction reactions in alkaline environment. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 28063-28069.	3.8	12
38	PtRu Nanoparticles Deposited by the Sulfite Complex Method on Highly Porous Carbon Xerogels: Effect of the Thermal Treatment. <i>Catalysts</i> , 2013, 3, 744-756.	1.6	11
39	Titanium-tantalum oxide as a support for Pd nanoparticles for the oxygen reduction reaction in alkaline electrolytes. <i>Materials for Renewable and Sustainable Energy</i> , 2018, 7, 1.	1.5	11
40	A Comparison of Pd/C, Perovskite, and Ni-Fe Hexacyanoferrate Bifunctional Oxygen Catalysts, at Different Loadings and Catalyst Layer Thicknesses on an Oxygen Gas Diffusion Electrode. <i>Journal of the Electrochemical Society</i> , 2018, 165, A1254-A1262.	1.3	9
41	Influence of Nitrogen and Sulfur Doping of Carbon Xerogels on the Performance and Stability of Counter Electrodes in Dye Sensitized Solar Cells. <i>Catalysts</i> , 2022, 12, 264.	1.6	8
42	Effect of 1-octanethiol as an electrolyte additive on the performance of the iron-air battery electrodes. <i>Journal of Solid State Electrochemistry</i> , 2021, 25, 225-230.	1.2	5
43	Nitrogen Doped and Functionalized Carbon Materials as Supports for Catalysts in Electro-Oxidation of Methanol. <i>Advances in Science and Technology</i> , 0, , .	0.2	3
44	Emerging carbon nanostructures in electrochemical processes. , 2021, , 353-388.		3
45	Influence of Synthesis pH on Textural Properties of Carbon Xerogels as Supports for Pt/CXs Catalysts for Direct Methanol Fuel Cells. <i>International Journal of Electrochemistry</i> , 2012, 2012, 1-9.	2.4	1