

Noe Arjona

List of Publications by Year in descending order

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70
papers

1,298
citations

331538

21
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434063

31
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71
all docs

71
docs citations

71
times ranked

1312
citing authors

#	ARTICLE	IF	CITATIONS
1	Hierarchical Pd and Pt structures obtained on 3D carbon electrodes as electrocatalysts for the ethylene glycol electro-oxidation. <i>Applied Surface Science</i> , 2022, 571, 151246.	3.1	9
2	Electrocatalytic oxidation of sorbitol on Pd _x Au _y /C bimetallic nanocatalysts. <i>Fuel</i> , 2022, 314, 122788.	3.4	5
3	Manganese Oxides (Mn ₃ O ₄ & MnO ₂) as Co-catalysts in Pd-Based Nanomaterials for the Ethylene Glycol Electro-Oxidation. <i>ChemElectroChem</i> , 2022, 9, .	1.7	2
4	Zinc-Air Battery Operated with Modified Zinc Electrodes/Gel Polymer Electrolytes. <i>ChemElectroChem</i> , 2022, 9, .	1.7	5
5	Defected NiFe layered double hydroxides on N-doped carbon nanotubes as efficient bifunctional electrocatalyst for rechargeable zinc-air batteries. <i>Applied Surface Science</i> , 2022, 601, 154253.	3.1	17
6	Formation of Cu@Pd core-shell nanocatalysts with high activity for ethanol electro-oxidation in alkaline medium. <i>Applied Surface Science</i> , 2021, 538, 148119.	3.1	11
7	Electrocatalytic oxidation of crude glycerol from the biodiesel production on Pd-M (M=Ir, Ru or Pt) sub-10 nm nanomaterials. <i>Applied Surface Science</i> , 2021, 545, 149055.	3.1	15
8	Crystallographic Pattern Mediates Fungal Nanoadhesion Bond Formation on Titanium Nanotubes. <i>ACS Omega</i> , 2021, 6, 15625-15636.	1.6	6
9	Zn-air battery operated with a 3DOM trimetallic spinel (Mn _{0.5} Ni _{0.5} Co ₂ O ₄) as the oxygen electrode. <i>Electrochimica Acta</i> , 2021, 391, 138900.	2.6	26
10	Electrochemical valorization of crude glycerol in alkaline medium for energy conversion using Pd, Au and PdAu nanomaterials. <i>Fuel</i> , 2020, 262, 116556.	3.4	29
11	Synthesis of a small-size metal oxide mixture based on MoO and NiO with oxygen vacancies as bifunctional electrocatalyst for oxygen reactions. <i>Applied Surface Science</i> , 2020, 509, 144898.	3.1	28
12	Highly active PdNi bimetallic nanocubes electrocatalysts for the ethylene glycol electro-oxidation in alkaline medium. <i>Applied Surface Science</i> , 2020, 530, 147210.	3.1	20
13	Three-Dimensional-Order Macroporous AB ₂ O ₄ Spinels (A, B =Co and Mn) as Electrodes in Zn-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53760-53773.	4.0	52
14	A Flow-Through Membraneless Microfluidic Zinc-Air Cell. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41185-41199.	4.0	9
15	Effect of AuM (M: Ag, Pt & Pd) bimetallic nanoparticles on the sorbitol electro-oxidation in alkaline medium. <i>Fuel</i> , 2020, 274, 117864.	3.4	18
16	Sorbitol electro-oxidation reaction on sub-10 nm PtAu bimetallic nanoparticles. <i>Electrochimica Acta</i> , 2020, 353, 136593.	2.6	8
17	Synthesis and application of biogenic gold nanomaterials with {100} facets for crude glycerol electro-oxidation. <i>Fuel</i> , 2020, 279, 118505.	3.4	15
18	Ethanol electro-oxidation and spectroelectrochemical analysis of highly active sub-10 nm PdFe ₂ O ₃ , PdPt and PdAu bimetallic nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 9758-9772.	3.8	11

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19	An advanced three-dimensionally ordered macroporous NiCo ₂ O ₄ spinel as a bifunctional electrocatalyst for rechargeable Zn-air batteries. Journal of Materials Chemistry A, 2020, 8, 8554-8565.	5.2	50
20	Electrocatalytic Promotion of Pt Nanoparticles by Incorporation of Ni(OH) ₂ for Glycerol Electro-Oxidation: Analysis of Activity and Reaction Pathway. ChemNanoMat, 2019, 5, 68-78.	1.5	19
21	High performance of Pd and PdAg with well-defined facets in direct ethylene glycol microfluidic fuel cells. Electrochimica Acta, 2019, 320, 134622.	2.6	25
22	Electrocatalytic evaluation of Co ₃ O ₄ and NiCo ₂ O ₄ rosettes-like hierarchical spinel as bifunctional materials for oxygen evolution (OER) and reduction (ORR) reactions in alkaline media. Journal of Electroanalytical Chemistry, 2019, 847, 113190.	1.9	85
23	Effect of molybdenum content on the morphology and electronic characteristics of Pd-MoO nanomaterials and activity evaluation for ethylene glycol electro-oxidation. Applied Surface Science, 2019, 498, 143842.	3.1	22
24	Synthesis of PtAg bimetallic material as a multi-fuel tolerant electrocatalyst and spectroelectrochemical analysis of its capability to perform the oxygen reduction. Materials Today Energy, 2019, 14, 100335.	2.5	4
25	Synthesis of Pd Fe ₃ O ₄ nanoparticles varying the stabilizing agent and additive and their effect on the ethanol electro-oxidation in alkaline media. Journal of Electroanalytical Chemistry, 2019, 835, 301-312.	1.9	10
26	Nanocomposite membrane based on SPEEK as a perspectives application in electrochemical hydrogen compressor. International Journal of Hydrogen Energy, 2019, 44, 4839-4850.	3.8	20
27	Electrocatalytic Evaluation of Highly Stable Pt/ZrO ₂ Electrocatalysts for the Methanol Oxidation Reaction Synthesized Without the Assistance of Any Carbon Support. ChemElectroChem, 2019, 6, 2107-2118.	1.7	17
28	Gold nanoparticles bioreduced by natural extracts of arantho (<i>Kalanchoe daigremontiana</i>) for biological purposes: physicochemical, antioxidant and antiproliferative evaluations. Materials Research Express, 2019, 6, 055010.	0.8	12
29	Electrocatalytic evaluation of sorbitol oxidation as a promising fuel in energy conversion using Au/C, Pd/C and Au-Pd/C synthesized through ionic liquids. Fuel, 2019, 250, 103-116.	3.4	17
30	CuAg electrode for creatinine microfluidic fuel cell based self-powered electrochemical sensor.., 2019, , .		1
31	Synthesis and evaluation of HfO ₂ as a prospective filler in inorganic-organic hybrid membranes based on Nafion for PEM fuel cells. Nanotechnology, 2019, 30, 105707.	1.3	9
32	DNA probe functionalization on different morphologies of ZnO/Au nanowire for bio-sensing applications. Materials Letters, 2019, 235, 250-253.	1.3	18
33	Ethanol Electro-Oxidation in Aqueous and Poly(acrylic acid)-Based Gel Alkaline Electrolytes, Varying the Pd _x Ag _y Composition by using Differential Pulse Amperometry. ChemElectroChem, 2018, 5, 1159-1166.	1.7	3
34	Production, characterization and evaluation of the energetic capability of bioethanol from Salicornia Bigelovii as a renewable energy source. Renewable Energy, 2018, 123, 125-134.	4.3	51
35	Evaluation of hybrid and enzymatic nanofluidic fuel cells using 3D carbon structures. International Journal of Hydrogen Energy, 2018, 43, 11847-11852.	3.8	16
36	Pd/carbon paper electrodes modified with polyaniline as co-support for sustainable energy conversion of bioethanol from Salicornia bigelovii. Materials Today Energy, 2018, 10, 169-183.	2.5	3

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37	Urease enzyme as anodic catalyst in a microfluidic fuel cell. <i>Journal of Physics: Conference Series</i> , 2018, 1052, 012057.	0.3	0
38	NiAl Layered Double Hydroxides and PdNiO as Multifunctional Anodes for Prospective Self-Powered Lab-on-a-Chip Dopamine Sensors. <i>ChemNanoMat</i> , 2018, 4, 688-697.	1.5	9
39	Synthesis of a Small Amorphous PdMo/C Nanocatalyst and Pd Nanocubes Enclosed within (100) Planes and Their Use for Ethylene Glycol Electro-oxidation. <i>ChemElectroChem</i> , 2017, 4, 728-737.	1.7	14
40	Glycerol electro-oxidation in alkaline media using Pt and Pd catalysts electrodeposited on three-dimensional porous carbon electrodes. <i>New Journal of Chemistry</i> , 2017, 41, 1854-1863.	1.4	46
41	Evaluation of single and stack membraneless enzymatic fuel cells based on ethanol in simulated body fluids. <i>Biosensors and Bioelectronics</i> , 2017, 92, 117-124.	5.3	31
42	Ordered Mesoporous Carbon Decorated with Magnetite for the Detection of Heavy Metals by Square Wave Anodic Stripping Voltammetry. <i>Journal of the Electrochemical Society</i> , 2017, 164, B304-B313.	1.3	14
43	Effect of betaine in the successful synthesis of CoFe ₂ O ₄ containing octahedron nanoparticles for electrocatalytic water oxidation. <i>Applied Surface Science</i> , 2017, 426, 980-986.	3.1	7
44	In Situ Surface-Enhanced Raman Spectroscopy Study of the Electrocatalytic Effect of PtFe/C Nanocatalyst on Ethanol Electro-Oxidation in Alkaline Medium. <i>Energies</i> , 2017, 10, 290.	1.6	10
45	High performance of ethanol co-laminar flow fuel cells based on acrylic, paper and Pd-NiO as anodic catalyst. <i>Electrochimica Acta</i> , 2016, 207, 164-176.	2.6	30
46	Direct Ethanol Membraneless Nanofluidic Fuel Cell With High Performance. <i>ChemistrySelect</i> , 2016, 1, 3054-3062.	0.7	12
47	A compact and bendable, hook-and-loop tape-based membraneless device for energy conversion. <i>Journal of Micromechanics and Microengineering</i> , 2016, 26, 124011.	1.5	4
48	Stack air-breathing membraneless glucose microfluidic biofuel cell. <i>Journal of Physics: Conference Series</i> , 2016, 773, 012114.	0.3	3
49	Electrooxidation of crude glycerol as waste from biodiesel in a nanofluidic fuel cell using Cu@Pd/C and Cu@Pt/C. <i>Fuel</i> , 2016, 183, 195-205.	3.4	44
50	An electrokinetic-combined electrochemical study of the glucose electro-oxidation reaction: effect of gold surface energy. <i>RSC Advances</i> , 2016, 6, 15630-15638.	1.7	39
51	Effect of pH in a Pd-based ethanol membraneless air breathing nanofluidic fuel cell with flow-through electrodes. <i>Journal of Physics: Conference Series</i> , 2015, 660, 012056.	0.3	2
52	Evaluation of alcohol dehydrogenase and aldehyde dehydrogenase enzymes as bi-enzymatic anodes in a membraneless ethanol microfluidic fuel cell. <i>Journal of Physics: Conference Series</i> , 2015, 660, 012131.	0.3	5
53	Copper-palladium core-shell as an anode in a multi-fuel membraneless nanofluidic fuel cell: toward a new era of small energy conversion devices. <i>Chemical Communications</i> , 2015, 51, 2536-2539.	2.2	48
54	Direct Formic Acid Microfluidic Fuel Cell with Pd Nanocubes Supported on Flow-Through Microporous Electrodes. <i>ECS Electrochemistry Letters</i> , 2015, 4, F24-F28.	1.9	17

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55	A new type of high performance air-breathing glucose membraneless microfluidic fuel cell. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14699-14705.	3.8	13
56	Support Effect in the Electrocatalytic Activity of Cu@Pd Core-Shell toward Electrooxidation of Short Chain Alcohols in Alkaline Media. <i>Journal of the Electrochemical Society</i> , 2015, 162, F1439-F1444.	1.3	10
57	Non-Conventional Electrochemical Techniques for Assembly of Electrodes on Glassy Carbon-Like PPF Materials and Their Use in a Glucose Microfluidic Fuel Cell. <i>Fuel Cells</i> , 2014, 14, 810-817.	1.5	8
58	Synthesis of Pd-Cu Bimetallic Electrocatalyst for Ethylene Glycol and Glycerol Oxidations in Alkaline Media. <i>Procedia Chemistry</i> , 2014, 12, 19-26.	0.7	19
59	Pd Nanostructures with High Tolerance to CO Poisoning in the Formic Acid Electrooxidation Reaction. <i>Procedia Chemistry</i> , 2014, 12, 9-18.	0.7	8
60	Effect of metal content on the electrocatalytic activity of AuPd mixtures and their use in a glucose membraneless microfluidic fuel cell. <i>RSC Advances</i> , 2014, 4, 26158-26165.	1.7	11
61	A nanofluidic direct formic acid fuel cell with a combined flow-through and air-breathing electrode for high performance. <i>Lab on A Chip</i> , 2014, 14, 4596-4598.	3.1	61
62	AuPd/polyaniline as the anode in an ethylene glycol microfluidic fuel cell operated at room temperature. <i>Chemical Communications</i> , 2014, 50, 8151-8153.	2.2	35
63	Hybrid microfluidic fuel cell based on Laccase/C and AuAg/C electrodes. <i>Biosensors and Bioelectronics</i> , 2014, 62, 221-226.	5.3	27
64	Staircase and pulse potential electrochemical techniques for the facile and rapid synthesis of Pt and PtAg materials. <i>Electrochimica Acta</i> , 2014, 115, 46-55.	2.6	8
65	Electrochemical synthesis of flower-like Pd nanoparticles with high tolerance toward formic acid electrooxidation. <i>RSC Advances</i> , 2013, 3, 15727.	1.7	21
66	Electrocatalytic activity of well-defined and homogeneous cubic-shaped Pd nanoparticles. <i>Journal of Materials Chemistry A</i> , 2013, 1, 15524.	5.2	39
67	Laccase/AuAg Hybrid Glucose Microfluidic Fuel Cell. <i>Journal of Physics: Conference Series</i> , 2013, 476, 012044.	0.3	1
68	Formic acid microfluidic fuel cell based on well-defined Pd nanocubes. <i>Journal of Physics: Conference Series</i> , 2013, 476, 012033.	0.3	9
69	Electrochemical growth of Au architectures on glassy carbon and their evaluation toward glucose oxidation reaction. <i>New Journal of Chemistry</i> , 2012, 36, 2555.	1.4	22
70	Microfluidics in Membraneless Fuel Cells. , 0, , .		0