Rodrigo De Souza

List of Publications by Year
in descending order

75	2,071	236925 25	254184 43
papers	citations	h-index	g-index

76	76	76	2078
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A comparative study of the electrogeneration of hydrogen peroxide using Vulcan and Printex carbon supports. Carbon, 2011, 49, 2842-2851.	10.3	161
2	Ethanol electro-oxidation in an alkaline medium using Pd/C, Au/C and PdAu/C electrocatalysts prepared by electron beam irradiation. Electrochimica Acta, 2013, 111, 455-465.	5.2	125
3	Low content cerium oxide nanoparticles on carbon for hydrogen peroxide electrosynthesis. Applied Catalysis A: General, 2012, 411-412, 1-6.	4.3	100
4	Screening of filamentous fungi for antimicrobial silver nanoparticles synthesis. AMB Express, 2017, 7, 31.	3.0	100
5	Direct ammonia fuel cell performance using PtIr/C as anode electrocatalysts. International Journal of Hydrogen Energy, 2014, 39, 5148-5152.	7.1	88
6	Oxidation of ammonia using PtRh/C electrocatalysts: Fuel cell and electrochemical evaluation. Applied Catalysis B: Environmental, 2015, 174-175, 136-144.	20.2	85
7	Ethanol oxidation reactions using SnO2@Pt/C as an electrocatalyst. Applied Catalysis B: Environmental, 2010, 99, 265-271.	20.2	79
8	PtSn/C alloyed and non-alloyed materials: Differences in the ethanol electro-oxidation reaction pathways. Applied Catalysis B: Environmental, 2011, 110, 141-147.	20.2	76
9	Study of ethanol electro-oxidation in acid environment on Pt3Sn/C anode catalysts prepared by a modified polymeric precursor method under controlled synthesis conditions. Journal of Power Sources, 2010, 195, 1589-1593.	7.8	70
10	Investigation of PdIr/C electrocatalysts as anode on the performance of direct ammonia fuel cell. Journal of Power Sources, 2014, 268, 129-136.	7.8	69
11	Low tungsten content of nanostructured material supported on carbon for the degradation of phenol. Applied Catalysis B: Environmental, 2013, 142-143, 479-486.	20.2	61
12	Ptâ€“Ruâ€“TiO2 photoelectrocatalysts for methanol oxidation. Journal of Power Sources, 2011, 196, 872-876.	7.8	60
13	PtAu/C electrocatalysts as anodes for direct ammonia fuel cell. Applied Catalysis A: General, 2015, 490, 133-138.	4.3	60
14	Ethanol oxidation reaction on PtCeO2/C electrocatalysts prepared by the polymeric precursor method. Applied Catalysis B: Environmental, 2009, 91, 516-523.	20.2	56
15	PtSnCe/C electrocatalysts for ethanol oxidation: DEFC and FTIR â€œin-situâ€•studies. International Journal of Hydrogen Energy, 2011, 36, 11519-11527.	7.1	55
16	Influence of the preparation method and the support on H2O2 electrogeneration using cerium oxide nanoparticles. Electrochimica Acta, 2013, 111, 339-343.	5.2	42
17	Electrochemical and fuel cell evaluation of PtAu/C electrocatalysts for ethanol electro-oxidation in alkaline media. International Journal of Hydrogen Energy, 2014, 39, 10121-10127.	7.1	37
18	Degradation of dipyrone via advanced oxidation processes using a cerium nanostructured electrocatalyst material. Applied Catalysis A: General, 2013, 462-463, 256-261.	4.3	36

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19	Ethanol Electro-oxidation on Pt/C Electrocatalysts: An â€œIn Situâ€•Raman Spectroelectrochemical Study. Electrocatalysis, 2011, 2, 28-34.	3.0	32
20	Ethanol electrooxidation on PdIr/C electrocatalysts in alkaline media: electrochemical and fuel cell studies. Ionics, 2015, 21, 487-495.	2.4	32
21	Glycerol oxidation reaction using PdAu/C electrocatalysts. Ionics, 2016, 22, 1167-1175.	2.4	30
22	Glycerol and Ethanol Oxidation in Alkaline Medium Using PtCu/C Electrocatalysts. International Journal of Electrochemical Science, 2018, 13, 1893-1904.	1.3	30
23	Preparation of PdAu/C-Sb2O5Â·SnO2 electrocatalysts by borohydride reduction process for direct formic acid fuel cell. Ionics, 2013, 19, 1207-1213.	2.4	29
24	Electrochemical and in situ ATR-FTIR studies of ethanol electro-oxidation in alkaline medium using PtRh/C electrocatalysts. Materials for Renewable and Sustainable Energy, 2015, 4, 1.	3.6	29
25	Microbial fuel cell-induced production of fungal laccase to degrade the anthraquinone dye Remazol Brilliant Blue R. Environmental Chemistry Letters, 2019, 17, 1413-1420.	16.2	29
26	In situ spectroscopy studies of ethanol oxidation reaction using a single fuel cell/ATR-FTIR setup. International Journal of Hydrogen Energy, 2013, 38, 10585-10591.	7.1	28
27	The effect of ethanol concentration on the direct ethanol fuel cell performance and products distribution: A study using a single fuel cell/attenuated total reflectance â€“ Fourier transform infrared spectroscopy. Journal of Power Sources, 2014, 253, 392-396.	7.8	26
28	Direct Alkaline Anion Exchange Membrane Fuel Cell to Converting Methane into Methanol. ChemistrySelect, 2019, 4, 11430-11434.	1.5	26
29	Partial oxidation of methane and generation of electricity using a PEMFC. Ionics, 2019, 25, 5077-5082.	2.4	25
30	PtSnIr/C anode electrocatalysts: promoting effect in direct ethanol fuel cells. Journal of the Brazilian Chemical Society, 2012, 23, 1146-1153.	0.6	20
31	Methanol Oxidation in Alkaline Medium Using PtIn/C Electrocatalysts. Electrocatalysis, 2016, 7, 445-450.	3.0	18
32	PtAu Electrocatalyst for Glycerol Oxidation Reaction Using a ATR-FTIR/Single Direct Alkaline Glycerol/Air Cell In Situ Study. Electrocatalysis, 2016, 7, 22-32.	3.0	18
33	Pseudocapacitance Properties of Co3O4 Nanoparticles Synthesized Using a Modified Sol-Gel Method. Materials Research, 2018, 21, .	1.3	18
34	Ethanol Oxidation Reaction Using PtSn/C+Ce/C Electrocatalysts: Aspects of Ceria Contribution. Electrochimica Acta, 2014, 117, 292-298.	5.2	17
35	Electro-Oxidation of Ethanol on PtSnRh/C-Sb2O5Â·SnO2 Electrocatalysts Prepared by Borohydride Reduction. Electrocatalysis, 2013, 4, 159-166.	3.0	16
36	In Situ ATR-FTIR Studies of Ethanol Electro-oxidation in Alkaline Medium on PtRh/C Electrocatalyst Prepared by an Alcohol Reduction Process. Electrocatalysis, 2016, 7, 297-304.	3.0	15

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37	Electrochemical and Fuel Cell Evaluation of PtIr/C Electrocatalysts for Ethanol Electrooxidation in Alkaline Medium. Electrocatalysis, 2014, 5, 438-444.	3.0	14
38	Activation of Methane on PdZn/C Electrocatalysts in an Acidic Electrolyte at Low Temperatures. International Journal of Electrochemical Science, 2019, 14, 10819-10834.	1.3	14
39	Effect of Ni content in PdNi/C anode catalysts on power and methanol co-generation in alkaline direct methane fuel cell type. Journal of Colloid and Interface Science, 2020, 578, 390-401.	9.4	14
40	Methane conversion to higher value-added product and energy co-generation using anodes OF PdCu/C in a solid electrolyte reactor: alkaline fuel cell type monitored by differential mass spectroscopy. Research on Chemical Intermediates, 2021, 47, 743-757.	2.7	14
41	Partial Methane Oxidation in Fuel Cell-Type Reactors for Co-Generation of Energy and Chemicals: A Short Review. Catalysts, 2022, 12, 217.	3.5	14
42	Effect of TiO2 Content on Ethanol Electrooxidation in Alkaline Media Using Pt Nanoparticles Supported on Physical Mixtures of Carbon and TiO2 as Electrocatalysts. Electrocatalysis, 2014, 5, 213-219.	3.0	13
43	Geometry-dependent DNA-TiO2 immobilization mechanism: A spectroscopic approach. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 199, 349-355.	3.9	13
44	Anodic oxidation of formic acid on PdAuIr/C-Sb2O5Â·SnO2 electrocatalysts prepared by borohydride reduction. Journal of Fuel Chemistry and Technology, 2014, 42, 851-857.	2.0	12
45	Obtaining C₂ and C₃ Products from Methane Using Pd/C as Anode in a Solid Fuel Cellâ€type Electrolyte Reactor. ChemCatChem, 2020, 12, 4517-4521.	3.7	12
46	Methane activation at low temperature in an acidic electrolyte using PdAu/C, PdCu/C, and PdTiO2/C electrocatalysts for PEMFC. Research on Chemical Intermediates, 2020, 46, 2481-2496.	2.7	12
47	Conversion of Methane into Methanol Using the [6,6â€²-(2,2â€²-Bipyridine-6,6â€²-Diyl)bis(1,3,5-Triazine-2,4-Diamine)](Nitrato-O)Copper(II) Complex in a Solid Electrolyte Reactor Fuel Cell Type. ACS Omega, 2020, 5, 16003-16009.	3.5	12
48	Glycerol Electrooxidation in Alkaline Medium Using Pd/C, Au/C and PdAu/C Electrocatalysts Prepared by Electron Beam Irradiation. Journal of the Brazilian Chemical Society, 2014, , .	0.6	11
49	Enhanced Electrooxidation of Ethanol Using Pd/C + TiO2 Electrocatalysts in Alkaline Media. Electrocatalysis, 2015, 6, 86-91.	3.0	10
50	Synthesis of hydroquinone with co-generation of electricity from phenol aqueous solution in a proton exchange membrane fuel cell reactor. Catalysis Communications, 2015, 59, 113-115.	3.3	10
51	Synthesis of Na2Ti3O7 nanoparticles by sonochemical method for solid state electrolyte applications. Journal of Solid State Electrochemistry, 2018, 22, 1315-1319.	2.5	10
52	Novel electrochemical sensor based on molecularly imprinted polymer for selective recognition of sesquiterpene Î²-caryophyllene. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 217, 271-277.	3.9	9
53	Glycerol and Methanol Electroâ€oxidation at Pt/Câ€ITO under Alkaline Condition. Electroanalysis, 2016, 28, 2552-2558.	2.9	8
54	High CO tolerance of Pt nanoparticles synthesized by sodium borohydride in a time-domain NMR spectrometer. International Journal of Hydrogen Energy, 2020, 45, 22973-22978.	7.1	8

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55	High activity of Ptâ€“Rh supported on Câ€“ITO for ethanol oxidation in alkaline medium. Research on Chemical Intermediates, 2020, 46, 1555-1570.	2.7	6
56	New approach by electrospray technique to prepare a gas diffusion layer for the proton exchange membrane fuel cell anode. Materials Today Advances, 2021, 12, 100161.	5.2	6
57	Ethanol Oxidation Reaction on IrPtSn/C Electrocatalysts with low Pt Content. Journal of the Brazilian Chemical Society, 2013, , .	0.6	6
58	Performance of Pd Electrocatalyst Supported on a Physical Mixture Indium Tin Oxide-carbon for Glycerol Electro-oxidation in Alkaline Media. Electroanalysis, 2017, 29, 960-964.	2.9	5
59	Reaproveitamento de Ã³xidos de manganÃªs de pilhas descartadas para eletrocatÃ¡lise da reaÃ§Ã£o de reduÃ§Ã£o de oxigÃªnio em meio bÃ¡sico. Quimica Nova, 2010, 33, 730-733.	0.3	5
60	Facile, clean and rapid exfoliation of boron-nitride using a non-thermal plasma process. Materials Today Advances, 2021, 12, 100181.	5.2	5
61	Effect of the TiO2 content as support with carbon toward methanol electro-oxidation in alkaline media using platinum nanoparticles as electrocatalysts. Ionics, 2014, 20, 1137.	2.4	4
62	Evaluation of Paullinia Cupana as a green corrosion inhibitor for carbon steel utilizing gravimetric and electrochemical noise techniques. Materials Research Express, 2019, 6, 076522.	1.6	4
63	Borohydride Reduction Method for PdIn/C Electrocatalysts Synthesis towards Glycerol Electrooxidation under Alkaline Condition. Electroanalysis, 2021, 33, 1115-1120.	2.9	4
64	CO2 reduction on Cu/C used as a cathode in a polymeric electrolyte reactor - Fuel cell type. International Journal of Hydrogen Energy, 2022, 47, 4010-4017.	7.1	4
65	Glycerol dehydrogenation steps on Au/C surface in alkaline medium: An in-situ ATR-FTIR approach. Renewable Energy, 2021, 167, 954-959.	8.9	3
66	Comparative Studies of Oxygen Reduction Reaction and Ethanol Oxidation Reaction on PtSn/C and PtNi/C Catalysts. ECS Transactions, 2011, 41, 1299-1306.	0.5	2
67	Au core stabilizes CO adsorption onto Pd leading to CO2 production. Materials Today Advances, 2020, 6, 100070.	5.2	2
68	Methanol electrosynthesis from CO2 reduction reaction in polymer electrolyte reactors â€“ fuel cell type using [6,6â€²-(2,2â€²-bipyridine-6,6â€²-diyl)bis(1,3,5-triazine-2,4-diamine)] (dinitrate-O) copper (II) complex. Materials Today Sustainability, 2022, 19, 100177.	4.1	2
69	PtSnCe/C and PtSnIr/C Electrocatalysts for Ethanol Oxidation: DEFC and In Situ FTIR studies. ECS Transactions, 2011, 41, 1293-1298.	0.5	1
70	Addition of bismuth to Pt and Pd for electric power generation with selective cogeneration of acetate from ethanol in a fuel cell type reactor. Journal of Fuel Chemistry and Technology, 2021, 49, 1540-1548.	2.0	1
71	Application of Binary PdSb/C as an Anode in a Polymeric Electrolyte Reactor-Fuel Cell Type for Electrosynthesis of Methanol from Methane. Materials Research, 0, 25, .	1.3	1
72	PtSb/C electrocatalysts for glycerol oxidation in alkaline electrolyte. Results in Chemistry, 2022, 4, 100375.	2.0	1

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73	cis-[6-(Pyridin-2-yl)-1,3,5-triazine-2,4-diamine](dichloride) Palladium(II)-Based Electrolyte Membrane Reactors for Partial Oxidation Methane to Methanol. ACS Omega, 2022, 7, 24249-24255.	3.5	1
74	The Mechanism for Ethanol Oxidation Reaction on SnO2@Pt/C Core Shell Electrocatalyst. ECS Transactions, 2011, 41, 2231-2236.	0.5	0
75	Comparison of various atomic compositions of Au@Pd/C, Pd/C, and AuPd/C electrocatalysts for direct ethanol fuel cells. Energy Storage, 2020, 2, e139.	4.3	0