

Mauro Coelho dos Santos

List of Publications by Year in Descending Order

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Version: 2024-04-10

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

116 papers	2,985 citations	35 h-index	50 g-index
124 ext. papers	3,364 ext. citations	5.4 avg, IF	5.06 L-index

#	Paper	IF	Citations
116	Pd-Pt nanoparticles combined with ceria nanorods for application in oxygen reduction reactions in alkaline direct ethanol fuel cell cathodes. <i>Journal of Alloys and Compounds</i> , 2022 , 899, 163361	5.7	1
115	Electrocatalysts based on low amounts of palladium combined with tin nanoparticles and cerium dioxide nanorods for application as ADEFC anodes. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 39438-39438	6.7	1
114	Hybrid palladium-ceria nanorod electrocatalysts applications in oxygen reduction and ethanol oxidation reactions in alkaline media. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 15896-15911	6.7	5
113	NaNbO ₃ microcubes decorated with minimum Pd and maximum performance for Alkaline Direct Ethanol Fuel Cell applications. <i>Journal of Power Sources</i> , 2021 , 493, 229694	8.9	3
112	Acetol as a high-performance molecule for oxidation in alkaline direct liquid fuel cell. <i>Renewable Energy</i> , 2021 , 165, 37-42	8.1	2
111	Electrochemical and spectroscopy studies of the interaction between the Zn ²⁺ and the diethyldithiocarbamate ligand (Et ₂ DTCâ ⁻). <i>Transition Metal Chemistry</i> , 2021 , 46, 291-297	2.1	1
110	Density functional theory studies of oxygen reduction reaction for hydrogen peroxide generation on Graphene-Based catalysts. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 895, 115429	4.1	0
109	Determination of chemical elements in rice from Singapore markets: Distribution, estimated intake and differentiation of rice varieties. <i>Journal of Food Composition and Analysis</i> , 2021 , 101, 103969	4.1	0
108	Fast and Inexpensive Synthesis of Multilayer Graphene Used as Pd Support in Alkaline Direct Ethanol Fuel Cell Anode. <i>Electrocatalysis</i> , 2021 , 12, 715	2.7	
107	Assessing the oxygen reduction reaction by a 2-electron mechanism on ceria surfaces. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 18580-18587	3.6	1
106	Using carbon black modified with Nb ₂ O ₅ and RuO ₂ for enhancing selectivity toward H ₂ O ₂ electrogeneration. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106787	6.8	0
105	Sn-containing electrocatalysts with a reduced amount of palladium for alkaline direct ethanol fuel cell applications. <i>Renewable Energy</i> , 2020 , 158, 49-63	8.1	12
104	Methane activation at low temperature in an acidic electrolyte using PdAu/C, PdCu/C, and PdTiO ₂ /C electrocatalysts for PEMFC. <i>Research on Chemical Intermediates</i> , 2020 , 46, 2481-2496	2.8	6
103	MnO ₂ /Vulcan-Based Gas Diffusion Electrode for Mineralization of Diazo Dye in Simulated Effluent. <i>Electrocatalysis</i> , 2020 , 11, 268-274	2.7	0
102	Niobium increasing the electrocatalytic activity of palladium for alkaline direct ethanol fuel cell. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 858, 113824	4.1	10
101	The effect of support on Pd ₁ Nb ₁ electrocatalysts for ethanol fuel cells. <i>Renewable Energy</i> , 2020 , 150, 293-306	8.1	8
100	Methane activation on PdMn/C-ITO electrocatalysts using a reactor-type PEMFC. <i>Research on Chemical Intermediates</i> , 2020 , 46, 4383-4402	2.8	0

99	Microwave synthesis of Ti/(RuO ₂) _{0.5} (IrO ₂) _{0.5} anodes: Improved electrochemical properties and stability. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 874, 114460	4.1	12
98	Diamond electrodes applied to the voltammetric generation of nitro-anion radicals from methyl parathion in aqueous media. <i>Diamond and Related Materials</i> , 2020 , 110, 108112	3.5	3
97	Catalysis of oxygen reduction reaction for H ₂ O ₂ electrogeneration: The impact of different conductive carbon matrices and their physicochemical properties. <i>Journal of Catalysis</i> , 2020 , 392, 56-68	7.3	9
96	Removal of Orange II (OII) dye by simulated solar photoelectro-Fenton and stability of WO/Vulcan XC72 gas diffusion electrode. <i>Chemosphere</i> , 2020 , 239, 124670	8.4	6
95	Niobium Enhances Electrocatalytic Pd Activity in Alkaline Direct Glycerol Fuel Cells. <i>ChemElectroChem</i> , 2019 , 6, 5396-5406	4.3	6
94	MWCNT-COOH supported PtSnNi electrocatalysts for direct ethanol fuel cells: Low Pt content, selectivity and chemical stability. <i>Renewable Energy</i> , 2019 , 143, 1397-1405	8.1	5
93	A high-throughput analytical tool for quantification of 15 metallic nanoparticles supported on carbon black. <i>Heliyon</i> , 2019 , 5, e01308	3.6	12
92	Mitigation of arsenic in rice grains by polishing and washing: Evidencing the benefit and the cost. <i>Journal of Cereal Science</i> , 2019 , 87, 52-58	3.8	12
91	Pt-Decorated TiO ₂ Materials Supported on Carbon: Increasing Activities and Stabilities toward the ORR by Tuning the Pt Loading. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5759-5768	6.1	19
90	Insights in the Study of the Oxygen Reduction Reaction in Direct Ethanol Fuel Cells using Hybrid Platinum-Ceria Nanorods Electrocatalysts. <i>ChemElectroChem</i> , 2019 , 6, 5124-5135	4.3	6
89	Mineralization of paracetamol using a gas diffusion electrode modified with ceria high aspect ratio nanostructures. <i>Electrochimica Acta</i> , 2019 , 295, 39-49	6.7	15
88	Pd _x Nb _y electrocatalysts for DEFC in alkaline medium: Stability, selectivity and mechanism for EOR. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 4505-4516	6.7	34
87	Carbon-supported MnO ₂ nanoflowers: Introducing oxygen vacancies for optimized volcano-type electrocatalytic activities towards H ₂ O ₂ generation. <i>Electrochimica Acta</i> , 2018 , 268, 101-110	6.7	34
86	Time dependent-density functional theory (TD-DFT) and experimental studies of UV-Visible spectra and cyclic voltammetry for Cu(II) complex with Et ₂ DTC. <i>Journal of Molecular Structure</i> , 2018 , 1157, 463-468	3.4	3
85	Evaluation of H ₂ O ₂ electrogeneration and decolorization of Orange II azo dye using tungsten oxide nanoparticle-modified carbon. <i>Applied Catalysis B: Environmental</i> , 2018 , 232, 436-445	21.8	60
84	Niobium: a promising Pd co-electrocatalyst for ethanol electrooxidation reactions. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 1495-1506	2.6	16
83	Ceria high aspect ratio nanostructures supported on carbon for hydrogen peroxide electrogeneration. <i>Electrochimica Acta</i> , 2018 , 259, 865-872	6.7	31
82	Application and stability of cathodes with manganese dioxide nanoflowers supported on Vulcan by Fenton systems for the degradation of RB5 azo dye. <i>Chemosphere</i> , 2018 , 208, 131-138	8.4	19

81	W@Au Nanostructures Modifying Carbon as Materials for Hydrogen Peroxide Electrogenation. <i>Electrochimica Acta</i> , 2017 , 231, 713-720	6.7	23
80	PtSn Electrocatalyst Supported on MWCNT-COOH: Investigating the Ethanol Oxidation Reaction. <i>ChemElectroChem</i> , 2017 , 4, 1950-1958	4.3	18
79	Carbon Modified with Vanadium Nanoparticles for Hydrogen Peroxide Electrogenation. <i>Electrocatalysis</i> , 2017 , 8, 311-320	2.7	4
78	Electrooxidation of Mixed Ethanol and Methanol Solutions on PtSn/C Electrocatalysts Prepared by the Polymeric Precursor Method. <i>Journal of the Brazilian Chemical Society</i> , 2017 , 28, 1091-1097	1.5	2
77	Fuel Cells: Hydrogen and Ethanol Technologies 2017 ,		2
76	Surface and Catalytical effects on Treated Carbon Materials for Hydrogen Peroxide Electrogenation. <i>Electrocatalysis</i> , 2016 , 7, 60-69	2.7	26
75	Electrochemical incineration of the antibiotic ciprofloxacin in sulfate medium and synthetic urine matrix. <i>Water Research</i> , 2015 , 83, 31-41	12.5	128
74	Binary and ternary palladium based electrocatalysts for alkaline direct glycerol fuel cell. <i>Journal of Power Sources</i> , 2015 , 293, 823-830	8.9	50
73	Degradation of Evans Blue diazo dye by electrochemical processes based on Fenton's reaction chemistry. <i>Journal of Electroanalytical Chemistry</i> , 2015 , 747, 1-11	4.1	49
72	Carbon-supported TiO ₂ /Au hybrids as catalysts for the electrogeneration of hydrogen peroxide: Investigating the effect of TiO ₂ shape. <i>Journal of Catalysis</i> , 2015 , 326, 100-106	7.3	39
71	Self-assembled films based on polyaniline/multiwalled carbon nanotubes composites and sulphonated polystyrene deposited onto ITO substrates. <i>Synthetic Metals</i> , 2015 , 210, 186-191	3.6	10
70	Palladium and palladium-silver supported on multi wall carbon nanotubes or carbon for alkaline direct ethanol fuel cell. <i>Journal of Power Sources</i> , 2015 , 275, 189-199	8.9	78
69	Oxidation of ammonia using PtRh/C electrocatalysts: Fuel cell and electrochemical evaluation. <i>Applied Catalysis B: Environmental</i> , 2015 , 174-175, 136-144	21.8	64
68	Use of a vanadium nanostructured material for hydrogen peroxide electrogeneration. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 719, 127-132	4.1	35
67	Investigation of PdIr/C electrocatalysts as anode on the performance of direct ammonia fuel cell. <i>Journal of Power Sources</i> , 2014 , 268, 129-136	8.9	55
66	Ethanol Oxidation Reaction Using PtSn/C+Ce/C Electrocatalysts: Aspects of Ceria Contribution. <i>Electrochimica Acta</i> , 2014 , 117, 292-298	6.7	15
65	Glycerol Electrooxidation in Alkaline Medium Using Pd/C, Au/C and PdAu/C Electrocatalysts Prepared by Electron Beam Irradiation. <i>Journal of the Brazilian Chemical Society</i> , 2014 ,	1.5	9
64	Medicinal electrochemistry: integration of electrochemistry, medicinal chemistry and computational chemistry. <i>Current Medicinal Chemistry</i> , 2014 , 21, 2266-75	4.3	6

63	Influence of the preparation method and the support on H ₂ O ₂ electrogeneration using cerium oxide nanoparticles. <i>Electrochimica Acta</i> , 2013 , 111, 339-343	6.7	34
62	Degradation of dipyrone via advanced oxidation processes using a cerium nanostructured electrocatalyst material. <i>Applied Catalysis A: General</i> , 2013 , 462-463, 256-261	5.1	33
61	Ethanol electro-oxidation in an alkaline medium using Pd/C, Au/C and PdAu/C electrocatalysts prepared by electron beam irradiation. <i>Electrochimica Acta</i> , 2013 , 111, 455-465	6.7	106
60	Synthesis and characterization of nanostructured electrocatalysts based on nickel and tin for hydrogen peroxide electrogeneration. <i>Electrochimica Acta</i> , 2013 , 109, 245-251	6.7	39
59	Low tungsten content of nanostructured material supported on carbon for the degradation of phenol. <i>Applied Catalysis B: Environmental</i> , 2013 , 142-143, 479-486	21.8	47
58	PtSnNi/C nanoparticle electrocatalysts for the ethanol oxidation reaction: Ni stability study. <i>Electrochimica Acta</i> , 2013 , 96, 243-252	6.7	40
57	Ethanol Oxidation Reaction on IrPtSn/C Electrocatalysts with low Pt Content. <i>Journal of the Brazilian Chemical Society</i> , 2013 ,	1.5	5
56	Use of Gas Diffusion Electrode for the In Situ Generation of Hydrogen Peroxide in an Electrochemical Flow-By Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 649-654	3.9	87
55	Oxygen reduction reaction catalyzed by e-MnO ₂ : Influence of the crystalline structure on the reaction mechanism. <i>Electrochimica Acta</i> , 2012 , 85, 423-431	6.7	63
54	PtSnIr/C anode electrocatalysts: promoting effect in direct ethanol fuel cells. <i>Journal of the Brazilian Chemical Society</i> , 2012 , 23, 1146-1153	1.5	19
53	Low content cerium oxide nanoparticles on carbon for hydrogen peroxide electrosynthesis. <i>Applied Catalysis A: General</i> , 2012 , 411-412, 1-6	5.1	76
52	Nanomaterials for Energy Conversion and Storage. <i>Journal of Nanomaterials</i> , 2012 , 2012, 1-2	3.2	9
51	Ethanol electrooxidation using Ti/(RuO ₂) _x Pt(1-x) electrodes prepared by the polymeric precursor method. <i>Journal of the Brazilian Chemical Society</i> , 2011 , 22, 1709-1717	1.5	8
50	Tellurium underpotential deposited ad-atoms on Au electrodes: A new electrodeposition mechanism using an electrochemical quartz crystal nanobalance. <i>Electrochimica Acta</i> , 2011 , 58, 1-5	6.7	8
49	PtSn/C alloyed and non-alloyed materials: Differences in the ethanol electro-oxidation reaction pathways. <i>Applied Catalysis B: Environmental</i> , 2011 , 110, 141-147	21.8	63
48	PtSnCe/C electrocatalysts for ethanol oxidation: DEFC and FTIR <i>in-situ</i> studies. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 11519-11527	6.7	49
47	PdBi/C electrocatalysts for ethanol electro-oxidation in alkaline medium. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 10522-10526	6.7	62
46	PtRuTiO ₂ photoelectrocatalysts for methanol oxidation. <i>Journal of Power Sources</i> , 2011 , 196, 872-876	8.9	57

45	Ethanol Electro-oxidation on Pt/C Electrocatalysts: An in situ Raman Spectroelectrochemical Study. <i>Electrocatalysis</i> , 2011 , 2, 28-34	2.7	18
44	Ethanol Electrooxidation on Bi Submonolayers Deposited on a Pt Electrode. <i>Electrocatalysis</i> , 2011 , 2, 224-230	2.7	5
43	A comparative study of the electrogeneration of hydrogen peroxide using Vulcan and Printex carbon supports. <i>Carbon</i> , 2011 , 49, 2842-2851	10.4	133
42	Comparative Studies of Oxygen Reduction Reaction and Ethanol Oxidation Reaction on PtSn/C and PtNi/C Catalysts. <i>ECS Transactions</i> , 2011 , 41, 1299-1306	1	2
41	Ethanol oxidation reactions using SnO ₂ @Pt/C as an electrocatalyst. <i>Applied Catalysis B: Environmental</i> , 2010 , 99, 265-271	21.8	65
40	Study of ethanol electro-oxidation in acid environment on Pt ₃ Sn/C anode catalysts prepared by a modified polymeric precursor method under controlled synthesis conditions. <i>Journal of Power Sources</i> , 2010 , 195, 1589-1593	8.9	58
39	Copper underpotential deposition on TiO ₂ electrodes: A voltammetric and electrochemical quartz crystal nanobalance study. <i>Thin Solid Films</i> , 2010 , 518, 2669-2673	2.2	3
38	Reaproveitamento de resíduos de manganês de pilhas descartadas para eletrocatalise da reação de redução de oxigênio em meio básico. <i>Química Nova</i> , 2010 , 33, 730-733	1.6	4
37	DFT and electrochemical studies on nortriptyline oxidation sites. <i>Journal of Molecular Modeling</i> , 2009 , 15, 945-52	2	11
36	Ethanol oxidation reaction on PtCeO ₂ /C electrocatalysts prepared by the polymeric precursor method. <i>Applied Catalysis B: Environmental</i> , 2009 , 91, 516-523	21.8	46
35	A voltammetric and nanogravimetric study of ZnSe electrodeposition from an acid bath containing Zn(II) and Se(IV). <i>Thin Solid Films</i> , 2007 , 515, 6860-6866	2.2	21
34	Nanogravimetric studies of tungsten oxide thin films obtained by the polymeric precursor method. <i>Thin Solid Films</i> , 2007 , 515, 7155-7161	2.2	2
33	Electrocatalysis of methanol, ethanol and formic acid using a Ru/Pt metallic bilayer. <i>Journal of Power Sources</i> , 2007 , 163, 695-701	8.9	42
32	Methanol oxidation reaction on Ti/RuO ₂ (x)Pt(111) electrodes prepared by the polymeric precursor method. <i>Journal of Power Sources</i> , 2007 , 171, 373-380	8.9	19
31	Electrochemical oxidation of benzene on boron-doped diamond electrodes. <i>Chemosphere</i> , 2007 , 66, 2158-2164	8.9	62
30	Preparation of Pt thin film electrodes using the Pechini method. <i>Materials Letters</i> , 2006 , 60, 1906-1910	3.3	32
29	Use of Graphite Polyurethane Composite Electrode for Imipramine Oxidation: Mechanism Proposal and Electroanalytical Determination. <i>Analytical Letters</i> , 2006 , 39, 507-520	2.2	35
28	A nanogravimetric investigation of the charging processes on ruthenium oxide thin films and their effect on methanol oxidation. <i>Applied Surface Science</i> , 2006 , 253, 1817-1822	6.7	16

27	Ethanol oxidation using a metallic bilayer Rh/Pt deposited over Pt as electrocatalyst. <i>Journal of Power Sources</i> , 2006 , 157, 212-216	8.9	20
26	Methanol and ethanol electrooxidation using Pt electrodes prepared by the polymeric precursor method. <i>Journal of Power Sources</i> , 2006 , 158, 164-168	8.9	45
25	A model for the flux of the species generated during the electrodisolution of a copper-Bickel alloy on Pt in acidic media. <i>Surface and Coatings Technology</i> , 2006 , 200, 2990-2994	4.4	3
24	A microgravimetric study of simultaneous adsorption of anions and copper on polycrystalline Pt surfaces. <i>Journal of the Brazilian Chemical Society</i> , 2006 , 17, 1339-1346	1.5	6
23	Electrochemical Behavior of Nicotine Studied by Voltammetric Techniques at Boron-Doped Diamond Electrodes. <i>Analytical Letters</i> , 2005 , 38, 1587-1599	2.2	49
22	The use of a metallic bilayer for the oxidation of small organic molecules. <i>Journal of Electroanalytical Chemistry</i> , 2005 , 575, 177-182	4.1	36
21	Electrochemical behavior of Ni particles modified polypyrrole films studied by EQCN technique. <i>Journal of Electroanalytical Chemistry</i> , 2005 , 583, 162-166	4.1	8
20	Electrochemical and mass variation behaviour of rhodium oxide electrodes prepared by the polymeric precursor method. <i>Thin Solid Films</i> , 2005 , 483, 164-168	2.2	4
19	A voltammetric and nanogravimetric study of Te underpotential deposition on Pt in perchloric acid medium. <i>Electrochimica Acta</i> , 2005 , 50, 2289-2295	6.7	17
18	Determination of dopamine in synthetic cerebrospinal fluid by SWV with a graphite-polyurethane composite electrode. <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 381, 1161-6	4.4	49
17	Microgravimetric and voltammetric study of Zn underpotential deposition on platinum in alkaline medium. <i>Surface Science</i> , 2005 , 579, 58-64	1.8	4
16	An EQCM investigation of charging RuO ₂ thin films prepared by the polymeric precursor method. <i>Journal of Solid State Electrochemistry</i> , 2005 , 9, 91-95	2.6	32
15	Estudo eletroquímico e químico-quântico da oxidação do antidepressivo tricíclico amitriptilina. <i>Química Nova</i> , 2005 , 28, 456-461	1.6	16
14	Electrogravimetric investigation of formaldehyde oxidation at Pt electrodes in acidic media. <i>Electrochimica Acta</i> , 2004 , 49, 1893-1901	6.7	34
13	Microgravimetric, rotating ring-disc and voltammetric studies of the underpotential deposition of selenium on polycrystalline platinum electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2004 , 567, 203-210	4.1	54
12	Rh electrodeposition on Pt in acidic medium: a study using cyclic voltammetry and an electrochemical quartz crystal microbalance. <i>Journal of Electroanalytical Chemistry</i> , 2004 , 569, 233-240	4.1	43
11	The underpotential deposition of Sn on Pt in acid media. Cyclic voltammetric and electrochemical quartz crystal microbalance studies. <i>Electrochimica Acta</i> , 2003 , 48, 2607-2614	6.7	23
10	Microgravimetric studies of silver electrocrystallization on polycrystalline gold surfaces. <i>Journal of Electroanalytical Chemistry</i> , 2003 , 547, 53-59	4.1	3

9	Voltammetric and rotating ring-disk studies of the influence of anions in the underpotential deposition of zinc on platinum. <i>Journal of the Brazilian Chemical Society</i> , 2002 , 13, 529-534	1.5	15
8	Estudos da deposio em subteno de cdmio sobre ouro policristalino na presena de diferentes ions co-adsorvidos. <i>Quimica Nova</i> , 2001 , 24, 465-472	1.6	2
7	Study of anion adsorption on polycrystalline Pt by electrochemical quartz crystal microbalance. <i>Electrochemistry Communications</i> , 2000 , 2, 692-696	5.1	103
6	Estudos da eletrodeposio de metais em regime de subteno. <i>Quimica Nova</i> , 2000 , 23, 392-400	1.6	3
5	Voltammetric and rotating ring-disk studies of underpotential deposition of Ag and Cu on polycrystalline Au electrodes in aqueous H ₂ SO ₄ . <i>Electrochimica Acta</i> , 1998 , 43, 2263-2272	6.7	43
4	Electrochemical deposition of the first Cd monolayer on polycrystalline Pt and Au electrodes: an Upd study. <i>Journal of the Brazilian Chemical Society</i> , 1998 , 9, 211	1.5	6
3	Underpotential deposition of silver on polycrystalline platinum studied by cyclic voltammetry and rotating ring-disc techniques. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997 , 93, 3999-4003		22
2	Determination of the electrochemically active surface area by CO and hydrogen of PtSnRuTa/C-based electrocatalysts and their relationship with catalytic activity against alcohol oxidation. <i>Chemical Papers</i> , 1	1.9	0
1	Use of WO _{2.72} Nanoparticles/Vulcan XC72 GDE Electrocatalyst Combined with the Photoelectro-Fenton Process for the Degradation of 17ethinylestradiol (EE2). <i>Electrocatalysis</i> , 1	2.7	0