

Ana C Tavares

List of Publications by Year in Descending Order

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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.

75
papers

2,137
citations

28
h-index

44
g-index

91
ext. papers

2,436
ext. citations

7.2
avg, IF

4.99
L-index

#	Paper	IF	Citations
75	Au(001) Thin Films: Impact of Structure and Mosaicity on the Oxygen Reduction Reaction in Alkaline Medium. <i>ACS Catalysis</i> , 2022 , 12, 1664-1676	13.1	0
74	Steady-State Voltammetric Characterization and Simulation-Aided Study of the Mass Transfer Enhancement at Conical W/WO ₂ Ultramicroelectrodes. <i>Electrochimica Acta</i> , 2021 , 139524	6.7	
73	Electrochemical characterization of graphene-type materials obtained by electrochemical exfoliation of graphite. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 887, 115084	4.1	3
72	Engineering of a Low-Cost, Highly Active, and Durable Tantalate-Graphene Hybrid Electrocatalyst for Oxygen Reduction. <i>Advanced Energy Materials</i> , 2020 , 10, 2000075	21.8	14
71	SAXS signature of the lamellar ordering of ionic domains of perfluorinated sulfonic-acid ionomers by electric and magnetic field-assisted casting. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 13764-13779	3.6	5
70	Progress in the electrochemical reduction of CO ₂ on hierarchical dendritic metal electrodes. <i>Current Opinion in Electrochemistry</i> , 2020 , 23, 145-153	7.2	3
69	1D/2D Cobalt-Based Nanohybrids as Electrocatalysts for Hydrogen Generation. <i>Advanced Functional Materials</i> , 2020 , 30, 1908467	15.6	19
68	Uncovering the nature of electroactive sites in nano architected dendritic Bi for highly efficient CO ₂ electroreduction to formate. <i>Applied Catalysis B: Environmental</i> , 2020 , 274, 119031	21.8	29
67	The Role of Activation Process on Perovskites-Type Oxides As Electrocatalysts for Oxygen Evolution Reaction. <i>ECS Meeting Abstracts</i> , 2020 , MA2020-01, 1566-1566	0	
66	Sampled current voltammetry for kinetic studies on materials unsuitable for rotating discs or microelectrodes: Application to the oxygen reduction reaction in acidic medium. <i>Electrochimica Acta</i> , 2020 , 362, 136946	6.7	4
65	Effect of Graphene Oxide Sheet Size on the Response of a Label-free Voltammetric Immunosensor for Cancer Marker VEGF. <i>Electroanalysis</i> , 2020 , 32, 2205-2212	3	3
64	Understanding the Improved Activity of Dendritic Sn ₁ Pb ₃ Alloy for the CO ₂ Electrochemical Reduction: A Computational-Experimental Investigation. <i>ACS Catalysis</i> , 2020 , 10, 10726-10734	13.1	3
63	Graphene oxide/reduced graphene oxide films as protective barriers on lead against differential aeration corrosion induced by water drops. <i>Nanoscale Advances</i> , 2020 , 2, 5412-5420	5.1	2
62	Probing the influence of graphene oxide sheets size on the performance of label-free electrochemical biosensors. <i>Scientific Reports</i> , 2020 , 10, 13612	4.9	10
61	Biomass-derived nonprecious metal catalysts for oxygen reduction reaction: The demand-oriented engineering of active sites and structures 2020 , 2, 561-581		28
60	Electroreduction of CO ₂ to formate on amine modified Pb electrodes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11272-11281	13	32
59	Investigation of the electrocatalytic activity for ethanol oxidation of Pt nanoparticles modified with small amount (8 wt%) of CeO ₂ . <i>Journal of Electroanalytical Chemistry</i> , 2019 , 840, 367-375	4.1	13

58	Graphene oxide/cobalt-based nanohybrid electrodes for robust hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2019 , 245, 167-176	21.8	15
57	Perovskite-Type Catalysts Prepared by Nanocasting: Effect of Metal Silicates on the Electrocatalytic Activity toward Oxygen Evolution and Reduction Reactions. <i>ACS Applied Energy Materials</i> , 2018 , 1, 2565-2575	6.1	2
56	RRDE experiments on noble-metal and noble-metal-free catalysts: Impact of loading on the activity and selectivity of oxygen reduction reaction in alkaline solution. <i>Applied Catalysis B: Environmental</i> , 2017 , 206, 115-126	21.8	46
55	Corrosion resistance of monolayer hexagonal boron nitride on copper. <i>Scientific Reports</i> , 2017 , 7, 42139	4.9	67
54	Zirconia on Reduced Graphene Oxide Sheets: Synergistic Catalyst with High Selectivity for H ₂ O ₂ Electrogeneration. <i>ChemElectroChem</i> , 2017 , 4, 508-513	4.3	13
53	Selective electroreduction of CO ₂ to formate on 3D [100] Pb dendrites with nanometer-sized needle-like tips. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20747-20756	13	45
52	Catalytic activity of Fe ₃ Cu _x O ₄ (0 ≤ x ≤ 0.25) nanoparticles for the degradation of Amaranth food dye by heterogeneous electro-Fenton process. <i>Applied Catalysis B: Environmental</i> , 2016 , 180, 434-441	21.8	68
51	High T _g sulfonated insertion polynorbornene ionomers prepared by catalytic insertion polymerization. <i>Polymer</i> , 2016 , 86, 91-97	3.9	19
50	Nafion membranes annealed at high temperature and controlled humidity: structure, conductivity, and fuel cell performance. <i>Electrochimica Acta</i> , 2016 , 196, 110-117	6.7	14
49	A facile synthesis of Fe ₃ O ₄ nanoparticles/graphene for high-performance lithium/sodium-ion batteries. <i>RSC Advances</i> , 2016 , 6, 16624-16633	3.7	61
48	Au nanoparticle decorated graphene nanosheets for electrochemical immunosensing of p53 antibodies for cancer prognosis. <i>Analyst</i> , 2016 , 141, 2733-40	5	43
47	Nafion/titanate nanotubes composites prepared by in situ crystallization and casting for direct ethanol fuel cells. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 1859-1867	6.7	20
46	In Situ Electrochemical Generation of Hydrogen Peroxide in Alkaline Aqueous Solution by using an Unmodified Gas Diffusion Electrode. <i>ChemElectroChem</i> , 2015 , 2, 714-719	4.3	64
45	Interplay between β -relaxation and morphology transition of perfluorosulfonate ionomer membranes. <i>Journal of Power Sources</i> , 2015 , 293, 859-867	8.9	7
44	Facile synthesis of Zr- and Ta-based catalysts for the oxygen reduction reaction. <i>Chinese Journal of Catalysis</i> , 2015 , 36, 484-489	11.3	8
43	Oxygen reduction to hydrogen peroxide on Fe ₃ O ₄ nanoparticles supported on Printex carbon and Graphene. <i>Electrochimica Acta</i> , 2015 , 162, 263-270	6.7	95
42	Towards high efficiency air-processed near-infrared responsive photovoltaics: bulk heterojunction solar cells based on PbS/CdS core-shell quantum dots and TiO ₂ nanorod arrays. <i>Nanoscale</i> , 2015 , 7, 10039-49	7.7	37
41	Nb ₂ O ₅ nanoparticles supported on reduced graphene oxide sheets as electrocatalyst for the H ₂ O ₂ electrogeneration. <i>Journal of Catalysis</i> , 2015 , 332, 51-61	7.3	45

40	Dopamine and ascorbic acid electro-oxidation on Au, AuPt and Pt nanoparticles prepared by pulse laser ablation in water. <i>Electrochimica Acta</i> , 2015 , 159, 174-183	6.7	46
39	Graphene-Supported Substoichiometric Sodium Tantalate as a Methanol-Tolerant, Non-Noble-Metal Catalyst for the Electroreduction of Oxygen. <i>ChemCatChem</i> , 2015 , 7, 911-915	5.2	24
38	Organically functionalized titanium oxide/Nafion composite proton exchange membranes for fuel cells applications. <i>Journal of Power Sources</i> , 2014 , 248, 1127-1132	8.9	55
37	LaFeO ₃ -based nanopowders prepared by a soft-hard templating approach: the effect of silica texture. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8438-8447	13	14
36	Formic acid electro-oxidation at PtAu alloyed nanoparticles synthesized by pulsed laser ablation in liquids. <i>Journal of Power Sources</i> , 2014 , 248, 273-282	8.9	61
35	AC impedance spectroscopy investigation of carbon supported Pt ₃ Co and Pt cathode catalysts in direct methanol fuel cell. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 8026-8033	6.7	9
34	Transmission line model of mixed ionic and electronic conductor: the case of hydrous ruthenium oxide. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 2913-2920	2.6	
33	10. Solid polymer proton conducting electrolytes for fuel cells 2014 , 207-240		1
32	In Situ Fabrication of Nafion/Titanate Hybrid Electrolytes for High-Temperature Direct Ethanol Fuel Cell. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 16863-16870	3.8	20
31	Electrochemical impedance immunosensor based on gold nanoparticles-protein G for the detection of cancer marker epidermal growth factor receptor in human plasma and brain tissue. <i>Biosensors and Bioelectronics</i> , 2013 , 50, 143-9	11.8	131
30	Selection and identification of DNA aptamers against okadaic acid for biosensing application. <i>Analytical Chemistry</i> , 2013 , 85, 11794-801	7.8	96
29	Composite polymer electrolytes for fuel cell applications: filler-induced effect on water sorption and transport properties. <i>ChemPhysChem</i> , 2013 , 14, 3814-21	3.2	4
28	Effect of monobutylether ethylene glycol on Mg/Al layered double hydroxide: a physicochemical and conductivity study. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	2
27	Propyl sulfonic acid functionalization of faujasite-type zeolites: Effect on water and methanol sorption and on proton conductivity. <i>Microporous and Mesoporous Materials</i> , 2013 , 169, 128-136	5.3	20
26	Label-free impedimetric immunosensor for ultrasensitive detection of cancer marker Murine double minute 2 in brain tissue. <i>Biosensors and Bioelectronics</i> , 2013 , 39, 220-5	11.8	73
25	Simultaneous Determination of the Permeability of a Nafion Membrane to Formic Acid and Water. <i>Fuel Cells</i> , 2013 , 13, 1024-1031	2.9	2
24	Copolymers of ethylene and sulfonated norbornene for proton exchange membranes. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 2669-2676	2.5	11
23	PtRu/C-LaNiO ₃ Composite Electrodes for Electrocatalysis. <i>Journal of the Electrochemical Society</i> , 2013 , 160, F1138-F1142	3.9	6

22	Stability of ZnNiTiO ₂ and ZnTiO ₂ nanocomposite coatings in near-neutral sulphate solutions. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	10
21	DSC and DVS Investigation of Water Mobility in Nafion/Zeolite Composite Membranes for Fuel Cell Applications. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 20820-20829	3.8	41
20	Layered tetratitanate intercalating sulfanilic acid for organic/inorganic proton conductors. <i>Solid State Ionics</i> , 2012 , 227, 73-79	3.3	6
19	Preparation of PtAu Alloy Colloids by Laser Ablation in Solution and Their Characterization. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 13413-13420	3.8	82
18	3D-Percolating Model of Hydrous Ruthenium Oxide Dispersed in an Inert Polymer Matrix: An Impedance Spectroscopy Study. <i>Journal of the Electrochemical Society</i> , 2012 , 159, F507-F513	3.9	1
17	On the proton conductivity of Nafion [®] /Faujasite composite membranes for low temperature direct methanol fuel cells. <i>Journal of Power Sources</i> , 2011 , 196, 9176-9187	8.9	48
16	Faujasite zeolites as solid electrolyte for low temperature fuel cells. <i>Solid State Ionics</i> , 2011 , 194, 53-61	3.3	21
15	Zn-TiO ₂ and ZnNi-TiO ₂ Nanocomposite Coatings: Corrosion Behaviour. <i>Materials Science Forum</i> , 2010 , 636-637, 1079-1083	0.4	8
14	Investigation of carbon-supported Pt and PtCo catalysts for oxygen reduction in direct methanol fuel cells. <i>Electrochimica Acta</i> , 2009 , 54, 4844-4850	6.7	35
13	Novel copper-based anodes for solid oxide fuel cells with samaria-doped ceria electrolyte. <i>Journal of Power Sources</i> , 2008 , 183, 20-25	8.9	12
12	Dose rate effects on the radiation induced oxidation of polyethylene. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 265, 221-226	1.2	19
11	Electrocatalysis of H ₂ evolution by thermally prepared ruthenium oxide: Effect of precursors: Nitrate vs. chloride. <i>Journal of Electroanalytical Chemistry</i> , 2007 , 600, 103-112	4.1	34
10	La _{1-x} A _x Co _{1-y} FeyO ₃ (A = Ce, Sr) catalysts for the flameless combustion of methane. <i>Journal of Materials Science</i> , 2006 , 41, 4713-4719	4.3	13
9	Physicochemical Characterization of Mixed RuO ₂ /SnO ₂ Solid Solutions. <i>Chemistry of Materials</i> , 2005 , 17, 1570-1579	9.6	123
8	Effect of preparation method on activity and stability of LaMnO ₃ and LaCoO ₃ catalysts for the flameless combustion of methane. <i>Applied Catalysis B: Environmental</i> , 2005 , 55, 133-139	21.8	91
7	Electrochemical study of spinel oxide systems with nominal compositions Ni _{1-x} Cu _x Co ₂ O ₄ and NiCo _{2-y} Cu _y O ₄ . <i>Journal of Solid State Electrochemistry</i> , 2001 , 5, 57-67	2.6	40
6	Ni+RuO ₂ co-deposited electrodes for hydrogen evolution. <i>Electrochimica Acta</i> , 2000 , 45, 4195-4202	6.7	57
5	Effect of the partial replacement of Ni or Co by Cu on the electrocatalytic activity of the NiCo ₂ O ₄ spinel oxide. <i>Journal of Electroanalytical Chemistry</i> , 1999 , 464, 187-197	4.1	68

4	Oxygen evolution on NiCo ₂ Rh _x O ₄ spinel system. <i>Electrochimica Acta</i> , 1996 , 41, 1953-1959	6.7	9
3	Electrochemical behaviour of NiCo ₂ Rh _x O ₄ spinel system. <i>Electrochimica Acta</i> , 1994 , 39, 1571-1578	6.7	5
2	Oxygen evolution on BaSn _{1-x} Sb _x O ₃ Journal of the Chemical Society, Faraday Transactions, 1992 , 88, 2517-2521		2
1	Innovative approach for the synthesis of graphene/MnO ₂ nanocomposites and their electrochemical behavior. <i>Electrochemical Science Advances</i> , 2100029		0