

# Ana C Tavares

## List of Publications by Citations

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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	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> , <b>2013</b> , 50, 143-9	11.8	131
74	Physicochemical Characterization of Mixed RuO <sub>2</sub> /SnO <sub>2</sub> Solid Solutions. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 1570-1579	9.6	123
73	Selection and identification of DNA aptamers against okadaic acid for biosensing application. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 11794-801	7.8	96
72	Oxygen reduction to hydrogen peroxide on Fe <sub>3</sub> O <sub>4</sub> nanoparticles supported on Printex carbon and Graphene. <i>Electrochimica Acta</i> , <b>2015</b> , 162, 263-270	6.7	95
71	Effect of preparation method on activity and stability of LaMnO <sub>3</sub> and LaCoO <sub>3</sub> catalysts for the flameless combustion of methane. <i>Applied Catalysis B: Environmental</i> , <b>2005</b> , 55, 133-139	21.8	91
70	Preparation of PtAu Alloy Colloids by Laser Ablation in Solution and Their Characterization. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 13413-13420	3.8	82
69	Label-free impedimetric immunosensor for ultrasensitive detection of cancer marker Murine double minute 2 in brain tissue. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 39, 220-5	11.8	73
68	Catalytic activity of Fe <sub>3</sub> -Cu <sub>x</sub> O <sub>4</sub> (0 ≤ x ≤ 0.25) nanoparticles for the degradation of Amaranth food dye by heterogeneous electro-Fenton process. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 180, 434-441	21.8	68
67	Effect of the partial replacement of Ni or Co by Cu on the electrocatalytic activity of the NiCo <sub>2</sub> O <sub>4</sub> spinel oxide. <i>Journal of Electroanalytical Chemistry</i> , <b>1999</b> , 464, 187-197	4.1	68
66	Corrosion resistance of monolayer hexagonal boron nitride on copper. <i>Scientific Reports</i> , <b>2017</b> , 7, 42139	4.9	67
65	In Situ Electrochemical Generation of Hydrogen Peroxide in Alkaline Aqueous Solution by using an Unmodified Gas Diffusion Electrode. <i>ChemElectroChem</i> , <b>2015</b> , 2, 714-719	4.3	64
64	A facile synthesis of Fe <sub>3</sub> O <sub>4</sub> nanoparticles/graphene for high-performance lithium/sodium-ion batteries. <i>RSC Advances</i> , <b>2016</b> , 6, 16624-16633	3.7	61
63	Formic acid electro-oxidation at PtAu alloyed nanoparticles synthesized by pulsed laser ablation in liquids. <i>Journal of Power Sources</i> , <b>2014</b> , 248, 273-282	8.9	61
62	Ni+RuO <sub>2</sub> co-deposited electrodes for hydrogen evolution. <i>Electrochimica Acta</i> , <b>2000</b> , 45, 4195-4202	6.7	57
61	Organically functionalized titanium oxide/Nafion composite proton exchange membranes for fuel cells applications. <i>Journal of Power Sources</i> , <b>2014</b> , 248, 1127-1132	8.9	55
60	On the proton conductivity of Nafion/Ba <sub>2</sub> U <sub>2</sub> composite membranes for low temperature direct methanol fuel cells. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 9176-9187	8.9	48
59	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> , <b>2017</b> , 206, 115-126	21.8	46

58	Dopamine and ascorbic acid electro-oxidation on Au, AuPt and Pt nanoparticles prepared by pulse laser ablation in water. <i>Electrochimica Acta</i> , <b>2015</b> , 159, 174-183	6.7	46
57	Nb <sub>2</sub> O <sub>5</sub> nanoparticles supported on reduced graphene oxide sheets as electrocatalyst for the H <sub>2</sub> O <sub>2</sub> electrogeneration. <i>Journal of Catalysis</i> , <b>2015</b> , 332, 51-61	7.3	45
56	Selective electroreduction of CO <sub>2</sub> to formate on 3D [100] Pb dendrites with nanometer-sized needle-like tips. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 20747-20756	13	45
55	Au nanoparticle decorated graphene nanosheets for electrochemical immunosensing of p53 antibodies for cancer prognosis. <i>Analyst</i> , <b>2016</b> , 141, 2733-40	5	43
54	DSC and DVS Investigation of Water Mobility in Nafion/Zeolite Composite Membranes for Fuel Cell Applications. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 20820-20829	3.8	41
53	Electrochemical study of spinel oxide systems with nominal compositions Ni <sub>1-x</sub> Cu <sub>x</sub> Co <sub>2</sub> O <sub>4</sub> and NiCo <sub>2-y</sub> Cu <sub>y</sub> O <sub>4</sub> . <i>Journal of Solid State Electrochemistry</i> , <b>2001</b> , 5, 57-67	2.6	40
52	Towards high efficiency air-processed near-infrared responsive photovoltaics: bulk heterojunction solar cells based on PbS/CdS core-shell quantum dots and TiO <sub>2</sub> nanorod arrays. <i>Nanoscale</i> , <b>2015</b> , 7, 10039-49	7.7	37
51	Investigation of carbon-supported Pt and PtCo catalysts for oxygen reduction in direct methanol fuel cells. <i>Electrochimica Acta</i> , <b>2009</b> , 54, 4844-4850	6.7	35
50	Electrocatalysis of H <sub>2</sub> evolution by thermally prepared ruthenium oxide: Effect of precursors: Nitrate vs. chloride. <i>Journal of Electroanalytical Chemistry</i> , <b>2007</b> , 600, 103-112	4.1	34
49	Electroreduction of CO <sub>2</sub> to formate on amine modified Pb electrodes. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 11272-11281	13	32
48	Uncovering the nature of electroactive sites in nano architected dendritic Bi for highly efficient CO <sub>2</sub> electroreduction to formate. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 274, 119031	21.8	29
47	Biomass-derived nonprecious metal catalysts for oxygen reduction reaction: The demand-oriented engineering of active sites and structures <b>2020</b> , 2, 561-581		28
46	Graphene-Supported Substoichiometric Sodium Tantalate as a Methanol-Tolerant, Non-Noble-Metal Catalyst for the Electroreduction of Oxygen. <i>ChemCatChem</i> , <b>2015</b> , 7, 911-915	5.2	24
45	Faujasite zeolites as solid electrolyte for low temperature fuel cells. <i>Solid State Ionics</i> , <b>2011</b> , 194, 53-61	3.3	21
44	Nafion/Titanate nanotubes composites prepared by in situ crystallization and casting for direct ethanol fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 1859-1867	6.7	20
43	In Situ Fabrication of Nafion/Titanate Hybrid Electrolytes for High-Temperature Direct Ethanol Fuel Cell. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 16863-16870	3.8	20
42	Propyl sulfonic acid functionalization of faujasite-type zeolites: Effect on water and methanol sorption and on proton conductivity. <i>Microporous and Mesoporous Materials</i> , <b>2013</b> , 169, 128-136	5.3	20
41	1D/2D Cobalt-Based Nanohybrids as Electrocatalysts for Hydrogen Generation. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1908467	15.6	19

40	High Tg sulfonated insertion polynorbornene ionomers prepared by catalytic insertion polymerization. <i>Polymer</i> , <b>2016</b> , 86, 91-97	3.9	19
39	Dose rate effects on the radiation induced oxidation of polyethylene. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2007</b> , 265, 221-226	1.2	19
38	Graphene oxide/cobalt-based nanohybrid electrodes for robust hydrogen generation. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 245, 167-176	21.8	15
37	Engineering of a Low-Cost, Highly Active, and Durable Tantalate-Graphene Hybrid Electrocatalyst for Oxygen Reduction. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000075	21.8	14
36	Nafion membranes annealed at high temperature and controlled humidity: structure, conductivity, and fuel cell performance. <i>Electrochimica Acta</i> , <b>2016</b> , 196, 110-117	6.7	14
35	LaFeO <sub>3</sub> -based nanopowders prepared by a soft-hard templating approach: the effect of silica texture. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 8438-8447	13	14
34	Zirconia on Reduced Graphene Oxide Sheets: Synergistic Catalyst with High Selectivity for H <sub>2</sub> O <sub>2</sub> Electrogeneration. <i>ChemElectroChem</i> , <b>2017</b> , 4, 508-513	4.3	13
33	Investigation of the electrocatalytic activity for ethanol oxidation of Pt nanoparticles modified with small amount (8 wt%) of CeO <sub>2</sub> . <i>Journal of Electroanalytical Chemistry</i> , <b>2019</b> , 840, 367-375	4.1	13
32	La <sub>1-x</sub> A <sub>x</sub> Co <sub>1-y</sub> FeyO <sub>3</sub> (A = Ce, Sr) catalysts for the flameless combustion of methane. <i>Journal of Materials Science</i> , <b>2006</b> , 41, 4713-4719	4.3	13
31	Novel copper-based anodes for solid oxide fuel cells with samaria-doped ceria electrolyte. <i>Journal of Power Sources</i> , <b>2008</b> , 183, 20-25	8.9	12
30	Copolymers of ethylene and sulfonated norbornene for proton exchange membranes. <i>Journal of Polymer Science Part A</i> , <b>2013</b> , 51, 2669-2676	2.5	11
29	Stability of ZnNiTiO <sub>2</sub> and ZnTiO <sub>2</sub> nanocomposite coatings in near-neutral sulphate solutions. <i>Journal of Nanoparticle Research</i> , <b>2012</b> , 14, 1	2.3	10
28	Probing the influence of graphene oxide sheets size on the performance of label-free electrochemical biosensors. <i>Scientific Reports</i> , <b>2020</b> , 10, 13612	4.9	10
27	AC impedance spectroscopy investigation of carbon supported Pt <sub>3</sub> Co and Pt cathode catalysts in direct methanol fuel cell. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 8026-8033	6.7	9
26	Oxygen evolution on NiCo <sub>2</sub> RhxO <sub>4</sub> spinel system. <i>Electrochimica Acta</i> , <b>1996</b> , 41, 1953-1959	6.7	9
25	Facile synthesis of Zr- and Ta-based catalysts for the oxygen reduction reaction. <i>Chinese Journal of Catalysis</i> , <b>2015</b> , 36, 484-489	11.3	8
24	Zn-TiO <sub>2</sub> and ZnNi-TiO <sub>2</sub> Nanocomposite Coatings: Corrosion Behaviour. <i>Materials Science Forum</i> , <b>2010</b> , 636-637, 1079-1083	0.4	8
23	Interplay between $\beta$ -relaxation and morphology transition of perfluorosulfonate ionomer membranes. <i>Journal of Power Sources</i> , <b>2015</b> , 293, 859-867	8.9	7

22	Layered tetratitanate intercalating sulfanilic acid for organic/inorganic proton conductors. <i>Solid State Ionics</i> , <b>2012</b> , 227, 73-79	3.3	6
21	PtRu/C-LaNiO <sub>3</sub> Composite Electrodes for Electrocatalysis. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, F1138-F1142	3.9	6
20	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> , <b>2020</b> , 22, 13764-13779	2.6	5
19	Electrochemical behaviour of NiCo <sub>2</sub> & RhxO <sub>4</sub> spinel system. <i>Electrochimica Acta</i> , <b>1994</b> , 39, 1571-1578	6.7	5
18	Composite polymer electrolytes for fuel cell applications: filler-induced effect on water sorption and transport properties. <i>ChemPhysChem</i> , <b>2013</b> , 14, 3814-21	3.2	4
17	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> , <b>2020</b> , 362, 136946	6.7	4
16	Progress in the electrochemical reduction of CO <sub>2</sub> on hierarchical dendritic metal electrodes. <i>Current Opinion in Electrochemistry</i> , <b>2020</b> , 23, 145-153	7.2	3
15	Effect of Graphene Oxide Sheet Size on the Response of a Label-free Voltammetric Immunosensor for Cancer Marker VEGF. <i>Electroanalysis</i> , <b>2020</b> , 32, 2205-2212	3	3
14	Understanding the Improved Activity of Dendritic Sn <sub>1</sub> Pb <sub>3</sub> Alloy for the CO <sub>2</sub> Electrochemical Reduction: A Computational Experimental Investigation. <i>ACS Catalysis</i> , <b>2020</b> , 10, 10726-10734	13.1	3
13	Electrochemical characterization of graphene-type materials obtained by electrochemical exfoliation of graphite. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 887, 115084	4.1	3
12	Effect of monobutylether ethylene glycol on Mg/Al layered double hydroxide: a physicochemical and conductivity study. <i>Journal of Nanoparticle Research</i> , <b>2013</b> , 15, 1	2.3	2
11	Simultaneous Determination of the Permeability of a Nafion Membrane to Formic Acid and Water. <i>Fuel Cells</i> , <b>2013</b> , 13, 1024-1031	2.9	2
10	Oxygen evolution on BaSn <sub>1-x</sub> SbxO <sub>3</sub> (0 Journal of the Chemical Society, Faraday Transactions, <b>1992</b> , 88, 2517-2521		2
9	Graphene oxide/reduced graphene oxide films as protective barriers on lead against differential aeration corrosion induced by water drops. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 5412-5420	5.1	2
8	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> , <b>2018</b> , 1, 2565-2575	6.1	2
7	10. Solid polymer proton conducting electrolytes for fuel cells <b>2014</b> , 207-240		1
6	3D-Percolating Model of Hydrous Ruthenium Oxide Dispersed in an Inert Polymer Matrix: An Impedance Spectroscopy Study. <i>Journal of the Electrochemical Society</i> , <b>2012</b> , 159, F507-F513	3.9	1
5	Au(001) Thin Films: Impact of Structure and Mosaicity on the Oxygen Reduction Reaction in Alkaline Medium. <i>ACS Catalysis</i> , <b>2022</b> , 12, 1664-1676	13.1	0

- 4 Innovative approach for the synthesis of graphene/MnO<sub>2</sub> nanocomposites and their electrochemical behavior. *Electrochemical Science Advances*, 2100029 ○
- 3 Transmission line model of mixed ionic and electronic conductor: the case of hydrous ruthenium oxide. *Journal of Solid State Electrochemistry*, **2014**, 18, 2913-2920 2.6
- 2 Steady-State Voltammetric Characterization and Simulation-Aided Study of the Mass Transfer Enhancement at Conical W/WO<sub>2</sub> Ultramicroelectrodes. *Electrochimica Acta*, **2021**, 139524 6.7
- 1 The Role of Activation Process on Perovskites-Type Oxides As Electrocatalysts for Oxygen Evolution Reaction. *ECS Meeting Abstracts*, **2020**, MA2020-01, 1566-1566 ○