

Pedro Martins

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.

44
papers

4,179
citations

23
h-index

49
g-index

49
ext. papers

5,171
ext. citations

11.6
avg, IF

5.82
L-index

#	Paper	IF	Citations
44	Employing the Dynamics of the Electrochemical Interface in Aqueous Zinc-Ion Battery Cathodes. <i>Advanced Functional Materials</i> , 2021 , 31, 2102135	15.6	9
43	Exploring the Interface of Skin-Layered Titanium Fibers for Electrochemical Water Splitting. <i>Advanced Energy Materials</i> , 2021 , 11, 2002926	21.8	17
42	Dynamically Stable Active Sites from Surface Evolution of Perovskite Materials during the Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2741-2750	16.4	58
41	A percolation theory for designing corrosion-resistant alloys. <i>Nature Materials</i> , 2021 , 20, 789-793	27	7
40	Improved Rate for the Oxygen Reduction Reaction in a Sulfuric Acid Electrolyte using a Pt(111) Surface Modified with Melamine. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 3369-3376	9.5	12
39	The role of an interface in stabilizing reaction intermediates for hydrogen evolution in aprotic electrolytes. <i>Chemical Science</i> , 2020 , 11, 3914-3922	9.4	12
38	Dynamic stability of active sites in hydr(oxy)oxides for the oxygen evolution reaction. <i>Nature Energy</i> , 2020 , 5, 222-230	62.3	241
37	Electrokinetic Analysis of Poorly Conductive Electrocatalytic Materials. <i>ACS Catalysis</i> , 2020 , 10, 4990-4996	5.1	21
36	Eliminating dissolution of platinum-based electrocatalysts at the atomic scale. <i>Nature Materials</i> , 2020 , 19, 1207-1214	27	57
35	Active electrochemical interfaces stabilized through self-organized potential oscillations. <i>Electrochemistry Communications</i> , 2020 , 121, 106853	5.1	3
34	Past, present, and future of lead-acid batteries. <i>Science</i> , 2020 , 369, 923-924	33.3	38
33	Conceptual Representations for Computational Concept Creation. <i>ACM Computing Surveys</i> , 2019 , 52, 1-33	13.4	11
32	Emojinating: Evolving Emoji Blends. <i>Lecture Notes in Computer Science</i> , 2019 , 110-126	0.9	3
31	Hydrogen evolution reaction on copper: Promoting water dissociation by tuning the surface oxophilicity. <i>Electrochemistry Communications</i> , 2019 , 100, 30-33	5.1	52
30	Electrocatalytic transformation of HF impurity to H ₂ and LiF in lithium-ion batteries. <i>Nature Catalysis</i> , 2018 , 1, 255-262	36.5	83
29	Advances in Magnetic Nanoparticles for Biomedical Applications. <i>Advanced Healthcare Materials</i> , 2018 , 7, 1700845	10.1	277
28	Electroactive poly(vinylidene fluoride)-based structures for advanced applications. <i>Nature Protocols</i> , 2018 , 13, 681-704	18.8	320

27	Dynamics of electrochemical Pt dissolution at atomic and molecular levels. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 819, 123-129	4.1	51
26	Real-Time Monitoring of Cation Dissolution/Deintercalation Kinetics from Transition-Metal Oxides in Organic Environments. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4935-4940	6.4	11
25	Low-field giant magneto-ionic response in polymer-based nanocomposites. <i>Nanoscale</i> , 2018 , 10, 15747-15754	15.7	24
24	Magnetolectric coupling in nanoscale 0-1 connectivity. <i>Nanoscale</i> , 2018 , 10, 17370-17377	7.7	6
23	Local probing of magnetolectric properties of PVDF/FeO electrospun nanofibers by piezoresponse force microscopy. <i>Nanotechnology</i> , 2017 , 28, 065707	3.4	28
22	High-Performance RhP Electrocatalyst for Efficient Water Splitting. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5494-5502	16.4	267
21	Multifunctional gold-nanoparticles: A nanovectorization tool for the targeted delivery of novel chemotherapeutic agents. <i>Journal of Controlled Release</i> , 2017 , 245, 52-61	11.7	43
20	Wide-Range Magnetolectric Response on Hybrid Polymer Composites Based on Filler Type and Content. <i>Polymers</i> , 2017 , 9,	4.5	16
19	Metallic Glass/PVDF Magnetolectric Laminates for Resonant Sensors and Actuators: A Review. <i>Sensors</i> , 2017 , 17,	3.8	45
18	Double layer effects in electrocatalysis: The oxygen reduction reaction and ethanol oxidation reaction on Au(1 1 1), Pt(1 1 1) and Ir(1 1 1) in alkaline media containing Na and Li cations. <i>Catalysis Today</i> , 2016 , 262, 41-47	5.3	61
17	Energy and fuels from electrochemical interfaces. <i>Nature Materials</i> , 2016 , 16, 57-69	27	1064
16	Magnetically Controlled Drug Release System through Magnetomechanical Actuation. <i>Advanced Healthcare Materials</i> , 2016 , 5, 3027-3034	10.1	19
15	Effects of the fibers distribution in the human eardrum: A biomechanical study. <i>Journal of Biomechanics</i> , 2016 , 49, 1518-1523	2.9	8
14	Relationships between Atomic Level Surface Structure and Stability/Activity of Platinum Surface Atoms in Aqueous Environments. <i>ACS Catalysis</i> , 2016 , 6, 2536-2544	13.1	146
13	Design of active and stable Co-Mo-Sx chalcogels as pH-universal catalysts for the hydrogen evolution reaction. <i>Nature Materials</i> , 2016 , 15, 197-203	27	683
12	POxylated Polyurea Dendrimers: Smart Core-Shell Vectors with IC50 Lowering Capacity. <i>Macromolecular Bioscience</i> , 2015 , 15, 1045-51	5.5	25
11	Water as a Promoter and Catalyst for Dioxygen Electrochemistry in Aqueous and Organic Media. <i>ACS Catalysis</i> , 2015 , 5, 6600-6607	13.1	92
10	When Small is Big: The Role of Impurities in Electrocatalysis. <i>Topics in Catalysis</i> , 2015 , 58, 1174-1180	2.3	23

9	Electrocatalytic Activity and Stability of Platinum Nanoparticles Supported on Carbon-Molybdenum Oxides for the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2015 , 2, 1298-1306	4.3	16
8	Covalent coupling of gum arabic onto superparamagnetic iron oxide nanoparticles for MRI cell labeling: physicochemical and in vitro characterization. <i>Contrast Media and Molecular Imaging</i> , 2015 , 10, 320-8	3.2	15
7	(Plenary) Substrate Effects on the Activity and Stability of Nanoparticulated Electrocatalysts for the H ₂ /O ₂ Fuel Cell Reactions. <i>ECS Transactions</i> , 2014 , 64, 47-60	1	
6	Patterns of distribution and abundance of the stalked barnacle (<i>Pollicipes pollicipes</i>) in the central and southwest coast of continental Portugal. <i>Journal of Sea Research</i> , 2013 , 83, 187-194	1.9	15
5	The influence of muscles activation on the dynamical behaviour of the tympano-ossicular system of the middle ear. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013 , 16, 392-402	2.1	17
4	Influence of ferrite nanoparticle type and content on the crystallization kinetics and electroactive phase nucleation of poly(vinylidene fluoride). <i>Langmuir</i> , 2011 , 27, 7241-9	4	109
3	The clinical use of exhaled nitric oxide in wheezing children. <i>Revista Portuguesa De Pneumologia</i> , 2008 , 14, 195-218		
2	Sources of processed lipoaspirate cells: influence of donor site on cell concentration. <i>Plastic and Reconstructive Surgery</i> , 2008 , 122, 614-618	2.7	114
1	Synthesis and cytotoxic profile of 3,4-methylenedioxyamphetamine ("ecstasy") and its metabolites on undifferentiated PC12 cells: A putative structure-toxicity relationship. <i>Chemical Research in Toxicology</i> , 2006 , 19, 1294-304	4	51