

Francisco Javier Recio

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.

38 papers	904 citations	19 h-index	29 g-index
42 ext. papers	1,031 ext. citations	5.2 avg, IF	4.18 L-index

#	Paper	IF	Citations
38	Electrodeposition of homogeneous and adherent polypyrrole on copper for corrosion protection. <i>Electrochimica Acta</i> , 2007 , 52, 6496-6501	6.7	82
37	The preparation of PbO ₂ coatings on reticulated vitreous carbon for the electro-oxidation of organic pollutants. <i>Electrochimica Acta</i> , 2011 , 56, 5158-5165	6.7	73
36	Effect of the polymer layers and bilayers on the corrosion behaviour of mild steel: Comparison with polymers containing Zn microparticles. <i>Progress in Organic Coatings</i> , 2005 , 54, 285-291	4.8	66
35	Biomimetic reduction of O ₂ in an acid medium on iron phthalocyanines axially coordinated to pyridine anchored on carbon nanotubes. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12054-12059	13	56
34	Towards a unified way of comparing the electrocatalytic activity MN ₄ macrocyclic metal catalysts for O ₂ reduction on the basis of the reversible potential of the reaction. <i>Electrochemistry Communications</i> , 2014 , 41, 24-26	5.1	56
33	Effect of RVC porosity on the performance of PbO ₂ composite coatings with titanate nanotubes for the electrochemical oxidation of azo dyes. <i>Electrochimica Acta</i> , 2016 , 204, 9-17	6.7	50
32	Decolorization of Methyl Orange Dye at IrO ₂ -SnO ₂ -Sb ₂ O ₅ Coated Titanium Anodes. <i>Chemical Engineering and Technology</i> , 2013 , 36, 123-129	2	39
31	Elucidating the mechanism of the oxygen reduction reaction for pyrolyzed Fe-N-C catalysts in basic media. <i>Electrochemistry Communications</i> , 2019 , 102, 78-82	5.1	34
30	Multilayers of PANi/n-TiO ₂ and PANi on carbon steel and welded carbon steel for corrosion protection. <i>Surface and Coatings Technology</i> , 2016 , 289, 23-28	4.4	33
29	A novel environmentally friendly method in solid phase for in situ synthesis of chitosan-gold bionanocomposites with catalytic applications. <i>Carbohydrate Polymers</i> , 2019 , 207, 533-541	10.3	33
28	Hydrogen embrittlement risk of high strength galvanized steel in contact with alkaline media. <i>Corrosion Science</i> , 2011 , 53, 2853-2860	6.8	32
27	Development of electrochemical sensors for the determination of selenium using gold nanoparticles modified electrodes. <i>Sensors and Actuators B: Chemical</i> , 2015 , 220, 263-269	8.5	31
26	Corrosion of the zinc negative electrode of zinc/berium hybrid redox flow batteries in methanesulfonic acid. <i>Journal of Applied Electrochemistry</i> , 2014 , 44, 1025-1035	2.6	30
25	Mass transfer to a nanostructured nickel electrodeposit of high surface area in a rectangular flow channel. <i>Electrochimica Acta</i> , 2013 , 90, 507-513	6.7	30
24	Comparison of the catalytic activity for O reduction of Fe and Co MN ₄ adsorbed on graphite electrodes and on carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 20441-20450	3.6	29
23	Tuning the Fe(II)/(I) formal potential of the FeN ₄ catalysts adsorbed on graphite electrodes to the reversible potential of the reaction for maximum activity: Hydrazine oxidation. <i>Electrochemistry Communications</i> , 2013 , 30, 34-37	5.1	25
22	Optimization of the electrocatalytic activity of MN ₄ -macrocyclics adsorbed on graphite electrodes for the electrochemical oxidation of L-cysteine by tuning the M (II)/(I) formal potential of the catalyst: an overview. <i>Electrochimica Acta</i> , 2014 , 140, 482-488	6.7	24

21	Linear versus volcano correlations for the electrocatalytic oxidation of hydrazine on graphite electrodes modified with MN4 macrocyclic complexes. <i>Electrochimica Acta</i> , 2014 , 140, 314-319	6.7	24
20	Experimental reactivity descriptors of M-N-C catalysts for the oxygen reduction reaction. <i>Electrochimica Acta</i> , 2020 , 332, 135340	6.7	24
19	Optimizing the reactivity of surface confined cobalt N4-macrocyclics for the electrocatalytic oxidation of l-cysteine by tuning the Co(II)/(I) formal potential of the catalyst. <i>Electrochimica Acta</i> , 2014 , 126, 37-41	6.7	15
18	Reactivity indexes for the electrocatalytic oxidation of hydrogen peroxide promoted by several ligand-substituted and unsubstituted Co phthalocyanines adsorbed on graphite. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 765, 22-29	4.1	13
17	In Search of the Best Iron N4-Macrocyclic Catalysts Adsorbed on Graphite Electrodes and on Multi-walled Carbon Nanotubes for the Oxidation of l-Cysteine by Adjusting the Fe(II)/(I) Formal Potential of the Complex. <i>Electrocatalysis</i> , 2014 , 5, 426-437	2.7	13
16	Synthesis and characterization of FePt nanoparticles by high energy ball milling with and without surfactant. <i>Journal of Alloys and Compounds</i> , 2012 , 536, S13-S16	5.7	13
15	Adsorption of chromium(VI) onto electrochemically obtained magnetite nanoparticles. <i>International Journal of Environmental Science and Technology</i> , 2015 , 12, 4017-4024	3.3	12
14	Hydrogen embrittlement risk in cold-drawn stainless steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 564, 57-64	5.3	12
13	Optical Resonances of Colloidal Gold Nanorods: From Seeds to Chemically Thiolated Long Nanorods. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 7856-7864	3.8	8
12	Theoretical and Experimental Reactivity Predictors for the Electrocatalytic Activity of Copper Phenanthroline Derivatives for the Reduction of Dioxygen. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 19468-19478	3.8	8
11	Recent advances of Fe _N C pyrolyzed catalysts for the oxygen reduction reaction. <i>Current Opinion in Electrochemistry</i> , 2020 , 23, 154-161	7.2	8
10	Pitting corrosion and stress corrosion cracking study in high strength steels in alkaline media. <i>Journal of Solid State Electrochemistry</i> , 2016 , 20, 1223-1227	2.6	5
9	Corrosion Behavior of Biocompatible Stainless Steels in Physiological Medium for Non-invasive Diagnosis of Small Fiber Neuropathies Applications. <i>Electroanalysis</i> , 2016 , 28, 380-384	3	4
8	Reactivity descriptors for Cu bis-phenanthroline catalysts for the hydrogen peroxide reduction reaction. <i>Electrochimica Acta</i> , 2020 , 357, 136881	6.7	4
7	Nanostructured Fe-N-C pyrolyzed catalyst for the H ₂ O ₂ electrochemical sensing. <i>Electrochimica Acta</i> , 2021 , 387, 138468	6.7	4
6	Electrocatalytic Activity of Nanohybrids Based on Carbon Nanomaterials and MFe ₂ O ₄ (M=Co, Mn) towards the Reduction of Hydrogen Peroxide. <i>Electroanalysis</i> , 2018 , 30, 1621-1626	3	2
5	Matching the Catalyst Co(II)/(I) Formal Potential of a Macrocyclic Complex to the Reversible Potential of Hydrazine Oxidation for the Highest Activity. <i>ECS Electrochemistry Letters</i> , 2013 , 2, H16-H18		2
4	Evidence of cathodic peroxydisulfate activation via electrochemical reduction at Fe(II) sites of magnetite-decorated porous carbon: Application to dye degradation in water. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 902, 115807	4.1	2

3	Green Synthesis and Electrochemical Properties of Mono- and Dimers Derived from Phenylaminoisoquinolinequinones. <i>Molecules</i> , 2019 , 24,	4.8	2
2	Improved magnetosensor for the detection of hydrogen peroxide and glucose. <i>Journal of Solid State Electrochemistry</i> , 2021 , 25, 231-236	2.6	2
1	Strategies to improve the catalytic activity and stability of bioinspired Cu molecular catalysts for the ORR. <i>Current Opinion in Electrochemistry</i> , 2022 , 101035	7.2	1