

# Jorge Pavez

## List of Publications by Year in descending order

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51  
papers

1,051  
citations

471509

17  
h-index

434195

31  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1354  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning the Covering on Gold Surfaces by Grafting Amino-Aryl Films Functionalized with Fe(II) Phthalocyanine: Performance on the Electrocatalysis of Oxygen Reduction. <i>Molecules</i> , 2021, 26, 1631.	3.8	3
2	Artificial Chemical Nuclease and Cytotoxic Activity of a Mononuclear Copper(I) Complex and a Related Binuclear Double-Stranded Helicate. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 4103-4112.	2.0	3
3	Synthesis of mono/dinuclear rhenium( $\text{V}$ ) tricarbonyl substituted with 4-mercaptopyridine related ligands: spectral and theoretical evidence of thiolate/thione interconversion. <i>New Journal of Chemistry</i> , 2020, 44, 14171-14179.	2.8	5
4	Chitosan-Based Nanoparticles for Intracellular Delivery of ISAV Fusion Protein cDNA into Melanoma Cells: A Path to Develop Oncolytic Anticancer Therapies. <i>Mediators of Inflammation</i> , 2020, 2020, 1-13.	3.0	13
5	Chitosan-Based Delivery of Avian Reovirus Fusogenic Protein p10 Gene: <i>In Vitro</i> and <i>In Vivo</i> Studies towards a New Vaccine against Melanoma. <i>BioMed Research International</i> , 2020, 2020, 1-11.	1.9	6
6	Molecular recognition: Evidence of the redox role of ferrocenyl-imine derivatives in the presence of copper (II) ions. <i>Electrochimica Acta</i> , 2019, 318, 479-485.	5.2	4
7	Surfaces based on amino acid functionalized polyelectrolyte films towards active surfaces for enzyme immobilization. <i>Materials Science and Engineering C</i> , 2019, 104, 109938.	7.3	7
8	Applying the voltammetry of microparticles to assess the metal ion excess following a precipitation reaction: the determination of arsenic. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 3225-3229.	2.5	0
9	Amino Acid-Functionalized Polyelectrolyte Films as Bioactive Surfaces for Cell Adhesion. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 19751-19762.	8.0	5
10	Characterization of poly-d-mannuronate and poly-l-gulonate block fractions from sodium alginate and preparation of hydrogels with poly(vinylalcohol). <i>International Journal of Biological Macromolecules</i> , 2018, 111, 935-946.	7.5	12
11	Large scale cathodic exfoliation of graphite using deep eutectic solvent and water mixture. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2018, 26, 123-129.	2.1	13
12	Inhibiting Pathogen Surface Adherence by Multilayer Polyelectrolyte Films Functionalized with Glucofuranose Derivatives. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 28147-28158.	8.0	6
13	Tailoring electroactive surfaces by non-template molecular assembly. Towards electrooxidation of L-cysteine. <i>Electrochimica Acta</i> , 2017, 254, 201-213.	5.2	2
14	Gold nanostructures on self-assembled monolayers activity for epinephrine, noradrenaline and dopamine. <i>Journal of Electroanalytical Chemistry</i> , 2017, 799, 349-357.	3.8	15
15	Synthesis and characterization of organometallic chalcones functionalized with a crown ether fragment. Spectroscopic and electrochemical behavior. <i>Journal of Organometallic Chemistry</i> , 2017, 827, 32-40.	1.8	15
16	In vitro release of metformin hydrochloride from sodium alginate/polyvinyl alcohol hydrogels. <i>Carbohydrate Polymers</i> , 2017, 155, 182-191.	10.2	107
17	Multiscale Approach to the Study of the Electronic Properties of Two Thiophene Curcuminoid Molecules. <i>Chemistry - A European Journal</i> , 2016, 22, 12808-12818.	3.3	18
18	Polyaniline nanostructure electrode: morphological control by a hybrid template. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 1175-1180.	2.5	3

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19	Carrageenans from nuclear phases of subantarctic <i>Mazzaella laminarioides</i> (Gigartinales, Rhodophyta) and graft copolymerization of alkali-modified carrageenan with acrylamide. <i>Journal of Applied Phycology</i> , 2016, 28, 1275-1286.	2.8	11
20	Preparation and swelling properties of homopolymeric alginic acid fractions/poly( <i>N</i> -isopropyl) Tj ETQq0 0 Q,rgBT /Overlock 10 T	2.6	15
21	Synthesis, reactivity, electrochemical behaviour, and molecular structure of crown ether cyrhetrene complexes. <i>Journal of Organometallic Chemistry</i> , 2015, 788, 42-48.	1.8	9
22	Building Nanoscale Molecular Wires Exploiting Electrocatalytic Interactions. <i>Electrochimica Acta</i> , 2015, 179, 611-617.	5.2	19
23	Stripping voltammetry microprobe (SPV): Substantial improvements of the protocol. <i>Journal of Electroanalytical Chemistry</i> , 2015, 745, 61-65.	3.8	11
24	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.	5.2	20
25	New evidence on the role of catalase in <i>Escherichia coli</i> -mediated biocorrosion. <i>Corrosion Science</i> , 2013, 67, 32-41.	6.6	32
26	Electrocatalytic activity of modified gold electrodes based on self-assembled monolayers of 4-mercaptopyridine and 4-aminothiophenol on Au(111) surfaces chemically functionalized with substituted and unsubstituted iron phthalocyanines. <i>Electrochimica Acta</i> , 2013, 114, 7-13.	5.2	20
27	SIMULTANEOUS ELECTROCHEMICAL DETECTION OF DOPAMINE, ASCORBIC ACID AND URIC ACID USING COPPER-PHTHALOCYANINE FUNCTIONALIZED MWCNTS. <i>Journal of the Chilean Chemical Society</i> , 2013, 58, 2117-2121.	1.2	15
28	A Possible Interpretation for the High Catalytic Activity of Heat-Treated Non-Precious Metal Nx/C Catalysts for O <sub>2</sub> Reduction in Terms of Their Formal Potentials. <i>Electrochemical and Solid-State Letters</i> , 2012, 15, B90.	2.2	52
29	Preparation and antibacterial properties of hybrid-zirconia films with silver nanoparticles. <i>Materials Chemistry and Physics</i> , 2012, 137, 396-403.	4.0	16
30	Reinterpreting the Role of the Catalyst Formal Potential. The case of Thiocyanate Electrooxidation Catalyzed by CoN <sub>4</sub> -Macrocyclic Complexes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7091-7098.	3.1	13
31	Enhancement of the Catalytic Activity of Fe Phthalocyanine for the Reduction of O <sub>2</sub> Anchored to Au(111) via Conjugated Self-Assembled Monolayers of Aromatic Thiols As Compared to Cu Phthalocyanine. <i>Journal of Physical Chemistry C</i> , 2012, 116, 15329-15341.	3.1	69
32	Adhesion, Stretching, and Electrical Charge Assessment of Dermatan Sulfate Molecules by Colloidal Probes. <i>Langmuir</i> , 2012, 28, 9506-9514.	3.5	2
33	Inverted Linear Correlation Between the Catalytic Activity of Iron Phthalocyanines and the Formal Potential of the Catalyst in the Electrooxidation of L-Cysteine. <i>Electrocatalysis</i> , 2012, 3, 153-159.	3.0	4
34	Adsorption Behavior of Hydrophobically Modified Polyelectrolytes onto Amino- or Methyl-Terminated Surfaces. <i>Langmuir</i> , 2011, 27, 13524-13532.	3.5	19
35	Enhanced catalytic activity of Fe phthalocyanines linked to Au(111) via conjugated self-assembled monolayers of aromatic thiols for O <sub>2</sub> reduction. <i>Electrochemistry Communications</i> , 2011, 13, 1182-1185.	4.7	32
36	A silanol-based nanocomposite coating for protection of AA-2024 aluminium alloy. <i>Electrochimica Acta</i> , 2011, 56, 7586-7595.	5.2	38

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37	Optimizing the Electrocatalytic Activity of Surface Confined Co Macrocyclics for the Electrooxidation of Thiocyanate at pH 4. <i>Electroanalysis</i> , 2011, 23, 711-718.	2.9	2
38	Reactivity trends of surface-confined Co-tetraphenyl porphyrins and vitamin B12 for the oxidation of 2-aminoethanethiol: Comparison with Co-phthalocyanines and oxidation of other thiols. <i>Journal of Electroanalytical Chemistry</i> , 2010, 639, 88-94.	3.8	17
39	Influence of 8-aminoquinoline on the corrosion behaviour of copper in 0.1M NaCl. <i>Electrochimica Acta</i> , 2010, 55, 2782-2792.	5.2	16
40	Tuning the Redox Potential of Surface-Confined Macrocyclic Complexes for the Highest Catalytic Activity in Electron Transfer Processes. <i>ECS Meeting Abstracts</i> , 2010, , .	0.0	0
41	Electrochemical Transducer Based on Nanostructured Polyaniline Films Obtained on Functionalized Self Assembled Monolayers of 4-Aminothiophenol. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 522, 112/[412]-124/[424].	0.9	3
42	A zirconia-polyester glycol coating on differently pretreated AISI 316L stainless steel: corrosion behavior in chloride solution. <i>Journal of Solid State Electrochemistry</i> , 2009, 13, 1327-1337.	2.5	11
43	Copper modified chitosan for protection of AA-2024. <i>Surface and Coatings Technology</i> , 2007, 201, 5973-5978.	4.8	29
44	Effects of alginic acid from marine algae on calcium carbonate electrodeposited coating. <i>Journal of Crystal Growth</i> , 2005, 282, 438-447.	1.5	17
45	Homogeneous calcium carbonate coating obtained by electrodeposition: in situ atomic force microscope observations. <i>Electrochimica Acta</i> , 2005, 50, 3488-3494.	5.2	11
46	Effect of film thickness on the electro-reduction of molecular oxygen on electropolymerized cobalt tetra-aminophthalocyanine films. <i>Journal of Solid State Electrochemistry</i> , 2005, 9, 21-29.	2.5	29
47	Cobalt Phthalocyanine-Based Molecular Materials for the Electrocatalysis and Electroanalysis of 2-Mercaptoethanol, 2-Mercaptoethanesulfonic Acid, Reduced Glutathione and L-Cysteine. <i>Electroanalysis</i> , 2003, 15, 779-785.	2.9	54
48	Electrooxidation of 2-chlorophenol on polyNiTSPc-modified glassy carbon electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2003, 553, 147-156.	3.8	79
49	Electro-oxidation of 2-mercaptoethanol on adsorbed monomeric and electropolymerized cobalt tetra-aminophthalocyanine films. Effect of film thickness. <i>Journal of Electroanalytical Chemistry</i> , 2001, 497, 75-83.	3.8	127
50	ANODIZING OF Al 2024-T3 IN MIXTURES OF SULPHURIC-BORIC ACIDS. <i>Journal of the Chilean Chemical Society</i> , 2001, 46, .	0.1	4
51	Electrochemically Induced Metalation of Polymeric Phthalocyanines. <i>Journal of the American Chemical Society</i> , 1998, 120, 4887-4888.	13.7	17