David Gimenez-Romero

List of Publications by Citations

49 papers	797 citations	19 h-index	26 g-index
57 ext. papers	856 ext. citations	5.3 avg, IF	3.51 L-index

#	Paper	IF	Citations
49	Dual-polarization interferometry: a novel technique to light up the nanomolecular world. *Chemical Reviews*, **2015**, 115, 265-94	68.1	59
48	Synchrotron Structural Characterization of Electrochemically Synthesized Hexacyanoferrates Containing K+: A Revisited Analysis of Electrochemical Redox. *Journal of Physical Chemistry C*, **2008**, 112, 13264-13271	3.8	45
47	Vis/NIR spectroelectrochemical analysis of poly-(Azure A) on ITO electrode. *Electrochemistry Communications*, **2006**, 8, 549-553	5.1	41
46	EIS and Ac-Electrogravimetry Study of PB Films in KCl, NaCl, and CsCl Aqueous Solutions. *Journal of Physical Chemistry B*, **2003**, 107, 11321-11330	3.4	39
45	Changeover during in situ compositional modulation of hexacyanoferrate (Prussian Blue) material. *Journal of the American Chemical Society*, **2006**, 128, 17146-52	16.4	38
44	EQCM and EIS studies of Znaq2++2e⁻⇄Zn0 electrochemical reaction in moderated acid medium. *Journal of Electroanalytical Chemistry*, **2003**, 558, 25-33	4.1	36
43	Electromechanical phase transition in hexacyanometallate nanostructure (Prussian Blue). *Journal of the American Chemical Society*, **2007**, 129, 7121-6	16.4	33
42	Label-free piezoelectric biosensor for prognosis and diagnosis of Systemic Lupus Erythematosus. *Biosensors and Bioelectronics*, **2017**, 90, 166-173	11.8	27
41	Innovative Combination of Three Alternating Current Relaxation Techniques: Electrical Charge, Mass, and Color Impedance Spectroscopy. Part II: Prussian Blue ? Everitt□ Salt Process. *Journal of Physical Chemistry C*, **2009**, 113, 8438-8446	3.8	27
40	Cyclic voltammetric generation and electrochemical quartz crystal microbalance characterization of passive layer of nickel in a weakly acid medium. *Journal of Solid State Electrochemistry*, **2005**, 9, 684-690	2.6	27
39	An approach to the electrochemical activity of poly-(phenothiazines) by complementary electrochemical impedance spectroscopy and Vis□NIR spectroscopy. *Electrochimica Acta*, **2010**, 55, 6128-6135	6.7	26
38	Mechanism for interplay between electron and ionic fluxes in KhFek[Fe(CN)6]l.mH2O compounds. *Journal of Physical Chemistry B*, **2006**, 110, 2715-22	3.4	26
37	Kinetic calculations of the Ni anodic dissolution from EIS. *Journal of Solid State Electrochemistry*, **2005**, 9, 83-90	2.6	24
36	Graphical analysis of electrochemical impedance spectroscopy of two consecutive irreversible electron transfers. 1. Theoretical study of the anodic dissolution of metals. *Journal of Physical Chemistry B*, **2005**, 109, 4584-92	3.4	23
35	Spectroelectrochemical Identification of the Active Sites for Protons and Anions Insertions into Poly-(Azure A) Thin Polymer Films. *Journal of Physical Chemistry C*, **2007**, 111, 14230-14237	3.8	22
34	Electronic Perspective on the Electrochemistry of Prussian Blue Films. *Journal of the Electrochemical Society*, **2009**, 156, P74	3.9	21
33	Innovative Combination of Three Alternating Current Relaxation Techniques: Electrical Charge, Mass, and Color Impedance Spectroscopy. Part I: The Tool. *Journal of Physical Chemistry C*, **2009**, 113, 8430-8437	3.8	21

32	Electrochromic Switching Mechanism of Iron Hexacyanoferrates Molecular Compounds: The Role of Fe2+(CN)6 Vacancies. *Journal of Physical Chemistry C*, **2009**, 113, 9916-9920	3.8	21
31	Kinetic aspects of ion exchange in KhFek[Fe(CN)6]l*mH2O compounds: a combined electrical and mass transfer functions approach. *Journal of Physical Chemistry B*, **2006**, 110, 19352-63	3.4	20
30	Kinetics of zinc anodic dissolution from the EIS characteristic points. *Electrochemistry Communications*, **2003**, 5, 722-727	5.1	19
29	Calculation of the surface concentration of Zn(I) from the anodic voltammetric peak of zinc combined with the QCM results. *Electrochemistry Communications*, **2004**, 6, 903-907	5.1	18
28	Calculation of the rate constants of nickel electrodissolution in acid medium from EIS. *Journal of Solid State Electrochemistry*, **2006**, 10, 920-928	2.6	16
27	Analysis of an impedance function of zinc anodic dissolution. *Journal of Electroanalytical Chemistry*, **2004**, 572, 235-247	4.1	15
26	Resonant x-ray diffraction as a tool to calculate mixed valence ratios: Application to Prussian Blue materials. *Applied Physics Letters*, **2008**, 92, 264103	3.4	14
25	Insights on the Mechanism of Insoluble-to-Soluble Prussian Blue Transformation. *Journal of the Electrochemical Society*, **2009**, 156, P149	3.9	12
24	Formation of a Copper Oxide Layer as a Key Step in the Metallic Copper Deposition Mechanism. *Journal of Physical Chemistry C*, **2008**, 112, 4275-4280	3.8	10
23	Correlation between the fractal dimension of the electrode surface and the EIS of the zinc anodic dissolution for different kinds of galvanized steel. *Electrochemistry Communications*, **2004**, 6, 148-152	5.1	10
22	INSEL: an in silico method for optimizing and exploring biorecognition assays. *Chemical Communications*, **2013**, 49, 10868-70	5.8	9
21	An electromechanical perspective on the metal/solution interfacial region during the metallic zinc electrodeposition. *Electrochimica Acta*, **2009**, 54, 6046-6052	6.7	9
20	Evidence of Magnetoresistance in the Prussian Blue Lattice during a Voltammetric Scan. *Journal of Physical Chemistry C*, **2008**, 112, 20099-20104	3.8	9
19	Growth of passive layers on nickel during their voltammetric anodic dissolution in a weakly acid medium. *Electrochimica Acta*, **2006**, 52, 658-664	6.7	9
18	Electrochemical impedance spectroscopy as a tool to estimate thickness in PB films. *Electrochemistry Communications*, **2006**, 8, 371-374	5.1	8
17	Electrochemical capacitance spectroscopy and capacitive relaxation of the changeover process in iron hexacyanoferrate molecular compound. *Electrochimica Acta*, **2010**, 55, 6147-6155	6.7	7
16	Evidence for Conformational Mechanism on the Binding of TgMIC4 with Galactose-Containing Carbohydrate Ligand. *Langmuir*, **2015**, 31, 12111-9	4	6
15	Elucidation of carbohydrate molecular interaction mechanism of recombinant and native ArtinM. *Journal of Physical Chemistry B*, **2013**, 117, 8360-9	3.4	6

14	Thermodynamic aspects of ion intercalation in KhFek[Fe(CN)6]l*mH2O compounds: application to the Everit's Salt/Prussian blue transition. *Journal of Physical Chemistry B*, **2006**, 110, 19364-8	3.4	6
13	Mass/charge balance as a tool to estimate dimensional change in polypyrrole-based actuators. *Electrochemistry Communications*, **2006**, 8, 195-199	5.1	6
12	Modeling of the role of conformational dynamics in kinetics of the antigen-antibody interaction in heterogeneous phase. *Journal of Physical Chemistry B*, **2012**, 116, 5679-88	3.4	5
11	The fractal dimension as estimator of the fractional content of metal matrix composite materials. *Journal of Solid State Electrochemistry*, **2009**, 13, 1599-1603	2.6	5
10	Mapping molecular binding by means of conformational dynamics measurements.. *RSC Advances*, **2018**, 8, 867-876	3.7	4
9	Singular points of electrochemical impedance function. *Applied Surface Science*, **2004**, 238, 449-456	6.7	4
8	Enzyme Inhibition Microassays on Blu-Ray Disks for Drug Discovery. *ACS Omega*, **2019**, 4, 5595-5600	3.9	3
7	Mechanism for Interplay between Electron and Ionic Fluxes in KhFek[Fe(CN)6]l·mH2O Compounds. *Journal of Physical Chemistry B*, **2006**, 110, 10208-10208	3.4	3
6	Anodic Dissolution of Nickel Across Two Consecutive Electron Transfers: Calculation of the Ni(I) Intermediate Concentration by means EQCM. *ECS Transactions*, **2006**, 2, 83-97	1	2
5	New structural insights into the role of TROVE2 complexes in the on-set and pathogenesis of systemic lupus erythematosus determined by a combination of QCM-D and DPI. *Analytical and Bioanalytical Chemistry*, **2019**, 411, 4709-4720	4.4	2
4	Comments on the paper entitled The formulation and modelling of the anodic dissolution of zinc through adsorbed intermediatesBy G.G. Lng, and G. Horny [J. Electroanal. Chem. 583 (2005) 148154]. *Journal of Electroanalytical Chemistry*, **2007**, 600, 369-371	4.1	1
3	Identification of high-affinity phage-displayed VH fragments by use of a quartz crystal microbalance with dissipation monitoring. *Sensors and Actuators B: Chemical*, **2021**, 340, 129954	8.5	1
2	Simultaneous Anodic Dissolution and Passivation of Nickel in Moderate Acid Medium **2006**, 119-124		
1	Response to the Comment on the paper Kinetic calculations of Ni anodic dissolution from EIS (J Solid State Electrochem, 9:83, 2005) by G. G. Lng and G. Horny. *Journal of Solid State Electrochemistry*, **2006**, 11, 444-447	2.6	