

# David Gimenez-Romero

## 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.

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	Identification of high-affinity phage-displayed VH fragments by use of a quartz crystal microbalance with dissipation monitoring. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 340, 129954	8.5	1
48	Enzyme Inhibition Microassays on Blu-Ray Disks for Drug Discovery. <i>ACS Omega</i> , <b>2019</b> , 4, 5595-5600	3.9	3
47	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. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 4709-4720	4.4	2
46	Mapping molecular binding by means of conformational dynamics measurements.. <i>RSC Advances</i> , <b>2018</b> , 8, 867-876	3.7	4
45	Label-free piezoelectric biosensor for prognosis and diagnosis of Systemic Lupus Erythematosus. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 90, 166-173	11.8	27
44	Dual-polarization interferometry: a novel technique to light up the nanomolecular world. <i>Chemical Reviews</i> , <b>2015</b> , 115, 265-94	68.1	59
43	Evidence for Conformational Mechanism on the Binding of TgMIC4 with $\beta$ -Galactose-Containing Carbohydrate Ligand. <i>Langmuir</i> , <b>2015</b> , 31, 12111-9	4	6
42	INSEL: an in silico method for optimizing and exploring biorecognition assays. <i>Chemical Communications</i> , <b>2013</b> , 49, 10868-70	5.8	9
41	Elucidation of carbohydrate molecular interaction mechanism of recombinant and native ArtinM. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 8360-9	3.4	6
40	Modeling of the role of conformational dynamics in kinetics of the antigen-antibody interaction in heterogeneous phase. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 5679-88	3.4	5
39	Electrochemical capacitance spectroscopy and capacitive relaxation of the changeover process in iron hexacyanoferrate molecular compound. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 6147-6155	6.7	7
38	An approach to the electrochemical activity of poly-(phenothiazines) by complementary electrochemical impedance spectroscopy and Vis-NIR spectroscopy. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 6128-6135	6.7	26
37	Electronic Perspective on the Electrochemistry of Prussian Blue Films. <i>Journal of the Electrochemical Society</i> , <b>2009</b> , 156, P74	3.9	21
36	Insights on the Mechanism of Insoluble-to-Soluble Prussian Blue Transformation. <i>Journal of the Electrochemical Society</i> , <b>2009</b> , 156, P149	3.9	12
35	The fractal dimension as estimator of the fractional content of metal matrix composite materials. <i>Journal of Solid State Electrochemistry</i> , <b>2009</b> , 13, 1599-1603	2.6	5
34	An electromechanical perspective on the metal/solution interfacial region during the metallic zinc electrodeposition. <i>Electrochimica Acta</i> , <b>2009</b> , 54, 6046-6052	6.7	9
33	Innovative Combination of Three Alternating Current Relaxation Techniques: Electrical Charge, Mass, and Color Impedance Spectroscopy. Part I: The Tool. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 8430-8437	3.8	21

32	Innovative Combination of Three Alternating Current Relaxation Techniques: Electrical Charge, Mass, and Color Impedance Spectroscopy. Part II: Prussian Blue ? Everitt's Salt Process. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 8438-8446	3.8	27
31	Electrochromic Switching Mechanism of Iron Hexacyanoferrates Molecular Compounds: The Role of Fe <sup>2+</sup> (CN) <sub>6</sub> Vacancies. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 9916-9920	3.8	21
30	Formation of a Copper Oxide Layer as a Key Step in the Metallic Copper Deposition Mechanism. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 4275-4280	3.8	10
29	Synchrotron Structural Characterization of Electrochemically Synthesized Hexacyanoferrates Containing K <sup>+</sup> : A Revisited Analysis of Electrochemical Redox. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 13264-13271	3.8	45
28	Evidence of Magnetoresistance in the Prussian Blue Lattice during a Voltammetric Scan. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 20099-20104	3.8	9
27	Resonant x-ray diffraction as a tool to calculate mixed valence ratios: Application to Prussian Blue materials. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 264103	3.4	14
26	Spectroelectrochemical Identification of the Active Sites for Protons and Anions Insertions into Poly-(Azure A) Thin Polymer Films. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 14230-14237	3.8	22
25	Electromechanical phase transition in hexacyanometallate nanostructure (Prussian Blue). <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 7121-6	16.4	33
24	Comments on the paper entitled "The formulation and modelling of the anodic dissolution of zinc through adsorbed intermediates" by G.G. Ling, and G. Horanyi [J. Electroanal. Chem. 583 (2005) 148-154]. <i>Journal of Electroanalytical Chemistry</i> , <b>2007</b> , 600, 369-371	4.1	1
23	Growth of passive layers on nickel during their voltammetric anodic dissolution in a weakly acid medium. <i>Electrochimica Acta</i> , <b>2006</b> , 52, 658-664	6.7	9
22	Anodic Dissolution of Nickel Across Two Consecutive Electron Transfers: Calculation of the Ni(II) Intermediate Concentration by means EQCM. <i>ECS Transactions</i> , <b>2006</b> , 2, 83-97	1	2
21	Simultaneous Anodic Dissolution and Passivation of Nickel in Moderate Acid Medium <b>2006</b> , 119-124		
20	Thermodynamic aspects of ion intercalation in KhFek[Fe(CN) <sub>6</sub> ] <sub>l</sub> mH <sub>2</sub> O compounds: application to the Everitt's Salt/Prussian blue transition. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 19364-8	3.4	6
19	Changeover during in situ compositional modulation of hexacyanoferrate (Prussian Blue) material. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 17146-52	16.4	38
18	Kinetic aspects of ion exchange in KhFek[Fe(CN) <sub>6</sub> ] <sub>l</sub> mH <sub>2</sub> O compounds: a combined electrical and mass transfer functions approach. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 19352-63	3.4	20
17	Mechanism for interplay between electron and ionic fluxes in KhFek[Fe(CN) <sub>6</sub> ] <sub>l</sub> mH <sub>2</sub> O compounds. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 2715-22	3.4	26
16	Mechanism for Interplay between Electron and Ionic Fluxes in KhFek[Fe(CN) <sub>6</sub> ] <sub>l</sub> mH <sub>2</sub> O Compounds. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 10208-10208	3.4	3
15	Mass/charge balance as a tool to estimate dimensional change in polypyrrole-based actuators. <i>Electrochemistry Communications</i> , <b>2006</b> , 8, 195-199	5.1	6

14	Electrochemical impedance spectroscopy as a tool to estimate thickness in PB films. <i>Electrochemistry Communications</i> , <b>2006</b> , 8, 371-374	5.1	8
13	Vis/NIR spectroelectrochemical analysis of poly-(Azure A) on ITO electrode. <i>Electrochemistry Communications</i> , <b>2006</b> , 8, 549-553	5.1	41
12	Calculation of the rate constants of nickel electrodisolution in acid medium from EIS. <i>Journal of Solid State Electrochemistry</i> , <b>2006</b> , 10, 920-928	2.6	16
11	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. Lbg and G. Horvnyi [Journal of Solid State Electrochemistry, <b>2006</b> , 11, 444-447	2.6	
10	Graphical analysis of electrochemical impedance spectroscopy of two consecutive irreversible electron transfers. 1. Theoretical study of the anodic dissolution of metals. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 4584-92	3.4	23
9	Kinetic calculations of the Ni anodic dissolution from EIS. <i>Journal of Solid State Electrochemistry</i> , <b>2005</b> , 9, 83-90	2.6	24
8	Cyclic voltammetric generation and electrochemical quartz crystal microbalance characterization of passive layer of nickel in a weakly acid medium. <i>Journal of Solid State Electrochemistry</i> , <b>2005</b> , 9, 684-690	2.6	27
7	Calculation of the surface concentration of Zn(I) from the anodic voltammetric peak of zinc combined with the QCM results. <i>Electrochemistry Communications</i> , <b>2004</b> , 6, 903-907	5.1	18
6	Analysis of an impedance function of zinc anodic dissolution. <i>Journal of Electroanalytical Chemistry</i> , <b>2004</b> , 572, 235-247	4.1	15
5	Singular points of electrochemical impedance function. <i>Applied Surface Science</i> , <b>2004</b> , 238, 449-456	6.7	4
4	Correlation between the fractal dimension of the electrode surface and the EIS of the zinc anodic dissolution for different kinds of galvanized steel. <i>Electrochemistry Communications</i> , <b>2004</b> , 6, 148-152	5.1	10
3	EQCM and EIS studies of $Zn^{2+} + 2e^- \rightleftharpoons Zn^0$ electrochemical reaction in moderated acid medium. <i>Journal of Electroanalytical Chemistry</i> , <b>2003</b> , 558, 25-33	4.1	36
2	Kinetics of zinc anodic dissolution from the EIS characteristic points. <i>Electrochemistry Communications</i> , <b>2003</b> , 5, 722-727	5.1	19
1	EIS and Ac-Electrogravimetry Study of PB Films in KCl, NaCl, and CsCl Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 11321-11330	3.4	39