

Paulo R Bueno

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8534613/paulo-r-bueno-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

194
papers

6,242
citations

41
h-index

67
g-index

201
ext. papers

6,722
ext. citations

5.1
avg, IF

6.04
L-index

#	Paper	IF	Citations
194	An outlook on electrochemical approaches for molecular diagnostics assays and discussions on the limitations of miniaturized technologies for point-of-care devices. <i>Sensors and Actuators Reports</i> , 2022 , 4, 100087	4.7	5
193	Improving the Analytical Reproducibility of Electrochemical Capacitive Sensors Using the Chemical Hardness of the Interface. <i>IEEE Access</i> , 2021 , 9, 166446-166454	3.5	
192	Ab Initio QM/MM Simulation of Ferrocene Homogeneous Electron-Transfer Reaction. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 25-33	2.8	1
191	Impact of surface roughness on the self-assembling of molecular films onto gold electrodes for label-free biosensing applications. <i>Electrochimica Acta</i> , 2021 , 378, 138137	6.7	5
190	Low-fouling properties in serum of carboxylic-oligo(ethylene glycol)-based interfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 618, 126426	5.1	
189	Density of States of a Nanoscale Semiconductor Interface as a Transduction Signal for Sensing Molecules. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 3411-3417	4	1
188	Introducing polymer conductance in diagnostically relevant transduction. <i>Biosensors and Bioelectronics</i> , 2021 , 172, 112705	11.8	3
187	The density-of-States and equilibrium charge dynamics of redox-active switches. <i>Electrochimica Acta</i> , 2021 , 387, 138410	6.7	2
186	Perspective on Quantum Electrochemistry. A Simple Method for Measuring the Electron Transfer Rate Constant. <i>Electrochimica Acta</i> , 2021 , 139219	6.7	2
185	Sensing the quantized reactivity of graphene. <i>Analytica Chimica Acta</i> , 2021 , 1177, 338735	6.6	
184	Measuring quantum conductance and capacitance of graphene using impedance-derived capacitance spectroscopy. <i>Carbon</i> , 2021 , 184, 821-827	10.4	4
183	Electron transfer and conductance quantum. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 26109-26112	3.6	6
182	Two-Dimensional Nature and the Meaning of the Density of States in Redox Monolayers. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 14918-14927	3.8	4
181	The nanoscopic principles of capacitive ion sensing interfaces. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 3770-3774	3.6	11
180	Real-Time Monitoring of Electrochromic Memory Loss of Layered HMoO_3 Nanoplates. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 166509	3.9	2
179	Introducing mesoscopic charge transfer rates into molecular electronics. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 10828-10832	3.6	11
178	Serological point-of-care and label-free capacitive diagnosis of dengue virus infection. <i>Biosensors and Bioelectronics</i> , 2020 , 151, 111972	11.8	19

177	Charge transport and energy storage at the molecular scale: from nanoelectronics to electrochemical sensing. <i>Chemical Society Reviews</i> , 2020 , 49, 7505-7515	58.5	21
176	The importance of the assembling of DNA strands on the performance of electrochemical genosensors. <i>Microchemical Journal</i> , 2020 , 159, 105358	4.8	3
175	Comparing glucose and urea enzymatic electrochemical and optical biosensors based on polyaniline thin films. <i>Analytical Methods</i> , 2020 , 12, 4199-4210	3.2	11
174	Label-free capacitive assaying of biomarkers for molecular diagnostics. <i>Nature Protocols</i> , 2020 , 15, 3879-3893	18.9	10
173	Varistor technology based on SnO ₂ 2020 , 321-343		2
172	Nanoscale origins of super-capacitance phenomena. <i>Journal of Power Sources</i> , 2019 , 414, 420-434	8.9	31
171	Pseudocapacitance phenomena and applications in biosensing devices. <i>Electrochimica Acta</i> , 2019 , 306, 175-184	6.7	13
170	A nanoscale redox-active composite as a low-fouling interface for capacitive assaying. <i>Sensors and Actuators B: Chemical</i> , 2019 , 291, 493-501	8.5	6
169	Perspectives on and Precautions for the Uses of Electric Spectroscopic Methods in Label-free Biosensing Applications. <i>ACS Sensors</i> , 2019 , 4, 2216-2227	9.2	29
168	Chemical Hardness of Mesoscopic Electrochemical Systems Directly Analyzed from Experimental Data. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 21213-21223	3.8	13
167	Field effect in molecule-gated switches and the role of target-to-receptor size ratio in biosensor sensitivity. <i>Biosensors and Bioelectronics</i> , 2019 , 127, 215-220	11.8	8
166	Redox Capacitive Assaying of C-Reactive Protein at a Peptide Supported Aptamer Interface. <i>Analytical Chemistry</i> , 2018 , 90, 3005-3008	7.8	44
165	Mapping molecular binding by means of conformational dynamics measurements.. <i>RSC Advances</i> , 2018 , 8, 867-876	3.7	4
164	A dual marker label free electrochemical assay for Flavivirus dengue diagnosis. <i>Biosensors and Bioelectronics</i> , 2018 , 100, 519-525	11.8	35
163	Introduction to Fundamental Concepts. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018 , 1-26	0.4	
162	Field Effect and Applications. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018 , 51-81	0.4	
161	Nanoscale Electrochemistry of Molecular Contacts. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018 ,	0.4	18
160	Electrochemistry and First Principles of Quantum Mechanics. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018 , 27-49	0.4	1

159	Common Principles of Molecular Electronics and Nanoscale Electrochemistry. <i>Analytical Chemistry</i> , 2018 , 90, 7095-7106	7.8	31
158	Reagentless Detection of Low-Molecular-Weight Triamterene Using Self-Doped TiO Nanotubes. <i>Analytical Chemistry</i> , 2018 , 90, 7651-7658	7.8	14
157	Conceptual density functional theory for electron transfer and transport in mesoscopic systems. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 6184-6195	3.6	11
156	Mesoscopic behaviour of multi-layered graphene: the meaning of supercapacitance revisited. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 6792-6806	3.6	13
155	ArtinM Binding Effinities and Kinetic Interaction with Leukemia Cells: A Quartz Crystal Microbalance Bioelectroanalysis on the Cytotoxic Effect. <i>Electroanalysis</i> , 2017 , 29, 1554-1558	3	1
154	Mapping the ionic fingerprints of molecular monolayers. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 15098-15109	3.6	19
153	Quantum capacitance as a reagentless molecular sensing element. <i>Nanoscale</i> , 2017 , 9, 15362-15370	7.7	26
152	Optimized electrochemical biosensor for human prostatic acid phosphatase. <i>Sensors and Actuators B: Chemical</i> , 2017 , 253, 1106-1112	8.5	9
151	Versatile electroanalysis of cellular receptor: The case of Toll-like immune receptors evaluated on transfected human cell. <i>Sensors and Actuators B: Chemical</i> , 2017 , 241, 1002-1007	8.5	
150	The capacitive sensing of NS1 Flavivirus biomarker. <i>Biosensors and Bioelectronics</i> , 2017 , 87, 949-956	11.8	65
149	Density functional theory and an experimentally-designed energy functional of electron density. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 25984-25992	3.6	32
148	The Mesoscopic Electrochemistry of Molecular Junctions. <i>Scientific Reports</i> , 2016 , 6, 18400	4.9	23
147	The self-assembly of redox active peptides: Synthesis and electrochemical capacitive behavior. <i>Biopolymers</i> , 2016 , 106, 357-67	2.2	17
146	Glycoprotein assay based on the optimized immittance signal of a redox tagged and lectin-based receptive interface. <i>Biosensors and Bioelectronics</i> , 2016 , 83, 368-78	11.8	13
145	Graphene-based protein biomarker detection. <i>Bioanalysis</i> , 2015 , 7, 725-42	2.1	26
144	Capacitance spectroscopy and density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 9375-82	3.6	39
143	An impedimetric biosensor to test neat serum for dengue diagnosis. <i>Sensors and Actuators B: Chemical</i> , 2015 , 213, 150-154	8.5	59
142	Sensitive label-free electron chemical capacitive signal transduction for D-dimer electroanalysis. <i>Electrochimica Acta</i> , 2015 , 182, 946-952	6.7	25

141	Impittance electroanalysis in diagnostics. <i>Analytical Chemistry</i> , 2015 , 87, 944-50	7.8	29
140	Pitahaya Aging Diagnostic by Impedance/Capacitance Spectroscopy. <i>Food Analytical Methods</i> , 2015 , 8, 126-129	3.4	2
139	Evidence for Conformational Mechanism on the Binding of TgMIC4 with β -Galactose-Containing Carbohydrate Ligand. <i>Langmuir</i> , 2015 , 31, 12111-9	4	6
138	Biochemical capacitance of <i>Geobacter sulfurreducens</i> biofilms. <i>ChemSusChem</i> , 2015 , 8, 2492-5	8.3	4
137	Optimized Diagnostic Assays Based on Redox Tagged Bioreceptive Interfaces. <i>Analytical Chemistry</i> , 2015 , 87, 12137-44	7.8	26
136	Redox-tagged peptide for capacitive diagnostic assays. <i>Biosensors and Bioelectronics</i> , 2015 , 68, 281-287	11.8	31
135	Comparing label free electrochemical impedimetric and capacitive biosensing architectures. <i>Biosensors and Bioelectronics</i> , 2014 , 57, 96-102	11.8	67
134	Critical Water Effect on the Plasmon Band and Visible Light Activity of Au/ZnO Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 2018-2027	3.8	12
133	Impedance-derived electrochemical capacitance spectroscopy for the evaluation of lectin-glycoprotein binding affinity. <i>Biosensors and Bioelectronics</i> , 2014 , 62, 102-5	11.8	37
132	Measuring quantum capacitance in energetically addressable molecular layers. <i>Analytical Chemistry</i> , 2014 , 86, 1337-41	7.8	49
131	Label-free capacitive diagnostics: exploiting local redox probe state occupancy. <i>Analytical Chemistry</i> , 2014 , 86, 2559-64	7.8	55
130	Elucidating redox-level dispersion and local dielectric effects within electroactive molecular films. <i>Analytical Chemistry</i> , 2014 , 86, 1997-2004	7.8	41
129	Penicillinase-based amperometric biosensor for penicillin G. <i>Electrochemistry Communications</i> , 2014 , 38, 131-133	5.1	35
128	Evaluating the Equilibrium Association Constant between ArtinM Lectin and Myeloid Leukemia Cells by Impedimetric and Piezoelectric Label Free Approaches. <i>Biosensors</i> , 2014 , 4, 358-69	5.9	12
127	Label free redox capacitive biosensing. <i>Biosensors and Bioelectronics</i> , 2013 , 50, 437-40	11.8	64
126	A facile measurement of heterogeneous electron transfer kinetics. <i>Analytical Chemistry</i> , 2013 , 85, 10920-7	7.8	6
125	INSEL: an in silico method for optimizing and exploring biorecognition assays. <i>Chemical Communications</i> , 2013 , 49, 10868-70	5.8	9
124	Elucidating capacitance and resistance terms in confined electroactive molecular layers. <i>Analytical Chemistry</i> , 2013 , 85, 411-7	7.8	54

123	An optimised electrochemical biosensor for the label-free detection of C-reactive protein in blood. <i>Biosensors and Bioelectronics</i> , 2013 , 39, 94-8	11.8	161
122	Elucidation of carbohydrate molecular interaction mechanism of recombinant and native ArtinM. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 8360-9	3.4	6
121	Electrogravimetric Analysis by Quartz-Crystal Microbalance on the Consumption of the Neurotransmitter Acetylcholine by Acetylcholinesterase. <i>Analytical Letters</i> , 2013 , 46, 258-265	2.2	7
120	DNA hybridization mechanism in an interfacial environment: What hides beneath first order k kinetic constant?. <i>Sensors and Actuators B: Chemical</i> , 2012 , 171-172, 522-527	8.5	4
119	Capacitance spectroscopy: a versatile approach to resolving the redox density of states and kinetics in redox-active self-assembled monolayers. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 8822-9	3.4	70
118	Sensitive affimer and antibody based impedimetric label-free assays for C-reactive protein. <i>Analytical Chemistry</i> , 2012 , 84, 6553-60	7.8	60
117	Impedance Spectroscopy Analysis of the Effect of TiO ₂ Blocking Layers on the Efficiency of Dye Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 12415-12421	3.8	64
116	A dielectric model of self-assembled monolayer interfaces by capacitive spectroscopy. <i>Langmuir</i> , 2012 , 28, 9689-99	4	68
115	Jacalin interaction with human immunoglobulin A1 and bovine immunoglobulin G1: affinity constant determined by piezoelectric biosensing. <i>Glycobiology</i> , 2012 , 22, 326-31	5.8	5
114	Nanoscale electromechanical properties of CaCu ₃ Ti ₄ O ₁₂ ceramics. <i>Journal of Applied Physics</i> , 2011 , 110, 052019	2.5	33
113	Platinum-coated nanostructured oxides for active catalytic electrodes. <i>Catalysis Communications</i> , 2011 , 14, 58-61	3.2	4
112	Quartz crystal microbalance as a tool for kinetic enzymatic assays by variation of pH. <i>Analytical Biochemistry</i> , 2011 , 418, 152-4	3.1	4
111	Synthesis and characterization of mesoporous TiO ₂ nanostructured films prepared by a modified sol-gel method for application in dye solar cells. <i>Ceramics International</i> , 2011 , 37, 1017-1024	5.1	87
110	Resistive-switching behavior in polycrystalline CaCu ₃ Ti ₄ O ₁₂ nanorods. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 500-4	9.5	25
109	Doping saturation in dye-sensitized solar cells based on ZnO:Ga nanostructured photoanodes. <i>Electrochimica Acta</i> , 2011 , 56, 6503-6509	6.7	30
108	Nanoscale effects and polaronic relaxation in CaCu ₃ Ti ₄ O ₁₂ compounds. <i>Solid State Communications</i> , 2011 , 151, 173-176	1.6	52
107	The dielectric suppress and the control of semiconductor non-Ohmic feature of CaCu ₃ Ti ₄ O ₁₂ by means of tin doping. <i>Applied Physics Letters</i> , 2011 , 98, 132906	3.4	29
106	Low-Temperature Sputtering Deposition of Aligned Polycrystalline CaCu ₃ Ti ₄ O ₁₂ Nanorods. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 51-54	3.8	9

105	Microstructural and nonohmic properties of ZnO.Pr6O11 CoO polycrystalline system. <i>Materials Research</i> , 2010 , 13, 29-34	1.5	4
104	Influence of degradation on the electrical conduction process in ZnO and SnO2-based varistors. <i>Journal of Applied Physics</i> , 2010 , 108, 074505	2.5	18
103	Electrogravimetric real-time and in situ michaelis-menten enzymatic kinetics: progress curve of acetylcholinesterase hydrolysis. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 16605-10	3.4	8
102	Electrochemical capacitance spectroscopy and capacitive relaxation of the changeover process in iron hexacyanoferrate molecular compound. <i>Electrochimica Acta</i> , 2010 , 55, 6147-6155	6.7	7
101	Real-time monitoring and kinetic parameter estimation of the affinity interaction of jArtinM and rArtinM with peroxidase glycoprotein by the electrogravimetric technique. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 36-42	11.8	32
100	Solâgel synthesis of mesoporous CaCu3Ti4O12 thin films and their gas sensing response. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 1209-1214	3.3	48
99	The effect of TiO2 on the microstructural and electrical properties of low voltage varistor based on (Sn,Ti)O2 ceramics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 457-461	1.6	10
98	Electronic Perspective on the Electrochemistry of Prussian Blue Films. <i>Journal of the Electrochemical Society</i> , 2009 , 156, P74	3.9	21
97	Impedance spectroscopy study of solid-state dye-sensitized solar cells with varying Spiro-OMeTAD concentration. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1211, 1		
96	Evaluation of the effect of the stoichiometric ratio of Ca/Cu on the electrical and microstructural properties of the CaCu3Ti4O12 polycrystalline system. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 185503	3	50
95	A polaronic stacking fault defect model for CaCu3Ti4O12 material: an approach for the origin of the huge dielectric constant and semiconducting coexistent features. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 055404	3	119
94	Preparation of CeO2 by a simple microwaveâhydrothermal method. <i>Solid State Ionics</i> , 2009 , 180, 288-291	3.3	71
93	The influence of area/volume ratio on microstructure and non-Ohmic properties of SnO2-based varistor ceramic blocks. <i>Journal of Materials Science: Materials in Electronics</i> , 2009 , 20, 49-54	2.1	10
92	Application of impedance spectroscopy to evaluate the effect of different setting accelerators on the developed microstructures of calcium phosphate cements. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 1619-27	4.5	5
91	Electrical relaxation in proton conductor composites based on (NH4)H2PO4/TiO2. <i>Ionics</i> , 2009 , 15, 329-336	3.6	12
90	Dielectric relaxation and dc conductivity on the PVOH-CF3COONH4 polymer system. <i>Ionics</i> , 2009 , 15, 537-544	2.7	12
89	Impedance spectroscopy analysis of TiO2 thin film gas sensors obtained from water-based anatase colloids. <i>Sensors and Actuators B: Chemical</i> , 2009 , 139, 447-452	8.5	41
88	The effect of cooling rate during hydrothermal synthesis of ZnO nanorods. <i>Journal of Crystal Growth</i> , 2009 , 311, 4102-4108	1.6	41

87	Kinetics of interface state-limited hole injection in 9-naphthylphenylbiphenyl diamine (9NPD) thin layers. <i>Synthetic Metals</i> , 2009 , 159, 480-486	3.6	12
86	Comparison of non-Ohmic accelerated ageing of the ZnO- and SnO ₂ -based voltage dependent resistors. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 015503	3	20
85	Surface Passivation of Nanoporous TiO ₂ via Atomic Layer Deposition of ZrO ₂ for Solid-State Dye-Sensitized Solar Cell Applications. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 18385-18390	3.8	137
84	Electrochromic Switching Mechanism of Iron Hexacyanoferrates Molecular Compounds: The Role of Fe ²⁺ (CN) ₆ Vacancies. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 9916-9920	3.8	21
83	Electrochemistry, Nanomaterials, and Nanostructures. <i>Nanostructure Science and Technology</i> , 2009 , 81-149		3
82	Grain size effect on the electrical response of SnO ₂ thin and thick film gas sensors. <i>Materials Research</i> , 2009 , 12, 83-87	1.5	13
81	Preparation and characterization of ceria nanospheres by microwave-hydrothermal method. <i>Materials Letters</i> , 2008 , 62, 4509-4511	3.3	172
80	Reaction Pathway to the Synthesis of Anatase via the Chemical Modification of Titanium Isopropoxide with Acetic Acid. <i>Chemistry of Materials</i> , 2008 , 20, 143-150	9.6	123
79	Reply to Comment on "Reaction Pathway to the Synthesis of Anatase via the Chemical Modification of Titanium Isopropoxide with Acetic Acid" <i>Chemistry of Materials</i> , 2008 , 20, 3541-3541	9.6	4
78	Voltage-Composition Profile and Synchrotron X-ray Structural Analysis of Low and High Temperature Li _x CoO ₂ Host Material. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 14655-14664	3.8	8
77	Synchrotron Structural Characterization of Electrochemically Synthesized Hexacyanoferrates Containing K ⁺ : A Revisited Analysis of Electrochemical Redox. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 13264-13271	3.8	45
76	Comparative degradation of ZnO- and SnO ₂ -based polycrystalline non-ohmic devices by current pulse stress. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 122002	3	29
75	Resonant x-ray diffraction as a tool to calculate mixed valence ratios: Application to Prussian Blue materials. <i>Applied Physics Letters</i> , 2008 , 92, 264103	3.4	14
74	P-type semiconducting gas sensing behavior of nanoporous rf sputtered CaCu ₃ Ti ₄ O ₁₂ thin films. <i>Applied Physics Letters</i> , 2008 , 92, 132110	3.4	31
73	Aspects of solid state formation and properties of Sn _{0.9} Ti _{0.1} O ₂ system doped with CoO and Nb ₂ O ₅ . <i>Powder Diffraction</i> , 2008 , 23, S65-S69	1.8	
72	Dielectric behaviour of CaCu ₃ Ti ₄ O ₁₂ -epoxy composites. <i>Materials Research</i> , 2008 , 11, 85-88	1.5	27
71	Impedance spectroscopy analysis of SnO ₂ thick-films gas sensors. <i>Journal of Materials Science: Materials in Electronics</i> , 2008 , 19, 1169-1175	2.1	20
70	Influence of thermal annealing treatment in oxygen atmosphere on grain boundary chemistry and non-ohmic properties of SnO ₂ -MnO polycrystalline semiconductors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008 , 205, 383-388	1.6	4

69	Relationship between grain-boundary capacitance and bulk shallow donors in SnO ₂ polycrystalline semiconductor. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008 , 205, 1694-1698	1.6	9
68	SnO ₂ , ZnO and related polycrystalline compound semiconductors: An overview and review on the voltage-dependent resistance (non-ohmic) feature. <i>Journal of the European Ceramic Society</i> , 2008 , 28, 505-529	6	221
67	Impedance of carrier injection at the metal-organic interface mediated by surface states in electron-only tris(8-hydroxyquinoline) aluminium (Alq ₃) thin layers. <i>Chemical Physics Letters</i> , 2008 , 455, 242-248	2.5	12
66	Coloring ionic trapping states in WO ₃ and Nb ₂ O ₅ electrochromic materials. <i>Electrochimica Acta</i> , 2008 , 53, 5533-5539	6.7	30
65	Quartz Crystal Microbalance monitoring the real-time binding of lectin with carbohydrate with high and low molecular mass. <i>Microchemical Journal</i> , 2008 , 89, 153-158	4.8	24
64	Conventional and microwave sintering of CaCu ₃ Ti ₄ O ₁₂ /CaTiO ₃ ceramic composites: non-ohmic and dielectric properties. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 152004	3	30
63	Comparative Electrical Behavior at Low and High Current of SnO ₂ - and ZnO-Based Varistors. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 2402-2404	3.8	33
62	Mechanical Properties and Dimensional Effects of ZnO- and SnO ₂ -Based Varistors. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 3105-3108	3.8	12
61	Photoluminescent CaCu ₃ Ti ₄ O ₁₂ -Based Thin Films Synthesized by a Sol-Gel Method. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 4162-4164	3.8	27
60	Synthesis of SnO ₂ by chemical routes and its use in varistors production. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 3893-3896	6	28
59	Admittance and dielectric spectroscopy of polycrystalline semiconductors. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 4313-4320	6	33
58	Dye-sensitized solar cell architecture based on indium oxide nanowires coated with titanium dioxide. <i>Scripta Materialia</i> , 2007 , 57, 277-280	5.6	59
57	Qualitative evaluation of active potential barriers in SnO ₂ -based polycrystalline devices by electrostatic force microscopy. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 87, 793-796	2.6	7
56	Separation of dielectric and space charge polarizations in CaCu ₃ Ti ₄ O ₁₂ /CaTiO ₃ composite polycrystalline systems. <i>Applied Physics Letters</i> , 2007 , 90, 142912	3.4	31
55	Non-Ohmic and dielectric properties of a Ca ₂ Cu ₂ Ti ₄ O ₁₂ polycrystalline system. <i>Applied Physics Letters</i> , 2006 , 89, 212102	3.4	87
54	Dielectric spectroscopy analysis of CaCu ₃ Ti ₄ O ₁₂ polycrystalline systems. <i>Applied Physics Letters</i> , 2006 , 89, 191117	3.4	56
53	Electrostatic force microscopy as a tool to estimate the number of active potential barriers in dense non-Ohmic polycrystalline SnO ₂ devices. <i>Applied Physics Letters</i> , 2006 , 89, 152102	3.4	29
52	Thermodynamic aspects of ion intercalation in K _h Fek[Fe(CN) ₆] _l *mH ₂ O compounds: application to the Everit's Salt/Prussian blue transition. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 19364-8	3.4	6

51	Changeover during in situ compositional modulation of hexacyanoferrate (Prussian Blue) material. <i>Journal of the American Chemical Society</i> , 2006 , 128, 17146-52	16.4	38
50	Kinetic aspects of ion exchange in $\text{KxFe}_x[\text{Fe}(\text{CN})_6]_y \cdot n\text{H}_2\text{O}$ compounds: a combined electrical and mass transfer functions approach. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 19352-63	3.4	20
49	Mechanism for interplay between electron and ionic fluxes in $\text{KxFe}_x[\text{Fe}(\text{CN})_6]_y \cdot n\text{H}_2\text{O}$ compounds. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 2715-22	3.4	26
48	Mechanism for Interplay between Electron and Ionic Fluxes in $\text{KxFe}_x[\text{Fe}(\text{CN})_6]_y \cdot n\text{H}_2\text{O}$ Compounds. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 10208-10208	3.4	3
47	Espectroscopia de impedância eletroquímica aplicada ao estudo das reações heterogêneas em eletrodos dimensionalmente estáveis. <i>Química Nova</i> , 2006 , 29, 796-804	1.6	20
46	Mass/charge balance as a tool to estimate dimensional change in polypyrrole-based actuators. <i>Electrochemistry Communications</i> , 2006 , 8, 195-199	5.1	6
45	Electrochemical impedance spectroscopy as a tool to estimate thickness in PB films. <i>Electrochemistry Communications</i> , 2006 , 8, 371-374	5.1	8
44	How Cr_2O_3 influences the microstructure and nonohmic features of the $\text{SnO}_2(\text{Co}_x, \text{Mn}_{1-x})\text{O}$ -based varistor system. <i>Journal of the European Ceramic Society</i> , 2006 , 26, 1221-1229	6	18
43	Nature of potential barrier in $(\text{Ca}_{1/4}, \text{Cu}_{3/4})\text{TiO}_3$ polycrystalline perovskite. <i>Solid State Communications</i> , 2006 , 138, 1-4	1.6	39
42	Importance of oxygen atmosphere to recover the ZnO-based varistors properties. <i>Journal of Materials Science</i> , 2006 , 41, 6221-6227	4.3	32
41	Crossover from capacitive to pseudoinductive charge-relaxation in organic-polymeric light-emitting diodes. <i>Applied Physics Letters</i> , 2005 , 87, 013505	3.4	24
40	Hybrid Organic-Inorganic Polymer: A New Approach for the Development of Decoupled Polymer Electrolytes. <i>Chemistry of Materials</i> , 2005 , 17, 4561-4563	9.6	26
39	EQCM study during lithium insertion/deinsertion processes in Nb_2O_5 films prepared by polymeric precursor method. <i>Solid State Ionics</i> , 2005 , 176, 1175-1180	3.3	10
38	A Comparative Study of Thermal Conductivity in ZnO- and SnO_2 -Based Varistor Systems. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 2629-2631	3.8	30
37	The failure analyses on ZnO varistors used in high tension devices. <i>Journal of Materials Science</i> , 2005 , 40, 5591-5596	4.3	21
36	Structural analysis of pure and LiCF_3SO_3 -doped amorphous WO_3 electrochromic films and discussion on coloration kinetics. <i>Journal of Applied Physics</i> , 2004 , 96, 2102-2109	2.5	25
35	Nonohmic behavior of SnO_2 -MnO polycrystalline ceramics. II. Analysis of admittance and dielectric spectroscopy. <i>Journal of Applied Physics</i> , 2004 , 96, 3811-3817	2.5	25
34	Nonohmic behavior of SnO_2 -MnO polycrystalline ceramics. I. Correlations between microstructural morphology and nonohmic features. <i>Journal of Applied Physics</i> , 2004 , 96, 2693-2700	2.5	21

33	Relaxation processes in the coloration of amorphous WO ₃ thin films studied by combined impedance and electro-optical measurements. <i>Journal of Applied Physics</i> , 2004 , 96, 853-859	2.5	30
32	Sol-Gel Non-hydrolytic Synthesis of a Nanocomposite Electrolyte for Application in Lithium-ion Devices. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 822, S3.1.1		
31	Low-Voltage Varistor Based on (Sn,Ti)O ₂ Ceramics. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 282-284	3.8	36
30	Sol-gel nonhydrolytic synthesis of a hybrid organic-inorganic electrolyte for application in lithium-ion devices. <i>Solid State Ionics</i> , 2004 , 166, 83-88	3.3	34
29	Quantitative structural analysis of the transition from LT-LixCoO ₂ to HT-LixCoO ₂ using the rietveld method: correlation between structure and electrochemical performance. <i>Journal of Power Sources</i> , 2004 , 125, 103-113	8.9	8
28	Thermal conductivity features of ZnO-based varistors using the laser-pulse method. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 371, 377-381	5.3	24
27	The Influence of Excess Precipitate on the Non-Ohmic Properties of SnO ₂ -Based Varistors 2003 , 10, 63-68		22
26	Effect of the addition of ZnO seeds on the electrical properties of ZnO-based varistors. <i>Materials Chemistry and Physics</i> , 2003 , 80, 512-516	4.4	35
25	Li ⁺ insertion into pure and doped amorphous WO ₃ films. Correlations between coloration kinetics, charge and mass accumulation. <i>Solid State Ionics</i> , 2003 , 158, 415-426	3.3	23
24	Sintering and mass transport features of (Sn,Ti)O ₂ polycrystalline ceramics. <i>Journal of the European Ceramic Society</i> , 2003 , 23, 887-896	6	47
23	Grain-boundary segregation and precipitates in La ₂ O ₃ and Pr ₂ O ₃ doped SnO ₂ -CoO-based varistors. <i>Journal of the European Ceramic Society</i> , 2003 , 23, 1875-1880	6	31
22	Ionic conductivity of Bi ₄ Ti _{0.2} V _{1.8} O _{10.7} polycrystalline ceramics obtained by the polymeric precursor route. <i>Materials Letters</i> , 2003 , 57, 2540-2544	3.3	40
21	Nanostructured Li Ion Insertion Electrodes. 1. Discussion on Fast Transport and Short Path for Ion Diffusion. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 8868-8877	3.4	86
20	Nonohmic behavior of SnO ₂ .MnO ₂ -based ceramics. <i>Materials Research</i> , 2003 , 6, 279-283	1.5	8
19	Influence of La ₂ O ₃ , Pr ₂ O ₃ and CeO ₂ on the nonlinear properties of SnO ₂ multicomponent varistors. <i>Materials Chemistry and Physics</i> , 2002 , 74, 150-153	4.4	22
18	Analysis of the admittance-frequency and capacitance-voltage of dense SnO ₂ -CoO-based varistor ceramics. <i>Journal of Applied Physics</i> , 2002 , 91, 6007-6014	2.5	52
17	Electrochemical performance of cathodes based on LiMn ₂ O ₄ spinel obtained by combustion synthesis. <i>Journal of Power Sources</i> , 2001 , 97-98, 447-449	8.9	22
16	Effect of oxidizing and reducing atmospheres on the electrical properties of dense SnO ₂ -based varistors. <i>Journal of the European Ceramic Society</i> , 2001 , 21, 161-167	6	75

15	Sensitivity of SnO ₂ non-ohmic behavior to the sintering process and to the addition of La ₂ O ₃ . <i>Journal of the European Ceramic Society</i> , 2001 , 21, 1179-1185	6	24
14	Electrochromic properties of lithium doped WO ₃ films prepared by the sol-gel process. <i>Electrochimica Acta</i> , 2001 , 46, 1977-1981	6.7	38
13	Electrochromic properties of undoped and lithium doped Nb ₂ O ₅ films prepared by the sol-gel method. <i>Electrochimica Acta</i> , 2001 , 46, 2113-2118	6.7	26
12	Ferroelectric and microstructural characteristics of SrBi ₂ Ta ₂ O ₉ thin films crystallized by the rapid thermal annealing process. <i>Journal of Applied Physics</i> , 2001 , 89, 3416-3419	2.5	14
11	Synthesis and electrochromic behavior of lithium-doped WO ₃ films. <i>Journal of Non-Crystalline Solids</i> , 2001 , 290, 115-121	3.9	37
10	Role of oxygen at the grain boundary of metal oxide varistors: A potential barrier formation mechanism. <i>Applied Physics Letters</i> , 2001 , 79, 48-50	3.4	144
9	Dynamic Processes in the Coloration of WO ₃ by Lithium Insertion. <i>Journal of the Electrochemical Society</i> , 2001 , 148, E302	3.9	40
8	Nature of the Schottky-type barrier of highly dense SnO ₂ systems displaying nonohmic behavior. <i>Journal of Applied Physics</i> , 2000 , 88, 6545-6548	2.5	90
7	Microstructure and electric properties of a SnO ₂ based varistor. <i>Ceramics International</i> , 1999 , 25, 1-6	5.1	91
6	The influence of sintering process and atmosphere on the non-ohmic properties of SnO ₂ based varistor. <i>Journal of Materials Science: Materials in Electronics</i> , 1999 , 10, 321-327	2.1	69
5	Theoretical models for ac impedance of finite diffusion layers exhibiting low frequency dispersion. <i>Journal of Electroanalytical Chemistry</i> , 1999 , 475, 152-163	4.1	199
4	Electrical properties of the SnO ₂ -based varistor. <i>Journal of Materials Science: Materials in Electronics</i> , 1998 , 9, 159-165	2.1	59
3	Investigation of the electrical properties of SnO ₂ varistor system using impedance spectroscopy. <i>Journal of Applied Physics</i> , 1998 , 84, 3700-3705	2.5	141
2	Effect of Bi ₂ O ₃ addition on the microstructure and electrical properties of the SnO ₂ .CoO.Nb ₂ O ₅ varistor system. <i>Journal of Materials Science Letters</i> , 1997 , 16, 634-638		109
1	A new SnO ₂ -based varistor system. <i>Journal of Materials Science Letters</i> , 1995 , 14, 692		235