

Alain Pailleret

List of Publications by Year in descending order

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54
papers

1,016
citations

394421

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h-index

477307

29
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55
all docs

55
docs citations

55
times ranked

1239
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of doping ions in the corrosion protection of iron by polypyrrole films. <i>Electrochimica Acta</i> , 2005, 50, 1747-1755.	5.2	120
2	In situ formation and scanning electrochemical microscopy assisted positioning of NO-sensors above human umbilical vein endothelial cells for the detection of nitric oxide release. <i>Electrochemistry Communications</i> , 2003, 5, 847-852.	4.7	57
3	New Insights into Pseudocapacitive Charge-Storage Mechanisms in Li-Birnessite Type MnO ₂ Monitored by Fast Quartz Crystal Microbalance Methods. <i>Journal of Physical Chemistry C</i> , 2014, 118, 26551-26559.	3.1	49
4	Electrochemical recognition of metal cations by poly(crown ether ferrocene) films investigated by cyclic voltammetry and electrochemical impedance spectroscopy. <i>Journal of Electroanalytical Chemistry</i> , 1999, 464, 24-30.	3.8	45
5	Nickel tetrasulfonated phthalocyanine based platinum microelectrode array for nitric oxide oxidation. <i>Electrochemistry Communications</i> , 2002, 4, 922-927.	4.7	39
6	Functionalised electrode array for the detection of nitric oxide released by endothelial cells using different NO-sensing chemistries. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 378, 1594-1600.	3.7	37
7	Atomic Force Microscopy Study of the Adsorption of Surfactant Corrosion Inhibitor Films. <i>Corrosion</i> , 2014, 70, 247-260.	1.1	34
8	Hybrid Materials from Carbon Nanotubes, Nickel Tetrasulfonated Phthalocyanine and Thin Polymer Layers for the Selective Electrochemical Activation of Nitric Oxide in Solution. <i>Electroanalysis</i> , 2009, 21, 2303-2310.	2.9	33
9	Electrochemical oxidation of a hexasulfonated calix[6]arene. <i>Journal of Electroanalytical Chemistry</i> , 2001, 508, 81-88.	3.8	32
10	Photo-assisted electrodeposition of an electrochemically active polypyrrole layer on anatase type titanium dioxide nanotube arrays. <i>Electrochimica Acta</i> , 2014, 129, 211-221.	5.2	30
11	In situ detection and characterization of potable water biofilms on materials by microscopic, spectroscopic and electrochemistry methods. <i>Electrochimica Acta</i> , 2008, 54, 66-73.	5.2	25
12	pH sensing in aqueous solutions using a MnO ₂ thin film electrodeposited on a glassy carbon electrode. <i>Electrochimica Acta</i> , 2011, 56, 9746-9755.	5.2	25
13	Photocurrent Generation in Carbon Nitride and Carbon Nitride/Conjugated Polymer Composites. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4579-4587.	8.0	25
14	Chemical synthesis of hollow sea urchin like nanostructured polypyrrole particles through a core-shell redox mechanism using a MnO ₂ powder as oxidizing agent and sacrificial nanostructured template. <i>Synthetic Metals</i> , 2013, 175, 192-199.	3.9	25
15	Improvement of capacitive performances of symmetric carbon/carbon supercapacitors by addition of nanostructured polypyrrole powder. <i>Journal of Power Sources</i> , 2016, 307, 297-307.	7.8	25
16	Electrochemical recognition of metal cations by redox-active receptors in homogeneous solution and in polymer films: some relevant examples. <i>Sensors and Actuators B: Chemical</i> , 1999, 59, 118-122.	7.8	23
17	Surface reactivity of polypyrrole/iron-oxide nanoparticles: electrochemical and CS-AFM investigations. <i>Journal of Solid State Electrochemistry</i> , 2007, 11, 1013-1021.	2.5	22
18	Correlation between ion-exchange properties and swelling/shrinking processes in hexasulfonated calix[6]arene doped polypyrrole films: ac-electrogravimetry and electrochemical atomic force microscopy investigations. <i>Electrochimica Acta</i> , 2011, 56, 3516-3525.	5.2	22

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19	Electrochemical activity of phenolic calixarenes. <i>Electrochemistry Communications</i> , 2003, 5, 68-72.	4.7	21
20	A new sol-gel synthesis of Mn ₃ O ₄ oxide and its electrochemical behavior in alkaline medium. <i>Ionics</i> , 2012, 18, 365-370.	2.4	19
21	Electrochemical sensing of nitric oxide for biological systems: methodological approach and new insights in examining interfering compounds. <i>Talanta</i> , 2003, 61, 53-59.	5.5	18
22	Atomic Force Microscopy Studies of Carbon Nitride (CN _x) Films Deposited on a Conducting Polymer Substrate. <i>Journal of Physical Chemistry C</i> , 2010, 114, 18474-18480.	3.1	17
23	Electrosynthesis and coordination chemistry of poly(ferrocene- <i>bipyridyl</i>) films. <i>Journal of Electroanalytical Chemistry</i> , 2000, 484, 164-171.	3.8	16
24	Interfacial Behavior of p-Hexasulfonato-calix[6]arene at Glassy Carbon Electrodes in Alkaline Aqueous Solution Studied by Voltammetric Methods. <i>Langmuir</i> , 2002, 18, 9447-9452.	3.5	15
25	On the mitigation of erosion/corrosion of copper by a drag-reducing cationic surfactant in turbulent flow conditions using a rotating cage. <i>Electrochimica Acta</i> , 2007, 52, 7786-7795.	5.2	15
26	Influence of electrochemical pre-treatment on highly reactive carbon nitride thin films deposited on stainless steel for electrochemical applications. <i>Electrochimica Acta</i> , 2012, 75, 131-138.	5.2	15
27	Influence of the atomic nitrogen content in amorphous carbon nitride thin films on the modulation of their polarizable interfaces properties. <i>Electrochimica Acta</i> , 2018, 280, 238-247.	5.2	15
28	Electrodeposition of Polypyrrole in TiO ₂ Nanotube Arrays by Pulsed-Light and Pulsed-Potential Methods. <i>Journal of Physical Chemistry C</i> , 2014, 118, 26341-26350.	3.1	14
29	Influence of the Incorporation of CeO ₂ Nanoparticles on the Ion Exchange Behavior of Dodecylsulfate Doped Polypyrrole Films: Ac-Electrogravimetry Investigations. <i>Electrochimica Acta</i> , 2014, 145, 270-280.	5.2	14
30	Electrochemical impedance spectroscopy characterization of conducting polymer/TiO ₂ nanotube array hybrid structures. <i>Journal of Electroanalytical Chemistry</i> , 2015, 737, 37-45.	3.8	14
31	Electrochemical behaviour of (111) B-Doped Polycrystalline Diamond: Morphology/surface conductivity/activity assessed by EIS and CS-AFM. <i>Diamond and Related Materials</i> , 2011, 20, 1-10.	3.9	13
32	Investigations on the corrosion of copper patterns in the course of the "post-CMP cleaning" of integrated electronic microcircuits in oxalic acid aqueous solutions. <i>Electrochimica Acta</i> , 2007, 53, 1325-1335.	5.2	12
33	Ions/Solvent Exchanges and Electromechanical Processes in Hexasulfonated Calix[6]Arene Doped Polypyrrole Films: Towards a Relaxation Mechanism. <i>Electrochemical and Solid-State Letters</i> , 2011, 14, F9.	2.2	12
34	Electrochemical oxidation of a tetraester calix[4]arene. <i>Electrochemistry Communications</i> , 2001, 3, 24-27.	4.7	11
35	Carbon nanowalls functionalization for efficient O ₂ reduction catalyzed by laccase using design of experiment. <i>Applied Surface Science</i> , 2021, 547, 149112.	6.1	11
36	One-step deposition of diamond-like carbon films containing self-assembled metallic nanoparticles, by femtosecond pulsed laser ablation. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 90, 211-217.	2.3	9

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37	Amorphization and Polymorphism Modification of Polyamide-6 Films via Open-Air Non-Equilibrium Atmospheric Pressure Plasma Jet Treatment. <i>Plasma Processes and Polymers</i> , 2014, 11, 961-973.	3.0	9
38	Wall shear stress mapping in the rotating cage geometry and evaluation of drag reduction efficiency using an electrochemical method. <i>Corrosion Science</i> , 2009, 51, 1809-1816.	6.6	8
39	Improvement of electrochemical detection of transthyretin synthetic peptide and its amino acids on carbon electrodes: Glassy carbon versus amorphous carbon nitride a-CN _x . <i>Electrochimica Acta</i> , 2019, 296, 251-258.	5.2	8
40	Influence of Dodecylsulfate Adsorption on the Stability of Cerium Oxide Nanoparticle-Based Colloidal Aqueous Dispersions. <i>Langmuir</i> , 2020, 36, 14563-14572.	3.5	8
41	Electropolymerized Metalloporphyrin Metallophthalocyanine and Metal Schiff Base Complex Films: Applications to Biomimetic Electrocatalysis and Bioelectroanalysis. , 2006, , 363-438.		7
42	Characterization of Counterion and Surface Influence on Micelle Formation Using Tapping Mode Atomic Force Microscopy in Air. <i>Journal of Physical Chemistry B</i> , 2006, 110, 21710-21718.	2.6	7
43	Synthesis and electrochemical study of a tetra(ester thiophene)calix[4]arene: ionic recognition and electropolymerisation behaviour. <i>Journal of Materials Chemistry</i> , 2002, 12, 2665-2670.	6.7	6
44	Comparative AFM nanoscratching tests in air of bulk copper and electrogenerated cuprous oxide films. <i>Surface Science</i> , 2011, 605, 121-130.	1.9	6
45	Orientation of a <i>Trametes versicolor</i> laccase on amorphous carbon nitride coated graphite electrodes for improved electroreduction of dioxygen to water. <i>Electrochimica Acta</i> , 2018, 277, 255-267.	5.2	5
46	Amorphous carbon nitride microband integrated in a microfluidic device for DNA biosensors applications. <i>Journal of Electroanalytical Chemistry</i> , 2021, 895, 115395.	3.8	5
47	Switching of the ion exchange behaviour of PEDOT thin films during a potential cycling: An electrochemical atomic force microscopy study. <i>Electrochimica Acta</i> , 2021, 389, 138651.	5.2	4
48	Self-Assembling of Redox-Active Atrazine Poly(ethylenimine) Conjugates – Interfacial Electrochemical and Spectroscopic Characterization. <i>Electroanalysis</i> , 2006, 18, 684-694.	2.9	3
49	Determination of surface amine groups on amorphous carbon nitride thin films using a one step covalent grafting of a redox probe. <i>Electrochimica Acta</i> , 2014, 136, 473-482.	5.2	3
50	Quantification of the adsorption of methyl viologen on pyrex glass using a renewable perfluorosulfonated ionomer carbon paste electrode. <i>Electroanalysis</i> , 1997, 9, 378-382.	2.9	2
51	AFM Characterization of Copper Dendritic Growths in Integrated Electronic Microcircuits. <i>Electrochemical and Solid-State Letters</i> , 2008, 11, D5.	2.2	2
52	Sustained Photovoltaic Effect from Nitrogen Rich Carbon Nitride (CN _x) Prepared by Reactive Magnetron Sputtering. <i>Russian Journal of Electrochemistry</i> , 2020, 56, 859-867.	0.9	2
53	Adsorption and self-assembly of a ferrocene d- and l-nonapeptide disulfide onto gold and mica substrates. <i>New Journal of Chemistry</i> , 2014, 38, 3637-3643.	2.8	1
54	Increasing the Efficiency of Amino Acids Detection by Electrochemical Methods on Amorphous Carbon Nitride a-CN _x Electrodes. <i>ECS Transactions</i> , 2018, 85, 1449-1457.	0.5	0