

Laura Pigani

List of Publications by Year in descending order

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88
papers

1,966
citations

172457
29
h-index

302126
39
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91
all docs

91
docs citations

91
times ranked

2201
citing authors

#	ARTICLE	IF	CITATIONS
1	Electropolymerisation of 3,4-ethylenedioxythiophene in aqueous solutions. <i>Electrochemistry Communications</i> , 2004, 6, 1192-1198.	4.7	88
2	Development of an electronic tongue based on a PEDOT-modified voltammetric sensor. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 2101-2110.	3.7	71
3	Chemical and electrochemical properties of a hydrophobic deep eutectic solvent. <i>Electrochimica Acta</i> , 2019, 295, 124-129.	5.2	68
4	Recent advances in the direct electrochemical detection of drugs of abuse. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 2603-2616.	2.5	67
5	Amperometric sensors based on poly(3,4-ethylenedioxythiophene)-modified electrodes: Discrimination of white wines. <i>Analytica Chimica Acta</i> , 2008, 614, 213-222.	5.4	61
6	UPS, XPS, and NEXAFS Study of Self-Assembly of Standing 1,4-Benzenedimethanethiol SAMs on Gold. <i>Langmuir</i> , 2011, 27, 4713-4720.	3.5	61
7	Polythiophene Derivative Conducting Polymer Modified Electrodes and Microelectrodes for Determination of Ascorbic Acid. Effect of Possible Interferents. <i>Electroanalysis</i> , 2002, 14, 519-525.	2.9	55
8	Electrochemical preparation and characterisation of bilayer films composed by Prussian Blue and conducting polymer. <i>Electrochemistry Communications</i> , 2002, 4, 753-758.	4.7	53
9	A poly(3,4-ethylenedioxythiophene)-poly(styrene sulphonate) composite electrode coating in the electrooxidation of phenol. <i>Electrochimica Acta</i> , 2005, 50, 1685-1691.	5.2	51
10	Classification of red wines by chemometric analysis of voltammetric signals from PEDOT-modified electrodes. <i>Analytica Chimica Acta</i> , 2009, 643, 67-73.	5.4	50
11	Development and characterisation of a novel composite electrode material consisting of poly(3,4-ethylenedioxythiophene) including Au nanoparticles. <i>Electrochimica Acta</i> , 2008, 53, 3916-3923.	5.2	49
12	p- and n-doping processes in polythiophene with reduced bandgap. An electrochemical impedance spectroscopy study. <i>Electrochimica Acta</i> , 2001, 46, 2721-2732.	5.2	46
13	Electrochemical, spectroscopic and microscopic characterisation of novel poly(3,4-ethylenedioxythiophene)/gold nanoparticles composite materials. <i>Journal of Electroanalytical Chemistry</i> , 2008, 619-620, 75-82.	3.8	45
14	New One-Step Thiol Functionalization Procedure for Ni by Self-Assembled Monolayers. <i>Langmuir</i> , 2015, 31, 3546-3552.	3.5	42
15	In situ atomic force microscopy in the study of electrogeneration of polybithiophene on Pt electrode. <i>Electrochimica Acta</i> , 2005, 50, 1497-1503.	5.2	39
16	Structural and electronic properties of anisotropic ultrathin organic films from dichroic resonant soft x-ray reflectivity. <i>Physical Review B</i> , 2014, 89, .	3.2	37
17	Data fusion of electronic eye and electronic tongue signals to monitor grape ripening. <i>Talanta</i> , 2019, 195, 181-189.	5.5	37
18	Electro-oxidation of chlorophenols on poly(3,4-ethylenedioxythiophene)-poly(styrene sulphonate) composite electrode. <i>Electrochimica Acta</i> , 2007, 52, 1910-1918.	5.2	36

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19	Toward the Development of Combined Artificial Sensing Systems for Food Quality Evaluation: A Review on the Application of Data Fusion of Electronic Noses, Electronic Tongues and Electronic Eyes. <i>Sensors</i> , 2022, 22, 577.	3.8	36
20	Poly(3,4-ethylenedioxythiophene)/Au-nanoparticles composite as electrode coating suitable for electrocatalytic oxidation. <i>Electrochimica Acta</i> , 2011, 56, 3575-3579.	5.2	35
21	Spin-dependent electrochemistry: Enantio-selectivity driven by chiral-induced spin selectivity effect. <i>Electrochimica Acta</i> , 2018, 286, 271-278.	5.2	35
22	Density and volumetric properties of ethane-1,2-diol+di-ethylen-glycol mixtures at different temperatures. <i>Fluid Phase Equilibria</i> , 2000, 172, 93-104.	2.5	34
23	Structure and properties of 1,4-benzenedimethanethiol films grown from solution on Au(111): An XPS and NEXAFS study. <i>Surface Science</i> , 2007, 601, 1419-1427.	1.9	34
24	New Insights on the Interaction between Thiophene Derivatives and Au Surfaces. The Case of 3,4-Ethylenedioxythiophene and the Relevant Polymer. <i>Journal of Physical Chemistry C</i> , 2011, 115, 17836-17844.	3.1	34
25	On sulfur core level binding energies in thiol self-assembly and alternative adsorption sites: An experimental and theoretical study. <i>Journal of Chemical Physics</i> , 2015, 143, 104702.	3.0	34
26	Pedot modified electrodes in amperometric sensing for analysis of red wine samples. <i>Food Chemistry</i> , 2011, 129, 226-233.	8.2	32
27	3-Methylthiophene Self-Assembled Monolayers on Planar and Nanoparticle Au Surfaces. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19397-19402.	2.6	31
28	Differential Pulse Techniques on Modified Conventional-Size and Microelectrodes. Electroactivity of Poly[4,4-bis(butylsulfanyl)-2,2-bithiophene] Coating Towards Dopamine and Ascorbic Acid Oxidation. <i>Electroanalysis</i> , 2003, 15, 715-725.	2.9	29
29	Lying-Down to Standing-Up Transitions in Self Assembly of Butanedithiol Monolayers on Gold and Substitutional Assembly by Octanethiols. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4625-4631.	3.1	29
30	Development of an Electrochemical Sensor for NADH Determination Based on a Caffeic Acid Redox Mediator Supported on Carbon Black. <i>Chemosensors</i> , 2015, 3, 118-128.	3.6	29
31	Synthesis and electrochemical polymerisation of 3 α -functionalised terthiophenes. <i>Electrochimica Acta</i> , 2006, 51, 4859-4864.	5.2	28
32	1,4-Benzenedimethanethiol Interaction with Au(110), Ag(111), Cu(100), and Cu(111) Surfaces: Self-Assembly and Dissociation Processes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 26866-26876.	3.1	26
33	Electropolymerization of ortho-phenylenediamine. Structural characterisation of the resulting polymer film and its interfacial capacitive behaviour. <i>Journal of Electroanalytical Chemistry</i> , 2013, 710, 22-28.	3.8	23
34	Amperometric sensing. A melting pot for material, electrochemical, and analytical sciences. <i>Electrochimica Acta</i> , 2015, 179, 350-363.	5.2	23
35	Effective catalytic electrode system based on polyviologen and Au nanoparticles multilayer. <i>Sensors and Actuators B: Chemical</i> , 2010, 144, 92-98.	7.8	21
36	Electropolymerisation and characterisation of poly[4,4-bis(butylsulphanil)-2,2-bithiophene]. <i>Electrochimica Acta</i> , 2001, 46, 881-889.	5.2	20

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37	Electronic eye for the prediction of parameters related to grape ripening. <i>Talanta</i> , 2018, 186, 381-388.	5.5	20
38	Prediction of parameters related to grape ripening by multivariate calibration of voltammetric signals acquired by an electronic tongue. <i>Talanta</i> , 2018, 178, 178-187.	5.5	19
39	Redox-Active Ferrocene grafted on H-Terminated Si(111): Electrochemical Characterization of the Charge Transport Mechanism and Dynamics. <i>Scientific Reports</i> , 2019, 9, 8735.	3.3	18
40	Electrochemical Sensing of Caffeic Acid Using Gold Nanoparticles Embedded in Poly(3,4-ethylenedioxythiophene) Layer by Sinusoidal Voltage Procedure. <i>Chemosensors</i> , 2019, 7, 65.	3.6	18
41	Development of an electrochemical sensor based on carbon black for the detection of cannabidiol in vegetable extracts. <i>Analyst</i> , 2021, 146, 612-619.	3.5	18
42	Adsorptive-Stripping Voltammetry at PEDOT-Modified Electrodes. Determination of Epicatechin. <i>Food Analytical Methods</i> , 2014, 7, 754-760.	2.6	17
43	A Deep Eutectic Solvent-based Amperometric Sensor for the Detection of Low Oxygen Contents in Gaseous Atmospheres. <i>Electroanalysis</i> , 2016, 28, 757-763.	2.9	17
44	From solid state to <i>in vitro</i> anticancer activity of copper(II) compounds with electronically-modulated NNO Schiff base ligands. <i>Dalton Transactions</i> , 2020, 49, 14626-14639.	3.3	17
45	Influence of the nature of the supporting electrolyte on the formation of poly[4,4'-bis(butylsulphanyl)-2,2'-bithiophene] films. A role for both counter-ion and co-ion in the polymer growth and p-doping processes. <i>Journal of Electroanalytical Chemistry</i> , 2004, 562, 231-239.	3.8	15
46	Relaxation phenomena and structural modifications of substituted polythiophenes during the p-doping processes. An electrochemical and morphological study. <i>Electrochimica Acta</i> , 2006, 51, 2698-2705.	5.2	15
47	Fast electroanalytical determination of Cannabidiol and Cannabinol in aqueous solution using Sonogel-Carbon-PEDOT devices. <i>Journal of Electroanalytical Chemistry</i> , 2020, 878, 114591.	3.8	15
48	Studies of the interface of conducting polymers with inorganic surfaces. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 1513-1535.	3.7	14
49	Unusual metals as electrode materials for electrochemical sensors. <i>Current Opinion in Electrochemistry</i> , 2019, 16, 157-163.	4.8	14
50	EQCM study of the p- and n-doping processes of a poly[4,4'-bis(butylsulphanyl)-2,2'-bithiophene]. <i>Journal of Electroanalytical Chemistry</i> , 2004, 570, 235-242.	3.8	13
51	Preparation and Characterization of a Redox Multilayer Film Containing Au Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2009, 113, 4868-4874.	3.1	13
52	PEDOT-Modified Microelectrodes. Preparation, Characterisation and Analytical Performances. <i>Electroanalysis</i> , 2012, 24, 1340-1347.	2.9	13
53	Graphene-modified electrode. Determination of hydrogen peroxide at high concentrations. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 3579-3586.	3.7	13
54	Photoemission and X-ray Absorption Study of the Interface between 3,4-Ethylenedioxythiophene-Related Derivatives and Gold. <i>Journal of Physical Chemistry C</i> , 2012, 116, 15010-15018.	3.1	12

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55	Density and Volume Properties of the 2-Methoxyethanol + 1,2-Dimethoxyethane + Water Ternary Solvent System at Various Temperatures. <i>Physics and Chemistry of Liquids</i> , 2001, 39, 151-168.	1.2	11
56	Determination of polyphenol content and colour index in wines through PEDOT-modified electrodes. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 7329-7338.	3.7	11
57	Selective Formation, Reactivity, Redox and Magnetic Properties of MnIII and FeIII Dinuclear Complexes with Shortened Salen-Type Schiff Base Ligands. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7882.	4.1	11
58	Viscosity of (ethane-1,2-diol + 1,2-dimethoxyethane + water) at temperatures from 263.15 K to 353.15 K. <i>Journal of Chemical Thermodynamics</i> , 2002, 34, 593-611.	2.0	10
59	Development of a Sensor System for the Determination of Sanitary Quality of Grapes. <i>Sensors</i> , 2013, 13, 4571-4580.	3.8	10
60	Case studies on the formation of chalcogenide self-assembled monolayers on surfaces and dissociative processes. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 263-277.	2.8	10
61	ZnO Functionalization: Metal-Dithiol Superstructures on ZnO(0001) by Self-Assembly. <i>Journal of Physical Chemistry C</i> , 2018, 122, 2880-2889.	3.1	10
62	Dielectric Properties in Ternary Mixtures of Ethane-1,2-diol + 1,2-Dimethoxyethane + Water. <i>International Journal of Thermophysics</i> , 2004, 25, 839-855.	2.1	9
63	Behaviour of Ti electrode in the amperometric determination of high concentrations of strong oxidising species. <i>Electrochemistry Communications</i> , 2013, 34, 138-141.	4.7	9
64	Exchange Interactions Drive Supramolecular Chiral Induction in Polyaniline. <i>Small Methods</i> , 2020, 4, 2000617.	8.6	9
65	The effect of Pd(ii) coordination on the properties of an alkylsulfanyl substituted polythiophene. Comparison with the corresponding monomer. <i>Journal of Materials Chemistry</i> , 2003, 13, 1287.	6.7	8
66	Synthesis, spectroscopic and electrochemical characterization of Co(II)-terpyridine based metallopolymer. <i>Electrochimica Acta</i> , 2018, 260, 314-323.	5.2	8
67	Electroanalytical determination of soluble Mn(II) species at high concentration levels. <i>Electrochimica Acta</i> , 2017, 240, 108-113.	5.2	7
68	Optoelectronic Properties of A ₂ C ₂ D ₂ C ₂ A Thiophene-Based Materials with a Dithienosilole Core: An Experimental and Theoretical Study. <i>ChemPlusChem</i> , 2019, 84, 1314-1323.	2.8	7
69	Spin dependent electrochemistry: Focus on chiral vs achiral charge transmission through 2D SAMs adsorbed on gold. <i>Journal of Electroanalytical Chemistry</i> , 2020, 856, 113705.	3.8	7
70	Palladium(II) derivatives of alkylsulfanyl substituted thiophenes as precursors of inorganic polymers: Spectroscopic, electrochemical investigations and X-ray crystal structure of trans-PdCl ₂ [3-(butylsulfanyl)thiophene] ₂ . <i>Inorganica Chimica Acta</i> , 2005, 358, 3033-3040.	2.4	6
71	Electroreduction of Chloramines Through Novel Electrode Materials. <i>Electroanalysis</i> , 2012, 24, 833-841.	2.9	6
72	Ti metal electrode as an unconventional amperometric sensor for determination of Au(III) species. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 983-990.	3.7	6

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73	A Study of the Dielectric Behaviour and the Liquid Structure of a Ternary Solvent System. <i>Annali Di Chimica</i> , 2004, 94, 165-176.	0.6	5
74	Electrochemical and spectroelectrochemical characterisation of poly(3,5-dihydroxymethyl-2,2,5,5-tetra-terthiophene). <i>Synthetic Metals</i> , 2006, 156, 984-989.	3.9	5
75	Simultaneous Detection of Glucose and Fructose in Synthetic Musts by Multivariate Analysis of Silica-Based Amperometric Sensor Signals. <i>Sensors</i> , 2021, 21, 4190.	3.8	4
76	Preparation and characterization of reusable Sonogel-Carbon electrodes containing carbon black: Application as amperometric sensors for determination of catechol. <i>Journal of Electroanalytical Chemistry</i> , 2020, 877, 114653.	3.8	4
77	Study of Ultrathin Prussian Blue Films Using in situ Electrochemical Surface Plasmon Resonance. <i>Collection of Czechoslovak Chemical Communications</i> , 2005, 70, 154-167.	1.0	3
78	Electrocatalytic and antifouling properties of CeO ₂ -glassy carbon electrodes. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 3125-3131.	2.5	3
79	Development of a redox polymer based on poly(2-hydroxyethyl methacrylate) for disposable amperometric sensors. <i>Electrochemistry Communications</i> , 2016, 62, 34-37.	4.7	3
80	Temperature and composition dependence of the refractive indices of the 2-chloroethanol + 2-methoxyethanol binary mixtures. <i>Annali Di Chimica</i> , 2002, 92, 187-201.	0.6	3
81	Spin control using chiral templated nickel. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	2
82	Carbon Black/Gold Nanoparticles Composite for Efficient Amperometric Sensors. <i>Lecture Notes in Electrical Engineering</i> , 2015, , 159-163.	0.4	2
83	Preparation of Poly(3,4-ethylenedioxythiophene) Films on Piezoelectric Quartz Crystal and their Gas Sensitivities. <i>ECS Transactions</i> , 2010, 25, 125-131.	0.5	1
84	Experimental design-based strategy for the simulation of complex gaseous mixture spectra to detect drug precursors. , 2012, , .		1
85	Voltammetric behaviour of Cu alloys toward hydrogen peroxide and organic species. <i>Electrochemistry Communications</i> , 2018, 90, 56-60.	4.7	1
86	Interpretation of linear dichroism at S L _{2,3} x-ray absorption edges of small organic molecules at surfaces. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2019, 232, 16-20.	1.7	1
87	Beta-functionalised polythiophenes as microelectrode modifiers in low conductive media. <i>Annali Di Chimica</i> , 2002, 92, 177-85.	0.6	1
88	Novel electrode systems for amperometric sensing: the case of titanium. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0