

Pascal Mailley

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,693
citations

236612

25
h-index

288905

40
g-index

61
all docs

61
docs citations

61
times ranked

2547
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in DNA sensors. <i>Analyst</i> , The, 2008, 133, 984.	1.7	121
2	Organic Electronics for Point-of-Care Metabolite Monitoring. <i>Trends in Biotechnology</i> , 2018, 36, 45-59.	4.9	104
3	Conducting Polymer Scaffolds for Hosting and Monitoring 3D Cell Culture. <i>Advanced Biology</i> , 2017, 1, 1700052.	3.0	89
4	XPS study of ruthenium tris-bipyridine electrografted from diazonium salt derivative on microcrystalline boron doped diamond. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 11647.	1.3	85
5	Referenceless pH Sensor using Organic Electrochemical Transistors. <i>Advanced Materials Technologies</i> , 2017, 2, 1600141.	3.0	72
6	Electrochemical immobilization of glucose oxidase in poly(amphiphilic pyrrole) films and its application to the preparation of an amperometric glucose sensor. <i>Analytica Chimica Acta</i> , 1994, 289, 143-153.	2.6	70
7	Nucleosides and ODN electrochemical detection onto boron doped diamond electrodes. <i>Bioelectrochemistry</i> , 2004, 63, 303-306.	2.4	69
8	Polypyrrole based DNA hybridization assays: study of label free detection processes versus fluorescence on microchips. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2003, 32, 687-696.	1.4	68
9	Electrochemical diamond sensors for TNT detection in water. <i>Electrochimica Acta</i> , 2009, 54, 5688-5693.	2.6	53
10	Scanning electrochemical microscopy (SECM): localized glucose oxidase immobilization via the direct electrochemical microspotting of polypyrrole-biotin films. <i>Electrochemistry Communications</i> , 2005, 7, 135-140.	2.3	48
11	Screen-printed organic electrochemical transistors for metabolite sensing. <i>MRS Communications</i> , 2015, 5, 507-511.	0.8	47
12	Comparison of Different Strategies on DNA Chip Fabrication and DNA-Sensing: Optical and Electrochemical Approaches. <i>Electroanalysis</i> , 2005, 17, 2001-2017.	1.5	45
13	Stable non-covalent functionalisation of multi-walled carbon nanotubes by pyrene-polyethylene glycol through π - π stacking. <i>New Journal of Chemistry</i> , 2009, 33, 1017-1024.	1.4	45
14	Quasi-Real Time Quantification of Uric Acid in Urine Using Boron Doped Diamond Microelectrode with <i>In Situ</i> Cleaning. <i>Analytical Chemistry</i> , 2012, 84, 10207-10213.	3.2	45
15	A New 3-D Finite-Element Model Based on Thin-Film Approximation for Microelectrode Array Recording of Extracellular Action Potential. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 683-692.	2.5	44
16	Multichannel Boron Doped Nanocrystalline Diamond Ultramicroelectrode Arrays: Design, Fabrication and Characterization. <i>Sensors</i> , 2012, 12, 7669-7681.	2.1	43
17	Micro-Imprinting of Oligonucleotides and Oligonucleotide Gradients on Gold Surfaces: A New Approach Based on the Combination of Scanning Electrochemical Microscopy and Surface Plasmon Resonance Imaging (SECM/ SPR-i). <i>Electroanalysis</i> , 2005, 17, 495-503.	1.5	38
18	Controlled electrochemical preparation of enzymatic layers for the design of amperometric biosensors. <i>Electroanalysis</i> , 1993, 5, 647-652.	1.5	36

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19	Thin film platinum cuff electrodes for neurostimulation: in vitro approach of safe neurostimulation parameters. <i>Bioelectrochemistry</i> , 2004, 63, 359-364.	2.4	32
20	Interfacing Boron Doped Diamond and Biology: An Insight on Its Use for Bioanalytical Applications. <i>Electroanalysis</i> , 2005, 17, 517-526.	1.5	30
21	Individual Blood-Cell Capture and 2D Organization on Microarrays. <i>Small</i> , 2009, 5, 1493-1497.	5.2	29
22	Biotin grafting on boron-doped diamond. <i>Chemical Communications</i> , 2003, , 2698.	2.2	28
23	Boron Doped Diamond Electrodes for Direct Measurement in Biological Fluids: An In Situ Regeneration Approach. <i>Journal of the Electrochemical Society</i> , 2013, 160, H67-H73.	1.3	26
24	Screen-Printed Polyaniline-Based Electrodes for the Real-Time Monitoring of Loop-Mediated Isothermal Amplification Reactions. <i>Analytical Chemistry</i> , 2017, 89, 10124-10128.	3.2	26
25	Enhanced Bipolar Electrochemistry at Solid-State Micropores: Demonstration by Wireless Electrochemiluminescence Imaging. <i>Analytical Chemistry</i> , 2019, 91, 8900-8907.	3.2	26
26	Amperometric detection of phenolic compounds by polypyrrole-based composite carbon paste electrodes. <i>Bioelectrochemistry</i> , 2004, 63, 291-296.	2.4	25
27	A robust ALD-protected silicon-based hybrid photoelectrode for hydrogen evolution under aqueous conditions. <i>Chemical Science</i> , 2019, 10, 4469-4475.	3.7	25
28	Electrochemical Characterizations of four Main Redox-metabolites of <i>Pseudomonas Aeruginosa</i> . <i>Electroanalysis</i> , 2017, 29, 1332-1340.	1.5	24
29	Polarization-Induced Local Pore-Wall Functionalization for Biosensing: From Micropore to Nanopore. <i>Analytical Chemistry</i> , 2012, 84, 3254-3261.	3.2	23
30	Contactless Electrofunctionalization of a Single Pore. <i>Small</i> , 2009, 5, 2297-2303.	5.2	22
31	Microfabrication, characterization and in vivo MRI compatibility of diamond microelectrodes array for neural interfacing. <i>Materials Science and Engineering C</i> , 2015, 46, 25-31.	3.8	22
32	Development of a multiparametric (bio)sensing platform for continuous monitoring of stress metabolites. <i>Talanta</i> , 2021, 229, 122275.	2.9	18
33	Amperometric Glucose Biosensors Based on Composite Polymeric Structures to Prevent Interferences. <i>Analytical Letters</i> , 2000, 33, 1733-1753.	1.0	17
34	A composite material made of carbon nanotubes partially embedded in a nanocrystalline diamond film. <i>Carbon</i> , 2013, 52, 408-417.	5.4	17
35	High Sensitivity of Diamond Resonant Microcantilevers for Direct Detection in Liquids As Probed by Molecular Electrostatic Surface Interactions. <i>Langmuir</i> , 2011, 27, 12226-12234.	1.6	16
36	New one step functionalization of polycrystalline diamond films using amine derivatives. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010, 16, 012001.	0.3	15

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37	Electrochemistry and bioactivity relationship of 6-substituted-4H-Pyrido[4,3,2-kl]acridin-4-one antitumor drug candidates. <i>Bioelectrochemistry</i> , 2012, 88, 103-109.	2.4	11
38	Functionalization of optical nanotip arrays with an electrochemical microcantilever for multiplexed DNA detection. <i>Lab on A Chip</i> , 2013, 13, 2956.	3.1	11
39	Experimental and Theoretical Investigations on the Adsorption of 2â€-deoxyguanosine Oxidation Products at Oxidized Boron-Doped Diamond Electrodes. <i>Analytical Chemistry</i> , 2007, 79, 3741-3746.	3.2	10
40	Electrochemical transduction of DNA hybridization at modified electrodes by using an electroactive pyridoacridone intercalator. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 1163-1172.	1.9	10
41	Conducting Polymers for DNA Sensors and DNA Chips: from Fabrication to Molecular Detection. <i>Perspectives in Bioanalysis</i> , 2005, 1, 297-330.	0.3	9
42	Selective Individual Primary Cell Capture Using Locally Bio-Functionalized Micropores. <i>PLoS ONE</i> , 2013, 8, e57717.	1.1	9
43	Evaluation of chronically implanted subdural boron doped diamond/CNT recording electrodes in miniature swine brain. <i>Bioelectrochemistry</i> , 2019, 129, 79-89.	2.4	9
44	Electrochemical detection of redox molecules secreted by <i>Pseudomonas aeruginosa</i> â€ Part 1: Electrochemical signatures of different strains. <i>Bioelectrochemistry</i> , 2021, 140, 107747.	2.4	9
45	Electrochemistry provides a simple way to monitor <i>Pseudomonas aeruginosa</i> metabolites. , 2015, 2015, 7522-5.		8
46	Reference method for off-line analysis of nitrogen oxides in cell culture media by an ozone-based chemiluminescence detector. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 1383-1393.	1.9	8
47	Characterization of the Impact of Classical Cellâ€culture Media on the Response of Electrochemical Sensors. <i>Electroanalysis</i> , 2022, 34, 1201-1211.	1.5	8
48	Wireless Enhanced Electrochemiluminescence at a Bipolar Microelectrode in a Solid-State Micropore. <i>Journal of the Electrochemical Society</i> , 2020, 167, 137509.	1.3	7
49	Inclusion of metal micro-particles into poly(pyrrolylalkylammonium) films containing an enzyme for bioelectrocatalysis: a preliminary study. <i>Talanta</i> , 2001, 55, 1005-1013.	2.9	5
50	Electrochemically Induced Maskless Metal Deposition on Micropore Wall. <i>Small</i> , 2012, 8, 1345-1349.	5.2	5
51	Polarization Induced Electro-Functionalization of Pore Walls: A Contactless Technology. <i>Biosensors</i> , 2019, 9, 121.	2.3	5
52	Local Bio-Sensitization of Nanocrystalline Boron Doped Diamond Surfaces with Biotin Using Electrospotting. <i>Sensor Letters</i> , 2009, 7, 872-879.	0.4	4
53	Cell specific electrodes for neuronal network reconstruction and monitoring. <i>Analyst, The</i> , 2014, 139, 3281.	1.7	4
54	Hierarchical titania nanostructures prepared with focused ion beam-assisted anodisation of titanium in an aqueous electrolyte. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 119, 107-113.	1.1	4

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55	Fully printed metabolite sensor using organic electrochemical transistor. Proceedings of SPIE, 2015, , .	0.8	4
56	New Microfluidic System for Electrochemical Impedance Spectroscopy Assessment of Cell Culture Performance: Design and Development of New Electrode Material. Biosensors, 2022, 12, 452.	2.3	4
57	Versatile Functionalization of Nanoelectrodes by Oligonucleotides via Pyrrole Electrochemistry. ChemPhysChem, 2010, 11, 3541-3546.	1.0	2
58	Rational Analysis of Layered Oxide Power Performance Limitations in a Lithium Battery Application. Advanced Sustainable Systems, 2017, 1, 1700078.	2.7	2
59	Electrochemical DNA-Hybridisation Detection via Enzymatic Amplification at Microelectrode Array Modified with Polypyrrole-Oligonucleotide Films. Sensor Letters, 2009, 7, 880-887.	0.4	2
60	Contactless Bioâ€Electrofunctionalization of Planar Micropores. Advanced Materials Technologies, 2021, 6, 2001154.	3.0	0