Jean Gamby

List of Publications by Year
in descending order

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57 papers	1,808 citations	516710 16 h-index	265206 42 g-index
57 all docs	57 docs citations	57 times ranked	2818 citing authors

#	Article	IF	Citations
1	An Integrated Multiple Electrochemical miRNA Sensing System Embedded into a Microfluidic Chip. Biosensors, 2022, 12, 145.	4.7	2
2	Diffusionâ€“convection impedance for a micro-band electrode under microfluidic conditions. Electrochemistry Communications, 2022, 137, 107262.	4.7	2
3	Magnetic Hyperthermia on Î³-Fe2O3@SiO2 Core-Shell Nanoparticles for mi-RNA 122 Detection. Nanomaterials, 2021, 11, 149.	4.1	12
4	Modeling the role played by nanoslit lengths on conductance changes into micro nano microfluidics devices. Electrochimica Acta, 2021, 374, 137930.	5.2	1
5	Implementation of Bounded Diffusion Impedance in a Model Pyeis to Correctly Simulate Flow Gradient on Channel-Electrode in Microfluidics. ECS Meeting Abstracts, 2021, MA2021-01, 1599-1599.	0.0	0
6	Amorphous carbon nitride microband integrated in a microfluidic device for DNA biosensors applications. Journal of Electroanalytical Chemistry, 2021, 895, 115395.	3.8	5
7	Release and Detection of microRNA by Combining Magnetic Hyperthermia and Electrochemistry Modules on a Microfluidic Chip. Sensors, 2021, 21, 185.	3.8	7
8	Electropreconcentration diagrams to optimize molecular enrichment with low counter pressure in a nanofluidic device. Electrophoresis, 2020, 41, 1617-1626.	2.4	4
9	Preconcentration, Release and Electrochemical Detection of microRNA on Microfluidics. ECS Meeting Abstracts, 2020, MA2020-01, 2339-2339.	0.0	0
10	Electrochemical Detection of Micro-RNAs on an Amorphous Carbon Nitride a-CNx Working Electrode in a Microfluidic Chip. ECS Meeting Abstracts, 2020, MA2020-01, 1996-1996.	0.0	0
11	Improvement of electrochemical detection of transthyretin synthetic peptide and its amino acids on carbon electrodes: Glassy carbon versus amorphous carbon nitride a-CNx. Electrochimica Acta, 2019, 296, 251-258.	5.2	8
12	Influence of the atomic nitrogen content in amorphous carbon nitride thin films on the modulation of their polarizable interfaces properties. Electrochimica Acta, 2018, 280, 238-247.	5.2	15
13	Increasing the Efficiency of Amino Acids Detection by Electrochemical Methods on Amorphous Carbon Nitride a-CNx Electrodes. ECS Transactions, 2018, 85, 1449-1457.	0.5	0
14	Logic digital fluidic in miniaturized functional devices: Perspective to the next generation of microfluidic labâ€onâ€chips. Electrophoresis, 2017, 38, 953-976.	2.4	43
15	(Invited) An Improved the Impedance Spectroscopy Measurements with Non-Contact Microelectrodes Embedded into a Flexible Polymer Comprising a Microfluidic Network. ECS Transactions, 2017, 75, 47-52.	0.5	1
16	Finite element modelling of non-faradic electric impedance spectroscopy through flexible polymer microchip. Journal of Electroanalytical Chemistry, 2017, 807, 203-212.	3.8	1
17	Determination of the isomeric forms proportion of fluorogenic naphthalene-2,3-dicarboxaldehyde in a binary mixture of water:methanol using electrochemical methods. Talanta, 2016, 148, 494-501.	5.5	1
18	Dielectric properties of a single nanochannel investigated by high-frequency impedance spectroscopy. Electrochemistry Communications, 2016, 66, 5-9.	4.7	6

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19	Electrical impedance spectroscopy of a PET chip sandwiched between two disk electrodes: understanding the contribution of the polymer/electrode interface. Physical Chemistry Chemical Physics, 2016, 18, 20583-20590.	2.8	8
20	DNA Electrochemical Hybridization Detection in Droplets Using Gold Ultramicroelectrodes in a Two-Electrode Configuration. ECS Transactions, 2016, 72, 1-6.	0.5	0
21	Electrochemical DNA biosensors based on long-range electron transfer: investigating the efficiency of a fluidic channel microelectrode compared to an ultramicroelectrode in a two-electrode setup. Lab on A Chip, 2016, 16, 4373-4381.	6.0	29
22	Improvement of capacitive performances of symmetric carbon/carbon supercapacitors by addition of nanostructured polypyrrole powder. Journal of Power Sources, 2016, 307, 297-307.	7.8	25
23	Modelling of delay effect of calcium carbonate deposition kinetics on rotating disk electrode in the presence of green inhibitor. Electrochimica Acta, 2016, 189, 118-127.	5.2	19
24	Study of Surface Charge Instabilities by EOF Measurements on a Chip: A Real-Time Hysteresis and Peptide Adsorption Based Methodology. Langmuir, 2015, 31, 10318-10325.	3.5	1
25	Dielectric impedance spectroscopy of polymer-coated microelectrodes for adsorption monitoring of proteins within polymer microchannels. Journal of Electroanalytical Chemistry, 2015, 737, 108-113.	3.8	3
26	Microchannel conductivity measurements in microchip for on line monitoring of dephosphorylation rates of organic phosphates using paramagnetic-beads linked alkaline phosphatase. Talanta, 2015, 132, 785-789.	5.5	3
27	A real time affinity biosensor on an insulated polymer using electric impedance spectroscopy in dielectric microchips. Analyst, The, 2014, 139, 3115-3121.	3.5	7
28	Dynamics of BSA adsorption onto a photoablated polymer surface in a dielectric microchip. Analyst, The, 2014, 139, 1492-1497.	3.5	3
29	Improved electrochemical detection of a transthyretin synthetic peptide in the nanomolar range with a two-electrode system integrated in a glass/PDMS microchip. Lab on A Chip, 2014, 14, 2800-2805.	6.0	21
30	Investigating the kinetics of paramagnetic-beads linked alkaline phosphatase enzyme through microchannel resistance measurement in dielectric microchip. Biosensors and Bioelectronics, 2014, 58, 61-67.	10.1	8
31	Inhibition of calcium carbonate precipitation by aqueous extract of Paronychia argentea. Journal of Crystal Growth, 2014, 386, 208-214.	1.5	34
32	Electrochemiluminescence on-a-chip: Towards a hand-held electrically powered optofluidic source. Talanta, 2014, 129, 150-154.	5.5	4
33	Investigating the Kinetics of Antibody Adsorption onto Polyethylene Terephthalate (PET) Modified with Gold Nanoparticles in Flow Microchannel. Journal of Flow Chemistry, 2014, 4, 66-71.	1.9	1
34	Polymer microchip impedance spectroscopy through two parallel planar embedded microelectrodes: Understanding the impedance contribution of the surrounding polymer on the measurement accuracy. Electrochimica Acta, 2013, 105, 7-14.	5.2	11
35	Nucleation-growth process of calcium carbonate on rotating disk electrode in mineral potable water. Electrochimica Acta, 2013, 109, 623-629.	5.2	17
36	Preparation of activated carbon from Turbinaria turbinata seaweeds and its use as supercapacitor electrode materials. Comptes Rendus Chimie, 2013, 16, 73-79.	0.5	27

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37	Investigating of labelling and detection of transthyretin synthetic peptide derivatized with naphthalene-2,3-dicarboxaldehyde. Talanta, 2013, 116, 8-13.	5.5	9
38	Contact Free Impedance Methodology for Investigating Enzymatic Reactions into Dielectric Polymer Microchip. Electroanalysis, 2013, 25, 1151-1158.	2.9	9
39	Free Contact Microchannel Impedance Through Two Antiparallel Planar Microelectrodes. Journal of Flow Chemistry, 2013, 3, 81-86.	1.9	8
40	Rotating disk electrodes to assess river biofilm thickness and elasticity. Water Research, 2011, 45, 1347-1357.	11.3	17
41	An integrated on chip organic optical source based on electrochemiluminescence. Microelectronic Engineering, 2011, 88, 1798-1800.	2.4	3
42	Microelectrochemistry of copper in NaCl solution: Comparison between conventional microelectrode and microelectrochemical cell. Electrochemistry Communications, 2010, 12, 1230-1232.	4.7	23
43	Polycarbonate microchannel network with carpet of Gold NanoWires as SERS-active device. Lab on A Chip, 2009, 9, 1806.	6.0	45
44	In situ detection and characterization of potable water biofilms on materials by microscopic, spectroscopic and electrochemistry methods. Electrochimica Acta, 2008, 54, 66-73.	5.2	25
45	Nanomosaic Network for the Detection of Proteins Without Direct Electrical Contact. Small, 2008, 4, 802-809.	10.0	12
46	Electroacoustic Polymer Microchip as an Alternative to Quartz Crystal Microbalance for Biosensor Development. Analytical Chemistry, 2008, 80, 8900-8907.	6.5	14
47	Electroacoustic miniaturized DNA-biosensor. Lab on A Chip, 2007, 7, 1607.	6.0	15
48	Nanowires Network for Biomolecular Detection Using Contactless Impedance Tomoscopy Technique. Analytical Chemistry, 2006, 78, 5289-5295.	6.5	29
49	CaractÃ©risations par microscopie, spectroscopie et Ã©lectrochimie d'un biofilm Ã partir d'une eau potable sur acier inoxydable. Materiaux Et Techniques, 2006, 94, 441-454.	0.9	0
50	Supercapacitive Admittance Tomoscopy. Journal of the American Chemical Society, 2005, 127, 13300-13304.	13.7	24
51	A flexible sample introduction method for polymer microfluidic chips using a push/pull pressure pump. Lab on A Chip, 2004, 4, 512.	6.0	28
52	Investigating the Dynamics of Carbanion Protonation by Means of Laser Flash Electron Photoinjection from an Electrode. Journal of Physical Chemistry A, 2003, 107, 7445-7453.	2.5	8
53	Evidence for Inverted Region Behavior in Proton Transfer to Carbanions. Journal of the American Chemical Society, 2003, 125, 10119-10124.	13.7	47
54	Dynamics of Proton Transfer at Nonactivated Carbons from Laser Flash Electron Photoinjection Experiments. Journal of the American Chemical Society, 2002, 124, 8798-8799.	13.7	11

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55	Studies and characterisations of various activated carbons used for carbon/carbon supercapacitors. Journal of Power Sources, 2001, 101, 109-116.	7.8	1,145
56	Overview of Materials for Microfluidic Applications. , 0, , .		7
57	Molecular Microfluidic Bioanalysis: Recent Progress in Preconcentration, Separation, and Detection. , 0, , .		0