

# 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	Studies and characterisations of various activated carbons used for carbon/carbon supercapacitors. <i>Journal of Power Sources</i> , 2001, 101, 109-116.	7.8	1,145
2	Evidence for Inverted Region Behavior in Proton Transfer to Carbanions. <i>Journal of the American Chemical Society</i> , 2003, 125, 10119-10124.	13.7	47
3	Polycarbonate microchannel network with carpet of Gold NanoWires as SERS-active device. <i>Lab on A Chip</i> , 2009, 9, 1806.	6.0	45
4	Logic digital fluidic in miniaturized functional devices: Perspective to the next generation of microfluidic lab-on-a-chips. <i>Electrophoresis</i> , 2017, 38, 953-976.	2.4	43
5	Inhibition of calcium carbonate precipitation by aqueous extract of <i>Paronychia argentea</i> . <i>Journal of Crystal Growth</i> , 2014, 386, 208-214.	1.5	34
6	Nanowires Network for Biomolecular Detection Using Contactless Impedance Tomoscopy Technique. <i>Analytical Chemistry</i> , 2006, 78, 5289-5295.	6.5	29
7	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. <i>Lab on A Chip</i> , 2016, 16, 4373-4381.	6.0	29
8	A flexible sample introduction method for polymer microfluidic chips using a push/pull pressure pump. <i>Lab on A Chip</i> , 2004, 4, 512.	6.0	28
9	Preparation of activated carbon from <i>Turbinaria turbinata</i> seaweeds and its use as supercapacitor electrode materials. <i>Comptes Rendus Chimie</i> , 2013, 16, 73-79.	0.5	27
10	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
11	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
12	Supercapacitive Admittance Tomoscopy. <i>Journal of the American Chemical Society</i> , 2005, 127, 13300-13304.	13.7	24
13	Microelectrochemistry of copper in NaCl solution: Comparison between conventional microelectrode and microelectrochemical cell. <i>Electrochemistry Communications</i> , 2010, 12, 1230-1232.	4.7	23
14	Improved electrochemical detection of a transthyretin synthetic peptide in the nanomolar range with a two-electrode system integrated in a glass/PDMS microchip. <i>Lab on A Chip</i> , 2014, 14, 2800-2805.	6.0	21
15	Modelling of delay effect of calcium carbonate deposition kinetics on rotating disk electrode in the presence of green inhibitor. <i>Electrochimica Acta</i> , 2016, 189, 118-127.	5.2	19
16	Rotating disk electrodes to assess river biofilm thickness and elasticity. <i>Water Research</i> , 2011, 45, 1347-1357.	11.3	17
17	Nucleation-growth process of calcium carbonate on rotating disk electrode in mineral potable water. <i>Electrochimica Acta</i> , 2013, 109, 623-629.	5.2	17
18	Electroacoustic miniaturized DNA-biosensor. <i>Lab on A Chip</i> , 2007, 7, 1607.	6.0	15

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19	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
20	Electroacoustic Polymer Microchip as an Alternative to Quartz Crystal Microbalance for Biosensor Development. <i>Analytical Chemistry</i> , 2008, 80, 8900-8907.	6.5	14
21	Nanomosaic Network for the Detection of Proteins Without Direct Electrical Contact. <i>Small</i> , 2008, 4, 802-809.	10.0	12
22	Magnetic Hyperthermia on $\text{Fe}_3\text{O}_4/\text{SiO}_2$ Core-Shell Nanoparticles for mi-RNA 122 Detection. <i>Nanomaterials</i> , 2021, 11, 149.	4.1	12
23	Dynamics of Proton Transfer at Nonactivated Carbons from Laser Flash Electron Photoinjection Experiments. <i>Journal of the American Chemical Society</i> , 2002, 124, 8798-8799.	13.7	11
24	Polymer microchip impedance spectroscopy through two parallel planar embedded microelectrodes: Understanding the impedance contribution of the surrounding polymer on the measurement accuracy. <i>Electrochimica Acta</i> , 2013, 105, 7-14.	5.2	11
25	Investigating of labelling and detection of transthyretin synthetic peptide derivatized with naphthalene-2,3-dicarboxaldehyde. <i>Talanta</i> , 2013, 116, 8-13.	5.5	9
26	Contact Free Impedance Methodology for Investigating Enzymatic Reactions into Dielectric Polymer Microchip. <i>Electroanalysis</i> , 2013, 25, 1151-1158.	2.9	9
27	Investigating the Dynamics of Carbanion Protonation by Means of Laser Flash Electron Photoinjection from an Electrode. <i>Journal of Physical Chemistry A</i> , 2003, 107, 7445-7453.	2.5	8
28	Free Contact Microchannel Impedance Through Two Antiparallel Planar Microelectrodes. <i>Journal of Flow Chemistry</i> , 2013, 3, 81-86.	1.9	8
29	Investigating the kinetics of paramagnetic-beads linked alkaline phosphatase enzyme through microchannel resistance measurement in dielectric microchip. <i>Biosensors and Bioelectronics</i> , 2014, 58, 61-67.	10.1	8
30	Electrical impedance spectroscopy of a PET chip sandwiched between two disk electrodes: understanding the contribution of the polymer/electrode interface. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 20583-20590.	2.8	8
31	Improvement of electrochemical detection of transthyretin synthetic peptide and its amino acids on carbon electrodes: Glassy carbon versus amorphous carbon nitride a-CN <sub>x</sub> . <i>Electrochimica Acta</i> , 2019, 296, 251-258.	5.2	8
32	A real time affinity biosensor on an insulated polymer using electric impedance spectroscopy in dielectric microchips. <i>Analyst</i> , 2014, 139, 3115-3121.	3.5	7
33	Overview of Materials for Microfluidic Applications. , 0, , .		7
34	Release and Detection of microRNA by Combining Magnetic Hyperthermia and Electrochemistry Modules on a Microfluidic Chip. <i>Sensors</i> , 2021, 21, 185.	3.8	7
35	Dielectric properties of a single nanochannel investigated by high-frequency impedance spectroscopy. <i>Electrochemistry Communications</i> , 2016, 66, 5-9.	4.7	6
36	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

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37	Electrochemiluminescence on-a-chip: Towards a hand-held electrically powered optofluidic source. <i>Talanta</i> , 2014, 129, 150-154.	5.5	4
38	Electroconcentration diagrams to optimize molecular enrichment with low counter pressure in a nanofluidic device. <i>Electrophoresis</i> , 2020, 41, 1617-1626.	2.4	4
39	An integrated on chip organic optical source based on electrochemiluminescence. <i>Microelectronic Engineering</i> , 2011, 88, 1798-1800.	2.4	3
40	Dynamics of BSA adsorption onto a photoablated polymer surface in a dielectric microchip. <i>Analyst</i> , 2014, 139, 1492-1497.	3.5	3
41	Dielectric impedance spectroscopy of polymer-coated microelectrodes for adsorption monitoring of proteins within polymer microchannels. <i>Journal of Electroanalytical Chemistry</i> , 2015, 737, 108-113.	3.8	3
42	Microchannel conductivity measurements in microchip for on line monitoring of dephosphorylation rates of organic phosphates using paramagnetic-beads linked alkaline phosphatase. <i>Talanta</i> , 2015, 132, 785-789.	5.5	3
43	An Integrated Multiple Electrochemical miRNA Sensing System Embedded into a Microfluidic Chip. <i>Biosensors</i> , 2022, 12, 145.	4.7	2
44	Diffusion-convection impedance for a micro-band electrode under microfluidic conditions. <i>Electrochemistry Communications</i> , 2022, 137, 107262.	4.7	2
45	Investigating the Kinetics of Antibody Adsorption onto Polyethylene Terephthalate (PET) Modified with Gold Nanoparticles in Flow Microchannel. <i>Journal of Flow Chemistry</i> , 2014, 4, 66-71.	1.9	1
46	Study of Surface Charge Instabilities by EOF Measurements on a Chip: A Real-Time Hysteresis and Peptide Adsorption Based Methodology. <i>Langmuir</i> , 2015, 31, 10318-10325.	3.5	1
47	Determination of the isomeric forms proportion of fluorogenic naphthalene-2,3-dicarboxaldehyde in a binary mixture of water:methanol using electrochemical methods. <i>Talanta</i> , 2016, 148, 494-501.	5.5	1
48	(Invited) An Improved the Impedance Spectroscopy Measurements with Non-Contact Microelectrodes Embedded into a Flexible Polymer Comprising a Microfluidic Network. <i>ECS Transactions</i> , 2017, 75, 47-52.	0.5	1
49	Finite element modelling of non-faradic electric impedance spectroscopy through flexible polymer microchip. <i>Journal of Electroanalytical Chemistry</i> , 2017, 807, 203-212.	3.8	1
50	Modeling the role played by nanoslit lengths on conductance changes into micro nano microfluidics devices. <i>Electrochimica Acta</i> , 2021, 374, 137930.	5.2	1
51	Molecular Microfluidic Bioanalysis: Recent Progress in Preconcentration, Separation, and Detection. , 0, , .		0
52	DNA Electrochemical Hybridization Detection in Droplets Using Gold Ultramicroelectrodes in a Two-Electrode Configuration. <i>ECS Transactions</i> , 2016, 72, 1-6.	0.5	0
53	Increasing the Efficiency of Amino Acids Detection by Electrochemical Methods on Amorphous Carbon Nitride a-CN <sub>x</sub> Electrodes. <i>ECS Transactions</i> , 2018, 85, 1449-1457.	0.5	0
54	Implementation of Bounded Diffusion Impedance in a Model Pyeis to Correctly Simulate Flow Gradient on Channel-Electrode in Microfluidics. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1599-1599.	0.0	0

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55	Caractérisations par microscopie, spectroscopie et électrochimie d'un biofilm à partir d'une eau potable sur acier inoxydable. <i>Materiaux Et Techniques</i> , 2006, 94, 441-454.	0.9	0
56	Preconcentration, Release and Electrochemical Detection of microRNA on Microfluidics. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 2339-2339.	0.0	0
57	Electrochemical Detection of Micro-RNAs on an Amorphous Carbon Nitride a-CN <sub>x</sub> Working Electrode in a Microfluidic Chip. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 1996-1996.	0.0	0