

Josã© Alberto Fracassi da Silva

List of Publications by Year in descending order

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88
papers

3,267
citations

172457

29
h-index

149698

56
g-index

90
all docs

90
docs citations

90
times ranked

2550
citing authors

#	ARTICLE	IF	CITATIONS
1	An Oscillometric Detector for Capillary Electrophoresis. <i>Analytical Chemistry</i> , 1998, 70, 4339-4343.	6.5	489
2	Understanding Capacitively Coupled Contactless Conductivity Detection in Capillary and Microchip Electrophoresis. Part 1. Fundamentals. <i>Electroanalysis</i> , 2005, 17, 1198-1206.	2.9	229
3	Understanding Capacitively Coupled Contactless Conductivity Detection in Capillary and Microchip Electrophoresis. Part 2. Peak Shape, Stray Capacitance, Noise, and Actual Electronics. <i>Electroanalysis</i> , 2005, 17, 1207-1214.	2.9	166
4	A Dry Process for Production of Microfluidic Devices Based on the Lamination of Laser-Printed Polyester Films. <i>Analytical Chemistry</i> , 2003, 75, 3853-3858.	6.5	151
5	Capacitively coupled contactless conductivity detection on microfluidic systems—ten years of development. <i>Analytical Methods</i> , 2012, 4, 25-33.	2.7	137
6	Toner and paper-based fabrication techniques for microfluidic applications. <i>Electrophoresis</i> , 2010, 31, 2487-2498.	2.4	136
7	Contactless conductivity detection for capillary electrophoresis. <i>Journal of Chromatography A</i> , 2002, 942, 249-258.	3.7	130
8	Electrospun multilayer chitosan scaffolds as potential wound dressings for skin lesions. <i>European Polymer Journal</i> , 2017, 88, 161-170.	5.4	109
9	Simultaneous determination of aspartame, cyclamate, saccharin and acesulfame-K in soft drinks and tabletop sweetener formulations by capillary electrophoresis with capacitively coupled contactless conductivity detection. <i>Food Chemistry</i> , 2011, 124, 1714-1717.	8.2	85
10	Determination of mono- and disaccharides by capillary electrophoresis with contactless conductivity detection. <i>Electrophoresis</i> , 2003, 24, 2138-2143.	2.4	82
11	Wet deposition and related atmospheric chemistry in the São Paulo metropolis, Brazil: Part 1. Major inorganic ions in rainwater as evaluated by capillary electrophoresis with contactless conductivity detection. <i>Atmospheric Environment</i> , 2003, 37, 105-115.	4.1	77
12	A simple procedure to produce FDM-based 3D-printed microfluidic devices with an integrated PMMA optical window. <i>Analytical Methods</i> , 2019, 11, 1014-1020.	2.7	67
13	3D-printed microfluidic device for the synthesis of silver and gold nanoparticles. <i>Microchemical Journal</i> , 2019, 146, 1083-1089.	4.5	59
14	Electrophoresis microchip fabricated by a direct-printing process with end-channel amperometric detection. <i>Electrophoresis</i> , 2004, 25, 3832-3839.	2.4	58
15	Understanding and improving FDM 3D printing to fabricate high-resolution and optically transparent microfluidic devices. <i>Lab on A Chip</i> , 2021, 21, 3715-3729.	6.0	53
16	A toner-mediated lithographic technology for rapid prototyping of glass microchannels. <i>Lab on A Chip</i> , 2007, 7, 931.	6.0	52
17	Conductivity detection of aliphatic alcohols in micellar electrokinetic chromatography using an oscillometric detector. <i>Electrophoresis</i> , 2000, 21, 1405-1408.	2.4	51
18	A fully disposable paper-based electrophoresis microchip with integrated pencil-drawn electrodes for contactless conductivity detection. <i>Analytical Methods</i> , 2016, 8, 6682-6686.	2.7	46

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19	Fabrication and integration of planar electrodes for contactless conductivity detection on polyester- μ toner electrophoresis microchips. <i>Electrophoresis</i> , 2008, 29, 2260-2265.	2.4	42
20	An Integrated Microfluidic Device for Monitoring Changes in Nitric Oxide Production in Single T-Lymphocyte (Jurkat) Cells. <i>Analytical Chemistry</i> , 2013, 85, 10188-10195.	6.5	42
21	Polyurethane from biosource as a new material for fabrication of microfluidic devices by rapid prototyping. <i>Journal of Chromatography A</i> , 2007, 1173, 151-158.	3.7	41
22	Environmental formaldehyde analysis by active diffusive sampling with a bundle of polypropylene porous capillaries followed by capillary zone electrophoretic separation and contactless conductivity detection. <i>Talanta</i> , 2008, 76, 271-275.	5.5	41
23	Fabrication of a multichannel PDMS/glass analytical microsystem with integrated electrodes for amperometric detection. <i>Lab on A Chip</i> , 2009, 9, 115-121.	6.0	38
24	A novel thread-based microfluidic device for capillary electrophoresis with capacitively coupled contactless conductivity detection. <i>Sensors and Actuators B: Chemical</i> , 2019, 286, 301-305.	7.8	38
25	Monitoring intracellular nitric oxide production using microchip electrophoresis and laser-induced fluorescence detection. <i>Analytical Methods</i> , 2012, 4, 414.	2.7	36
26	Applications of autonomous microfluidic systems in environmental monitoring. <i>RSC Advances</i> , 2013, 3, 18216.	3.6	36
27	Fast methods for simultaneous determination of arginine, ascorbic acid and aspartic acid by capillary electrophoresis. <i>Talanta</i> , 2019, 204, 353-358.	5.5	34
28	Indirect detection of superoxide in RAW 264.7 macrophage cells using microchip electrophoresis coupled to laser-induced fluorescence. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 7003-7012.	3.7	33
29	Production of Calcium Oxalate Crystals by the Basidiomycete <i>Moniliophthora perniciosa</i> , the Causal Agent of Witches'™ Broom Disease of Cacao. <i>Current Microbiology</i> , 2008, 56, 363-370.	2.2	31
30	Rapid prototyping of polymeric electrophoresis microchips with integrated copper electrodes for contactless conductivity detection. <i>Analytical Methods</i> , 2011, 3, 168-172.	2.7	30
31	Using multi-material fused deposition modeling (FDM) for one-step 3D printing of microfluidic capillary electrophoresis with integrated electrodes for capacitively coupled contactless conductivity detection. <i>Sensors and Actuators B: Chemical</i> , 2022, 365, 131959.	7.8	29
32	Análise de Ácidos graxos por eletroforese capilar utilizando detecção condutométrica sem contato. <i>Química Nova</i> , 2003, 26, 821-824.	0.3	28
33	Microfluidic devices obtained by thermal toner transferring on glass substrate. <i>Electrophoresis</i> , 2004, 25, 3825-3831.	2.4	28
34	Use of experimental design and effective mobility calculations to develop a method for the determination of antimicrobials by capillary electrophoresis. <i>Talanta</i> , 2008, 76, 1006-1014.	5.5	27
35	Simultaneous determination of free fluoride and monofluorophosphate in toothpaste by capillary electrophoresis with capacitively coupled contactless conductivity detection. <i>Talanta</i> , 2009, 78, 1436-1439.	5.5	27
36	Improved separation of IA and IIA metal cations in matrices with high sodium concentration by capillary electrophoresis with contactless conductometric detection. <i>Journal of the Brazilian Chemical Society</i> , 2003, 14, 265-268.	0.6	26

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37	Disposable twin gold electrodes for amperometric detection in capillary electrophoresis. <i>Electrophoresis</i> , 2004, 25, 2965-2969.	2.4	25
38	Microfluidic devices with integrated dual-capacitively coupled contactless conductivity detection to monitor binding events in real time. <i>Sensors and Actuators B: Chemical</i> , 2014, 192, 239-246.	7.8	25
39	Fast and straightforward in-situ synthesis of gold nanoparticles on a thread-based microfluidic device for application in surface-enhanced Raman scattering detection. <i>Microchemical Journal</i> , 2020, 156, 104985.	4.5	24
40	Microfluidic devices based on textile threads for analytical applications: state of the art and prospects. <i>Analytical Methods</i> , 2021, 13, 4830-4857.	2.7	21
41	Fast determination of ethambutol in pharmaceutical formulations using capillary electrophoresis with capacitively coupled contactless conductivity detection. <i>Electrophoresis</i> , 2010, 31, 570-574.	2.4	19
42	Microchip electrophoresis with amperometric detection for the study of the generation of nitric oxide by NONOate salts. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 2377-2384.	3.7	19
43	Separation of carbohydrates on electrophoresis microchips with controlled electrolysis. <i>Electrophoresis</i> , 2019, 40, 693-698.	2.4	18
44	Microchip electrophoresis and electrochemical detection: A review on a growing synergistic implementation. <i>Electrochimica Acta</i> , 2021, 391, 138928.	5.2	18
45	Trace Levels Determination of Ammonium by Flow Injection Analysis Using Gas Diffusion and Capacitively Coupled Contactless Conductivity Detection. <i>Electroanalysis</i> , 2011, 23, 2594-2600.	2.9	17
46	Elimination of the artefact peaks in capillary electrophoresis determination of glutamate by using organic solvents in sample preparation. <i>Journal of Separation Science</i> , 2015, 38, 3781-3787.	2.5	17
47	3D-printed microchip electrophoresis device containing spiral electrodes for integrated capacitively coupled contactless conductivity detection. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 545-550.	3.7	17
48	Low-cost and simple FDM-based 3D-printed microfluidic device for the synthesis of metallic core-shell nanoparticles. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	16
49	Microsistemas de análises químicas: introdução, tecnologias de fabricação, instrumentação e aplicação. <i>Química Nova</i> , 2007, 30, 1986-2000.	0.3	14
50	Metalless electrodes for capacitively coupled contactless conductivity detection on electrophoresis microchips. <i>Electrophoresis</i> , 2015, 36, 1935-1940.	2.4	14
51	Ready-to-use 3D-printed electrochemical cell for in situ voltammetry of immobilized microparticles and Raman spectroscopy. <i>Analytica Chimica Acta</i> , 2021, 1141, 57-62.	5.4	14
52	Stereolithography based 3D-printed microfluidic device with integrated electrochemical detection. <i>Electrochimica Acta</i> , 2022, 407, 139888.	5.2	13
53	Detectão eletroquímica em eletroforese capilar. <i>Química Nova</i> , 2003, 26, 56-64.	0.3	12
54	Membrane-free electroextraction using an aqueous two-phase system. <i>RSC Advances</i> , 2014, 4, 49485-49490.	3.6	12

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55	Trapping of Au nanoparticles in a microfluidic device using dielectrophoresis for surface enhanced Raman spectroscopy. <i>Analyst, The</i> , 2017, 142, 375-379.	3.5	12
56	On-line electroextraction in capillary electrophoresis: Application on the determination of glutamic acid in soy sauces. <i>Electrophoresis</i> , 2019, 40, 322-329.	2.4	11
57	Terminologia para as técnicas analíticas de eletromigração em capilares. <i>Quimica Nova</i> , 2007, 30, 740-744.	0.3	10
58	Capillary electrophoresis with capacitively coupled contactless conductivity detection for the determination of propionate and sorbate in bread. <i>Journal of Separation Science</i> , 2018, 41, 3932-3937.	2.5	10
59	Surface modification of PDMS microchips with poly(ethylene glycol) derivatives for μ TAS applications. <i>Electrophoresis</i> , 2014, 35, 2346-2352.	2.4	9
60	Capillary electrophoresis coupled to contactless conductivity detection for the analysis of S-nitrosothiols decomposition and reactivity. <i>Electrophoresis</i> , 2015, 36, 1982-1988.	2.4	9
61	Evaluation of in-channel amperometric detection using a dual-channel microchip electrophoresis device and a two-electrode potentiostat for reverse polarity separations. <i>Electrophoresis</i> , 2015, 36, 441-448.	2.4	9
62	A simple and fast method for determination of benzocaine and lidocaine in pharmaceutical formulations by capillary electrophoresis with spectrophotometric detection. <i>Separation Science Plus</i> , 2019, 2, 422-427.	0.6	9
63	Raman imaging spectroscopic characterization of modified poly(dimethylsiloxane) for micro total analysis systems applications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 100, 67-71.	3.9	8
64	Capillary electrophoresis with mass spectrometric detection for separation of S-nitrosoglutathione and its decomposition products: a deeper insight into the decomposition pathways. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 6221-6226.	3.7	8
65	Simple and fast method for simultaneous determination of propionate and sorbate in bread by capillary electrophoresis with UV spectrophotometric detection. <i>Journal of Food Composition and Analysis</i> , 2018, 72, 93-96.	3.9	8
66	Electrochemical behavior of 5-type phosphodiesterase inhibitory drugs in solid state by voltammetry of immobilized microparticles. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 1999-2010.	2.5	7
67	Integrated microfluidic device for the separation, decomposition and detection of low molecular weight S-nitrosothiols. <i>Analyst, The</i> , 2019, 144, 180-185.	3.5	6
68	Electrochemical analysis of organic compounds in solid-state: applications of voltammetry of immobilized microparticles in bioanalysis and cultural heritage science. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 2633-2652.	2.5	6
69	Módulo eletrônico de controle para válvulas solenóides. <i>Quimica Nova</i> , 2002, 25, 842-843.	0.3	4
70	Characterization of Off-Stoichiometry Microfluidic Devices for Bioanalytical Applications. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2017, 11, 1470-1477.	4.0	4
71	Multiple Zones Modification of Open Off-Stoichiometry Thiol-Ene Microchannel by Aptamers: A Methodological Study & A Proof of Concept. <i>Chemosensors</i> , 2020, 8, 24.	3.6	4
72	Utilização de um monitor de vídeo como fonte de alta tensão para eletroforese capilar. <i>Quimica Nova</i> , 2006, 29, 1377-1380.	0.3	4

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73	Fabrication and Characterization of an Impedance Micro-Bridge for Lab-on-a-Chip. ECS Transactions, 2010, 31, 155-163.	0.5	3
74	Chemotaxonomic study of <i>Chrysobalanus icaco</i> Linnaeus (Chrysobalanaceae) using ultra-high performance liquid chromatography coupled with diode array detection fingerprint in combination with multivariate analysis. Journal of Separation Science, 2017, 40, 2161-2169.	2.5	3
75	Instrumental Platforms for Capillary and Microchip Electromigration Separation Techniques. , 2018, , 269-292.		3
76	Development of a Digital Conductivity Meter with Frequency Response for Remote Monitoring. Instrumentation Science and Technology, 1998, 26, 409-420.	1.8	2
77	Visible LED-Based Instrumentation for Photometric Determination of Electroosmotic Flow in Microchannels. Journal of the Brazilian Chemical Society, 2011, 22, 736-740.	0.6	2
78	Microchip Electrophoresis Containing Electrodes for Integrated Electrochemical Detection. Methods in Molecular Biology, 2019, 1906, 79-85.	0.9	2
79	Comparison of Potassium and Sodium Content in Diet and Non-Diet Soft Drinks by Using Capillary Electrophoresis with Capacitively Coupled Contactless Conductivity Detection. Ectetica Quimica, 2009, 34, 51-56.	0.5	2
80	SAMPLE PREPARATION ASSISTED BY ELECTRIC FIELDS: FUNDAMENTALS, ADVANCES, APPLICATIONS, AND TRENDS. Quimica Nova, 2015, , .	0.3	2
81	CHAPTER 7. Electrophoretic Methods for Separation of Peroxynitrite and Related Compounds. RSC Detection Science, 2015, , 121-150.	0.0	2
82	Microchip-Based Devices for Bioanalytical Applications. , 2022, , 467-482.		2
83	Identification of the oxidation products of cysteamine and cystamine by $CE\text{-}MS$ interfaced by a noncommercial electrospray ionization source. Journal of Separation Science, 2012, 35, 1336-1343.	2.5	1
84	Retention of copper(II) metal ions in a silicon-glass microfluidic device. Journal of the Brazilian Chemical Society, 2007, 18, 1531-1536.	0.6	0
85	Determination of monosodium glutamate in instant noodles by capillary electrophoresis. , 0, , .		0
86	GENETIC FINGERPRINTING OF THE BRAZILIAN MEDICINAL PLANT CHRYSOBALANUS ICACO L. (CHRYSOBALANACEAE) / IMPRESSÃO DIGITAL GENÉTICA DA ESPÉCIE MEDICINAL BRASILEIRA CHRYSOBALANUS ICACO L. (CHRYSOBALANACEAE). Brazilian Journal of Development, 2020, 6, 86190-86202.		0
87	The Role of Capillary Electromigration Separation Techniques in Bioanalysis. , 2022, , 405-429.		0
88	Comparison of Potassium and Sodium Content in Diet and Non-Diet Soft Drinks by Using Capillary Electrophoresis with Capacitively Coupled Contactless Conductivity Detection. Ectetica Quimica, 0, 34, 51.	0.5	0