

Ronaldo C Faria

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7705287/publications.pdf>

Version: 2024-02-01

93
papers

2,996
citations

147801

31
h-index

182427

51
g-index

95
all docs

95
docs citations

95
times ranked

3794
citing authors

#	ARTICLE	IF	CITATIONS
1	Anodic stripping voltammetric determination of copper(II) using a functionalized carbon nanotubes paste electrode modified with crosslinked chitosan. <i>Sensors and Actuators B: Chemical</i> , 2009, 142, 260-266.	7.8	160
2	3D-printed supercapacitor-powered electrochemiluminescent protein immunoarray. <i>Biosensors and Bioelectronics</i> , 2016, 77, 188-193.	10.1	147
3	Electrochemical detection of Salmonella using gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2013, 40, 121-126.	10.1	142
4	Automated Multiplexed ECL Immunoarrays for Cancer Biomarker Proteins. <i>Analytical Chemistry</i> , 2015, 87, 4472-4478.	6.5	115
5	On-line protein capture on magnetic beads for ultrasensitive microfluidic immunoassays of cancer biomarkers. <i>Biosensors and Bioelectronics</i> , 2014, 53, 268-274.	10.1	108
6	A simple method to produce 2D and 3D microfluidic paper-based analytical devices for clinical analysis. <i>Analytica Chimica Acta</i> , 2017, 957, 40-46.	5.4	101
7	A microfluidic electrochemiluminescent device for detecting cancer biomarker proteins. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 3831-3838.	3.7	88
8	Fast and flexible strategy to produce electrochemical paper-based analytical devices using a craft cutter printer to create wax barrier and screen-printed electrodes. <i>Talanta</i> , 2019, 195, 480-489.	5.5	77
9	Fully disposable microfluidic electrochemical device for detection of estrogen receptor alpha breast cancer biomarker. <i>Biosensors and Bioelectronics</i> , 2018, 99, 156-162.	10.1	73
10	Electrochemical paper-based microfluidic device for high throughput multiplexed analysis. <i>Talanta</i> , 2019, 203, 280-286.	5.5	72
11	A new disposable microfluidic electrochemical paper-based device for the simultaneous determination of clinical biomarkers. <i>Talanta</i> , 2019, 195, 62-68.	5.5	70
12	Differential Pulse Voltammetric Determination of Paraquat Using a Bismuth Film Electrode. <i>Electroanalysis</i> , 2010, 22, 1260-1266.	2.9	69
13	Electrochemical determination of estradiol using a thin film containing reduced graphene oxide and dihexadecylphosphate. <i>Materials Science and Engineering C</i> , 2014, 37, 14-19.	7.3	67
14	Disposable and flexible electrochemical sensor made by recyclable material and low cost conductive ink. <i>Journal of Electroanalytical Chemistry</i> , 2019, 840, 109-116.	3.8	67
15	Electrical detection of pathogenic bacteria in food samples using information visualization methods with a sensor based on magnetic nanoparticles functionalized with antimicrobial peptides. <i>Talanta</i> , 2019, 194, 611-618.	5.5	60
16	Simple and rapid fabrication of disposable carbon-based electrochemical cells using an electronic craft cutter for sensor and biosensor applications. <i>Talanta</i> , 2016, 146, 381-387.	5.5	59
17	Simple disposable microfluidic device for Salmonella typhimurium detection by magneto-immunoassay. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 684-691.	7.8	57
18	Pb(II) determination in natural water using a carbon nanotubes paste electrode modified with crosslinked chitosan. <i>Microchemical Journal</i> , 2014, 116, 191-196.	4.5	56

#	ARTICLE	IF	CITATIONS
19	Disposable Microfluidic Immunoarray Device for Sensitive Breast Cancer Biomarker Detection. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 27433-27440.	8.0	56
20	Synchrotron Structural Characterization of Electrochemically Synthesized Hexacyanoferrates Containing K ⁺ : A Revisited Analysis of Electrochemical Redox. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13264-13271.	3.1	50
21	COVID-19 diagnosis by SARS-CoV-2 Spike protein detection in saliva using an ultrasensitive magneto-assay based on disposable electrochemical sensor. <i>Sensors and Actuators B: Chemical</i> , 2022, 353, 131128.	7.8	50
22	Development of a simple electrochemical sensor for the simultaneous detection of anticancer drugs. <i>Journal of Electroanalytical Chemistry</i> , 2018, 827, 64-72.	3.8	47
23	Rapid Microfluidic Immunoassays of Cancer Biomarker Proteins Using Disposable Inkjet-Printed Gold Nanoparticle Arrays. <i>ChemistryOpen</i> , 2013, 2, 141-145.	1.9	43
24	Electrochromic properties of lithium doped WO ₃ films prepared by the sol-gel process. <i>Electrochimica Acta</i> , 2001, 46, 1977-1981.	5.2	41
25	Early Diagnosis of Alzheimer's Disease in Blood Using a Disposable Electrochemical Microfluidic Platform. <i>ACS Sensors</i> , 2020, 5, 1010-1019.	7.8	40
26	Electrocatalytic Oxidation and Voltammetric Determination of Hydrazine in Industrial Boiler Feed Water Using a Cobalt Phthalocyanine-modified Electrode. <i>Analytical Letters</i> , 2008, 41, 1010-1021.	1.8	39
27	Spot test for fast determination of hydrogen peroxide as a milk adulterant by smartphone-based digital image colorimetry. <i>Microchemical Journal</i> , 2020, 157, 105042.	4.5	38
28	A Novel Synthetic Route to Nb ₂ O ₅ Thin Films for Electrochromic Devices. <i>Journal of the Electrochemical Society</i> , 1994, 141, L29-L30.	2.9	37
29	Non-enzymatic electrochemical determination of creatinine using a novel screen-printed microcell. <i>Talanta</i> , 2020, 207, 120277.	5.5	35
30	New Disposable Electrochemical Paper-based Microfluidic Device with Multiplexed Electrodes for Biomarkers Determination in Urine Sample. <i>Electroanalysis</i> , 2020, 32, 1075-1083.	2.9	35
31	Real-time monitoring and kinetic parameter estimation of the affinity interaction of jArinM and rArinM with peroxidase glycoprotein by the electrogravimetric technique. <i>Biosensors and Bioelectronics</i> , 2010, 26, 36-42.	10.1	32
32	Ultrasensitive immunoassay for detection of Citrus tristeza virus in citrus sample using disposable microfluidic electrochemical device. <i>Talanta</i> , 2019, 205, 120110.	5.5	32
33	Hydrogen ion selective electrode based on poly(1-aminoanthracene) film. <i>Analytica Chimica Acta</i> , 1998, 377, 21-27.	5.4	30
34	A thermostated electrochemical flow cell with a coupled bismuth film electrode for square-wave anodic stripping voltammetric determination of cadmium(II) and lead(II) in natural, wastewater and tap water samples. <i>Talanta</i> , 2014, 126, 82-90.	5.5	30
35	Electrochromic properties of undoped and lithium doped Nb ₂ O ₅ films prepared by the sol-gel method. <i>Electrochimica Acta</i> , 2001, 46, 2113-2118.	5.2	29
36	The Influence of the Electrodeposition Conditions on the Electroanalytical Performance of the Bismuth Film Electrode for Lead Determination. <i>Electroanalysis</i> , 2008, 20, 2259-2263.	2.9	29

#	ARTICLE	IF	CITATIONS
37	High-throughput metabolic genotoxicity screening with a fluidic microwell chip and electrochemiluminescence. <i>Lab on A Chip</i> , 2013, 13, 4554.	6.0	29
38	Low-Cost and Rapid-Production Microfluidic Electrochemical Double-Layer Capacitors for Fast and Sensitive Breast Cancer Diagnosis. <i>Analytical Chemistry</i> , 2018, 90, 12377-12384.	6.5	28
39	A sensitive electrochemical detection of metronidazole in synthetic serum and urine samples using low-cost screen-printed electrodes modified with reduced graphene oxide and C60. <i>Journal of Pharmaceutical Analysis</i> , 2021, 11, 646-652.	5.3	28
40	Li ⁺ insertion into pure and doped amorphous WO ₃ films. Correlations between coloration kinetics, charge and mass accumulation. <i>Solid State Ionics</i> , 2003, 158, 415-426.	2.7	27
41	Optical, electrochemical and electrogravimetric behavior of poly(1-methoxy-4-(2-ethyl-hexyloxy)-p-phenylene vinylene) (MEH-PPV) films. <i>Electrochimica Acta</i> , 2007, 52, 4299-4304.	5.2	26
42	Combining 3D printing and screen-printing in miniaturized, disposable sensors with carbon paste electrodes. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5633-5642.	5.5	25
43	Quartz Crystal Microbalance monitoring the real-time binding of lectin with carbohydrate with high and low molecular mass. <i>Microchemical Journal</i> , 2008, 89, 153-158.	4.5	24
44	Novel enzyme-free immunomagnetic microfluidic device based on Co _{0.25} Zn _{0.75} Fe ₂ O ₄ for cancer biomarker detection. <i>Analytica Chimica Acta</i> , 2019, 1071, 59-69.	5.4	23
45	Adsorption of cobalt ferrite nanoparticles within layer-by-layer films: a kinetic study carried out using quartz crystal microbalance. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 21233.	2.8	22
46	Prostate Cancer Diagnosis in the Clinic Using an 8-Protein Biomarker Panel. <i>Analytical Chemistry</i> , 2021, 93, 1059-1067.	6.5	22
47	Electrochemical Determination of Norepinephrine on Cathodically Pretreated Poly(1,5-diaminonaphthalene) Modified Electrode. <i>Electroanalysis</i> , 2011, 23, 1359-1364.	2.9	20
48	QCM immunoassay for recombinant cysteine peptidase: A potential protein biomarker for diagnosis of citrus canker. <i>Talanta</i> , 2013, 104, 193-197.	5.5	20
49	Converging Multidimensional Sensor and Machine Learning Toward High-Throughput and Biorecognition Element-Free Multidetermination of Extracellular Vesicle Biomarkers. <i>ACS Sensors</i> , 2020, 5, 1864-1871.	7.8	20
50	Disposable and Flexible Electrochemical Paper-based Analytical Devices Using Low-cost Conductive Ink. <i>Electroanalysis</i> , 2021, 33, 1520-1527.	2.9	20
51	A compact miniaturized continuous flow system for the determination of urea content in milk. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1525-1533.	3.7	19
52	Flow Injection Spectrophotometric Determination of N-Acetylcysteine and Captopril Employing Prussian Blue Generation Reaction. <i>Analytical Letters</i> , 2011, 44, 2394-2405.	1.8	19
53	Cathodically pretreated poly(1-aminoanthraquinone)-modified electrode for determination of ascorbic acid, dopamine, and uric acid. <i>Journal of Applied Electrochemistry</i> , 2013, 43, 919-926.	2.9	19
54	Multivariate linear regression with variable selection by a successive projections algorithm applied to the analysis of anodic stripping voltammetry data. <i>Electrochimica Acta</i> , 2014, 127, 68-78.	5.2	19

#	ARTICLE	IF	CITATIONS
55	An electrochemical analyzer for in situ flow determination of Pb(II) and Cd(II) in lake water with on-line data transmission and a global positioning system. <i>Analytical Methods</i> , 2015, 7, 3105-3112.	2.7	19
56	A versatile and robust electrochemical flow cell with a boron-doped diamond electrode for simultaneous determination of Zn ²⁺ and Pb ²⁺ ions in water samples. <i>Analytical Methods</i> , 2014, 6, 8526-8534.	2.7	17
57	Disposable electrochemical microfluidic device for ultrasensitive detection of egg allergen in wine samples. <i>Talanta</i> , 2021, 232, 122447.	5.5	17
58	Screening reactive metabolites bioactivated by multiple enzyme pathways using a multiplexed microfluidic system. <i>Analyst</i> , The, 2013, 138, 171-178.	3.5	16
59	Role of sphingomyelin on the interaction of the anticancer drug gemcitabine hydrochloride with cell membrane models. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 196, 111357.	5.0	14
60	Spectroscopic, electrochemical, and microgravimetric studies on palladium phthalocyanine films. <i>Journal of Porphyrins and Phthalocyanines</i> , 2005, 09, 16-21.	0.8	12
61	Electrogravimetric Real-Time and in Situ Michaelis-Menten Enzymatic Kinetics: Progress Curve of Acetylcholinesterase Hydrolysis. <i>Journal of Physical Chemistry B</i> , 2010, 114, 16605-16610.	2.6	12
62	Flow Injection Spectrophotometric Determination of Dipyrone in Pharmaceutical Formulations Using Fe(III) as Reagent. <i>Analytical Letters</i> , 2011, 44, 340-348.	1.8	12
63	Evaluation of turbidimetric and nephelometric techniques for analytical determination of n-acetylcysteine and thiamine in pharmaceutical formulations employing a lab-made portable microcontrolled turbidimeter and nephelometer. <i>Journal of the Brazilian Chemical Society</i> , 2011, 22, 1968-1978.	0.6	12
64	Electrochemical Activation of the Natural Catalytic Cycle of Cytochrome P450s in Human Liver Microsomes. <i>Electroanalysis</i> , 2012, 24, 2049-2052.	2.9	12
65	New approach for natural products screening by real-time monitoring of hemoglobin hydrolysis using quartz crystal microbalance. <i>Analytica Chimica Acta</i> , 2015, 862, 86-93.	5.4	12
66	EQCM study during lithium insertion/deinsertion processes in Nb ₂ O ₅ films prepared by polymeric precursor method. <i>Solid State Ionics</i> , 2005, 176, 1175-1180.	2.7	11
67	Use of data processing for rapid detection of the prostate-specific antigen biomarker using immunomagnetic sandwich-type sensors. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 2171-2181.	2.8	11
68	Synthesis and electrochemical response of poly-(1-aminoanthracene) films. <i>Electrochimica Acta</i> , 1999, 44, 1597-1605.	5.2	9
69	Conductometric determination of propranolol hydrochloride in pharmaceuticals. <i>Eletica Quimica</i> , 2011, 36, 110-122.	0.5	8
70	Jacalin interaction with human immunoglobulin A1 and bovine immunoglobulin G1: Affinity constant determined by piezoelectric biosensing. <i>Glycobiology</i> , 2012, 22, 326-331.	2.5	8
71	Electrochemically Prepared Polypyrrole-Carboxylic Acid Films: Synthesis Protocols and Studies on Biosensors. <i>Electroanalysis</i> , 2013, 25, 741-749.	2.9	8
72	Voltammetric sensing of tryptophan in dark chocolate bars, skimmed milk and urine samples in the presence of dopamine and caffeine. <i>Journal of Applied Electrochemistry</i> , 2022, 52, 1249-1257.	2.9	8

#	ARTICLE	IF	CITATIONS
73	Electrogravimetric Analysis by Quartz-Crystal Microbalance on the Consumption of the Neurotransmitter Acetylcholine by Acetylcholinesterase. <i>Analytical Letters</i> , 2013, 46, 258-265.	1.8	7
74	Label-free evaluation of small-molecule-protein interaction using magnetic capture and electrochemical detection. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 2111-2119.	3.7	7
75	The Influence of the Cathodic Pretreatment on the Electrochemical Detection of Dopamine by Poly(1-aminanthracene) Modified Electrode. <i>Electroanalysis</i> , 2010, 22, 2284-2289.	2.9	6
76	Chemometric Strategies to Develop a Nanocomposite Electrode for Simultaneous Determination of Ascorbic Acid, Dopamine, and Uric Acid. <i>Electroanalysis</i> , 2013, 25, 1988-1994.	2.9	6
77	A low-cost automated flow analyzer based on low temperature co-fired ceramic and LED photometer for ascorbic acid determination. <i>Open Chemistry</i> , 2014, 12, 341-347.	1.9	6
78	A Non-enzymatic Ag/FeOOH Sensor for Hydrogen Peroxide Determination using Disposable Carbon-based Electrochemical Cells. <i>Electroanalysis</i> , 2020, 32, 2231-2236.	2.9	6
79	Analytical Detection of Pesticides, Pollutants, and Pharmaceutical Waste in the Environment. <i>Environmental Chemistry for A Sustainable World</i> , 2020, , 87-129.	0.5	6
80	Construction and application of a portable microcontrolled turbidimeter for the in situ determination of sulfate. <i>Quimica Nova</i> , 2012, 35, 802-807.	0.3	6
81	A Low-Cost Portable Microcontrolled Nephelometer for Potassium Determination. <i>Journal of the Brazilian Chemical Society</i> , 2011, 22, 726-735.	0.6	5
82	DNA hybridization mechanism in an interfacial environment: What hides beneath first order k kinetic constant?. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 522-527.	7.8	5
83	Real-time investigation of mannosyltransferase function of a <i>Xylella fastidiosa</i> recombinant GumH protein using QCM-D. <i>Biochemical and Biophysical Research Communications</i> , 2011, 408, 571-575.	2.1	4
84	Construção e aplicação de um minissensor de filme de bismuto utilizando materiais de baixo custo para determinação voltamétrica in loco. <i>Quimica Nova</i> , 2012, 35, 1016-1019.	0.3	4
85	Ultrasensitive magnetogenoassay for detection of microRNA for diagnosis of metastatic lymph nodes in head and neck cancer using disposable electrodes. <i>Sensors and Actuators B: Chemical</i> , 2022, 352, 131040.	7.8	4
86	ArtinM Binding Effinities and Kinetic Interaction with Leukemia Cells: A Quartz Crystal Microbalance Bioelectroanalysis on the Cytotoxic Effect. <i>Electroanalysis</i> , 2017, 29, 1554-1558.	2.9	3
87	Titulação potenciométrica de cãtions metálicos tendo como eletrodo indicador o sistema Cu/Cu(II)-EDTA. <i>Quimica Nova</i> , 2008, 31, 227-231.	0.3	2
88	A Compact Miniaturized Flow System Based on Low-Temperature Co-fired Ceramic Technology Coupled to LED Mini-photometer for Determination of Dipyrone in Pharmaceutical Formulations. <i>Journal of the Brazilian Chemical Society</i> , 2013, , .	0.6	2
89	Membrane model as key tool in the study of glutathione-s-transferase mediated anticancer drug resistance. <i>Biomedicine and Pharmacotherapy</i> , 2022, 145, 112426.	5.6	2
90	Influence of Cathodic Pretreatment in the Electrocatalytic Properties PANI Modified Electrodes. <i>Electroanalysis</i> , 2019, 31, 766-770.	2.9	1

#	ARTICLE	IF	CITATIONS
91	Sol-Gel Non-hydrolytic Synthesis of a Nanocomposite Electrolyte for Application in Lithium-ion Devices. Materials Research Society Symposia Proceedings, 2004, 822, S3.1.1.	0.1	0
92	Construction of Disposable Carbon-Based Electrochemical Cells By Using Electronic Craft Cutter for Sensor and Biosensor Applications. ECS Meeting Abstracts, 2016, , .	0.0	0
93	Abstract A53: [10]-gingerol interferes with the adhesion of MDA-MB-231 tumor cells to extracellular matrix. , 2018, , .		0