

# Ronaldo C Faria

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92  
papers

2,229  
citations

28  
h-index

43  
g-index

95  
ext. papers

2,588  
ext. citations

5.1  
avg, IF

5.24  
L-index

| #  | Paper  | IF  | Citations |
|----|--|-----|-----------|
| 92 | 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> , <b>2022</b> , 353, 131128                                | 8.5 | 8         |
| 91 | Fundamentals for Virus and Antigen Detection in Immunotechnologies <b>2022</b> , 31-49   |     |           |
| 90 | 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> , <b>2021</b> , 352, 131040                              | 8.5 | 3         |
| 89 | Membrane model as key tool in the study of glutathione-s-transferase mediated anticancer drug resistance. <i>Biomedicine and Pharmacotherapy</i> , <b>2021</b> , 145, 112426   | 7.5 | 0         |
| 88 | 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> , <b>2021</b> , 11, 646-652 | 14  | 11        |
| 87 | Disposable and Flexible Electrochemical Paper-based Analytical Devices Using Low-cost Conductive Ink. <i>Electroanalysis</i> , <b>2021</b> , 33, 1520-1527   | 3   | 4         |
| 86 | Prostate Cancer Diagnosis in the Clinic Using an 8-Protein Biomarker Panel. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 1059-1067  | 7.8 | 12        |
| 85 | Combining 3D printing and screen-printing in miniaturized, disposable sensors with carbon paste electrodes. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 5633-5642   | 7.1 | 11        |
| 84 | Disposable electrochemical microfluidic device for ultrasensitive detection of egg allergen in wine samples. <i>Talanta</i> , <b>2021</b> , 232, 122447  | 6.2 | 2         |
| 83 | Early Diagnosis of Alzheimer's Disease in Blood Using a Disposable Electrochemical Microfluidic Platform. <i>ACS Sensors</i> , <b>2020</b> , 5, 1010-1019  | 9.2 | 21        |
| 82 | Converging Multidimensional Sensor and Machine Learning Toward High-Throughput and Biorecognition Element-Free Multidetermination of Extracellular Vesicle Biomarkers. <i>ACS Sensors</i> , <b>2020</b> , 5, 1864-1871                                   | 9.2 | 10        |
| 81 | New Disposable Electrochemical Paper-based Microfluidic Device with Multiplexed Electrodes for Biomarkers Determination in Urine Sample. <i>Electroanalysis</i> , <b>2020</b> , 32, 1075-1083  | 3   | 16        |
| 80 | Analytical Detection of Pesticides, Pollutants, and Pharmaceutical Waste in the Environment. <i>Environmental Chemistry for A Sustainable World</i> , <b>2020</b> , 87-129   | 0.8 | 3         |
| 79 | Spot test for fast determination of hydrogen peroxide as a milk adulterant by smartphone-based digital image colorimetry. <i>Microchemical Journal</i> , <b>2020</b> , 157, 105042   | 4.8 | 18        |
| 78 | Role of sphingomyelin on the interaction of the anticancer drug gemcitabine hydrochloride with cell membrane models. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 196, 111357   | 6   | 8         |
| 77 | A Non-enzymatic Ag/FeOOH Sensor for Hydrogen Peroxide Determination using Disposable Carbon-based Electrochemical Cells. <i>Electroanalysis</i> , <b>2020</b> , 32, 2231-2236  | 3   | 2         |
| 76 | Non-enzymatic electrochemical determination of creatinine using a novel screen-printed microcell. <i>Talanta</i> , <b>2020</b> , 207, 120277   | 6.2 | 12        |

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|----|---|------|-----|
| 75 | Influence of Cathodic Pretreatment in the Electrocatalytic Properties PANI Modified Electrodes. <i>Electroanalysis</i> , <b>2019</b> , 31, 766-770  | 3    | 0   |
| 74 | Electrochemical paper-based microfluidic device for high throughput multiplexed analysis. <i>Talanta</i> , <b>2019</b> , 203, 280-286   | 6.2  | 42  |
| 73 | Novel enzyme-free immunomagnetic microfluidic device based on CoZnFeO for cancer biomarker detection. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1071, 59-69   | 6.6  | 16  |
| 72 | Disposable and flexible electrochemical sensor made by recyclable material and low cost conductive ink. <i>Journal of Electroanalytical Chemistry</i> , <b>2019</b> , 840, 109-116  | 4.1  | 46  |
| 71 | Label-free evaluation of small-molecule-protein interaction using magnetic capture and electrochemical detection. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 2111-2119  | 4.4  | 6   |
| 70 | Ultrasensitive immunoassay for detection of Citrus tristeza virus in citrus sample using disposable microfluidic electrochemical device. <i>Talanta</i> , <b>2019</b> , 205, 120110   | 6.2  | 19  |
| 69 | Use of data processing for rapid detection of the prostate-specific antigen biomarker using immunomagnetic sandwich-type sensors. <i>Beilstein Journal of Nanotechnology</i> , <b>2019</b> , 10, 2171-2181                                | 3    | 6   |
| 68 | A new disposable microfluidic electrochemical paper-based device for the simultaneous determination of clinical biomarkers. <i>Talanta</i> , <b>2019</b> , 195, 62-68   | 6.2  | 45  |
| 67 | 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> , <b>2019</b> , 195, 480-489                        | 6.2  | 54  |
| 66 | 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> , <b>2019</b> , 194, 611-618 | 6.2  | 34  |
| 65 | Fully disposable microfluidic electrochemical device for detection of estrogen receptor alpha breast cancer biomarker. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 99, 156-162   | 11.8 | 58  |
| 64 | Simple disposable microfluidic device for Salmonella typhimurium detection by magneto-immunoassay. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 255, 684-691  | 8.5  | 40  |
| 63 | Low-Cost and Rapid-Production Microfluidic Electrochemical Double-Layer Capacitors for Fast and Sensitive Breast Cancer Diagnosis. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 12377-12384  | 7.8  | 17  |
| 62 | Development of a simple electrochemical sensor for the simultaneous detection of anticancer drugs. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 827, 64-72   | 4.1  | 28  |
| 61 | A simple method to produce 2D and 3D microfluidic paper-based analytical devices for clinical analysis. <i>Analytica Chimica Acta</i> , <b>2017</b> , 957, 40-46  | 6.6  | 80  |
| 60 | ArtinM Binding Effinities and Kinetic Interaction with Leukemia Cells: A Quartz Crystal Microbalance Bioelectroanalysis on the Cytotoxic Effect. <i>Electroanalysis</i> , <b>2017</b> , 29, 1554-1558                                     | 3    | 1   |
| 59 | Disposable Microfluidic Immunoarray Device for Sensitive Breast Cancer Biomarker Detection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 27433-27440  | 9.5  | 40  |
| 58 | 3D-printed supercapacitor-powered electrochemiluminescent protein immunoarray. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 77, 188-93  | 11.8 | 123 |

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| 57 | Simple and rapid fabrication of disposable carbon-based electrochemical cells using an electronic craft cutter for sensor and biosensor applications. <i>Talanta</i> , <b>2016</b> , 146, 381-7  | 6.2  | 49  |
| 56 | Automated multiplexed ECL Immunoarrays for cancer biomarker proteins. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 4472-8   | 7.8  | 98  |
| 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> , <b>2015</b> , 7, 3105-3112   | 3.2  | 12  |
| 54 | New approach for natural products screening by real-time monitoring of hemoglobin hydrolysis using quartz crystal microbalance. <i>Analytica Chimica Acta</i> , <b>2015</b> , 862, 86-93   | 6.6  | 10  |
| 53 | Multivariate linear regression with variable selection by a successive projections algorithm applied to the analysis of anodic stripping voltammetry data. <i>Electrochimica Acta</i> , <b>2014</b> , 127, 68-78   | 6.7  | 16  |
| 52 | Pb(II) determination in natural water using a carbon nanotubes paste electrode modified with crosslinked chitosan. <i>Microchemical Journal</i> , <b>2014</b> , 116, 191-196   | 4.8  | 46  |
| 51 | On-line protein capture on magnetic beads for ultrasensitive microfluidic immunoassays of cancer biomarkers. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 53, 268-74   | 11.8 | 93  |
| 50 | Electrochemical determination of estradiol using a thin film containing reduced graphene oxide and dihexadecylphosphate. <i>Materials Science and Engineering C</i> , <b>2014</b> , 37, 14-9   | 8.3  | 47  |
| 49 | A versatile and robust electrochemical flow cell with a boron-doped diamond electrode for simultaneous determination of Zn <sup>2+</sup> and Pb <sup>2+</sup> ions in water samples. <i>Analytical Methods</i> , <b>2014</b> , 6, 8526-8534                    | 3.2  | 14  |
| 48 | 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> , <b>2014</b> , 126, 82-90 | 6.2  | 24  |
| 47 | A low-cost automated flow analyzer based on low temperature co-fired ceramic and LED photometer for ascorbic acid determination. <i>Open Chemistry</i> , <b>2014</b> , 12, 341-347   | 1.6  | 5   |
| 46 | A microfluidic electrochemiluminescent device for detecting cancer biomarker proteins. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 3831-8   | 4.4  | 78  |
| 45 | Cathodically pretreated poly(1-aminoanthraquinone)-modified electrode for determination of ascorbic acid, dopamine, and uric acid. <i>Journal of Applied Electrochemistry</i> , <b>2013</b> , 43, 919-926  | 2.6  | 17  |
| 44 | High-throughput metabolic genotoxicity screening with a fluidic microwell chip and electrochemiluminescence. <i>Lab on A Chip</i> , <b>2013</b> , 13, 4554-62  | 7.2  | 24  |
| 43 | QCM immunoassay for recombinant cysteine peptidase: a potential protein biomarker for diagnosis of citrus canker. <i>Talanta</i> , <b>2013</b> , 104, 193-7  | 6.2  | 16  |
| 42 | Electrochemically Prepared Polypyrrole-2-Carboxylic Acid Films: Synthesis Protocols and Studies on Biosensors. <i>Electroanalysis</i> , <b>2013</b> , 25, 741-749  | 3    | 8   |
| 41 | Screening reactive metabolites bioactivated by multiple enzyme pathways using a multiplexed microfluidic system. <i>Analyst, The</i> , <b>2013</b> , 138, 171-8  | 5    | 14  |
| 40 | Electrochemical detection of Salmonella using gold nanoparticles. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 40, 121-6   | 11.8 | 117 |

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| 39 | Electrogravimetric Analysis by Quartz-Crystal Microbalance on the Consumption of the Neurotransmitter Acetylcholine by Acetylcholinesterase. <i>Analytical Letters</i> , <b>2013</b> , 46, 258-265  | 2.2 | 7  |
| 38 | 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> , <b>2013</b> ,   | 1.5 | 2  |
| 37 | Chemometric Strategies to Develop a Nanocomposite Electrode for Simultaneous Determination of Ascorbic Acid, Dopamine, and Uric Acid. <i>Electroanalysis</i> , <b>2013</b> , 25, 1988-1994  | 3   | 6  |
| 36 | Rapid microfluidic immunoassays of cancer biomarker proteins using disposable inkjet-printed gold nanoparticle arrays. <i>ChemistryOpen</i> , <b>2013</b> , 2, 141-5  | 2.3 | 36 |
| 35 | Electrochemical Activation of the Natural Catalytic Cycle of Cytochrome P450s in Human Liver Microsomes. <i>Electroanalysis</i> , <b>2012</b> , 24, 2049-2052   | 3   | 9  |
| 34 | DNA hybridization mechanism in an interfacial environment: What hides beneath first order $k$ (s <sup>-1</sup> ) kinetic constant?. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 171-172, 522-527   | 8.5 | 4  |
| 33 | Jacalin interaction with human immunoglobulin A1 and bovine immunoglobulin G1: affinity constant determined by piezoelectric biosensing. <i>Glycobiology</i> , <b>2012</b> , 22, 326-31   | 5.8 | 5  |
| 32 | Construction and application of a portable microcontrolled turbidimeter for the in situ determination of sulfate. <i>Quimica Nova</i> , <b>2012</b> , 35, 802-807   | 1.6 | 6  |
| 31 | Constru e aplica de um minissensor de filme de bismuto utilizando materiais de baixo custo para determinas voltamricas in loco. <i>Quimica Nova</i> , <b>2012</b> , 35, 1016-1019   | 1.6 | 4  |
| 30 | Real-time investigation of mannosyltransferase function of a Xylella fastidiosa recombinant GumH protein using QCM-D. <i>Biochemical and Biophysical Research Communications</i> , <b>2011</b> , 408, 571-5   | 3.4 | 4  |
| 29 | Conductometric determination of propranolol hydrochloride in pharmaceuticals. <i>Eletica Quimica</i> , <b>2011</b> , 36, 110-122  | 2.6 | 4  |
| 28 | A Low-Cost Portable Microcontrolled Nephelometer for Potassium Determination. <i>Journal of the Brazilian Chemical Society</i> , <b>2011</b> , 22, 726-735  | 1.5 | 4  |
| 27 | 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> , <b>2011</b> , 22, 1968-1978 | 1.5 | 9  |
| 26 | Electrochemical Determination of Norepinephrine on Cathodically Pretreated Poly(1,5-diaminonaphthalene) Modified Electrode. <i>Electroanalysis</i> , <b>2011</b> , 23, 1359-1364  | 3   | 17 |
| 25 | 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> , <b>2011</b> , 13, 21233-42  | 3.6 | 18 |
| 24 | Flow Injection Spectrophotometric Determination of N-Acetylcysteine and Captopril Employing Prussian Blue Generation Reaction. <i>Analytical Letters</i> , <b>2011</b> , 44, 2394-2405  | 2.2 | 13 |
| 23 | Flow Injection Spectrophotometric Determination of Dipyrone in Pharmaceutical Formulations Using Fe(III) as Reagent. <i>Analytical Letters</i> , <b>2011</b> , 44, 340-348  | 2.2 | 8  |
| 22 | Electrogravimetric real-time and in situ michaelis-menten enzymatic kinetics: progress curve of acetylcholinesterase hydrolysis. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 16605-10   | 3.4 | 8  |

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| 21 | A compact miniaturized continuous flow system for the determination of urea content in milk. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 398, 1525-33   | 4.4  | 13  |
| 20 | Real-time monitoring and kinetic parameter estimation of the affinity interaction of jArtinM and rArtinM with peroxidase glycoprotein by the electrogravimetric technique. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 26, 36-42     | 11.8 | 32  |
| 19 | Differential Pulse Voltammetric Determination of Paraquat Using a Bismuth-Film Electrode. <i>Electroanalysis</i> , <b>2010</b> , 22, 1260-1266  | 3    | 59  |
| 18 | The Influence of the Cathodic Pretreatment on the Electrochemical Detection of Dopamine by Poly(1-aminoanthracene) Modified Electrode. <i>Electroanalysis</i> , <b>2010</b> , 22, 2284-2289   | 3    | 6   |
| 17 | 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> , <b>2009</b> , 142, 260-266                   | 8.5  | 135 |
| 16 | Synchrotron Structural Characterization of Electrochemically Synthesized Hexacyanoferrates Containing K <sup>+</sup> : A Revisited Analysis of Electrochemical Redox. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 13264-13271 | 3.8  | 45  |
| 15 | Electrocatalytic Oxidation and Voltammetric Determination of Hydrazine in Industrial Boiler Feed Water Using a Cobalt Phthalocyanine-modified Electrode. <i>Analytical Letters</i> , <b>2008</b> , 41, 1010-1021                              | 2.2  | 38  |
| 14 | Titulações potenciométricas de cations metálicos tendo como eletrodo indicador o sistema Cu/Cu(II)-EDTA. <i>Quimica Nova</i> , <b>2008</b> , 31, 227-231  | 1.6  | 2   |
| 13 | The Influence of the Electrodeposition Conditions on the Electroanalytical Performance of the Bismuth Film Electrode for Lead Determination. <i>Electroanalysis</i> , <b>2008</b> , 20, 2259-2263   | 3    | 28  |
| 12 | Quartz Crystal Microbalance monitoring the real-time binding of lectin with carbohydrate with high and low molecular mass. <i>Microchemical Journal</i> , <b>2008</b> , 89, 153-158   | 4.8  | 24  |
| 11 | Optical, electrochemical and electrogravimetric behavior of poly(1-methoxy-4-(2-ethyl-hexyloxy)-p-phenylene vinylene) (MEH-PPV) films. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 4299-4304   | 6.7  | 20  |
| 10 | Spectroscopic, electrochemical, and microgravimetric studies on palladium phthalocyanine films. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2005</b> , 09, 16-21  | 1.8  | 12  |
| 9  | EQCM study during lithium insertion/deinsertion processes in Nb <sub>2</sub> O <sub>5</sub> films prepared by polymeric precursor method. <i>Solid State Ionics</i> , <b>2005</b> , 176, 1175-1180  | 3.3  | 10  |
| 8  | Sol-Gel Non-hydrolytic Synthesis of a Nanocomposite Electrolyte for Application in Lithium-ion Devices. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 822, S3.1.1  |      |     |
| 7  | Li <sup>+</sup> insertion into pure and doped amorphous WO <sub>3</sub> films. Correlations between coloration kinetics, charge and mass accumulation. <i>Solid State Ionics</i> , <b>2003</b> , 158, 415-426                                 | 3.3  | 23  |
| 6  | Electrochromic properties of lithium doped WO <sub>3</sub> films prepared by the sol-gel process. <i>Electrochimica Acta</i> , <b>2001</b> , 46, 1977-1981  | 6.7  | 38  |
| 5  | Electrochromic properties of undoped and lithium doped Nb <sub>2</sub> O <sub>5</sub> films prepared by the sol-gel method. <i>Electrochimica Acta</i> , <b>2001</b> , 46, 2113-2118  | 6.7  | 26  |
| 4  | Synthesis and electrochemical response of poly-(1-aminoanthracene) films. <i>Electrochimica Acta</i> , <b>1999</b> , 44, 1597-1605  | 6.7  | 8   |

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|---|--|-----|----|
| 3 | Hydrogen ion selective electrode based on poly(1-aminoanthracene) film. <i>Analytica Chimica Acta</i> , <b>1998</b> , 377, 21-27   | 6.6 | 28 |
| 2 | A Novel Synthetic Route to Nb <sub>2</sub> O <sub>5</sub> Thin Films for Electrochromic Devices. <i>Journal of the Electrochemical Society</i> , <b>1994</b> , 141, L29-L30        | 3.9 | 32 |
| 1 | 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> , 1 | 2.6 | 0  |