

# Luiz H Marcolino-Junior

## List of Publications by Citations

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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.

110  
papers

2,737  
citations

33  
h-index

47  
g-index

113  
ext. papers

3,248  
ext. citations

4.9  
avg, IF

5.49  
L-index

#	Paper	IF	Citations
110	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
109	Voltammetric determination of the antioxidant capacity in wine samples using a carbon nanotube modified electrode. <i>Journal of Agricultural and Food Chemistry</i> , <b>2011</b> , 59, 7620-5	5.7	106
108	Electrochemical determination of copper ions in spirit drinks using carbon paste electrode modified with biochar. <i>Food Chemistry</i> , <b>2015</b> , 171, 426-31	8.5	95
107	Development of a carbon nanotubes paste electrode modified with crosslinked chitosan for cadmium(II) and mercury(II) determination. <i>Journal of Electroanalytical Chemistry</i> , <b>2011</b> , 660, 209-216	4.1	93
106	An electrochemical sensor for l-dopa based on oxovanadium-salen thin film electrode applied flow injection system. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 122, 549-555	8.5	82
105	Low cost microfluidic device based on cotton threads for electroanalytical application. <i>Lab on A Chip</i> , <b>2016</b> , 16, 345-52	7.2	61
104	Combination of electrochemical biosensor and textile threads: A microfluidic device for phenol determination in tap water. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 99, 382-388	11.8	61
103	Gold nanoparticles supported on multi-walled carbon nanotubes produced by biphasic modified method and dopamine sensing application. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 243, 43-50	8.5	59
102	Differential Pulse Voltammetric Determination of Paraquat Using a Bismuth-Film Electrode. <i>Electroanalysis</i> , <b>2010</b> , 22, 1260-1266	3	59
101	Flow injection determination of levodopa in tablets using a solid-phase reactor containing lead(IV) dioxide immobilized. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2001</b> , 25, 393-8	3.5	59
100	Flow injection amperometric determination of isoniazid using a screen-printed carbon electrode modified with silver hexacyanoferrates nanoparticles. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 171-172, 795-802	8.5	56
99	Electroanalytical thread-device for estriol determination using screen-printed carbon electrodes modified with carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 241, 978-984	8.5	55
98	The use of activated biochar for development of a sensitive electrochemical sensor for determination of methyl parathion. <i>Journal of Electroanalytical Chemistry</i> , <b>2017</b> , 799, 602-608	4.1	50
97	An electroanalytical approach for evaluation of biochar adsorption characteristics and its application for lead and cadmium determination. <i>Bioresource Technology</i> , <b>2013</b> , 143, 40-5	11	50
96	Anodic Stripping Voltammetric Determination of Mercury in Water Using a Chitosan-Modified Carbon Paste Electrode. <i>Analytical Letters</i> , <b>2007</b> , 40, 3119-3128	2.2	49
95	Nonenzymatic electrochemical sensor based on imidazole-functionalized graphene oxide for progesterone detection. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 112, 108-113	11.8	48
94	Voltammetric determination of N-acetylcysteine using a carbon paste electrode modified with copper(II) hexacyanoferrate(III). <i>Microchemical Journal</i> , <b>2006</b> , 82, 163-167	4.8	48

93	PVP-capped nickel nanoparticles: Synthesis, characterization and utilization as a glycerol electrosensor. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 196, 574-581	8.5	47
92	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
91	Tear glucose detection combining microfluidic thread based device, amperometric biosensor and microflow injection analysis. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 98, 161-167	11.8	46
90	Biochar prepared from castor oil cake at different temperatures: A voltammetric study applied for Pb(2+), Cd(2+) and Cu(2+) ions preconcentration. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 318, 526-532	12.8	44
89	Electrochemical Modified Electrodes Based on Metal-Salen Complexes. <i>Analytical Letters</i> , <b>2007</b> , 40, 1825-1852	2.1852	44
88	One material, multiple functions: graphene/Ni(OH) thin films applied in batteries, electrochromism and sensors. <i>Scientific Reports</i> , <b>2016</b> , 6, 33806	4.9	43
87	Voltammetric determination of isoprenaline in pharmaceutical preparations using a copper(II) hexacyanoferrate(III) modified carbon paste electrode. <i>Microchemical Journal</i> , <b>2004</b> , 78, 55-59	4.8	42
86	Characterization and optimization of low cost microfluidic thread based electroanalytical device for micro flow injection analysis. <i>Analytica Chimica Acta</i> , <b>2017</b> , 951, 108-115	6.6	40
85	Inexpensive and disposable copper mini-sensor modified with bismuth for lead and cadmium determination using square-wave anodic stripping voltammetry. <i>Analytical Methods</i> , <b>2013</b> , 5, 202-207	3.2	40
84	Solid-phase reactor with copper(II) phosphate for flow-injection spectrophotometric determination of aspartame in tabletop sweeteners. <i>Analytica Chimica Acta</i> , <b>1999</b> , 384, 167-174	6.6	40
83	Mercury nanodroplets supported at biochar for electrochemical determination of zinc ions using a carbon paste electrode. <i>Electrochimica Acta</i> , <b>2015</b> , 151, 525-530	6.7	38
82	Activated biochar: Preparation, characterization and electroanalytical application in an alternative strategy of nickel determination. <i>Analytica Chimica Acta</i> , <b>2017</b> , 983, 103-111	6.6	36
81	Voltammetric determination of dipyrone using a N,N'-ethylenebis(salicylideneaminato)oxovanadium(IV) modified carbon-paste electrode. <i>Journal of the Brazilian Chemical Society</i> , <b>2004</b> , 15, 803-808	1.5	36
80	Sensitive voltammetric determination of lead released from ceramic dishes by using of bismuth nanostructures anchored on biochar. <i>Talanta</i> , <b>2015</b> , 142, 221-7	6.2	35
79	Facile synthesis of a silver nanoparticles/polypyrrole nanocomposite for non-enzymatic glucose determination. <i>Materials Science and Engineering C</i> , <b>2017</b> , 75, 88-94	8.3	33
78	Detection of cadmium sulphide nanoparticles by using screen-printed electrodes and a handheld device. <i>Nanotechnology</i> , <b>2007</b> , 18, 035502	3.4	33
77	Carbon Paste Electrode Modified with Biochar for Sensitive Electrochemical Determination of Paraquat. <i>Electroanalysis</i> , <b>2016</b> , 28, 764-769	3	31
76	Evaluation of antimony microparticles supported on biochar for application in the voltammetric determination of paraquat. <i>Materials Science and Engineering C</i> , <b>2016</b> , 62, 123-9	8.3	29

75	Disposable electrode obtained by pencil drawing on corrugated fiberboard substrate. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 264, 20-26	8.5	28
74	Microfluidic thread based electroanalytical system for green chromatographic separations. <i>Lab on A Chip</i> , <b>2018</b> , 18, 670-678	7.2	28
73	Copper hexacyanoferrate nanoparticles supported on biochar for amperometric determination of isoniazid. <i>Electrochimica Acta</i> , <b>2018</b> , 285, 373-380	6.7	28
72	Determination of vitamin B6 (pyridoxine) in pharmaceutical preparations by cyclic voltammetry at a copper(II) hexacyanoferrate(III) modified carbon paste electrode. <i>Journal of the Brazilian Chemical Society</i> , <b>2003</b> , 14, 316-321	1.5	27
71	Electrochemical sensor for ranitidine determination based on carbon paste electrode modified with oxovanadium (IV) salen complex. <i>Materials Science and Engineering C</i> , <b>2013</b> , 33, 4081-5	8.3	26
70	An improved flow system for chloride determination in natural waters exploiting solid-phase reactor and long pathlength spectrophotometry. <i>Talanta</i> , <b>2007</b> , 72, 663-7	6.2	26
69	3D-printed electrode as a new platform for electrochemical immunosensors for virus detection. <i>Analytica Chimica Acta</i> , <b>2021</b> , 1147, 30-37	6.6	25
68	Green method for glucose determination using microfluidic device with a non-enzymatic sensor based on nickel oxyhydroxide supported at activated biochar. <i>Talanta</i> , <b>2019</b> , 200, 518-525	6.2	24
67	Nickel nanoparticles with hcp structure: Preparation, deposition as thin films and application as electrochemical sensor. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 468, 34-41	9.3	24
66	Flow injection amperometric determination of dipyrone in pharmaceutical formulations using a carbon paste electrode. <i>Il Farmaco</i> , <b>2003</b> , 58, 999-1004		24
65	Determination of Analgesics (Dipyrone and Acetaminophen) in Pharmaceutical Preparations by Cyclic Voltammetry at a Copper(II) Hexacyanoferrate(III) Modified Carbon Paste Electrode. <i>Current Analytical Chemistry</i> , <b>2009</b> , 5, 303-310	1.7	23
64	Electroanalytical application of a screen-printed electrode modified by dodecanethiol-stabilized platinum nanoparticles for dapsona determination. <i>Electrochimica Acta</i> , <b>2012</b> , 66, 265-270	6.7	22
63	Electrochemical sensor based on biochar and reduced graphene oxide nanocomposite for carbendazim determination. <i>Talanta</i> , <b>2020</b> , 220, 121334	6.2	22
62	3D-printed Microfluidic Device Based on Cotton Threads for Amperometric Estimation of Antioxidants in Wine Samples. <i>Electroanalysis</i> , <b>2018</b> , 30, 101-108	3	22
61	Facile synthesis and dopamine sensing application of three component nanocomposite thin films based on polythiophene, gold nanoparticles and carbon nanotubes. <i>Journal of Electroanalytical Chemistry</i> , <b>2019</b> , 840, 208-217	4.1	21
60	Microfluidic paper-based device integrated with smartphone for point-of-use colorimetric monitoring of water quality index. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2020</b> , 164, 108085	4.6	19
59	Potentiometric determination of Diclofenac using an ion-selective electrode prepared from polypyrrole films. <i>Journal of Electroanalytical Chemistry</i> , <b>2014</b> , 732, 11-16	4.1	19
58	Determination of lactate levels in biological fluids using a disposable ion-selective potentiometric sensor based on polypyrrole films. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 296, 126663	8.5	18

57	Graphene Quantum Dots Modified Screen-printed Electrodes as Electroanalytical Sensing Platform for Diethylstilbestrol. <i>Electroanalysis</i> , <b>2019</b> , 31, 838-843	3	18
56	Thiol-capped gold nanoparticles: Influence of capping amount on electrochemical behavior and potential application as voltammetric sensor for diltiazem. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 220, 673-678	8.5	18
55	Voltammetric Electronic Tongue Based on Carbon Paste Electrodes Modified with Biochar for Phenolic Compounds Stripping Detection. <i>Electroanalysis</i> , <b>2019</b> , 31, 2238-2245	3	18
54	An Overview of Pesticide Monitoring at Environmental Samples Using Carbon Nanotubes-Based Electrochemical Sensors. <i>Journal of Carbon Research</i> , <b>2017</b> , 3, 8	3.3	18
53	Nickel hexacyanoferrate supported at nickel nanoparticles for voltammetric determination of rifampicin. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 260, 816-823	8.5	17
52	Conductometric Determination of N-acetylcysteine in Pharmaceutical Formulations Using Copper(II) Sulphate as Titrant. <i>Analytical Letters</i> , <b>2008</b> , 41, 3264-3271	2.2	17
51	Design of a new nanocomposite between bismuth nanoparticles and graphene oxide for development of electrochemical sensors. <i>Materials Science and Engineering C</i> , <b>2017</b> , 79, 262-269	8.3	16
50	Nanomodified Screen-Printed Electrode for direct determination of Aflatoxin B1 in malted barley samples. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 307, 127547	8.5	16
49	Label-free electrochemical immunosensor for quick detection of anti-hantavirus antibody. <i>Journal of Electroanalytical Chemistry</i> , <b>2019</b> , 842, 140-145	4.1	15
48	Construction and evaluation of carbon black and poly(ethylene co-vinyl)acetate (EVA) composite electrodes for development of electrochemical (bio)sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 253, 10-18	8.5	14
47	Simple and low-cost sensor based on activated biochar for the stripping voltammetric detection of caffeic acid. <i>Microchemical Journal</i> , <b>2020</b> , 159, 105380	4.8	14
46	Quick electrochemical immunoassay for hantavirus detection based on biochar platform. <i>Talanta</i> , <b>2019</b> , 204, 163-171	6.2	13
45	Flow Injection Spectrophotometric System for Ranitidine Determination in Pharmaceuticals Using Cerium(IV) and Ferroun. <i>Current Analytical Chemistry</i> , <b>2009</b> , 5, 213-218	1.7	12
44	A low cost, versatile and chromatographic device for microfluidic amperometric analyses. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 304, 127117	8.5	12
43	Determina voltamtrica por redissolu andica de Cu(II) em guas residuas empregando um eletrodo de pasta de carbono modificado com quitosana. <i>Quimica Nova</i> , <b>2007</b> , 30, 1673-1676	1.6	11
42	Flow injection spectrophotometric determination of adrenaline in pharmaceutical formulations using a solid-phase reactor containing lead(IV) dioxide immobilized in a polyester resin. <i>Il Farmaco</i> , <b>2002</b> , 57, 215-9		11
41	A complete lab-made point of care device for non-immunological electrochemical determination of cortisol levels in salivary samples. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 332, 129532	8.5	11
40	Disposable Solid-State Sensor Based on Polypyrrole Films Doped for Potentiometric Determination of Dipyrone in Human Urine and Pharmaceuticals Products. <i>Electroanalysis</i> , <b>2013</b> , 25, 1535-1540	3	10

39	Biochar obtained from spent coffee grounds: Evaluation of adsorption properties and its application in a voltammetric sensor for lead (II) ions. <i>Microchemical Journal</i> , <b>2021</b> , 165, 106114	4.8	10
38	Nonenzymatic sensor for determination of glucose in blood plasma based on nickel oxyhydroxide in a microfluidic system of cotton thread. <i>Journal of Electroanalytical Chemistry</i> , <b>2019</b> , 840, 153-159	4.1	9
37	Flow Injection Spectrophotometric Determination of Isoproterenol with an On-Line Solid-Phase Reactor Containing Immobilized Manganese Dioxide. <i>Analytical Letters</i> , <b>2004</b> , 37, 2111-2124	2.2	9
36	Label-free aptasensor for p24-HIV protein detection based on graphene quantum dots as an electrochemical signal amplifier. <i>Analytica Chimica Acta</i> , <b>2021</b> , 1166, 338548	6.6	9
35	A simple enzymeless approach for Paraoxon determination using imidazole-functionalized carbon nanotubes. <i>Materials Science and Engineering C</i> , <b>2020</b> , 116, 111140	8.3	8
34	Chemical Wet Oxidation of Carbon Nanotubes for Electrochemical Determination of Methyl Parathion. <i>Journal of Analytical Chemistry</i> , <b>2020</b> , 75, 119-126	1.1	8
33	A Simple and Rapid Estimation of Totals Polyphenols Based On Carbon Paste Electrode Modified with Ruthenium Oxo-Complex. <i>Electroanalysis</i> , <b>2015</b> , 27, 2371-2376	3	8
32	Flow-Injection Spectrophotometric Determination of Dipyrone in Pharmaceutical Formulations Using Ammonium Molybdate as Chromogenic Reagent. <i>Analytical Letters</i> , <b>2005</b> , 38, 2315-2326	2.2	8
31	Degradação de corantes têxteis e remediação de resíduos de tingimento por processos Fenton, foto-Fenton e eletro-Fenton. <i>Química Nova</i> , <b>2012</b> , 35, 932-938	1.6	7
30	Electrochemically Reduced Graphene Oxide as Screen-printed Electrode Modifier for Fenamiphos Determination. <i>Electroanalysis</i> , <b>2020</b> , 32, 1689-1695	3	7
29	State-of-the-art and perspectives in the use of biochar for electrochemical and electroanalytical applications. <i>Green Chemistry</i> , <b>2021</b> , 23, 5272-5301	10	7
28	Disposable potentiometric citrate sensor based on polypyrrole-doped films for indirect determination of sildenafil in pharmaceuticals formulations. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133,	2.9	6
27	Simple and Inexpensive Microfluidic Thread Based Device for Teaching Microflow Injection Analysis and Electrochemistry. <i>Journal of Chemical Education</i> , <b>2018</b> , 95, 1411-1414	2.4	6
26	Potentiometric determination of pantoprazole using an ion-selective sensor based on polypyrrole doped films. <i>Materials Science and Engineering C</i> , <b>2014</b> , 43, 517-20	8.3	6
25	Use of Barium Chloranilate Solid-Phase Reactor for the Determination of Sulfate in Natural Water Samples Exploiting Long Pathlength Spectrophotometry and Multicommutation. <i>Analytical Letters</i> , <b>2011</b> , 44, 298-309	2.2	6
24	Determinação espectrofotométrica em fluxo de cloro em água usando célula de longo caminho óptico e multicomutação. <i>Química Nova</i> , <b>2009</b> , 32, 112-115	1.6	5
23	Chemically-Activated Biochar from <i>Ricinus communis</i> L. Cake and Their Potential Applications for the Voltammetric Assessment of Some Relevant Environmental Pollutants. <i>Journal of the Brazilian Chemical Society</i> ,	1.5	5
22	A Simple and Precise Determination of Diltiazem Hydrochloride by Simultaneous Conductometric and Potentiometric Detection. <i>Current Pharmaceutical Analysis</i> , <b>2014</b> , 10, 203-207	0.6	5

21	Disposable and low-cost lab-made screen-printed electrodes for voltammetric determination of L-Dopa. <i>Sensors and Actuators Reports</i> , <b>2021</b> , 100056	4.7	5
20	Improvement in the performance of an electrochemical sensor for ethanol determination by chemical treatment of graphite. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 877, 114659	4.1	5
19	Cellulose membrane modified with polypyrrole as an extraction device for the determination of emerging contaminants in river water with gas chromatography-mass spectrometry. <i>Journal of Separation Science</i> , <b>2018</b> , 41, 2790-2798	3.4	5
18	A carbon fiber ultramicroelectrode as a simple tool to direct antioxidant estimation based on caffeic acid oxidation. <i>Analytical Methods</i> , <b>2020</b> , 12, 3608-3616	3.2	4
17	Determinao condutomtrica de captopril em formulaes farmacuticas utilizando sulfato de cobre(II) como titulante. <i>Quimica Nova</i> , <b>2008</b> , 31, 349-352	1.6	4
16	Determinao espectrofotomtrica de aspartame em adocntes por injeo em fluxo usando um reator em fase slida contendo fosfato de zinco imobilizado. <i>Quimica Nova</i> , <b>2000</b> , 23, 167-172	1.6	4
15	Construo e aplicao de um minissensor de filme de bismuto utilizando materiais de baixo custo para determinaes voltamtricas in loco. <i>Quimica Nova</i> , <b>2012</b> , 35, 1016-1019	1.6	4
14	Selective carbonaceous-based (nano)composite sensors for electrochemical determination of paraquat in food samples. <i>Food Chemistry</i> , <b>2021</b> , 373, 131521	8.5	4
13	Screen-Printed Electrodes Constructed Using Carbon Black as Conductive Material. <i>Revista Virtual De Quimica</i> , 626-640	1.3	4
12	A carbon black composite electrode for flow injection amperometric determination of hydrochlorothiazide. <i>Analytical Methods</i> , <b>2019</b> , 11, 2422-2427	3.2	2
11	Flow-injection spectrophotometric determination of dipyrone in pharmaceutical formulations using a solid-phase reactor with copper(II) phosphate. <i>Open Chemistry</i> , <b>2013</b> , 11, 1830-1836	1.6	2
10	Filmes de polipirrol aplicados no desenvolvimento de eletrodos descartveis seletivos a ns fluoreto. <i>Polimeros</i> , <b>2014</b> , 24, 508-513	1.6	2
9	Electrochemical behavior of a cation-exchange resin modified with copper ions on non-enzymatic glucose determination. <i>Journal of Electroanalytical Chemistry</i> , <b>2019</b> , 835, 248-253	4.1	2
8	Microfluidic devices based on textile threads for analytical applications: state of the art and prospects. <i>Analytical Methods</i> , <b>2021</b> , 13, 4830-4857	3.2	2
7	Mercury isles in titanate nanotubes: a new strategy for using mercury electrodes in analytical application. <i>Monatshefte Fr Chemie</i> , <b>2020</b> , 151, 1485-1491	1.4	1
6	Novel flow injection spectrophotometric determination of ranitidine in pharmaceuticals. <i>Canadian Journal of Chemistry</i> , <b>2016</b> , 94, 604-607	0.9	1
5	Evaluation of Titanate Nanotubes (TiNTs) as a Modifier for the Determination of Lead (II) by Differential Pulse Adsorptive Stripping Voltammetry (DPAdSV). <i>Analytical Letters</i> , 1-13	2.2	0
4	A simple, fast, and cost-effective analytical method for monitoring active quinones in a H <sub>2</sub> O <sub>2</sub> production process. <i>Microchemical Journal</i> , <b>2021</b> , 163, 105861	4.8	0

- 3 Use of beeswax as an alternative binder in the development of composite electrodes: an approach for determination of hydrogen peroxide in honey samples. *Electrochimica Acta*, **2021**, 390, 138876 6.7 ○
- 2 Simple Melatonin Determination Using Disposable and Low-Cost Lab-Made Screen-Printed Carbon Electrode. *Journal of the Electrochemical Society*, **2022**, 169, 037503 3.9 ○
- 1 Screen-Printed Electrochemical Sensors and Biosensors for Detection of Biomarkers **2022**, 113-140