MÃ¡rcio Fernando Bergamini

List of Publications by Year
in descending order

88 papers	3,197 citations	101543 36 h-index	175258 52 g-index
88 all docs	88 docs citations	88 times ranked	3115 citing authors

#	Article	IF	Citations
1	Selective carbonaceous-based (nano)composite sensors for electrochemical determination of paraquat in food samples. Food Chemistry, 2022, 373, 131521.	8.2	20
2	3D-Printed Electrochemical Devices for Sensing and Biosensing of Biomarkers. , 2022, , 121-136.		5
3	Simple Melatonin Determination Using Disposable and Low-Cost Lab-Made Screen-Printed Carbon Electrode. Journal of the Electrochemical Society, 2022, 169, 037503.	2.9	7
4	3D-printed electrode as a new platform for electrochemical immunosensors for virus detection. Analytica Chimica Acta, 2021, 1147, 30-37.	5.4	56
5	A simple, fast, and cost-effective analytical method for monitoring active quinones in a H2O2 production process. Microchemical Journal, 2021, 163, 105861.	4.5	1
6	Microfluidic devices based on textile threads for analytical applications: state of the art and prospects. Analytical Methods, 2021, 13, 4830-4857.	2.7	21
7	A complete lab-made point of care device for non-immunological electrochemical determination of cortisol levels in salivary samples. Sensors and Actuators B: Chemical, 2021, 332, 129532.	7.8	33
8	Label-free aptasensor for p24-HIV protein detection based on graphene quantum dots as an electrochemical signal amplifier. Analytica Chimica Acta, 2021, 1166, 338548.	5.4	37
9	Biochar obtained from spent coffee grounds: Evaluation of adsorption properties and its application in a voltammetric sensor for lead (II) ions. Microchemical Journal, 2021, 165, 106114.	4.5	28
10	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.	5.2	3
11	State-of-the-art and perspectives in the use of biochar for electrochemical and electroanalytical applications. Green Chemistry, 2021, 23, 5272-5301.	9.0	36
12	A low cost, versatile and chromatographic device for microfluidic amperometric analyses. Sensors and Actuators B: Chemical, 2020, 304, 127117.	7.8	19
13	Nanomodified Screen-Printed Electrode for direct determination of Aflatoxin B1 in malted barley samples. Sensors and Actuators B: Chemical, 2020, 307, 127547.	7.8	30
14	Electrochemical sensor based on biochar and reduced graphene oxide nanocomposite for carbendazim determination. Talanta, 2020, 220, 121334.	5.5	50
15	Simple and low-cost sensor based on activated biochar for the stripping voltammetric detection of caffeic acid. Microchemical Journal, 2020, 159, 105380.	4.5	23
16	Polyphenol oxidase-based electrochemical biosensors: A review. Analytica Chimica Acta, 2020, 1139, 198-221.	5.4	40
17	Mercury isles in titanate nanotubes: a new strategy for using mercury electrodes in analytical application. Monatshefte FÃ¼r Chemie, 2020, 151, 1485-1491.	1.8	4
18	Improvement in the performance of an electrochemical sensor for ethanol determination by chemical treatment of graphite. Journal of Electroanalytical Chemistry, 2020, 877, 114659.	3.8	14

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19	A simple enzymeless approach for Paraoxon determination using imidazole-functionalized carbon nanotubes. Materials Science and Engineering C, 2020, 116, 111140.	7.3	10
20	Microfluidic paper-based device integrated with smartphone for point-of-use colorimetric monitoring of water quality index. Measurement: Journal of the International Measurement Confederation, 2020, 164, 108085.	5.0	36
21	A carbon fiber ultramicroelectrode as a simple tool to direct antioxidant estimation based on caffeic acid oxidation. Analytical Methods, 2020, 12, 3608-3616.	2.7	8
22	Chemical Wet Oxidation of Carbon Nanotubes for Electrochemical Determination of Methyl Parathion. Journal of Analytical Chemistry, 2020, 75, 119-126.	0.9	23
23	Voltammetric Electronic Tongue Based on Carbon Paste Electrodes Modified with Biochar for Phenolic Compounds Stripping Detection. Electroanalysis, 2019, 31, 2238-2245.	2.9	30
24	Determination of lactate levels in biological fluids using a disposable ion-selective potentiometric sensor based on polypyrrole films. Sensors and Actuators B: Chemical, 2019, 296, 126663.	7.8	27
25	Quick electrochemical immunoassay for hantavirus detection based on biochar platform. Talanta, 2019, 204, 163-171.	5.5	23
26	Label-free electrochemical immunosensor for quick detection of anti-hantavirus antibody. Journal of Electroanalytical Chemistry, 2019, 842, 140-145.	3.8	26
27	Green method for glucose determination using microfluidic device with a non-enzymatic sensor based on nickel oxyhydroxide supported at activated biochar. Talanta, 2019, 200, 518-525.	5.5	45
28	Nonenzymatic sensor for determination of glucose in blood plasma based on nickel oxyhydroxide in a microfluidic system of cotton thread. Journal of Electroanalytical Chemistry, 2019, 840, 153-159.	3.8	17
29	A carbon black composite electrode for flow injection amperometric determination of hydrochlorothiazide. Analytical Methods, 2019, 11, 2422-2427.	2.7	5
30	Graphene Quantum Dots Modified Screenâ€printed Electrodes as Electroanalytical Sensing Platform for Diethylstilbestrol. Electroanalysis, 2019, 31, 838-843.	2.9	27
31	Electrochemical behavior of a cation-exchange resin modified with copper ions on non-enzymatic glucose determination. Journal of Electroanalytical Chemistry, 2019, 835, 248-253.	3.8	4
32	Simple, fast and inexpensive method for determination of ranitidine hydrochloride based on conductometric measurements. Ecletica Quimica, 2019, 43, 37.	0.5	0
33	Disposable electrode obtained by pencil drawing on corrugated fiberboard substrate. Sensors and Actuators B: Chemical, 2018, 264, 20-26.	7.8	42
34	Nonenzymatic electrochemical sensor based on imidazole-functionalized graphene oxide for progesterone detection. Biosensors and Bioelectronics, 2018, 112, 108-113.	10.1	69
35	Microfluidic thread based electroanalytical system for green chromatographic separations. Lab on A Chip, 2018, 18, 670-678.	6.0	36
36	Nickel hexacyanoferrate supported at nickel nanoparticles for voltammetric determination of rifampicin. Sensors and Actuators B: Chemical, 2018, 260, 816-823.	7.8	24

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37	3Dâ€printed Microfluidic Device Based on Cotton Threads for Amperometric Estimation of Antioxidants in Wine Samples. Electroanalysis, 2018, 30, 101-108.	2.9	33
38	Simple and Inexpensive Microfluidic Thread Based Device for Teaching Microflow Injection Analysis and Electrochemistry. Journal of Chemical Education, 2018, 95, 1411-1414.	2.3	13
39	Copper hexacyanoferrate nanoparticles supported on biochar for amperometric determination of isoniazid. Electrochimica Acta, 2018, 285, 373-380.	5.2	37
40	Simple, fast and inexpensive method for determination of ranitidine hydrochloride based on conductometric measurements. Ecletica Quimica, 2018, 43, 37.	0.5	0
41	Facile synthesis of a silver nanoparticles/polypyrrole nanocomposite for non-enzymatic glucose determination. Materials Science and Engineering C, 2017, 75, 88-94.	7.3	51
42	Design of a new nanocomposite between bismuth nanoparticles and graphene oxide for development of electrochemical sensors. Materials Science and Engineering C, 2017, 79, 262-269.	7.3	23
43	The use of activated biochar for development of a sensitive electrochemical sensor for determination of methyl parathion. Journal of Electroanalytical Chemistry, 2017, 799, 602-608.	3.8	92
44	Construction and evaluation of carbon black and poly(ethylene co-vinyl)acetate (EVA) composite electrodes for development of electrochemical (bio)sensors. Sensors and Actuators B: Chemical, 2017, 253, 10-18.	7.8	19
45	Activated biochar: Preparation, characterization and electroanalytical application in an alternative strategy of nickel determination. Analytica Chimica Acta, 2017, 983, 103-111.	5.4	59
46	Characterization and optimization of low cost microfluidic thread based electroanalytical device for micro flow injection analysis. Analytica Chimica Acta, 2017, 951, 108-115.	5.4	54
47	Tear glucose detection combining microfluidic thread based device, amperometric biosensor and microflow injection analysis. Biosensors and Bioelectronics, 2017, 98, 161-167.	10.1	61
48	Electroanalytical thread-device for estriol determination using screen-printed carbon electrodes modified with carbon nanotubes. Sensors and Actuators B: Chemical, 2017, 241, 978-984.	7.8	67
49	Gold nanoparticles supported on multi-walled carbon nanotubes produced by biphasic modified method and dopamine sensing application. Sensors and Actuators B: Chemical, 2017, 243, 43-50.	7.8	68
50	Carbon Paste Electrode Modified with Biochar for Sensitive Electrochemical Determination of Paraquat. Electroanalysis, 2016, 28, 764-769.	2.9	45
51	Biochar prepared from castor oil cake at different temperatures: A voltammetric study applied for Pb2+, Cd2+ and Cu2+ ions preconcentration. Journal of Hazardous Materials, 2016, 318, 526-532.	12.4	66
52	One material, multiple functions: graphene/Ni(OH)2 thin films applied in batteries, electrochromism and sensors. Scientific Reports, 2016, 6, 33806.	3.3	65
53	Disposable potentiometric citrate sensor based on polypyrroleâ€doped films for indirect determination of sildenafil in pharmaceuticals formulations. Journal of Applied Polymer Science, 2016, 133, .	2.6	12
54	Evaluation of antimony microparticles supported on biochar for application in the voltammetric determination of paraquat. Materials Science and Engineering C, 2016, 62, 123-129.	7.3	41

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55	Low cost microfluidic device based on cotton threads for electroanalytical application. Lab on A Chip, 2016, 16, 345-352.	6.0	76
56	A Simple and Rapid Estimation of Totals Polyphenols Based On Carbon Paste Electrode Modified with Ruthenium Oxoâ€Complex. Electroanalysis, 2015, 27, 2371-2376.	2.9	8
57	Thiol-capped gold nanoparticles: Influence of capping amount on electrochemical behavior and potential application as voltammetric sensor for diltiazem. Sensors and Actuators B: Chemical, 2015, 220, 673-678.	7.8	23
58	Sensitive voltammetric determination of lead released from ceramic dishes by using of bismuth nanostructures anchored on biochar. Talanta, 2015, 142, 221-227.	5.5	43
59	Mercury nanodroplets supported at biochar for electrochemical determination of zinc ions using a carbon paste electrode. Electrochimica Acta, 2015, 151, 525-530.	5.2	45
60	Electrochemical determination of copper ions in spirit drinks using carbon paste electrode modified with biochar. Food Chemistry, 2015, 171, 426-431.	8.2	132
61	Filmes de polipirrol aplicados no desenvolvimento de eletrodos descartÃ¡veis seletivos a Ãons fluoreto. Polimeros, 2014, 24, 508-513.	0.7	2
62	PVP-capped nickel nanoparticles: Synthesis, characterization and utilization as a glycerol electrosensor. Sensors and Actuators B: Chemical, 2014, 196, 574-581.	7.8	55
63	Potentiometric determination of pantoprazole using an ion-selective sensor based on polypyrrole doped films. Materials Science and Engineering C, 2014, 43, 517-520.	7.3	10
64	Potentiometric determination of Diclofenac using an ion-selective electrode prepared from polypyrrole films. Journal of Electroanalytical Chemistry, 2014, 732, 11-16.	3.8	23
65	An electroanalytical approach for evaluation of biochar adsorption characteristics and its application for Lead and Cadmium determination. Bioresource Technology, 2013, 143, 40-45.	9.6	65
66	Disposable Solidâ€State Sensor Based on Polypyrrole Films Doped for Potentiometric Determination of Dipyrone in Human Urine and Pharmaceuticals Products. Electroanalysis, 2013, 25, 1535-1540.	2.9	10
67	Anodic Stripping Voltammetric Determination of Lead (II) and Cadmium (II) by Using a Carbon Nanotubes Paste Electrode Modified with Ion Exchange Synthetic Resin. Current Analytical Chemistry, 2012, 8, 520-527.	1.2	8
68	Flow injection amperometric determination of isoniazid using a screen-printed carbon electrode modified with silver hexacyanoferrates nanoparticles. Sensors and Actuators B: Chemical, 2012, 171-172, 795-802.	7.8	60
69	Electroanalytical application of a screen-printed electrode modified by dodecanethiol-stabilized platinum nanoparticles for dapsone determination. Electrochimica Acta, 2012, 66, 265-270.	5.2	23
70	Voltammetric Determination of the Antioxidant Capacity in Wine Samples Using a Carbon Nanotube Modified Electrode. Journal of Agricultural and Food Chemistry, 2011, 59, 7620-7625.	5.2	131
71	Electrochemical evaluation of the a carbon-paste electrode modified with spinel manganese(IV) oxide under flow conditions for amperometric determination of lithium. Electrochimica Acta, 2011, 56, 2552-2558.	5.2	11
72	Determination of isoniazid in human urine using screen-printed carbon electrode modified with poly-l-histidine. Bioelectrochemistry, 2010, 77, 133-138.	4.6	75

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73	Screen-printed carbon electrode modified with poly-L-histidine applied to gold(III) determination. Journal of the Brazilian Chemical Society, 2009, 20, 100-106.	0.6	16
74	Voltammetric sensor for amoxicillin determination in human urine using polyglutamic acid/glutaraldehyde film. Sensors and Actuators B: Chemical, 2008, 133, 398-403.	7.8	66
75	Poly(glutamic acid) nanofibre modified glassy carbon electrode: Characterization by atomic force microscopy, voltammetry and electrochemical impedance. Electrochimica Acta, 2008, 53, 3991-4000.	5.2	53
76	Preconcentration of Rutin at a Poly Glutamic Acid Modified Electrode and its Determination by Square Wave Voltammetry. Analytical Letters, 2007, 40, 3430-3442.	1.8	20
77	Flow injection amperometric determination of procaine in pharmaceutical formulation using a screen-printed carbon electrode. Journal of Pharmaceutical and Biomedical Analysis, 2007, 43, 315-319.	2.8	28
78	An electrochemical sensor for l-dopa based on oxovanadium-salen thin film electrode applied flow injection system. Sensors and Actuators B: Chemical, 2007, 122, 549-555.	7.8	88
79	Development of a voltammetric sensor for chromium(VI) determination in wastewater sample. Sensors and Actuators B: Chemical, 2007, 123, 902-908.	7.8	71
80	Screen-Printed Carbon Electrode Modified with Poly-L-Histidine Applied to Voltammetric Determination of Chromium (VI). ECS Transactions, 2006, 3, 87-95.	0.5	2
81	A disposable electrochemical sensor for the rapid determination of levodopa. Journal of Pharmaceutical and Biomedical Analysis, 2005, 39, 54-59.	2.8	98
82	Application of a Glassy Carbon Electrode Modified with Poly(Glutamic Acid) in Caffeic Acid Determination. Mikrochimica Acta, 2005, 151, 127-134.	5.0	76
83	Lithium ions determination by selective pre-concentration and differential pulse anodic stripping voltammetry using a carbon paste electrode modified with a spinel-type manganese oxide. Talanta, 2004, 62, 603-609.	5.5	19
84	Voltammetric determination of L-dopa using an electrode modified with trinuclear ruthenium ammine complex (Ru-red) supported on Y-type zeolite. Talanta, 2004, 63, 1083-1088.	5.5	83
85	Flow injection amperometric determination of dipyrone in pharmaceutical formulations using a carbon paste electrode. Il Farmaco, 2003, 58, 999-1004.	0.9	28
86	Evaluation of a carbon paste electrode modified with organofunctionalized amorphous silica in the cadmium determination in a differential pulse anodic stripping voltammetric procedure. Talanta, 2003, 59, 1021-1028.	5.5	56
87	Chemically-Activated Biochar from Ricinus communis L. Cake and Their Potential Applications for the Voltammetric Assessment of Some Relevant Environmental Pollutants. Journal of the Brazilian Chemical Society, 0, , .	0.6	7
88	Evaluation of Carbon Nanotubes/Polyaniline Thin Films for Development of Electrochemical Sensors. Journal of the Brazilian Chemical Society, 0, , .	0.6	1