Murilo Santhiago

List of Publications by Year in descending order

41 papers	1,611 citations	331670 21 h-index	289244 40 g-index
41 all docs	41 docs citations	41 times ranked	1899 citing authors

#	Article	IF	Citations
1	Separation and electrochemical detection of paracetamol and 4-aminophenol in a paper-based microfluidic device. Analytica Chimica Acta, 2012, 725, 44-50.	5.4	191
2	Low cost, simple three dimensional electrochemical paper-based analytical device for determination of p-nitrophenol. Electrochimica Acta, 2014, 130, 771-777.	5.2	137
3	A new approach for paper-based analytical devices with electrochemical detection based on graphite pencil electrodes. Sensors and Actuators B: Chemical, 2013, 177, 224-230.	7.8	116
4	Flexible and Foldable Fully-Printed Carbon Black Conductive Nanostructures on Paper for High-Performance Electronic, Electrochemical, and Wearable Devices. ACS Applied Materials & Interfaces, 2017, 9, 24365-24372.	8.0	105
5	Direct Drawing Method of Graphite onto Paper for High-Performance Flexible Electrochemical Sensors. ACS Applied Materials & Interfaces, 2017, 9, 11959-11966.	8.0	93
6	Microfluidic paper-based devices for bioanalytical applications. Bioanalysis, 2014, 6, 89-106.	1.5	90
7	Construction and Electrochemical Characterization of Microelectrodes for Improved Sensitivity in Paper-Based Analytical Devices. Analytical Chemistry, 2013, 85, 5233-5239.	6.5	78
8	Novel electrochemical sensor for the selective recognition of chlorogenic acid. Analytica Chimica Acta, 2011, 695, 44-50.	5.4	55
9	Electrochemical sensor based on imprinted solâ€“gel and nanomaterial for determination of caffeine. Sensors and Actuators B: Chemical, 2012, 166-167, 739-745.	7.8	54
10	l-Cysteine determination in pharmaceutical formulations using a biosensor based on laccase from Aspergillus oryzae. Sensors and Actuators B: Chemical, 2007, 128, 279-285.	7.8	52
11	Construction of a new functional platform by grafting poly(4-vinylpyridine) in multi-walled carbon nanotubes for complexing copper ions aiming the amperometric detection of l-cysteine. Electrochimica Acta, 2012, 71, 150-158.	5.2	44
12	Triboelectric effect as a new strategy for sealing and controlling the flow in paper-based devices. Lab on A Chip, 2015, 15, 1651-1655.	6.0	43
13	Three-Dimensional Organic Conductive Networks Embedded in Paper for Flexible and Foldable Devices. ACS Applied Materials & Interfaces, 2016, 8, 10661-10664.	8.0	42
14	Determination of chlorogenic acid in coffee using a biomimetic sensor based on a new tetranuclear copper(II) complex. Talanta, 2008, 77, 394-399.	5.5	36
15	Ultra-highly conductive hollow channels guided by a bamboo bio-template for electric and electrochemical devices. Journal of Materials Chemistry A, 2020, 8, 4030-4039.	10.3	31
16	Rosmarinic acid determination using biomimetic sensor based on purple acid phosphatase mimetic. Analytica Chimica Acta, 2008, 613, 91-97.	5.4	27
17	In situ activated 3,5-dinitrobenzoic acid covalent attached to nanostructured platform for NADH electrooxidation. Electrochimica Acta, 2009, 54, 6609-6616.	5.2	26
18	An amperometric sensor for l-cysteine based on nanostructured platform modified with 5,5â€²-dithiobis-2-nitrobenzoic acid (DTNB). Sensors and Actuators B: Chemical, 2010, 146, 213-220.	7.8	25

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19	Electrochemical Oxidation of Glassy Carbon Provides Similar Electrochemical Response as Graphene Oxide Prepared by Tour or Hummers Routes. ChemElectroChem, 2015, 2, 761-767.	3.4	25
20	Biocompatible Wearable Electrodes on Leaves toward the On-Site Monitoring of Water Loss from Plants. ACS Applied Materials & Interfaces, 2022, 14, 22989-23001.	8.0	25
21	Modified electrode using multi-walled carbon nanotubes and a metallopolymer for amperometric detection of l-cysteine. Electrochimica Acta, 2013, 113, 332-339.	5.2	24
22	Versatile and Robust Integrated Sensors To Locally Assess Humidity Changes in Fully Enclosed Paper-Based Devices. ACS Applied Materials & Interfaces, 2018, 10, 35631-35638.	8.0	24
23	Alcohol-Triggered Capillarity through Porous Pyrolyzed Paper-Based Electrodes Enables Ultrasensitive Electrochemical Detection of Phosphate. ACS Sensors, 2021, 6, 3125-3132.	7.8	24
24	Fully 3D printing of carbon black-thermoplastic hybrid materials and fast activation for development of highly stable electrochemical sensors. Sensors and Actuators B: Chemical, 2021, 349, 130721.	7.8	24
25	Tuning the electrochemical reduction of graphene oxide: structural correlations towards the electrooxidation of nicotinamide adenine dinucleotide hydride. Electrochimica Acta, 2016, 197, 194-199.	5.2	23
26	Bio-based nanostructured carbons toward sustainable technologies. Current Opinion in Green and Sustainable Chemistry, 2018, 12, 22-26.	5.9	20
27	Boosting Electrical Conductivity of Sugarcane Cellulose and Lignin Biocarbons through Annealing under Isopropanol Vapor. ACS Sustainable Chemistry and Engineering, 2020, 8, 7002-7010.	6.7	20
28	In Situ Nanocoating on Porous Pyrolyzed Paper Enables Antibiofouling and Sensitive Electrochemical Analyses in Biological Fluids. ACS Applied Materials & Interfaces, 2022, 14, 2522-2533.	8.0	20
29	Delayed Capillary Flow of Elastomers: An Efficient Method for Fabrication and Nanofunctionalization of Flexible, Foldable, Twistable, and Stretchable Electrodes from Pyrolyzed Paper. Advanced Electronic Materials, 2020, 6, 1900826.	5.1	19
30	Fabrication of microwell plates and microfluidic devices in polyester films using a cutting printer. Analytica Chimica Acta, 2020, 1119, 1-10.	5.4	19
31	Flow in a Paperâ€based Bioactive Channel â€“ Study on Electrochemical Detection of Glucose and Uric Acid. Electroanalysis, 2016, 28, 2245-2252.	2.9	17
32	Wearable binary cooperative polypyrrole nanofilms for chemical mapping on skin. Journal of Materials Chemistry A, 2019, 7, 5227-5233.	10.3	14
33	Bifunctional Metal Meshes Acting as a Semipermeable Membrane and Electrode for Sensitive Electrochemical Determination of Volatile Compounds. ACS Applied Materials & Interfaces, 2021, 13, 35914-35923.	8.0	13
34	Synthesis and Electrochemical Characterization of Poly(2â€methoxyâ€4â€vinylphenol) with MWCNTs. Electroanalysis, 2011, 23, 2562-2568.	2.9	11
35	In situ activated nanostructured platform for oxidized glutathione biosensing. Electrochimica Acta, 2013, 90, 309-316.	5.2	10
36	Enhanced Hydrophobicity in Nanocellulose-Based Materials: Toward Green Wearable Devices. ACS Applied Bio Materials, 2021, 4, 6682-6689.	4.6	10

#	Article	IF	Citations
37	Flexible cellulose-based devices for monitoring physical parameters. Comprehensive Analytical Chemistry, 2020, 89, 361-395.	1.3	8
38	Polydopamine nanofilms for highâ€performance paperâ€based electrochemical devices. Biopolymers, 2021, 112, e23472.	2.4	6
39	Sensing Materials: Flexible Carbon-Based Electrochemical Devices Based on the Three-Dimensional Architecture of Paper. , 2023, , 600-612.		4
40	Bamboo-Based Microfluidic System for Sustainable Bio-devices. Environmental Footprints and Eco-design of Products and Processes, 2022, , 141-169.	1.1	4
41	Fast and efficient electrochemical thinning of ultra-large supported and free-standing MoS₂ layers on gold surfaces. Nanoscale, 2022, 14, 6811-6821.	5.6	2