

# Diego P Rocha

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

1,940  
citations

257450

24  
h-index

315739

38  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1408  
citing authors

#	ARTICLE	IF	CITATIONS
1	Additive-manufactured (3D-printed) electrochemical sensors: A critical review. <i>Analytica Chimica Acta</i> , 2020, 1118, 73-91.	5.4	265
2	Complete Additively Manufactured (3D-Printed) Electrochemical Sensing Platform. <i>Analytical Chemistry</i> , 2019, 91, 12844-12851.	6.5	176
3	3D-Printed graphene/polylactic acid electrode for bioanalysis: Biosensing of glucose and simultaneous determination of uric acid and nitrite in biological fluids. <i>Sensors and Actuators B: Chemical</i> , 2020, 307, 127621.	7.8	142
4	Recent trends and perspectives in electrochemical sensors based on MOF-derived materials. <i>Journal of Materials Chemistry C</i> , 2021, 9, 8718-8745.	5.5	100
5	Improved electrochemical detection of metals in biological samples using 3D-printed electrode: Chemical/electrochemical treatment exposes carbon-black conductive sites. <i>Electrochimica Acta</i> , 2020, 335, 135688.	5.2	97
6	Multifunctional spinel $\text{MnCo}_2\text{O}_4$ based materials for energy storage and conversion: a review on emerging trends, recent developments and future perspectives. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3095-3124.	10.3	88
7	Development of conductive inks for electrochemical sensors and biosensors. <i>Microchemical Journal</i> , 2021, 164, 105998.	4.5	81
8	3D-printed reduced graphene oxide/polylactic acid electrodes: A new prototyped platform for sensing and biosensing applications. <i>Biosensors and Bioelectronics</i> , 2020, 170, 112684.	10.1	78
9	Biosensing strategies for the electrochemical detection of viruses and viral diseases – A review. <i>Analytica Chimica Acta</i> , 2021, 1159, 338384.	5.4	73
10	Electrochemical (Bio)Sensors Enabled by Fused Deposition Modeling-Based 3D Printing: A Guide to Selecting Designs, Printing Parameters, and Post-Treatment Protocols. <i>Analytical Chemistry</i> , 2022, 94, 6417-6429.	6.5	72
11	Batch-injection Analysis Better than ever: New Materials for Improved Electrochemical Detection and On-site Applications. <i>Electroanalysis</i> , 2018, 30, 1386-1399.	2.9	59
12	Forensics in hand: new trends in forensic devices (2013–2017). <i>Analytical Methods</i> , 2018, 10, 5135-5163.	2.7	59
13	Chemically versus electrochemically reduced graphene oxide: Improved amperometric and voltammetric sensors of phenolic compounds on higher roughness surfaces. <i>Sensors and Actuators B: Chemical</i> , 2018, 254, 701-708.	7.8	55
14	Feasible strategies to promote the sensing performances of spinel $\text{MCo}_2\text{O}_4$ (M) Tj ETQq0 0 0 rgBT /Overlock I 2021, 9, 7852-7887.	5.5	43
15	3D-printing pen versus desktop 3D-printers: Fabrication of carbon black/polylactic acid electrodes for single-drop detection of 2,4,6-trinitrotoluene. <i>Analytica Chimica Acta</i> , 2020, 1132, 10-19.	5.4	42
16	Reagentless and sub-minute laser-scribing treatment to produce enhanced disposable electrochemical sensors via additive manufacture. <i>Chemical Engineering Journal</i> , 2021, 425, 130594.	12.7	41
17	Coordenação de metais e antibióticos como uma estratégia de combate à resistência bacteriana. <i>Química Nova</i> , 2011, 34, 111-118.	0.3	40
18	Highly sensitive procedure for determination of Cu(II) by GF AAS using single-drop microextraction. <i>Microchemical Journal</i> , 2019, 147, 894-898.	4.5	38

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19	Electrochemical detection of 3,4-methylenedioxymethamphetamine (ecstasy) using a boron-doped diamond electrode with differential pulse voltammetry: Simple and fast screening method for application in forensic analysis. <i>Microchemical Journal</i> , 2020, 157, 105088.	4.5	33
20	Trace manganese detection via differential pulse cathodic stripping voltammetry using disposable electrodes: additively manufactured nanographite electrochemical sensing platforms. <i>Analyst</i> , 2020, 145, 3424-3430.	3.5	32
21	Carbon nanotube/reduced graphene oxide thin-film nanocomposite formed at liquid-liquid interface: Characterization and potential electroanalytical applications. <i>Sensors and Actuators B: Chemical</i> , 2018, 269, 293-303.	7.8	30
22	Reactive oxygen plasma treatment of 3D-printed carbon electrodes towards high-performance electrochemical sensors. <i>Sensors and Actuators B: Chemical</i> , 2021, 347, 130651.	7.8	28
23	3D printing pen using conductive filaments to fabricate affordable electrochemical sensors for trace metal monitoring. <i>Journal of Electroanalytical Chemistry</i> , 2020, 876, 114701.	3.8	27
24	Highly sensitive amperometric detection of drugs and antioxidants on non-functionalized multi-walled carbon nanotubes: Effect of metallic impurities?. <i>Electrochimica Acta</i> , 2017, 240, 80-89.	5.2	26
25	Posttreatment of 3D-printed surfaces for electrochemical applications: A critical review on proposed protocols. <i>Electrochemical Science Advances</i> , 2022, 2, e2100136.	2.8	26
26	Electrochemically Reduced Graphene Oxide for Forensic Electrochemistry: Detection of Cocaine and its Adulterants Paracetamol, Caffeine and Levamisole. <i>Electroanalysis</i> , 2017, 29, 2418-2422.	2.9	24
27	3D-printed Portable Platform for Mechanized Handling and Injection of Microvolumes Coupled to Electrochemical Detection. <i>Electroanalysis</i> , 2019, 31, 771-777.	2.9	22
28	Indirect determination of formaldehyde by square-wave voltammetry based on the electrochemical oxidation of 3,5-diacetyl-1,4-dihydrolutidine using an unmodified glassy-carbon electrode. <i>Talanta</i> , 2019, 198, 237-241.	5.5	19
29	Stripping Voltammetric Determination of Mercury in Fish Oil Capsules Using a Screen-printed Gold Electrode. <i>Electroanalysis</i> , 2018, 30, 20-23.	2.9	18
30	A flow injection procedure using Layered Double Hydroxide for on line pre-concentration of fluoride. <i>Talanta</i> , 2018, 178, 102-108.	5.5	15
31	Portable electrochemical system using screen-printed electrodes for monitoring corrosion inhibitors. <i>Talanta</i> , 2017, 174, 420-427.	5.5	14
32	Electrochemical sensor for isoniazid detection by using a WS <sub>2</sub> /CNTs nanocomposite. <i>Sensors and Actuators Reports</i> , 2022, 4, 100073.	4.4	14
33	Improved anodic stripping voltammetric detection of zinc on a disposable screen-printed gold electrode. <i>Ionics</i> , 2020, 26, 2611-2621.	2.4	13
34	Additively manufactured carbon/black-integrated polylactic acid 3D printed sensor for simultaneous quantification of uric acid and zinc in sweat. <i>Mikrochimica Acta</i> , 2021, 188, 388.	5.0	13
35	In situ electrochemical exfoliation of embedded graphite to superficial graphene sheets for electroanalytical purposes. <i>Electrochimica Acta</i> , 2020, 354, 136762.	5.2	9
36	A multi-pumping flow system for spectrophotometric determination of oxalate in tea. <i>Microchemical Journal</i> , 2020, 157, 104938.	4.5	6

#	ARTICLE	IF	CITATIONS
37	Electroanalytical Method for Determination of Trace Metals in Struvite Using Electrochemically Treated Screen-Printed Gold Electrodes. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	6
38	Solenoid Micro-pumps: A New Tool for Sample Introduction in Batch Injection Analysis Systems with Electrochemical Detection. <i>Electroanalysis</i> , 2018, 30, 180-186.	2.9	5
39	NiVCe-Layered Double Hydroxide as Multifunctional Nanomaterials for Energy and Sensor Applications. <i>Frontiers in Materials</i> , 2021, 8, .	2.4	4
40	Sensing Materials: Graphene. , 2023, , 367-388.		2
41	Chemically Reduced Graphene Oxide on Gold Electrodes from Recordable CDs: Characterization and Potential Sensing Applications. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	2
42	Sensing Materials: Electrochemical Sensors Enabled by 3D Printing. , 2023, , 73-88.		2
43	Nanomaterial-Based Electrochemical Sensors for Environmental and Energy Applications. , 2019, , 197-228.		1
44	ELECTROCHEMICAL DETERMINATION OF 2-NAPHTHYLAMINE IN PERFUME SAMPLES USING BORONDOPED DIAMOND ELECTRODE. <i>Quimica Nova</i> , 0, , .	0.3	0