Sudkate Chaiyo

List of Publications by Year
in descending order

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37 papers	1,889 citations	361413 20 h-index	330143 37 g-index
37 all docs	37 docs citations	37 times ranked	2552 citing authors

#	Article	IF	Citations
1	Paper-based electrochemical biosensor for diagnosing COVID-19: Detection of SARS-CoV-2 antibodies and antigen. Biosensors and Bioelectronics, 2021, 176, 112912.	10.1	358
2	Electrochemical sensors for the simultaneous determination of zinc, cadmium and lead using a Nafion/ionic liquid/graphene composite modified screen-printed carbon electrode. Analytica Chimica Acta, 2016, 918, 26-34.	5.4	206
3	Non-enzymatic electrochemical detection of glucose with a disposable paper-based sensor using a cobalt phthalocyanineâ€“ionic liquidâ€“graphene composite. Biosensors and Bioelectronics, 2018, 102, 113-120.	10.1	182
4	Highly selective and sensitive paper-based colorimetric sensor using thiosulfate catalytic etching of silver nanoplates for trace determination of copper ions. Analytica Chimica Acta, 2015, 866, 75-83.	5.4	144
5	High sensitivity and specificity simultaneous determination of lead, cadmium and copper using Î¼PAD with dual electrochemical and colorimetric detection. Sensors and Actuators B: Chemical, 2016, 233, 540-549.	7.8	113
6	An origami paper-based electrochemical immunoassay for theÂC-reactive protein using a screen-printed carbon electrode modified with graphene and gold nanoparticles. Mikrochimica Acta, 2019, 186, 153.	5.0	85
7	3D Capillary-Driven Paper-Based Sequential Microfluidic Device for Electrochemical Sensing Applications. ACS Sensors, 2019, 4, 1211-1221.	7.8	79
8	Manganese dioxide-modified carbon paste electrode for voltammetric determination of riboflavin. Mikrochimica Acta, 2016, 183, 1619-1624.	5.0	65
9	Anodic stripping voltammetric determination of total arsenic using a gold nanoparticle-modified boron-doped diamond electrode on aÂpaper-based device. Mikrochimica Acta, 2018, 185, 324.	5.0	61
10	Wiring of glucose oxidase with graphene nanoribbons: an electrochemical third generation glucose biosensor. Mikrochimica Acta, 2017, 184, 1127-1134.	5.0	57
11	Highly sensitive determination of trace copper in food by adsorptive stripping voltammetry in the presence of 1,10-phenanthroline. Talanta, 2013, 108, 1-6.	5.5	55
12	Colorimetric sensor for determination of phosphate ions using anti-aggregation of 2-mercaptoethanesulfonate-modified silver nanoplates and europium ions. Sensors and Actuators B: Chemical, 2019, 290, 226-232.	7.8	47
13	Disposable paper-based electrochemical sensor using thiol-terminated poly(2-methacryloyloxyethyl) Tj ETQq1 1 0.784314 rgBT /Overl 472.	5.0	43
14	Low-cost and disposable sensors for the simultaneous determination of coenzyme Q10 and Î±-lipoic acid using manganese (IV) oxide-modified screen-printed graphene electrodes. Analytica Chimica Acta, 2018, 1004, 22-31.	5.4	42
15	Enhanced sensitivity and separation for simultaneous determination of tin and lead using paper-based sensors combined with a portable potentiostat. Sensors and Actuators B: Chemical, 2020, 318, 128241.	7.8	32
16	Ultrasensitive electrochemiluminescence sensor based on nitrogen-decorated carbon dots for Listeria monocytogenes determination using a screen-printed carbon electrode. Biosensors and Bioelectronics, 2021, 188, 113323.	10.1	32
17	Electrochemical detection of NOx gas based on disposable paper-based analytical device using a copper nanoparticles-modified screen-printed graphene electrode. Biosensors and Bioelectronics, 2019, 143, 111606.	10.1	30
18	â€œSignal-Onâ€•electrochemical biosensor based on a competitive immunoassay format for the sensitive determination of oxytetracycline. Sensors and Actuators B: Chemical, 2020, 320, 128389.	7.8	28

#	Article	IF	Citations
19	Highly sensitive determination of mercury using copper enhancer by diamond electrode coupled with sequential injectionâ€“anodic stripping voltammetry. Analytica Chimica Acta, 2014, 852, 55-62.	5.4	24
20	Integrated Lateral Flow Electrochemical Strip for Leptospirosis Diagnosis. Analytical Chemistry, 2022, 94, 2554-2560.	6.5	23
21	A new ready-to-use gel-based electrolyte for paraquat sensor. Sensors and Actuators B: Chemical, 2020, 315, 128089.	7.8	20
22	Laser engraved microapillary pump paper-based microfluidic device for colorimetric and electrochemical detection of salivary thiocyanate. Mikrochimica Acta, 2021, 188, 140.	5.0	20
23	A novel paper-based colorimetry device for the determination of the albumin to creatinine ratio. Analyst, The, 2018, 143, 5453-5460.	3.5	19
24	A Lowâ€cost Paperâ€based Diamond Electrode for Trace Copper Analysis at Onâ€site Environmental Area. Electroanalysis, 2021, 33, 226-232.	2.9	18
25	Colorimetric assay for determination of Cu (II) ions using l-cysteine functionalized silver nanoplates. Microchemical Journal, 2020, 158, 105101.	4.5	15
26	Carbonized electrospun polyvinylpyrrolidone/metal hybrid nanofiber composites for electrochemical applications. Journal of Applied Polymer Science, 2018, 135, 45639.	2.6	12
27	Simple and Costâ€Effective Electrochemical Approach for Monitoring of Vitamin K in Green Vegetables. ChemElectroChem, 2020, 7, 155-162.	3.4	11
28	Electrochemical and optical biosensors for biological sensing applications. ScienceAsia, 2020, 46, 245.	0.5	11
29	Smartphone-based electrochemical analysis integrated with NFC system for the voltammetric detection of heavy metals using a screen-printed graphene electrode. Mikrochimica Acta, 2022, 189, 191.	5.0	11
30	Hand-Operated, Paper-Based Rotational Vertical-Flow Immunosensor for the Impedimetric Detection of Î±-Fetoprotein. Analytical Chemistry, 2022, 94, 5893-5900.	6.5	9
31	Paper-based sensors for the application of biological compound detection. Comprehensive Analytical Chemistry, 2020, 89, 31-62.	1.3	8
32	Wide electrochemical window of screen-printed electrode for determination of rapamycin using ionic liquid/graphene composites. Mikrochimica Acta, 2020, 187, 245.	5.0	7
33	Fast Determination of Sudan I-IV in Chili Products Using Automated On-Line Solid Phase Extraction Coupled with Liquid Chromatography-Mass Spectrometry. Analytical Letters, 2013, 46, 1705-1717.	1.8	6
34	Sequential electrodeposition of Cuâ€“Pt bimetallic nanocatalysts on boron-doped diamond electrodes for the simple and rapid detection of methanol. Scientific Reports, 2021, 11, 14354.	3.3	5
35	Lateral Flow Immunoassay with a Concave Test Spot for the Determination of Cortisol in Human Serum. Analytical Letters, 2022, 55, 2517-2530.	1.8	5
36	Electrochemical determination of ajmalicine using glassy carbon electrode modified with gold nanoparticles. Monatshefte FÃ¼r Chemie, 2016, 147, 1161-1166.	1.8	4

#	Article	IF	Citations
37	Industrial Buyer Innovation Adoption Model: A Focus on a Smartphone-Based Electrochemical Analytical Device for Toxic Heavy Metal Detection. Sustainability, 2021, 13, 11718.	3.2	2