Orawon Chailapakul

List of Publications by Year
in descending order

221 papers	14,427 citations	16437 64 h-index	24232 110 g-index
224 all docs	224 docs citations	224 times ranked	12190 citing authors

#	Article	IF	Citations
1	Electrochemical Detection for Paper-Based Microfluidics. Analytical Chemistry, 2009, 81, 5821-5826.	3.2	1,050
2	A low-cost, simple, and rapid fabrication method for paper-based microfluidics using wax screen-printing. Analyst, The, 2011, 136, 77-82.	1.7	537
3	Paper-based electrochemical biosensor for diagnosing COVID-19: Detection of SARS-CoV-2 antibodies and antigen. Biosensors and Bioelectronics, 2021, 176, 112912.	5.3	358
4	Use of multiple colorimetric indicators for paper-based microfluidic devices. Analytica Chimica Acta, 2010, 674, 227-233.	2.6	314
5	Novel paper-based cholesterol biosensor using graphene/polyvinylpyrrolidone/polyaniline nanocomposite. Biosensors and Bioelectronics, 2014, 52, 13-19.	5.3	302
6	Multiplex Paper-Based Colorimetric DNA Sensor Using Pyrrolidinyl Peptide Nucleic Acid-Induced AgNPs Aggregation for Detecting MERS-CoV, MTB, and HPV Oligonucleotides. Analytical Chemistry, 2017, 89, 5428-5435.	3.2	296
7	Multilayer Paper-Based Device for Colorimetric and Electrochemical Quantification of Metals. Analytical Chemistry, 2014, 86, 3555-3562.	3.2	288
8	Blood separation on microfluidic paper-based analytical devices. Lab on A Chip, 2012, 12, 3392.	3.1	285
9	An electrochemical sensor based on graphene/polyaniline/polystyrene nanoporous fibers modified electrode for simultaneous determination of lead and cadmium. Sensors and Actuators B: Chemical, 2015, 207, 526-534.	4.0	284
10	Sensitive electrochemical sensor using a grapheneâ€“polyaniline nanocomposite for simultaneous detection of Zn(II), Cd(II), and Pb(II). Analytica Chimica Acta, 2015, 874, 40-48.	2.6	260
11	Lab-on-Paper with Dual Electrochemical/Colorimetric Detection for Simultaneous Determination of Gold and Iron. Analytical Chemistry, 2010, 82, 1727-1732.	3.2	251
12	Novel, simple and low-cost alternative method for fabrication of paper-based microfluidics by wax dipping. Talanta, 2011, 85, 2587-2593.	2.9	228
13	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.	2.6	206
14	Development of automated paper-based devices for sequential multistep sandwich enzyme-linked immunosorbent assays using inkjet printing. Lab on A Chip, 2013, 13, 126-135.	3.1	204
15	Interactions between organized, surface-confined monolayers and vapor-phase probe molecules. 7. Comparison of self-assembling n-alkanethiol monolayers deposited on gold from liquid and vapor phases. Journal of the American Chemical Society, 1993, 115, 12459-12467.	6.6	192
16	Electrochemical detection of glucose from whole blood using paper-based microfluidic devices. Analytica Chimica Acta, 2013, 788, 39-45.	2.6	191
17	Simple silver nanoparticle colorimetric sensing for copper by paper-based devices. Talanta, 2012, 99, 552-557.	2.9	183
18	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.	5.3	182

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19	Electrochemical paper-based peptide nucleic acid biosensor for detecting human papillomavirus. Analytica Chimica Acta, 2017, 952, 32-40.	2.6	177
20	Synthesis and characterization of simple self-assembling, nanoporous monolayer assemblies: a new strategy for molecular recognition. Langmuir, 1993, 9, 884-888.	1.6	162
21	Interactions between Organized, Surface-Confined Monolayers and Liquid-Phase Probe Molecules. 4. Synthesis and Characterization of Nanoporous Molecular Assemblies: Mechanism of Probe Penetration. Langmuir, 1995, 11, 1329-1340.	1.6	153
22	Determination of trace heavy metals in herbs by sequential injection analysis-anodic stripping voltammetry using screen-printed carbon nanotubes electrodes. Analytica Chimica Acta, 2010, 668, 54-60.	2.6	146
23	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.	2.6	144
24	Development of an automated wax-printed paper-based lateral flow device for alpha-fetoprotein enzyme-linked immunosorbent assay. Biosensors and Bioelectronics, 2018, 102, 27-32.	5.3	144
25	Simple and rapid colorimetric detection of Hg(II) by a paper-based device using silver nanoplates. Talanta, 2012, 97, 388-394.	2.9	142
26	Nanoparticle-based electrochemical detection in conventional and miniaturized systems and their bioanalytical applications: A review. Analytica Chimica Acta, 2011, 690, 10-25.	2.6	127
27	Bimetallic Ptâ€“Au nanocatalysts electrochemically deposited on boron-doped diamond electrodes for nonenzymatic glucose detection. Biosensors and Bioelectronics, 2017, 98, 76-82.	5.3	127
28	Electrochemical analysis of acetaminophen using a boron-doped diamond thin film electrode applied to flow injection system. Journal of Pharmaceutical and Biomedical Analysis, 2002, 28, 841-847.	1.4	124
29	Analysis of sudan I, sudan II, sudan III, and sudan IV in food by HPLC with electrochemical detection: Comparison of glassy carbon electrode with carbon nanotube-ionic liquid gel modified electrode. Food Chemistry, 2008, 109, 876-882.	4.2	123
30	Electrochemical detection of human papillomavirus DNA type 16 using a pyrrolidinyl peptide nucleic acid probe immobilized on screen-printed carbon electrodes. Biosensors and Bioelectronics, 2014, 54, 428-434.	5.3	121
31	Simultaneous determination of ascorbic acid, dopamine, and uric acid using graphene quantum dots/ionic liquid modified screen-printed carbon electrode. Sensors and Actuators B: Chemical, 2020, 314, 128059.	4.0	115
32	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.	4.0	113
33	Sensitive and selective electrochemical sensor using silver nanoparticles modified glassy carbon electrode for determination of cholesterol in bovine serum. Sensors and Actuators B: Chemical, 2015, 207, 193-198.	4.0	107
34	Label-free paper-based electrochemical impedance immunosensor for human interferon gamma detection. Sensors and Actuators B: Chemical, 2019, 279, 298-304.	4.0	101
35	Fully Inkjet-Printed Paper-Based Potentiometric Ion-Sensing Devices. Analytical Chemistry, 2017, 89, 10608-10616.	3.2	98
36	Development of a one-step immunochromatographic strip test using gold nanoparticles for the rapid detection of Salmonella typhi in human serum. Biosensors and Bioelectronics, 2012, 31, 562-566.	5.3	96

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37	A microfluidic paper-based analytical device for rapid quantification of particulate chromium. Analytica Chimica Acta, 2013, 800, 50-55.	2.6	95
38	Sodium dodecyl sulfate-modified electrochemical paper-based analytical device for determination of dopamine levels in biological samples. Analytica Chimica Acta, 2012, 744, 1-7.	2.6	94
39	Determination of lead and cadmium in rice samples by sequential injection/anodic stripping voltammetry using a bismuth film/crown ether/Nafion modified screen-printed carbon electrode. Food Control, 2013, 31, 14-21.	2.8	88
40	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.	2.5	85
41	Electrochemical paper-based analytical device for multiplexed, point-of-care detection of cardiovascular disease biomarkers. Sensors and Actuators B: Chemical, 2021, 330, 129336.	4.0	85
42	Highly sensitive colorimetric detection of lead using maleic acid functionalized gold nanoparticles. Talanta, 2015, 132, 613-618.	2.9	83
43	Calix[4]arenes Containing Ferrocene Amide as Carboxylate Anion Receptors and Sensors. Organic Letters, 2003, 5, 1539-1542.	2.4	81
44	Amplification-free DNA Sensor for the One-Step Detection of the Hepatitis B Virus Using an Automated Paper-Based Lateral Flow Electrochemical Device. Analytical Chemistry, 2021, 93, 2879-2887.	3.2	81
45	Fabrication of paper-based devices by lacquer spraying method for the determination of nickel (II) ion in waste water. Talanta, 2013, 114, 291-296.	2.9	80
46	Polyaniline/graphene quantum dot-modified screen-printed carbon electrode for the rapid determination of Cr(VI) using stopped-flow analysis coupled with voltammetric technique. Talanta, 2016, 150, 198-205.	2.9	79
47	A nanocomposite prepared from platinum particles, polyaniline and a Ti3C2 MXene for amperometric sensing of hydrogen peroxide and lactate. Mikrochimica Acta, 2019, 186, 752.	2.5	79
48	3D Capillary-Driven Paper-Based Sequential Microfluidic Device for Electrochemical Sensing Applications. ACS Sensors, 2019, 4, 1211-1221.	4.0	79
49	Boron Doped Diamond Paste Electrodes for Microfluidic Paper-Based Analytical Devices. Analytical Chemistry, 2017, 89, 4100-4107.	3.2	78
50	NFC-enabling smartphone-based portable amperometric immunosensor for hepatitis B virus detection. Sensors and Actuators B: Chemical, 2021, 326, 128825.	4.0	78
51	Microfluidic Paper-Based Analytical Device for Aerosol Oxidative Activity. Environmental Science & Technology, 2013, 47, 932-940.	4.6	77
52	Paper-based amperometric sensor for determination of acetylcholinesterase using screen-printed graphene electrode. Talanta, 2018, 178, 1017-1023.	2.9	77
53	Pop-up paper electrochemical device for label-free hepatitis B virus DNA detection. Sensors and Actuators B: Chemical, 2020, 316, 128077.	4.0	77
54	Electrochemically reduced graphene oxide-modified screen-printed carbon electrodes for a simple and highly sensitive electrochemical detection of synthetic colorants in beverages. Talanta, 2016, 160, 113-124.	2.9	76

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55	Electrochemical impedance-based DNA sensor using pyrrolidinyl peptide nucleic acids for tuberculosis detection. Analytica Chimica Acta, 2018, 1044, 102-109.	2.6	76
56	Simple and selective paper-based colorimetric sensor for determination of chloride ion in environmental samples using label-free silver nanoprisms. Talanta, 2018, 178, 134-140.	2.9	74
57	Electroanalysis of sulfonamides by flow injection system/high-performance liquid chromatography coupled with amperometric detection using boron-doped diamond electrodeâ˜†. Talanta, 2006, 68, 1726-1731.	2.9	72
58	Graphene-polyaniline modified electrochemical droplet-based microfluidic sensor for high-throughput determination of 4-aminophenol. Analytica Chimica Acta, 2016, 925, 51-60.	2.6	72
59	Voltammetric detection of carbofuran determination using screen-printed carbon electrodes modified with gold nanoparticles and graphene oxide. Talanta, 2017, 175, 331-337.	2.9	72
60	CdSe/ZnS quantum dots based electrochemical immunoassay for the detection of phosphorylated bovine serum albumin. Biosensors and Bioelectronics, 2010, 26, 1109-1113.	5.3	71
61	Boron-Doped Diamond-Based Sensors: A Review. Sensor Letters, 2006, 4, 99-119.	0.4	71
62	A novel paper-based device coupled with a silver nanoparticle-modified boron-doped diamond electrode for cholesterol detection. Analytica Chimica Acta, 2015, 891, 136-143.	2.6	70
63	Microchip capillary electrophoresis/electrochemical detection of hydrazine compounds at a cobalt phthalocyanine modified electrochemical detector. Talanta, 2005, 67, 903-907.	2.9	66
64	Label-free immunosensor based on graphene/polyaniline nanocomposite for neutrophil gelatinase-associated lipocalin detection. Biosensors and Bioelectronics, 2017, 87, 249-255.	5.3	66
65	Simple and Rapid Determination of Ferulic Acid Levels in Food and Cosmetic Samples Using Paper-Based Platforms. Sensors, 2013, 13, 13039-13053.	2.1	65
66	Electrochemical detection of c-reactive protein based on anthraquinone-labeled antibody using a screen-printed graphene electrode. Talanta, 2018, 183, 311-319.	2.9	65
67	ZnO@graphene nanocomposite modified electrode for sensitive and simultaneous detection of Cd (II) and Pb (II). Synthetic Metals, 2018, 245, 251-259.	2.1	65
68	A copper oxide-ionic liquid/reduced graphene oxide composite sensor enabled by digital dispensing: Non-enzymatic paper-based microfluidic determination of creatinine in human blood serum. Analytica Chimica Acta, 2019, 1083, 110-118.	2.6	65
69	Development of a sensitive micro-magnetic chemiluminescence enzyme immunoassay for the determination of carcinoembryonic antigen. Analytical and Bioanalytical Chemistry, 2007, 387, 1965-1971.	1.9	63
70	Determination of trace heavy Metals by Sequential Injection-anodic Stripping Voltammetry using Bismuth Film Screen-printed Carbon Electrode. Analytical Sciences, 2008, 24, 589-594.	0.8	62
71	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.	2.5	61
72	Investigation of the enzyme hydrolysis products of the substrates of alkaline phosphatase in electrochemical immunosensing. Talanta, 2008, 76, 424-431.	2.9	60

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73	Selective determination of homocysteine levels in human plasma using a silver nanoparticle-based colorimetric assay. Talanta, 2011, 85, 870-876.	2.9	60
74	Non-invasive electrochemical immunosensor for sweat cortisol based on L-cys/AuNPs/ MXene modified thread electrode. Biosensors and Bioelectronics, 2022, 203, 114039.	5.3	60
75	Development of Amperometric Immunosensor Using Boron-Doped Diamond with Poly(o-aminobenzoic) Tj ETQq1 1 0.784314 rgBT /Ove	3.2	59
76	Determination of aerosol oxidative activity using silver nanoparticle aggregation on paper-based analytical devices. Analyst, The, 2013, 138, 6766.	1.7	59
77	A fast and highly sensitive detection of cholesterol using polymer microfluidic devices and amperometric system. Talanta, 2011, 84, 1323-1328.	2.9	58
78	Fast and simultaneous detection of heavy metals using a simple and reliable microchip-electrochemistry route: An alternative approach to food analysis. Talanta, 2008, 74, 683-689.	2.9	57
79	Highly sensitive determination of trace copper in food by adsorptive stripping voltammetry in the presence of 1,10-phenanthroline. Talanta, 2013, 108, 1-6.	2.9	55
80	Nitrogen-doped grapheneâ€“polyvinylpyrrolidone/gold nanoparticles modified electrode as a novel hydrazine sensor. Sensors and Actuators B: Chemical, 2016, 227, 524-532.	4.0	55
81	Development of gold nanoparticles modified screen-printed carbon electrode for the analysis of thiram, disulfiram and their derivative in food using ultra-high performance liquid chromatography. Talanta, 2015, 132, 416-423.	2.9	54
82	Paperâ€Based Digital Microfluidic Chip for Multiple Electrochemical Assay Operated by a Wireless Portable Control System. Advanced Materials Technologies, 2017, 2, 1600267.	3.0	54
83	Mixed micelle-cloud point extraction for the analysis of penicillin residues in bovine milk by high performance liquid chromatography. Talanta, 2010, 81, 486-492.	2.9	53
84	Graphene-carbon paste electrode for cadmium and lead ion monitoring in a flow-based system. Talanta, 2012, 100, 282-289.	2.9	53
85	Development of Electrochemical Paperâ€based Glucose Sensor Using Celluloseâ€4â€aminophenylboronic Acidâ€modified Screenâ€printed Carbon Electrode. Electroanalysis, 2016, 28, 462-468.	1.5	53
86	Graphene-loaded nanofiber-modified electrodes for the ultrasensitive determination of dopamine. Analytica Chimica Acta, 2013, 804, 84-91.	2.6	52
87	Electrochemical Analysis of Chloramphenicol Using Boron-doped Diamond Electrode Applied to a Flow-Injection System. Analytical Sciences, 2008, 24, 493-498.	0.8	47
88	A facile low-cost enzymatic paper-based assay for the determination of urine creatinine. Talanta, 2015, 144, 915-921.	2.9	47
89	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.	4.0	47
90	A new heteroditopic receptor and sensor highly selective for bromide in the presence of a bound cation. Tetrahedron Letters, 2005, 46, 2765-2769.	0.7	46

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91	Glutathione and l-cysteine modified silver nanoplates-based colorimetric assay for a simple, fast, sensitive and selective determination of nickel. Talanta, 2014, 128, 215-220.	2.9	46
92	Electrochemical analysis of ?-penicillamine using a boron-doped diamond thin film electrode applied to flow injection system. Talanta, 2002, 58, 1213-1219.	2.9	45
93	Electrochemical droplet-based microfluidics using chip-based carbon paste electrodes for high-throughput analysis in pharmaceutical applications. Analytica Chimica Acta, 2015, 883, 45-54.	2.6	45
94	Electrochemical immunosensor based on gold-labeled monoclonal anti-LipL32 for leptospirosis diagnosis. Biosensors and Bioelectronics, 2019, 142, 111539.	5.3	45
95	An automated fast-flow/delayed paper-based platform for the simultaneous electrochemical detection of hepatitis B virus and hepatitis C virus core antigen. Biosensors and Bioelectronics, 2021, 193, 113543.	5.3	44
96	High performance liquid chromatography for the simultaneous analysis of penicillin residues in beef and milk using ion-paired extraction and binary waterâ€“acetonitrile mixture. Talanta, 2012, 92, 38-44.	2.9	43
97	On-line preconcentration and determination of lead and cadmium by sequential injection/anodic stripping voltammetry. Talanta, 2012, 96, 75-81.	2.9	43
98	Disposable paper-based electrochemical sensor using thiol-terminated poly(2-methacryloyloxyethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 472.	2.5	43
99	Amperometric Determination of Sulfite by Gas Diffusion- Sequential Injection with Boron-Doped Diamond Electrode. Sensors, 2008, 8, 1846-1857.	2.1	42
100	Hydrophilic graphene surface prepared by electrochemically reduced micellar graphene oxide as a platform for electrochemical sensor. Talanta, 2017, 165, 692-701.	2.9	42
101	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.	2.6	42
102	Method development for the determination of arsenic by sequential injection/anodic stripping voltammetry using long-lasting gold-modified screen-printed carbon electrode. Talanta, 2013, 116, 1018-1025.	2.9	41
103	A multiplexed three-dimensional paper-based electrochemical impedance device for simultaneous label-free affinity sensing of total and glycated haemoglobin: The potential of using a specific single-frequency value for analysis. Analytica Chimica Acta, 2016, 936, 1-11.	2.6	41
104	A new DNA sensor design for the simultaneous detection of HPV type 16 and 18 DNA. Sensors and Actuators B: Chemical, 2018, 265, 514-521.	4.0	41
105	Cost-effective paper-based electrochemical immunosensor using a label-free assay for sensitive detection of ferritin. Analyst, The, 2020, 145, 5019-5026.	1.7	41
106	Analysis of Tetracycline Antibiotics Using HPLC with Pulsed Amperometric Detection. Analytical Sciences, 2005, 21, 241-245.	0.8	40
107	Janus electrochemistry: Simultaneous electrochemical detection at multiple working conditions in a paper-based analytical device. Analytica Chimica Acta, 2019, 1056, 88-95.	2.6	40
108	A paper-based analytical device coupled with electrochemical detection for the determination of dexamethasone and prednisoloneÂin adulterated traditional medicines. Analytica Chimica Acta, 2019, 1078, 16-23.	2.6	40

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109	Flow injection analysis of doxycycline or chlortetracycline in pharmaceutical formulations with pulsed amperometric detection. Talanta, 2004, 64, 1247-1252.	2.9	39
110	Microfluidic Paper-based Analytical Devices for Determination of Creatinine in Urine Samples. Analytical Sciences, 2018, 34, 109-113.	0.8	39
111	Immobilization-free electrochemical DNA detection with anthraquinone-labeled pyrrolidinyl peptide nucleic acid probe. Talanta, 2016, 146, 318-325.	2.9	36
112	Graphene Oxideâ€Modified Electrode Coated with inâ€situ Antimony Film for the Simultaneous Determination of Heavy Metals by Sequential Injectionâ€Anodic Stripping Voltammetry. Electroanalysis, 2017, 29, 1022-1030.	1.5	36
113	A microfluidic system for evaluation of antioxidant capacity based on a peroxyoxalate chemiluminescence assay. Analytical and Bioanalytical Chemistry, 2006, 387, 277-285.	1.9	35
114	Ultra-high performance liquid chromatographic determination of antioxidants in teas using inkjet-printed grapheneâ€“polyaniline electrode. Talanta, 2016, 148, 673-679.	2.9	35
115	Flow injection amperometric sensor with a carbon nanotube modified screen printed electrode for determination of hydroquinone. Talanta, 2016, 146, 766-771.	2.9	35
116	Fluorescent paper-based DNA sensor using pyrrolidinyl peptide nucleic acids for hepatitis C virus detection. Biosensors and Bioelectronics, 2021, 189, 113381.	5.3	35
117	Use of nickel implanted boron-doped diamond thin film electrode coupled to HPLC system for the determination of tetracyclinesâ€ . Talanta, 2006, 68, 1329-1335.	2.9	34
118	3D paper-based microfluidic device: a novel dual-detection platform of bisphenol A. Analyst, The, 2020, 145, 1491-1498.	1.7	34
119	Efficacy of neem extract against the blowfly and housefly. Parasitology Research, 2008, 103, 535-544.	0.6	33
120	Flow injection analysis of tetracycline in pharmaceutical formulation with pulsed amperometric detection. Analytica Chimica Acta, 2003, 499, 191-197.	2.6	32
121	Cost-Effective Flow Cell for the Determination of Malachite Green and Leucomalachite Green at a Boron-Doped Diamond Thin-Film Electrode. Analytical Sciences, 2006, 22, 111-116.	0.8	32
122	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.	4.0	32
123	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.	5.3	32
124	A facile one-step gold nanoparticles enhancement based on sequential patterned lateral flow immunoassay device for C-reactive protein detection. Sensors and Actuators B: Chemical, 2021, 329, 129241.	4.0	31
125	Impedimetric determination of cortisol using screen-printed electrode with aptamer-modified magnetic beads. Mikrochimica Acta, 2021, 188, 41.	2.5	31
126	Toward the Rapid Diagnosis of Sepsis: Detecting Interleukin-6 in Blood Plasma Using Functionalized Screen-Printed Electrodes with a Thermal Detection Methodology. Analytical Chemistry, 2021, 93, 5931-5938.	3.2	31

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127	Alternative method for measurement of albumin/creatinine ratio using spectrophotometric sequential injection analysis. Talanta, 2009, 79, 1111-1117.	2.9	30
128	Boronate-Modified Interdigitated Electrode Array for Selective Impedance-Based Sensing of Glycated Hemoglobin. Analytical Chemistry, 2016, 88, 9582-9589.	3.2	30
129	Graphene/polyvinylpyrrolidone/polyaniline nanocomposite-modified electrode for simultaneous determination of parabens by high performance liquid chromatography. Talanta, 2016, 148, 655-660.	2.9	30
130	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.	5.3	30
131	Calix[4]quinones Derived from Double Calix[4]arenes:Â Synthesis, Complexation, and Electrochemical Properties toward Alkali Metal Ions. Journal of Organic Chemistry, 2005, 70, 4797-4804.	1.7	29
132	Ultra-performance liquid chromatography coupled with graphene/polyaniline nanocomposite modified electrode for the determination of sulfonamide residues. Talanta, 2014, 123, 115-121.	2.9	29
133	A folding affinity paper-based electrochemical impedance device for cardiovascular risk assessment. Biosensors and Bioelectronics, 2019, 130, 389-396.	5.3	29
134	Rapid separation and highly sensitive detection methodology for sulfonamides in shrimp using a monolithic column coupled with BDD amperometric detection. Talanta, 2009, 79, 1036-1041.	2.9	28
135	Reverse-phase liquid chromatographic determination of Î±-lipoic acid in dietary supplements using a boron-doped diamond electrode. Journal of Chromatography A, 2010, 1217, 7699-7705.	1.8	28
136	Cost-effective flow injection amperometric system with metal nanoparticle loaded carbon nanotube modified screen printed carbon electrode for sensitive determination of hydrogen peroxide. Talanta, 2015, 144, 868-874.	2.9	28
137	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.	4.0	28
138	Electroanalysis of lincomycin using boron-doped diamond thin film electrode applied to flow injection system. Sensors and Actuators B: Chemical, 2005, 108, 627-632.	4.0	27
139	Influence of fumed silica and additives on the gel formation and performance of gel valve-regulated lead-acid batteries. Journal of Industrial and Engineering Chemistry, 2013, 19, 2085-2091.	2.9	27
140	The Synthesis of Carboxymethyl Celluloseâ€Based Hydrogel from Sugarcane Bagasse Using Microwaveâ€Assisted Irradiation for Selective Adsorption of Copper(<scp>II</scp>) Ions. Environmental Progress and Sustainable Energy, 2019, 38, S157.	1.3	27
141	Single step preparation of platinum nanoflowers/reduced graphene oxide electrode as a novel platform for diclofenac sensor. Microchemical Journal, 2020, 155, 104744.	2.3	27
142	Recent Electrochemical and Optical Sensors in Flow-Based Analysis. Sensors, 2006, 6, 1383-1410.	2.1	26
143	An Electrochemical Compact Diskâ€type Microfluidics Platform for Use as an Enzymatic Biosensor. Electroanalysis, 2015, 27, 703-712.	1.5	25
144	Pulsed Amperometry for Anti-fouling of Boron-doped Diamond in Electroanalysis of Î²-Agonists: Application to Flow Injection for Pharmaceutical Analysis. Sensors, 2006, 6, 1837-1850.	2.1	24

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145	Influence of polymer structure on electroosmotic flow and separation efficiency in successive multiple ionic layer coatings for microchip electrophoresis. Electrophoresis, 2008, 29, 3128-3134.	1.3	24
146	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.	2.6	24
147	Droplet-based glucosamine sensor using gold nanoparticles and polyaniline-modified electrode. Talanta, 2016, 158, 134-141.	2.9	23
148	Gold nanoparticle coreâ€“europium(iii) chelate fluorophore-doped silica shell hybrid nanocomposites for the lateral flow immunoassay of human thyroid stimulating hormone with a dual signal readout. Analyst, The, 2018, 143, 564-570.	1.7	23
149	A non-enzymatic disposable electrochemical sensor based on surface-modified screen-printed electrode CuO-IL/rGO nanocomposite for a single-step determination of glucose in human urine and electrolyte drinks. Analytical Methods, 2021, 13, 2796-2803.	1.3	23
150	Integrated Lateral Flow Electrochemical Strip for Leptospirosis Diagnosis. Analytical Chemistry, 2022, 94, 2554-2560.	3.2	23
151	A new electrochemical paper platform for detection of 8-hydroxyquinoline in cosmetics using a cobalt phthalocyanine-modified screen-printed carbon electrode. Journal of Electroanalytical Chemistry, 2019, 832, 480-485.	1.9	22
152	Paper-based immunosensor with competitive assay for cortisol detection. Journal of Pharmaceutical and Biomedical Analysis, 2020, 178, 112925.	1.4	22
153	Enzyme-free impedimetric biosensor-based molecularly imprinted polymer for selective determination of L-hydroxyproline. Biosensors and Bioelectronics, 2021, 191, 113387.	5.3	22
154	Synthesis of redox-active biscalix[4]quinones and their electrochemical properties. Tetrahedron Letters, 2003, 44, 33-36.	0.7	20
155	Highly Sensitive Determination of Cadmium and Lead Using a Low-cost Electrochemical Flow-through Cell Based on a Carbon Paste Electrode. Analytical Sciences, 2012, 28, 141.	0.8	20
156	Polyaspartate as a gelled electrolyte additive to improve the performance of the gel valve-regulated lead-acid batteries under 100Â% depth of discharge and partial-state-of charge conditions. Journal of Solid State Electrochemistry, 2016, 20, 801-811.	1.2	20
157	Screen-Printed Electroluminescent Lamp Modified with Graphene Oxide as a Sensing Device. ACS Applied Materials & Interfaces, 2018, 10, 20775-20782.	4.0	20
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