

# Orawon Chailapakul

## List of Publications by Citations

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219  
papers

10,975  
citations

55  
h-index

97  
g-index

223  
ext. papers

12,533  
ext. citations

5.9  
avg, IF

6.87  
L-index

#	Paper	IF	Citations
219	Electrochemical detection for paper-based microfluidics. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 5821-6	7.8	902
218	A low-cost, simple, and rapid fabrication method for paper-based microfluidics using wax screen-printing. <i>Analyst, The</i> , <b>2011</b> , 136, 77-82	5	443
217	Use of multiple colorimetric indicators for paper-based microfluidic devices. <i>Analytica Chimica Acta</i> , <b>2010</b> , 674, 227-33	6.6	286
216	Novel paper-based cholesterol biosensor using graphene/polyvinylpyrrolidone/polyaniline nanocomposite. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 52, 13-9	11.8	268
215	Multilayer paper-based device for colorimetric and electrochemical quantification of metals. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 3555-62	7.8	256
214	Blood separation on microfluidic paper-based analytical devices. <i>Lab on A Chip</i> , <b>2012</b> , 12, 3392-8	7.2	236
213	Lab-on-paper with dual electrochemical/colorimetric detection for simultaneous determination of gold and iron. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 1727-32	7.8	232
212	An electrochemical sensor based on graphene/polyaniline/polystyrene nanoporous fibers modified electrode for simultaneous determination of lead and cadmium. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 207, 526-534	8.5	221
211	Multiplex Paper-Based Colorimetric DNA Sensor Using Pyrrolidinyl Peptide Nucleic Acid-Induced AgNPs Aggregation for Detecting MERS-CoV, MTB, and HPV Oligonucleotides. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 5428-5435	7.8	219
210	Novel, simple and low-cost alternative method for fabrication of paper-based microfluidics by wax dipping. <i>Talanta</i> , <b>2011</b> , 85, 2587-93	6.2	200
209	Sensitive electrochemical sensor using a graphene-polyaniline nanocomposite for simultaneous detection of Zn(II), Cd(II), and Pb(II). <i>Analytica Chimica Acta</i> , <b>2015</b> , 874, 40-8	6.6	194
208	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. <i>Journal of the American Chemical Society</i> , <b>1993</b> , 115, 12459-12467	16.4	177
207	Development of automated paper-based devices for sequential multistep sandwich enzyme-linked immunosorbent assays using inkjet printing. <i>Lab on A Chip</i> , <b>2013</b> , 13, 126-35	7.2	176
206	Paper-based electrochemical biosensor for diagnosing COVID-19: Detection of SARS-CoV-2 antibodies and antigen. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 176, 112912	11.8	161
205	Electrochemical detection of glucose from whole blood using paper-based microfluidic devices. <i>Analytica Chimica Acta</i> , <b>2013</b> , 788, 39-45	6.6	159
204	Electrochemical sensors for the simultaneous determination of zinc, cadmium and lead using a Nafion/ionic liquid/graphene composite modified screen-printed carbon electrode. <i>Analytica Chimica Acta</i> , <b>2016</b> , 918, 26-34	6.6	156
203	Simple silver nanoparticle colorimetric sensing for copper by paper-based devices. <i>Talanta</i> , <b>2012</b> , 99, 552-7	6.2	151

202	Synthesis and characterization of simple self-assembling, nanoporous monolayer assemblies: a new strategy for molecular recognition. <i>Langmuir</i> , <b>1993</b> , 9, 884-888	4	145
201	Interactions between Organized, Surface-Confined Monolayers and Liquid-Phase Probe Molecules. 4. Synthesis and Characterization of Nanoporous Molecular Assemblies: Mechanism of Probe Penetration. <i>Langmuir</i> , <b>1995</b> , 11, 1329-1340	4	143
200	Electrochemical paper-based peptide nucleic acid biosensor for detecting human papillomavirus. <i>Analytica Chimica Acta</i> , <b>2017</b> , 952, 32-40	6.6	134
199	Determination of trace heavy metals in herbs by sequential injection analysis-anodic stripping voltammetry using screen-printed carbon nanotubes electrodes. <i>Analytica Chimica Acta</i> , <b>2010</b> , 668, 54-60	6.6	130
198	Non-enzymatic electrochemical detection of glucose with a disposable paper-based sensor using a cobalt phthalocyanine-ionic liquid-graphene composite. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 102, 113-120	11.8	129
197	Simple and rapid colorimetric detection of Hg(II) by a paper-based device using silver nanoplates. <i>Talanta</i> , <b>2012</b> , 97, 388-94	6.2	127
196	Highly selective and sensitive paper-based colorimetric sensor using thiosulfate catalytic etching of silver nanoplates for trace determination of copper ions. <i>Analytica Chimica Acta</i> , <b>2015</b> , 866, 75-83	6.6	119
195	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. <i>Food Chemistry</i> , <b>2008</b> , 109, 876-82	8.5	111
194	Nanoparticle-based electrochemical detection in conventional and miniaturized systems and their bioanalytical applications: a review. <i>Analytica Chimica Acta</i> , <b>2011</b> , 690, 10-25	6.6	107
193	Electrochemical analysis of acetaminophen using a boron-doped diamond thin film electrode applied to flow injection system. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2002</b> , 28, 841-7	3.5	106
192	Development of an automated wax-printed paper-based lateral flow device for alpha-fetoprotein enzyme-linked immunosorbent assay. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 102, 27-32	11.8	106
191	Bimetallic Pt-Au nanocatalysts electrochemically deposited on boron-doped diamond electrodes for nonenzymatic glucose detection. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 98, 76-82	11.8	105
190	Electrochemical detection of human papillomavirus DNA type 16 using a pyrrolidinyl peptide nucleic acid probe immobilized on screen-printed carbon electrodes. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 54, 428-34	11.8	103
189	Sensitive and selective electrochemical sensor using silver nanoparticles modified glassy carbon electrode for determination of cholesterol in bovine serum. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 207, 193-198	8.5	91
188	High sensitivity and specificity simultaneous determination of lead, cadmium and copper using BAD with dual electrochemical and colorimetric detection. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 233, 540-549	8.5	86
187	A microfluidic paper-based analytical device for rapid quantification of particulate chromium. <i>Analytica Chimica Acta</i> , <b>2013</b> , 800, 50-5	6.6	83
186	Development of a one-step immunochromatographic strip test using gold nanoparticles for the rapid detection of Salmonella typhi in human serum. <i>Biosensors and Bioelectronics</i> , <b>2012</b> , 31, 562-6	11.8	80
185	Sodium dodecyl sulfate-modified electrochemical paper-based analytical device for determination of dopamine levels in biological samples. <i>Analytica Chimica Acta</i> , <b>2012</b> , 744, 1-7	6.6	80

184	Calix[4]arenes containing ferrocene amide as carboxylate anion receptors and sensors. <i>Organic Letters</i> , <b>2003</b> , 5, 1539-42	6.2	80
183	Fully Inkjet-Printed Paper-Based Potentiometric Ion-Sensing Devices. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 10608-10616	7.8	74
182	Microfluidic paper-based analytical device for aerosol oxidative activity. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 932-40	10.3	68
181	Fabrication of paper-based devices by lacquer spraying method for the determination of nickel (II) ion in waste water. <i>Talanta</i> , <b>2013</b> , 114, 291-6	6.2	68
180	CdSe/ZnS quantum dots based electrochemical immunoassay for the detection of phosphorylated bovine serum albumin. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 26, 1109-13	11.8	65
179	Boron Doped Diamond Paste Electrodes for Microfluidic Paper-Based Analytical Devices. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 4100-4107	7.8	64
178	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. <i>Food Control</i> , <b>2013</b> , 31, 14-21	6.2	64
177	Label-free paper-based electrochemical impedance immunosensor for human interferon gamma detection. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 279, 298-304	8.5	64
176	Highly sensitive colorimetric detection of lead using maleic acid functionalized gold nanoparticles. <i>Talanta</i> , <b>2015</b> , 132, 613-8	6.2	62
175	Electroanalysis of sulfonamides by flow injection system/high-performance liquid chromatography coupled with amperometric detection using boron-doped diamond electrode. <i>Talanta</i> , <b>2006</b> , 68, 1726-31	6.2	62
174	Electrochemically reduced graphene oxide-modified screen-printed carbon electrodes for a simple and highly sensitive electrochemical detection of synthetic colorants in beverages. <i>Talanta</i> , <b>2016</b> , 160, 113-124	6.2	61
173	Polyaniline/graphene quantum dot-modified screen-printed carbon electrode for the rapid determination of Cr(VI) using stopped-flow analysis coupled with voltammetric technique. <i>Talanta</i> , <b>2016</b> , 150, 198-205	6.2	60
172	Development of a sensitive micro-magnetic chemiluminescence enzyme immunoassay for the determination of carcinoembryonic antigen. <i>Analytical and Bioanalytical Chemistry</i> , <b>2007</b> , 387, 1965-71	4.4	60
171	Boron-Doped Diamond-Based Sensors: A Review. <i>Sensor Letters</i> , <b>2006</b> , 4, 99-119	0.9	60
170	Microchip capillary electrophoresis/electrochemical detection of hydrazine compounds at a cobalt phthalocyanine modified electrochemical detector. <i>Talanta</i> , <b>2005</b> , 67, 903-7	6.2	59
169	Graphene-polyaniline modified electrochemical droplet-based microfluidic sensor for high-throughput determination of 4-aminophenol. <i>Analytica Chimica Acta</i> , <b>2016</b> , 925, 51-60	6.6	57
168	A novel paper-based device coupled with a silver nanoparticle-modified boron-doped diamond electrode for cholesterol detection. <i>Analytica Chimica Acta</i> , <b>2015</b> , 891, 136-43	6.6	56
167	Simple and selective paper-based colorimetric sensor for determination of chloride ion in environmental samples using label-free silver nanoprisms. <i>Talanta</i> , <b>2018</b> , 178, 134-140	6.2	56

166	Development of amperometric immunosensor using boron-doped diamond with poly(o-aminobenzoic acid). <i>Analytical Chemistry</i> , <b>2008</b> , 80, 2077-83	7.8	56
165	Simultaneous determination of ascorbic acid, dopamine, and uric acid using graphene quantum dots/ionic liquid modified screen-printed carbon electrode. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 314, 128059	8.5	56
164	An origami paper-based electrochemical immunoassay for the C-reactive protein using a screen-printed carbon electrode modified with graphene and gold nanoparticles. <i>Mikrochimica Acta</i> , <b>2019</b> , 186, 153	5.8	55
163	Selective determination of homocysteine levels in human plasma using a silver nanoparticle-based colorimetric assay. <i>Talanta</i> , <b>2011</b> , 85, 870-6	6.2	55
162	Investigation of the enzyme hydrolysis products of the substrates of alkaline phosphatase in electrochemical immunosensing. <i>Talanta</i> , <b>2008</b> , 76, 424-31	6.2	54
161	Paper-based amperometric sensor for determination of acetylcholinesterase using screen-printed graphene electrode. <i>Talanta</i> , <b>2018</b> , 178, 1017-1023	6.2	53
160	Electrochemical impedance-based DNA sensor using pyrrolidinyl peptide nucleic acids for tuberculosis detection. <i>Analytica Chimica Acta</i> , <b>2018</b> , 1044, 102-109	6.6	52
159	Voltammetric detection of carbofuran determination using screen-printed carbon electrodes modified with gold nanoparticles and graphene oxide. <i>Talanta</i> , <b>2017</b> , 175, 331-337	6.2	52
158	Mixed micelle-cloud point extraction for the analysis of penicillin residues in bovine milk by high performance liquid chromatography. <i>Talanta</i> , <b>2010</b> , 81, 486-92	6.2	51
157	Determination of trace heavy metals by sequential injection-anodic stripping voltammetry using bismuth film screen-printed carbon electrode. <i>Analytical Sciences</i> , <b>2008</b> , 24, 589-94	1.7	51
156	Electrochemical detection of c-reactive protein based on anthraquinone-labeled antibody using a screen-printed graphene electrode. <i>Talanta</i> , <b>2018</b> , 183, 311-319	6.2	50
155	Label-free immunosensor based on graphene/polyaniline nanocomposite for neutrophil gelatinase-associated lipocalin detection. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 87, 249-255	11.8	50
154	Fast and simultaneous detection of heavy metals using a simple and reliable microchip-electrochemistry route: An alternative approach to food analysis. <i>Talanta</i> , <b>2008</b> , 74, 683-9	6.2	49
153	A fast and highly sensitive detection of cholesterol using polymer microfluidic devices and amperometric system. <i>Talanta</i> , <b>2011</b> , 84, 1323-8	6.2	48
152	Graphene-loaded nanofiber-modified electrodes for the ultrasensitive determination of dopamine. <i>Analytica Chimica Acta</i> , <b>2013</b> , 804, 84-91	6.6	47
151	3D Capillary-Driven Paper-Based Sequential Microfluidic Device for Electrochemical Sensing Applications. <i>ACS Sensors</i> , <b>2019</b> , 4, 1211-1221	9.2	46
150	Determination of aerosol oxidative activity using silver nanoparticle aggregation on paper-based analytical devices. <i>Analyst, The</i> , <b>2013</b> , 138, 6766-73	5	46
149	Highly sensitive determination of trace copper in food by adsorptive stripping voltammetry in the presence of 1,10-phenanthroline. <i>Talanta</i> , <b>2013</b> , 108, 1-6	6.2	45

148	Development of Electrochemical Paper-based Glucose Sensor Using Cellulose-4-aminophenylboronic Acid-modified Screen-printed Carbon Electrode. <i>Electroanalysis</i> , <b>2016</b> , 28, 462-468	3	44
147	Graphene-carbon paste electrode for cadmium and lead ion monitoring in a flow-based system. <i>Talanta</i> , <b>2012</b> , 100, 282-9	6.2	44
146	Simple and rapid determination of ferulic acid levels in food and cosmetic samples using paper-based platforms. <i>Sensors</i> , <b>2013</b> , 13, 13039-53	3.8	43
145	A new heteroditopic receptor and sensor highly selective for bromide in the presence of a bound cation. <i>Tetrahedron Letters</i> , <b>2005</b> , 46, 2765-2769	2	43
144	Pop-up paper electrochemical device for label-free hepatitis B virus DNA detection. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 316, 128077	8.5	42
143	Nitrogen-doped graphene/polyvinylpyrrolidone/gold nanoparticles modified electrode as a novel hydrazine sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 227, 524-532	8.5	42
142	A nanocomposite prepared from platinum particles, polyaniline and a TiC MXene for amperometric sensing of hydrogen peroxide and lactate. <i>Mikrochimica Acta</i> , <b>2019</b> , 186, 752	5.8	42
141	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. <i>Talanta</i> , <b>2015</b> , 132, 416-23	6.2	40
140	Anodic stripping voltammetric determination of total arsenic using a gold nanoparticle-modified boron-doped diamond electrode on a paper-based device. <i>Mikrochimica Acta</i> , <b>2018</b> , 185, 324	5.8	40
139	Electrochemical analysis of d-penicillamine using a boron-doped diamond thin film electrode applied to flow injection system. <i>Talanta</i> , <b>2002</b> , 58, 1213-9	6.2	40
138	Glutathione and L-cysteine modified silver nanoplates-based colorimetric assay for a simple, fast, sensitive and selective determination of nickel. <i>Talanta</i> , <b>2014</b> , 128, 215-20	6.2	39
137	Amperometric Determination of Sulfite by Gas Diffusion- Sequential Injection with Boron-Doped Diamond Electrode. <i>Sensors</i> , <b>2008</b> , 8, 1846-1857	3.8	39
136	Paper-Based Digital Microfluidic Chip for Multiple Electrochemical Assay Operated by a Wireless Portable Control System. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1600267	6.8	37
135	Electrochemical analysis of chloramphenicol using boron-doped diamond electrode applied to a flow-injection system. <i>Analytical Sciences</i> , <b>2008</b> , 24, 493-8	1.7	37
134	ZnO@graphene nanocomposite modified electrode for sensitive and simultaneous detection of Cd (II) and Pb (II). <i>Synthetic Metals</i> , <b>2018</b> , 245, 251-259	3.6	36
133	Electrochemical droplet-based microfluidics using chip-based carbon paste electrodes for high-throughput analysis in pharmaceutical applications. <i>Analytica Chimica Acta</i> , <b>2015</b> , 883, 45-54	6.6	35
132	Janus electrochemistry: Simultaneous electrochemical detection at multiple working conditions in a paper-based analytical device. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1056, 88-95	6.6	34
131	NFC-enabling smartphone-based portable amperometric immunosensor for hepatitis B virus detection. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 326, 128825	8.5	34

130	A facile low-cost enzymatic paper-based assay for the determination of urine creatinine. <i>Talanta</i> , <b>2015</b> , 144, 915-21	6.2	33
129	Method development for the determination of arsenic by sequential injection/anodic stripping voltammetry using long-lasting gold-modified screen-printed carbon electrode. <i>Talanta</i> , <b>2013</b> , 116, 1018-25	6.2	33
128	High performance liquid chromatography for the simultaneous analysis of penicillin residues in beef and milk using ion-paired extraction and binary water-acetonitrile mixture. <i>Talanta</i> , <b>2012</b> , 92, 38-44	6.2	33
127	On-line preconcentration and determination of lead and cadmium by sequential injection/anodic stripping voltammetry. <i>Talanta</i> , <b>2012</b> , 96, 75-81	6.2	33
126	Flow injection amperometric sensor with a carbon nanotube modified screen printed electrode for determination of hydroquinone. <i>Talanta</i> , <b>2016</b> , 146, 766-71	6.2	32
125	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. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1083, 110-118	6.6	32
124	Flow injection analysis of doxycycline or chlortetracycline in pharmaceutical formulations with pulsed amperometric detection. <i>Talanta</i> , <b>2004</b> , 64, 1247-52	6.2	32
123	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. <i>Analytica Chimica Acta</i> , <b>2016</b> , 936, 1-11	6.6	31
122	Immobilization-free electrochemical DNA detection with anthraquinone-labeled pyrrolidinyl peptide nucleic acid probe. <i>Talanta</i> , <b>2016</b> , 146, 318-25	6.2	31
121	Use of nickel implanted boron-doped diamond thin film electrode coupled to HPLC system for the determination of tetracyclines. <i>Talanta</i> , <b>2006</b> , 68, 1329-35	6.2	31
120	Hydrophilic graphene surface prepared by electrochemically reduced micellar graphene oxide as a platform for electrochemical sensor. <i>Talanta</i> , <b>2017</b> , 165, 692-701	6.2	30
119	Low-cost and disposable sensors for the simultaneous determination of coenzyme Q10 and lipoic acid using manganese (IV) oxide-modified screen-printed graphene electrodes. <i>Analytica Chimica Acta</i> , <b>2018</b> , 1004, 22-31	6.6	30
118	Analysis of tetracycline antibiotics using HPLC with pulsed amperometric detection. <i>Analytical Sciences</i> , <b>2005</b> , 21, 241-5	1.7	29
117	Microfluidic Paper-based Analytical Devices for Determination of Creatinine in Urine Samples. <i>Analytical Sciences</i> , <b>2018</b> , 34, 109-113	1.7	28
116	Ultra-high performance liquid chromatographic determination of antioxidants in teas using inkjet-printed graphene-polyaniline electrode. <i>Talanta</i> , <b>2016</b> , 148, 673-9	6.2	28
115	Electrochemical immunosensor based on gold-labeled monoclonal anti-LipL32 for leptospirosis diagnosis. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 142, 111539	11.8	28
114	A microfluidic system for evaluation of antioxidant capacity based on a peroxyoxalate chemiluminescence assay. <i>Analytical and Bioanalytical Chemistry</i> , <b>2007</b> , 387, 277-85	4.4	28
113	Electrochemical paper-based analytical device for multiplexed, point-of-care detection of cardiovascular disease biomarkers. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 330, 129336	8.5	28

112	Calix[4]quinones derived from double calix[4]arenes: synthesis, complexation, and electrochemical properties toward alkali metal ions. <i>Journal of Organic Chemistry</i> , <b>2005</b> , 70, 4797-804	4.2	27
111	Rapid separation and highly sensitive detection methodology for sulfonamides in shrimp using a monolithic column coupled with BDD amperometric detection. <i>Talanta</i> , <b>2009</b> , 79, 1036-41	6.2	26
110	Cost-effective flow cell for the determination of malachite green and leucomalachite green at a boron-doped diamond thin-film electrode. <i>Analytical Sciences</i> , <b>2006</b> , 22, 111-6	1.7	26
109	Flow injection analysis of tetracycline in pharmaceutical formulation with pulsed amperometric detection. <i>Analytica Chimica Acta</i> , <b>2003</b> , 499, 191-197	6.6	26
108	Cost-effective flow injection amperometric system with metal nanoparticle loaded carbon nanotube modified screen printed carbon electrode for sensitive determination of hydrogen peroxide. <i>Talanta</i> , <b>2015</b> , 144, 868-74	6.2	25
107	A new DNA sensor design for the simultaneous detection of HPV type 16 and 18 DNA. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 265, 514-521	8.5	25
106	Reverse-phase liquid chromatographic determination of fipoic acid in dietary supplements using a boron-doped diamond electrode. <i>Journal of Chromatography A</i> , <b>2010</b> , 1217, 7699-705	4.5	25
105	Graphene/polyvinylpyrrolidone/polyaniline nanocomposite-modified electrode for simultaneous determination of parabens by high performance liquid chromatography. <i>Talanta</i> , <b>2016</b> , 148, 655-60	6.2	24
104	Disposable paper-based electrochemical sensor using thiol-terminated poly(2-methacryloyloxyethyl phosphorylcholine) for the label-free detection of C-reactive protein. <i>Mikrochimica Acta</i> , <b>2019</b> , 186, 472	5.8	24
103	Ultra-performance liquid chromatography coupled with graphene/polyaniline nanocomposite modified electrode for the determination of sulfonamide residues. <i>Talanta</i> , <b>2014</b> , 123, 115-21	6.2	24
102	Influence of polymer structure on electroosmotic flow and separation efficiency in successive multiple ionic layer coatings for microchip electrophoresis. <i>Electrophoresis</i> , <b>2008</b> , 29, 3128-34	3.6	24
101	Amplification-free DNA Sensor for the One-Step Detection of the Hepatitis B Virus Using an Automated Paper-Based Lateral Flow Electrochemical Device. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 2879-2887 <sup>7.8</sup>	7.8	24
100	Alternative method for measurement of albumin/creatinine ratio using spectrophotometric sequential injection analysis. <i>Talanta</i> , <b>2009</b> , 79, 1111-7	6.2	23
99	A paper-based analytical device coupled with electrochemical detection for the determination of dexamethasone and prednisolone in adulterated traditional medicines. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1078, 16-23	6.6	22
98	Colorimetric sensor for determination of phosphate ions using anti-aggregation of 2-mercaptoethanesulfonate-modified silver nanoplates and europium ions. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 290, 226-232	8.5	22
97	An Electrochemical Compact Disk-type Microfluidics Platform for Use as an Enzymatic Biosensor. <i>Electroanalysis</i> , <b>2015</b> , 27, 703-712	3	22
96	Cost-effective paper-based electrochemical immunosensor using a label-free assay for sensitive detection of ferritin. <i>Analyst, The</i> , <b>2020</b> , 145, 5019-5026	5	22
95	Droplet-based glucosamine sensor using gold nanoparticles and polyaniline-modified electrode. <i>Talanta</i> , <b>2016</b> , 158, 134-141	6.2	22



94	Highly sensitive determination of mercury using copper enhancer by diamond electrode coupled with sequential injection-anodic stripping voltammetry. <i>Analytica Chimica Acta</i> , <b>2014</b> , 852, 55-62	6.6	22
93	Recent Electrochemical and Optical Sensors in Flow-Based Analysis. <i>Sensors</i> , <b>2006</b> , 6, 1383-1410	3.8	22
92	Electrochemical detection of NO <sub>x</sub> gas based on disposable paper-based analytical device using a copper nanoparticles-modified screen-printed graphene electrode. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 143, 111606	11.8	21
91	Pulsed Amperometry for Anti-fouling of Boron-doped Diamond in Electroanalysis of $\beta$ -Agonists: Application to Flow Injection for Pharmaceutical Analysis. <i>Sensors</i> , <b>2006</b> , 6, 1837-1850	3.8	21
90	Electroanalysis of lincomycin using boron-doped diamond thin film electrode applied to flow injection system. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 108, 627-632	8.5	21
89	A folding affinity paper-based electrochemical impedance device for cardiovascular risk assessment. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 130, 389-396	11.8	21
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