

Muhammad J A Shiddiky

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

143
papers

5,574
citations

45
h-index

69
g-index

146
ext. papers

6,636
ext. citations

7.2
avg, IF

6.21
L-index

#	Paper	IF	Citations
143	Exosomal microRNAs array sensor with a bioconjugate composed of p53 protein and hydrazine for the specific lung cancer detection.. <i>Biosensors and Bioelectronics</i> , 2022 , 207, 114149	11.8	1
142	An Interfacial Affinity Interaction-Based Method for Detecting HOTAIR lncRNA in Cancer Plasma Samples. <i>Biosensors</i> , 2022 , 12, 287	5.9	1
141	Recent Developments of Carboxymethyl Cellulose. <i>Polymers</i> , 2021 , 13,	4.5	38
140	Bioengineered Polymer Nanobeads for Isolation and Electrochemical Detection of Cancer Biomarkers. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 31418-31430	9.5	5
139	Biosensor Technologies for Early Detection and Quantification of Plant Pathogens. <i>Frontiers in Chemistry</i> , 2021 , 9, 636245	5	11
138	A novel DNA binding protein-based platform for electrochemical detection of miRNA. <i>Analyst, The</i> , 2021 , 146, 5496-5501	5	2
137	Separation of distinct exosome subpopulations: isolation and characterization approaches and their associated challenges. <i>Analyst, The</i> , 2021 , 146, 3731-3749	5	14
136	Isolation and Detection of Exosomes Using Fe ₂ O ₃ Nanoparticles. <i>ACS Applied Nano Materials</i> , 2021 , 4, 1175-1186	5.6	19
135	Loop-Mediated Isothermal Amplification in a Core-Shell Bead Assay for the Detection of Tyrosine Kinase AXL Overexpression. <i>Micromachines</i> , 2021 , 12,	3.3	1
134	A Portable Device for LAMP Based Detection of SARS-CoV-2. <i>Micromachines</i> , 2021 , 12,	3.3	2
133	e-MagnetoMethyl IP: a magnetic nanoparticle-mediated immunoprecipitation and electrochemical detection method for global DNA methylation. <i>Analyst, The</i> , 2021 , 146, 3654-3665	5	0
132	Naked eye evaluation and quantitative detection of the sugarcane leaf scald pathogen, <i>Xanthomonas albilineans</i> , in sugarcane xylem sap. <i>Crop and Pasture Science</i> , 2021 , 72, 361	2.2	0
131	Oxi-Redox Selective Breast Cancer Treatment: An In Vitro Study of Theranostic In-Based Oxide Nanoparticles for Controlled Generation or Prevention of Oxidative Stress. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 2204-2217	9.5	2
130	Rapid, Simple and Inexpensive Fabrication of Paper-Based Analytical Devices by Parafilm Hot Pressing.. <i>Micromachines</i> , 2021 , 13,	3.3	2
129	Nanozyme-based electrochemical biosensors for disease biomarker detection. <i>Analyst, The</i> , 2020 , 145, 4398-4420	5	60
128	Vanadium-Substituted Tungstosulfate Polyoxometalates as Peroxidase Mimetics and Their Potential Application in Biosensing. <i>ChemElectroChem</i> , 2020 , 7, 3943-3950	4.3	7
127	Challenges and perspectives in the development of paper-based lateral flow assays. <i>Microfluidics and Nanofluidics</i> , 2020 , 24, 1	2.8	36

126	MicroRNAs in ovarian cancer and recent advances in the development of microRNA-based biosensors. <i>Analyst, The</i> , 2020 , 145, 2038-2057	5	23
125	Electropolymerized Porous Polymer Films on Flexible Indium Tin Oxide Using Trifunctional Furan Substituted Benzene Conjugated Monomer for Biosensing. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 351-359	4.3	3
124	miRNA signature in small extracellular vesicles and their association with platinum resistance and cancer recurrence in ovarian cancer. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020 , 28, 102207	6	22
123	Hypoxia-induced small extracellular vesicle proteins regulate proinflammatory cytokines and systemic blood pressure in pregnant rats. <i>Clinical Science</i> , 2020 , 134, 593-607	6.5	10
122	Cancer biomarker profiling using nanozyme containing iron oxide loaded with gold particles. <i>Journal of the Royal Society Interface</i> , 2020 , 17, 20200180	4.1	6
121	Sensitive Detection of Motor Neuron Disease Derived Exosomal miRNA Using Electrocatalytic Activity of Gold-Loaded Superparamagnetic Ferric Oxide Nanocubes. <i>ChemElectroChem</i> , 2020 , 7, 3459-3467	4.7	10
120	Sustainable Antibiotic-Free Broiler Meat Production: Current Trends, Challenges, and Possibilities in a Developing Country Perspective. <i>Biology</i> , 2020 , 9,	4.9	13
119	Wicking in Paper Strips under Consideration of Liquid Absorption Capacity. <i>Chemosensors</i> , 2020 , 8, 65	4	5
118	Nanostructured mesoporous gold biosensor for microRNA detection at attomolar level. <i>Biosensors and Bioelectronics</i> , 2020 , 168, 112429	11.8	25
117	An amplification-free method for the detection of HOTAIR long non-coding RNA. <i>Analytica Chimica Acta</i> , 2020 , 1132, 66-73	6.6	6
116	PCR-Free Detection of Long Non-Coding HOTAIR RNA in Ovarian Cancer Cell Lines and Plasma Samples. <i>Cancers</i> , 2020 , 12,	6.6	8
115	Detection of the SARS-CoV-2 humanized antibody with paper-based ELISA. <i>Analyst, The</i> , 2020 , 145, 7680-7686	5	35
114	Vanadium-Substituted Tungstosulfate Polyoxometalates as Peroxidase Mimetics and Their Potential Application in Biosensing. <i>ChemElectroChem</i> , 2020 , 7, 3894-3894	4.3	
113	DNA-Templated Copper Nanoprobes: Overview, Feature, Application, and Current Development in Detection Technologies. <i>Chemical Record</i> , 2020 , 20, 174-186	6.6	5
112	Advanced Diagnostic Approaches for Necrotrophic Fungal Pathogens of Temperate Legumes With a Focus on spp. <i>Frontiers in Microbiology</i> , 2019 , 10, 1889	5.7	11
111	Nanoarchitecture Frameworks for Electrochemical miRNA Detection. <i>Trends in Biochemical Sciences</i> , 2019 , 44, 433-452	10.3	75
110	Enhanced Peroxidase Mimetic Activity of Porous Iron Oxide Nanoflakes. <i>ChemNanoMat</i> , 2019 , 5, 506-513	3.5	25
109	Self-sacrificial templated synthesis of a three-dimensional hierarchical macroporous honeycomb-like ZnO/ZnCo ₂ O ₄ hybrid for carbon monoxide sensing. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3415-3425	13	49

108	Naphthalene flanked diketopyrrolopyrrole: a new conjugated building block with hexyl or octyl alkyl side chains for electropolymerization studies and its biosensor applications. <i>Polymer Chemistry</i> , 2019 , 10, 3722-3739	4.9	10
107	Transparent crystalline cubic SiC-on-glass electrodes enable simultaneous electrochemistry and optical microscopy. <i>Chemical Communications</i> , 2019 , 55, 7978-7981	5.8	2
106	Autoantibodies as diagnostic and prognostic cancer biomarker: Detection techniques and approaches. <i>Biosensors and Bioelectronics</i> , 2019 , 139, 111315	11.8	32
105	Avoiding Pre-Isolation Step in Exosome Analysis: Direct Isolation and Sensitive Detection of Exosomes Using Gold-Loaded Nanoporous Ferric Oxide Nanozymes. <i>Analytical Chemistry</i> , 2019 , 91, 3827-3834	7.8	137
104	Long-Lived, Transferred Crystalline Silicon Carbide Nanomembranes for Implantable Flexible Electronics. <i>ACS Nano</i> , 2019 , 13, 11572-11581	16.7	65
103	Superparamagnetic nanoarchitectures for disease-specific biomarker detection. <i>Chemical Society Reviews</i> , 2019 , 48, 5717-5751	58.5	119
102	Advanced liquid biopsy technologies for circulating biomarker detection. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 6670-6704	7.3	74
101	A bisulfite treatment and PCR-free global DNA methylation detection method using electrochemical enzymatic signal engagement. <i>Biosensors and Bioelectronics</i> , 2019 , 126, 102-107	11.8	22
100	An amplification-free electrochemical detection of exosomal miRNA-21 in serum samples. <i>Analyst, The</i> , 2018 , 143, 1662-1669	5	78
99	Pneumatically actuated cell-stretching array platform for engineering cell patterns in vitro. <i>Lab on A Chip</i> , 2018 , 18, 765-774	7.2	10
98	Biological Functions and Current Advances in Isolation and Detection Strategies for Exosome Nanovesicles. <i>Small</i> , 2018 , 14, 1702153	11	217
97	Robust Free-Standing Nano-Thin SiC Membranes Enable Direct Photolithography for MEMS Sensing Applications. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700858	3.5	18
96	Naked-eye and electrochemical detection of isothermally amplified HOTAIR long non-coding RNA. <i>Analyst, The</i> , 2018 , 143, 3021-3028	5	22
95	Circulating tumor DNA and liquid biopsy: opportunities, challenges, and recent advances in detection technologies. <i>Lab on A Chip</i> , 2018 , 18, 1174-1196	7.2	164
94	Gold-loaded nanoporous ferric oxide nanocubes for electrocatalytic detection of microRNA at attomolar level. <i>Biosensors and Bioelectronics</i> , 2018 , 101, 275-281	11.8	60
93	Recent advances and current challenges in magnetophoresis based micro magnetofluidics. <i>Biomicrofluidics</i> , 2018 , 12, 031501	3.2	61
92	Porous nanozymes: the peroxidase-mimetic activity of mesoporous iron oxide for the colorimetric and electrochemical detection of global DNA methylation. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 4783-4791	7.3	59
91	Detection of FGFR2 : FAM76A Fusion Gene in Circulating Tumor RNA Based on Catalytic Signal Amplification of Graphene Oxide-loaded Magnetic Nanoparticles. <i>Electroanalysis</i> , 2018 , 30, 2293-2301	3	16

90	DNA methylation detection: recent developments in bisulfite free electrochemical and optical approaches. <i>Analyst, The</i> , 2018 , 143, 4802-4818	5	29
89	Graphene-Oxide-Loaded Superparamagnetic Iron Oxide Nanoparticles for Ultrasensitive Electrochemical Detection of MicroRNA. <i>ChemElectroChem</i> , 2018 , 5, 2488-2495	4.3	24
88	Synthesis of nanoporous poly-melamine-formaldehyde (PMF) based on Schiff base chemistry as a highly efficient adsorbent. <i>Analyst, The</i> , 2018 , 144, 342-348	5	6
87	Mesoporous Iron Oxide Synthesized Using Poly(styrene-b-acrylic acid-b-ethylene glycol) Block Copolymer Micelles as Templates for Colorimetric and Electrochemical Detection of Glucose. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1039-1049	9.5	67
86	Epigenetically reprogrammed methylation landscape drives the DNA self-assembly and serves as a universal cancer biomarker. <i>Nature Communications</i> , 2018 , 9, 4915	17.4	80
85	Circulating tumor microemboli: Progress in molecular understanding and enrichment technologies. <i>Biotechnology Advances</i> , 2018 , 36, 1367-1389	17.8	43
84	Self-Assembly of Polymeric Micelles Made of Asymmetric Polystyrene-b-Polyacrylic Acid-b-Polyethylene Oxide for the Synthesis of Mesoporous Nickel Ferrite. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 1328-1332	2.3	7
83	Electrochemical biosensing strategies for DNA methylation analysis. <i>Biosensors and Bioelectronics</i> , 2017 , 94, 63-73	11.8	46
82	Electrochemical Detection of FAM134B Mutations in Oesophageal Cancer Based on DNA-Gold Affinity Interactions. <i>Electroanalysis</i> , 2017 , 29, 1359-1367	3	4
81	Quantum dot-based sensitive detection of disease specific exosome in serum. <i>Analyst, The</i> , 2017 , 142, 2211-2219	5	104
80	Colorimetric and electrochemical quantification of global DNA methylation using a methyl cytosine-specific antibody. <i>Analyst, The</i> , 2017 , 142, 1900-1908	5	19
79	Gold-loaded nanoporous iron oxide nanocubes: a novel dispersible capture agent for tumor-associated autoantibody analysis in serum. <i>Nanoscale</i> , 2017 , 9, 8805-8814	7.7	36
78	Quantification of gene-specific DNA methylation in oesophageal cancer via electrochemistry. <i>Analytica Chimica Acta</i> , 2017 , 976, 84-93	6.6	21
77	Synthesis of Carbon Nanospheres Through Carbonization of Areca nut. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 2837-842	1.3	12
76	An electrochemical method for sensitive and rapid detection of FAM134B protein in colon cancer samples. <i>Scientific Reports</i> , 2017 , 7, 133	4.9	22
75	Detection of aberrant protein phosphorylation in cancer using direct gold-protein affinity interactions. <i>Biosensors and Bioelectronics</i> , 2017 , 91, 8-14	11.8	14
74	An Electromagnetically Actuated Double-Sided Cell-Stretching Device for Mechanobiology Research. <i>Micromachines</i> , 2017 , 8,	3.3	13
73	Gold-Loaded Nanoporous Ferric Oxide Nanocubes with Peroxidase-Mimicking Activity for Electrochemical and Colorimetric Detection of Autoantibody. <i>Analytical Chemistry</i> , 2017 , 89, 11005-11013	7.8	87

72	A multiplex microplatform for the detection of multiple DNA methylation events using gold-DNA affinity. <i>Analyst, The</i> , 2017 , 142, 3573-3578	5	9
71	Strategies for Improving the Functionality of Zeolitic Imidazolate Frameworks: Tailoring Nanoarchitectures for Functional Applications. <i>Advanced Materials</i> , 2017 , 29, 1700213	24	270
70	Magnetofluidic micromixer based on a complex rotating magnetic field. <i>RSC Advances</i> , 2017 , 7, 52465-52474	3	9
69	A PCR-free electrochemical method for messenger RNA detection in cancer tissue samples. <i>Biosensors and Bioelectronics</i> , 2017 , 98, 227-233	11.8	34
68	Gold-loaded nanoporous superparamagnetic nanocubes for catalytic signal amplification in detecting miRNA. <i>Chemical Communications</i> , 2017 , 53, 8231-8234	5.8	63
67	Optical biosensing strategies for DNA methylation analysis. <i>Biosensors and Bioelectronics</i> , 2017 , 92, 668-678	6.7	38
66	An Electrochemical Method for the Detection of Disease-Specific Exosomes. <i>ChemElectroChem</i> , 2017 , 4, 967-971	4.3	56
65	Detection of regional DNA methylation using DNA-graphene affinity interactions. <i>Biosensors and Bioelectronics</i> , 2017 , 87, 615-621	11.8	49
64	Microfluidic Technology for the Generation of Cell Spheroids and Their Applications. <i>Micromachines</i> , 2017 , 8, 94	3.3	64
63	RNA Biomarkers: Diagnostic and Prognostic Potentials and Recent Developments of Electrochemical Biosensors. <i>Small Methods</i> , 2017 , 1, 1700131	12.8	60
62	Superparamagnetic Gadolinium Ferrite Nanoparticles with Controllable Curie Temperature □ Cancer Theranostics for MR-Imaging-Guided Magneto-Chemotherapy. <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 4586-4597	2.3	35
61	Capture and On-chip analysis of Melanoma Cells Using Tunable Surface Shear forces. <i>Scientific Reports</i> , 2016 , 6, 19709	4.9	8
60	Nanoyeast and Other Cell Envelope Compositions for Protein Studies and Biosensor Applications. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 30649-30664	9.5	13
59	Real time and label free profiling of clinically relevant exosomes. <i>Scientific Reports</i> , 2016 , 6, 30460	4.9	106
58	Amplification-Free Detection of Gene Fusions in Prostate Cancer Urinary Samples Using mRNA-Gold Affinity Interactions. <i>Analytical Chemistry</i> , 2016 , 88, 6781-8	7.8	54
57	Poly(A) Extensions of miRNAs for Amplification-Free Electrochemical Detection on Screen-Printed Gold Electrodes. <i>Analytical Chemistry</i> , 2016 , 88, 2000-5	7.8	108
56	Electric Field Induced Isolation, Release, and Recapture of Tumor Cells. <i>ACS Sensors</i> , 2016 , 1, 399-405	9.2	13
55	Electrochemical detection of protein glycosylation using lectin and protein-gold affinity interactions. <i>Analyst, The</i> , 2016 , 141, 2356-61	5	13

54	Identification of Novel FAM134B (JK1) Mutations in Oesophageal Squamous Cell Carcinoma. <i>Scientific Reports</i> , 2016 , 6, 29173	4.9	25
53	Biosensing made easy with PEG-targeted bi-specific antibodies. <i>Chemical Communications</i> , 2016 , 52, 5739-5	3.3	10
52	Cyano-Bridged Trimetallic Coordination Polymer Nanoparticles and Their Thermal Decomposition into Nanoporous Spinel Ferromagnetic Oxides. <i>Chemistry - A European Journal</i> , 2016 , 22, 15042-15048	4.8	8
51	DNA-Bare gold affinity interactions: mechanism and applications in biosensing. <i>Analytical Methods</i> , 2015 , 7, 7042-7054	3.2	101
50	Structural Characterization of Nanoyeast Single-Chain Fragment Variable Affinity Reagents. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 12674-12680	3.8	4
49	A multiplexed device based on tunable nanoshearing for specific detection of multiple protein biomarkers in serum. <i>Scientific Reports</i> , 2015 , 5, 9756	4.9	17
48	DNA ligase-based strategy for quantifying heterogeneous DNA methylation without sequencing. <i>Clinical Chemistry</i> , 2015 , 61, 163-71	5.5	20
47	Alternating current electrohydrodynamics in microsystems: Pushing biomolecules and cells around on surfaces. <i>Biomicrofluidics</i> , 2015 , 9, 061501	3.2	21
46	Enhancing Protein Capture Using a Combination of Nanoyeast Single-Chain Fragment Affinity Reagents and Alternating Current Electrohydrodynamic Forces. <i>Analytical Chemistry</i> , 2015 , 87, 11673-81	7.8	8
45	Enabling Rapid and Specific Surface-Enhanced Raman Scattering Immunoassay Using Nanoscaled Surface Shear Forces. <i>ACS Nano</i> , 2015 , 9, 6354-62	16.7	82
44	Molecular nanoshearing: an innovative approach to shear off molecules with AC-induced nanoscopic fluid flow. <i>Scientific Reports</i> , 2014 , 4, 3716	4.9	25
43	Tunable surface shear forces to physically displace nonspecific molecules in protein biomarker detection. <i>Biosensors and Bioelectronics</i> , 2014 , 61, 184-91	11.8	8
42	Electrohydrodynamic removal of non-specific colloidal adsorption at electrode interfaces. <i>Chemical Communications</i> , 2014 , 50, 4813-5	5.8	7
41	eMethylsorb: electrochemical quantification of DNA methylation at CpG resolution using DNA-gold affinity interactions. <i>Chemical Communications</i> , 2014 , 50, 13153-6	5.8	60
40	Tunable "nano-shearing": a physical mechanism to displace nonspecific cell adhesion during rare cell detection. <i>Analytical Chemistry</i> , 2014 , 86, 2042-9	7.8	18
39	eMethylsorb: rapid quantification of DNA methylation in cancer cells on screen-printed gold electrodes. <i>Analyst</i> , 2014 , 139, 6178-84	5	45
38	Methylsorb: a simple method for quantifying DNA methylation using DNA-gold affinity interactions. <i>Analytical Chemistry</i> , 2014 , 86, 10179-85	7.8	48
37	Duplex microfluidic SERS detection of pathogen antigens with nanoyeast single-chain variable fragments. <i>Analytical Chemistry</i> , 2014 , 86, 9930-8	7.8	55

36	Electrochemical detection of glycan and protein epitopes of glycoproteins in serum. <i>Analyst, The</i> , 2014 , 139, 5970-6	5	10
35	Microdevices for detecting locus-specific DNA methylation at CpG resolution. <i>Biosensors and Bioelectronics</i> , 2014 , 56, 278-85	11.8	39
34	Alternating current electrohydrodynamics induced nanoshearing and fluid micromixing for specific capture of cancer cells. <i>Chemistry - A European Journal</i> , 2014 , 20, 3724-9	4.8	9
33	Detecting exosomes specifically: a multiplexed device based on alternating current electrohydrodynamic induced nanoshearing. <i>Analytical Chemistry</i> , 2014 , 86, 11125-32	7.8	166
32	Methylsorb: A simple method for quantifying DNA methylation using DNA-gold affinity interactions 2014 ,		2
31	Nano-yeast-scFv probes on screen-printed gold electrodes for detection of <i>Entamoeba histolytica</i> antigens in a biological matrix. <i>Biosensors and Bioelectronics</i> , 2014 , 55, 417-22	11.8	29
30	ELCR: a microfabricated device for electrochemical detection of DNA base changes in breast cancer cell lines. <i>Lab on A Chip</i> , 2013 , 13, 4385-91	7.2	16
29	Homogeneous Electron-Transfer Reaction between Electrochemically Generated Ferrocenium Ions and Amine-Containing Compounds. <i>Organometallics</i> , 2013 , 32, 5731-5739	3.8	13
28	Drill and fill lithography for controlled fabrication of 3D platinum electrodes. <i>Sensors and Actuators B: Chemical</i> , 2013 , 185, 543-547	8.5	4
27	Label-free electrochemical detection of an <i>Entamoeba histolytica</i> antigen using cell-free yeast-scFv probes. <i>Chemical Communications</i> , 2013 , 49, 1551-3	5.8	45
26	'Drill and fill' lithography: fabrication of platinum electrodes and their use in label-free immunosensing. <i>RSC Advances</i> , 2013 , 3, 4189	3.7	5
25	Graphene/quantum dot bionanoconjugates as signal amplifiers in stripping voltammetric detection of EpCAM biomarkers. <i>Biosensors and Bioelectronics</i> , 2012 , 35, 251-257	11.8	63
24	eLCR: electrochemical detection of single DNA base changes via ligase chain reaction. <i>Chemical Communications</i> , 2012 , 48, 12014-6	5.8	36
23	Femtomolar detection of a cancer biomarker protein in serum with ultralow background current by anodic stripping voltammetry. <i>Chemical Communications</i> , 2012 ,	5.8	22
22	Attributes of direct current aperiodic and alternating current harmonic components derived from large amplitude Fourier transformed voltammetry under microfluidic control in a channel electrode. <i>Analytical Chemistry</i> , 2012 , 84, 6686-92	7.8	10
21	An electrochemical immunosensor to minimize the nonspecific adsorption and to improve sensitivity of protein assays in human serum. <i>Biosensors and Bioelectronics</i> , 2012 , 38, 132-7	11.8	34
20	Fabrication and characterization of gold nanohole electrode arrays. <i>Sensors and Actuators B: Chemical</i> , 2012 , 173, 491-496	8.5	9
19	Large amplitude Fourier transformed AC voltammetric investigation of the active state electrochemistry of a copper/aqueous base interface and implications for electrocatalysis. <i>Langmuir</i> , 2011 , 27, 10302-11	4	29

18	Application of ionic liquids in electrochemical sensing systems. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 1775-87	11.8	326
17	Nonadditivity of faradaic currents and modification of double layer capacitance in the voltammetry of mixtures of ferrocene and ferrocenium salts in ionic liquids. <i>Analytical Chemistry</i> , 2010 , 82, 1680-91	7.8	29
16	Electrooxidation of $[(\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\text{CO})_2]_2$ as a probe of the nucleophilic properties of ionic liquid anions. <i>Inorganic Chemistry</i> , 2010 , 49, 2502-11	5.1	10
15	Highly selective and sensitive DNA assay based on electrocatalytic oxidation of ferrocene bearing zinc(II)-cyclen complexes with diethylamine. <i>Journal of the American Chemical Society</i> , 2010 , 132, 10053-63	16.4	50
14	Microchip and Capillary Electrophoresis Using Nanoparticles 2010 , 213-253		4
13	A lactate biosensor based on lactate dehydrogenase/nicotinamide adenine dinucleotide (oxidized form) immobilized on a conducting polymer/multiwall carbon nanotube composite film. <i>Analytical Biochemistry</i> , 2009 , 384, 159-65	3.1	108
12	Nonadditivity of Faradaic currents and modification of capacitance currents in the voltammetry of mixtures of ferrocene and the cobaltocenium cation in protic and aprotic ionic liquids. <i>Journal of the American Chemical Society</i> , 2009 , 131, 7976-89	16.4	64
11	Development of extraction and analytical methods of nitrite ion from food samples: microchip electrophoresis with a modified electrode. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 4051-7	5.7	18
10	Electrophoretic analysis of food dyes using a miniaturized microfluidic system. <i>Electrophoresis</i> , 2008 , 29, 1910-7	3.6	47
9	Fabrication of disposable sensors for biomolecule detection using hydrazine electrocatalyst. <i>Analytical Biochemistry</i> , 2008 , 379, 170-5	3.1	27
8	Trace analysis of DNA: preconcentration, separation, and electrochemical detection in microchip electrophoresis using Au nanoparticles. <i>Analytical Chemistry</i> , 2007 , 79, 3724-33	7.8	98
7	An impedimetric immunosensor for the label-free detection of bisphenol A. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 2464-70	11.8	97
6	Hydrazine-catalyzed ultrasensitive detection of DNA and proteins. <i>Analytical Chemistry</i> , 2007 , 79, 6886-908	9.8	73
5	Analysis of polymerase chain reaction amplifications through phosphate detection using an enzyme-based microbiosensor in a microfluidic device. <i>Electrophoresis</i> , 2006 , 27, 2951-9	3.6	20
4	Simultaneous analysis of nitrate and nitrite in a microfluidic device with a Cu-complex-modified electrode. <i>Electrophoresis</i> , 2006 , 27, 4545-54	3.6	45
3	Direct analysis of trace phenolics with a microchip: in-channel sample preconcentration, separation, and electrochemical detection. <i>Analytical Chemistry</i> , 2006 , 78, 6809-17	7.8	57
2	Microchip capillary electrophoresis with a cellulose-DNA-modified screen-printed electrode for the analysis of neurotransmitters. <i>Electrophoresis</i> , 2005 , 26, 3043-52	3.6	33
1	Detection of polymerase chain reaction fragments using a conducting polymer-modified screen-printed electrode in a microfluidic device. <i>Electrophoresis</i> , 2005 , 26, 4656-63	3.6	30

