Arben MerkoÃ§i

List of Publications by Year
in descending order

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327	25,939	5574 82	7950 149
papers	citations	h-index	g-index

343	343	343	25094
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent Trends in Macro-, Micro-, and Nanomaterial-Based Tools and Strategies for Heavy-Metal Detection. Chemical Reviews, 2011, 111, 3433-3458.	47.7	1,184
2	Low-potential stable NADH detection at carbon-nanotube-modified glassy carbon electrodes. Electrochemistry Communications, 2002, 4, 743-746.	4.7	1,055
3	New materials for electrochemical sensing VI: Carbon nanotubes. TrAC - Trends in Analytical Chemistry, 2005, 24, 826-838.	11.4	626
4	Electrochemical Coding Technology for Simultaneous Detection of Multiple DNA Targets. Journal of the American Chemical Society, 2003, 125, 3214-3215.	13.7	620
5	Disposable Sensors in Diagnostics, Food, and Environmental Monitoring. Advanced Materials, 2019, 31, e1806739.	21.0	540
6	Paper-based nanobiosensors for diagnostics. Chemical Society Reviews, 2013, 42, 450-457.	38.1	481
7	Nanoparticle-based lateral flow biosensors. Biosensors and Bioelectronics, 2015, 73, 47-63.	10.1	472
8	Nano/Micromotors in (Bio)chemical Science Applications. Chemical Reviews, 2014, 114, 6285-6322.	47.7	465
9	Nanomaterials for Sensing and Destroying Pesticides. Chemical Reviews, 2012, 112, 5317-5338.	47.7	461
10	Toward Nanotechnology-Enabled Approaches against the COVID-19 Pandemic. ACS Nano, 2020, 14, 6383-6406.	14.6	455
11	Graphene Oxide as an Optical Biosensing Platform. Advanced Materials, 2012, 24, 3298-3308.	21.0	444
12	Superhydrophobic Alkanethiol-Coated Microsubmarines for Effective Removal of Oil. ACS Nano, 2012, 6, 4445-4451.	14.6	371
13	Double-Codified Gold Nanolabels for Enhanced Immunoanalysis. Analytical Chemistry, 2007, 79, 5232-5240.	6.5	354
14	Enhanced Gold Nanoparticle Based ELISA for a Breast Cancer Biomarker. Analytical Chemistry, 2010, 82, 1151-1156.	6.5	345
15	Nanomaterials application in electrochemical detection of heavy metals. Electrochimica Acta, 2012, 84, 49-61.	5.2	321
16	Cancer detection using nanoparticle-based sensors. Chemical Society Reviews, 2012, 41, 2606-2622.	38.1	320
17	Nanocellulose in Sensing and Biosensing. Chemistry of Materials, 2017, 29, 5426-5446.	6.7	308
18	Electrochemical genosensor design: immobilisation of oligonucleotides onto transducer surfaces and detection methods. Biosensors and Bioelectronics, 2000, 15, 291-303.	10.1	302

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19	Nanomaterials for bio-functionalized electrodes: recent trends. Journal of Materials Chemistry B, 2013, 1, 4878.	5.8	302
20	Bacterial Isolation by Lectin-Modified Microengines. Nano Letters, 2012, 12, 396-401.	9.1	300
21	Configurations used in the design of screen-printed enzymatic biosensors. A review. Sensors and Actuators B: Chemical, 2000, 69, 153-163.	7.8	286
22	Nanomaterial-based devices for point-of-care diagnostic applications. Chemical Society Reviews, 2018, 47, 4697-4709.	38.1	276
23	Enhanced lateral flow immunoassay using gold nanoparticles loaded with enzymes. Biosensors and Bioelectronics, 2013, 40, 412-416.	10.1	263
24	Carbon Nanotubes in Analytical Sciences. Mikrochimica Acta, 2006, 152, 157-174.	5.0	245
25	Nanomaterials for Nanotheranostics: Tuning Their Properties According to Disease Needs. ACS Nano, 2020, 14, 2585-2627.	14.6	239
26	Tutorial: design and fabrication of nanoparticle-based lateral-flow immunoassays. Nature Protocols, 2020, 15, 3788-3816.	12.0	235
27	Nanomaterials based biosensors for food analysis applications. Trends in Food Science and Technology, 2011, 22, 625-639.	15.1	216
28	Mobile phone-based biosensing: An emerging â€œdiagnostic and communicationâ€•technology. Biosensors and Bioelectronics, 2017, 92, 549-562.	10.1	214
29	Label-Free Impedimetric Aptasensor for Ochratoxin-A Detection Using Iridium Oxide Nanoparticles. Analytical Chemistry, 2015, 87, 5167-5172.	6.5	208
30	Carbon nanotubes and graphene in analytical sciences. Mikrochimica Acta, 2012, 179, 1-16.	5.0	204
31	Nanopaper as an Optical Sensing Platform. ACS Nano, 2015, 9, 7296-7305.	14.6	204
32	Biosensors for plant pathogen detection. Biosensors and Bioelectronics, 2017, 93, 72-86.	10.1	201
33	Electrochemical Sensing of DNA Using Gold Nanoparticles. Electroanalysis, 2007, 19, 743-753.	2.9	194
34	Paper-based sensors and assays: a success of the engineering design and the convergence of knowledge areas. Lab on A Chip, 2016, 16, 3150-3176.	6.0	192
35	Nanochannels Preparation and Application in Biosensing. ACS Nano, 2012, 6, 7556-7583.	14.6	184
36	Carbon nanotube-epoxy composites for electrochemical sensing. Sensors and Actuators B: Chemical, 2006, 113, 617-622.	7.8	179

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37	Electrochemical stripping detection of DNA hybridization based on cadmium sulfide nanoparticle tags. Electrochemistry Communications, 2002, 4, 722-726.	4.7	166
38	Nanomaterials-based enzyme electrochemical biosensors operating through inhibition for biosensing applications. Biosensors and Bioelectronics, 2017, 89, 886-898.	10.1	165
39	Grapheneâ€Based Biosensors: Going Simple. Advanced Materials, 2017, 29, 1604905.	21.0	163
40	Improving sensitivity of gold nanoparticle-based lateral flow assays by using wax-printed pillars as delay barriers of microfluidics. Lab on A Chip, 2014, 14, 4406-4414.	6.0	160
41	Photoluminescent Lateral-Flow Immunoassay Revealed by Graphene Oxide: Highly Sensitive Paper-Based Pathogen Detection. Analytical Chemistry, 2015, 87, 8573-8577.	6.5	155
42	Enhanced hostâ€“guest electrochemical recognition of dopamine using cyclodextrin in the presence of carbon nanotubes. Carbon, 2008, 46, 898-906.	10.3	146
43	Micromotor-based lab-on-chip immunoassays. Nanoscale, 2013, 5, 1325-1331.	5.6	146
44	â€œElectroactive Beadsâ€• for Ultrasensitive DNA Detection. Langmuir, 2003, 19, 989-991.	3.5	144
45	Electrochemical genosensors for biomedical applications based on gold nanoparticles. Biosensors and Bioelectronics, 2007, 22, 1961-1967.	10.1	143
46	Nanomaterials and lab-on-a-chip technologies. Lab on A Chip, 2012, 12, 1932.	6.0	142
47	Electrochemical detection of Salmonella using gold nanoparticles. Biosensors and Bioelectronics, 2013, 40, 121-126.	10.1	142
48	Molecularly Imprinted Polymer-Decorated Magnetite Nanoparticles for Selective Sulfonamide Detection. Analytical Chemistry, 2016, 88, 3578-3584.	6.5	137
49	A Nanochannel/Nanoparticleâ€Based Filtering and Sensing Platform for Direct Detection of a Cancer Biomarker in Blood. Small, 2011, 7, 675-682.	10.0	136
50	All-Integrated and Highly Sensitive Paper Based Device with Sample Treatment Platform for Cd²⁺ Immunodetection in Drinking/Tap Waters. Analytical Chemistry, 2013, 85, 3532-3538.	6.5	136
51	Magnetically Trigged Direct Electrochemical Detection of DNA Hybridization Using Au67Quantum Dot as Electrical Tracer. Langmuir, 2005, 21, 9625-9629.	3.5	133
52	Nanoparticles-based strategies for DNA, protein and cell sensors. Biosensors and Bioelectronics, 2010, 26, 1164-1177.	10.1	131
53	Immunosensing using nanoparticles. Materials Today, 2010, 13, 24-34.	14.2	131
54	New materials for electrochemical sensing VII. Microfluidic chip platforms. TrAC - Trends in Analytical Chemistry, 2006, 25, 219-235.	11.4	129

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55	Rapid and Efficient Detection of the SARS-CoV-2 Spike Protein Using an Electrochemical Aptamer-Based Sensor. ACS Sensors, 2021, 6, 3093-3101.	7.8	129
56	Micro and nanomotors in diagnostics. Advanced Drug Delivery Reviews, 2015, 95, 104-116.	13.7	125
57	New materials for electrochemical sensing IV. Molecular imprinted polymers. TrAC - Trends in Analytical Chemistry, 2002, 21, 717-725.	11.4	122
58	Enhanced electrochemical detection of heavy metals at heated graphite nanoparticle-based screen-printed electrodes. Journal of Materials Chemistry, 2011, 21, 4326.	6.7	122
59	Graphene Quantum Dots-based Photoluminescent Sensor: A Multifunctional Composite for Pesticide Detection. ACS Applied Materials & Interfaces, 2015, 7, 20272-20279.	8.0	121
60	Bio(Sensing) devices based on ferroceneâ€“functionalized graphene and carbon nanotubes. Carbon, 2016, 108, 481-514.	10.3	118
61	Graphene Oxide as an Optical Biosensing Platform: A Progress Report. Advanced Materials, 2019, 31, e1805043.	21.0	117
62	Graphene-based Janus micromotors for the dynamic removal of pollutants. Journal of Materials Chemistry A, 2016, 4, 3371-3378.	10.3	112
63	Simple paper architecture modifications lead to enhanced sensitivity in nanoparticle based lateral flow immunoassays. Lab on A Chip, 2013, 13, 386-390.	6.0	111
64	High sensitive gold-nanoparticle based lateral flow Immunodevice for Cd2+ detection in drinking waters. Biosensors and Bioelectronics, 2013, 47, 190-198.	10.1	108
65	Micromotor Enhanced Microarray Technology for Protein Detection. Small, 2014, 10, 2542-2548.	10.0	105
66	Electrochemical analysis with nanoparticle-based biosystems. TrAC - Trends in Analytical Chemistry, 2008, 27, 568-584.	11.4	104
67	Simple FÃ¶rster resonance energy transfer evidence for the ultrahigh quantum dot quenching efficiency by graphene oxide compared to other carbon structures. Carbon, 2012, 50, 2987-2993.	10.3	103
68	Electrochemical biosensing with nanoparticles. FEBS Journal, 2007, 274, 310-316.	4.7	102
69	ICP-MS: a powerful technique for quantitative determination of gold nanoparticles without previous dissolving. Journal of Nanoparticle Research, 2009, 11, 2003-2011.	1.9	102
70	Rapid Identification and Quantification of Tumor Cells Using an Electrocatalytic Method Based on Gold Nanoparticles. Analytical Chemistry, 2009, 81, 10268-10274.	6.5	100
71	Deprotonation Mechanism and Acidity Constants in Aqueous Solution of Flavonols: a Combined Experimental and Theoretical Study. Journal of Physical Chemistry B, 2013, 117, 12347-12359.	2.6	99
72	Sensitive and stable monitoring of lead and cadmium in seawater using screen-printed electrode and electrochemical stripping analysis. Analytica Chimica Acta, 2008, 627, 219-224.	5.4	98

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73	Direct voltammetric determination of gold nanoparticles using graphite-epoxy composite electrode. Electrochimica Acta, 2005, 50, 3702-3707.	5.2	97
74	Improvement of the electrochemical detection of catechol by the use of a carbon nanotube based biosensor. Analyst, The, 2009, 134, 60-64.	3.5	97
75	On-chip magneto-immunoassay for Alzheimer's biomarker electrochemical detection by using quantum dots as labels. Biosensors and Bioelectronics, 2014, 54, 279-284.	10.1	97
76	Simple Monitoring of Cancer Cells Using Nanoparticles. Nano Letters, 2012, 12, 4164-4171.	9.1	94
77	Aptamers based electrochemical biosensor for protein detection using carbon nanotubes platforms. Biosensors and Bioelectronics, 2010, 26, 1715-1718.	10.1	92
78	Gold nanoparticle-based electrochemical magnetoimmunosensor for rapid detection of anti-hepatitis B virus antibodies in human serum. Biosensors and Bioelectronics, 2010, 26, 1710-1714.	10.1	89
79	Design, Preparation, and Evaluation of a Fixed-Orientation Antibody/Gold-Nanoparticle Conjugate as an Immunosensing Label. ACS Applied Materials & Interfaces, 2013, 5, 10753-10759.	8.0	89
80	Bismuth nanoparticles for phenolic compounds biosensing application. Biosensors and Bioelectronics, 2013, 40, 57-62.	10.1	89
81	Pesticide determination in tap water and juice samples using disposable amperometric biosensors made using thick-film technology. Analytica Chimica Acta, 2001, 442, 35-44.	5.4	87
82	Nanoparticles for the development of improved (bio)sensing systems. Analytical and Bioanalytical Chemistry, 2011, 399, 1577-1590.	3.7	86
83	Electrochemical detection of plant virus using gold nanoparticle-modified electrodes. Analytica Chimica Acta, 2019, 1046, 123-131.	5.4	86
84	Particle-based detection of DNA hybridization using electrochemical stripping measurements of an iron tracer. Analytica Chimica Acta, 2003, 482, 149-155.	5.4	82
85	Simple On-Plastic/Paper Inkjet-Printed Solid-State Ag/AgCl Pseudoreference Electrode. Analytical Chemistry, 2014, 86, 10531-10534.	6.5	82
86	Application of the wavelet transform coupled with artificial neural networks for quantification purposes in a voltammetric electronic tongue. Sensors and Actuators B: Chemical, 2006, 113, 487-499.	7.8	81
87	Nanochannels for diagnostic of thrombin-related diseases in human blood. Biosensors and Bioelectronics, 2013, 40, 24-31.	10.1	80
88	Highly sensitive and rapid determination of Escherichia coli O157:H7 in minced beef and water using electrocatalytic gold nanoparticle tags. Biosensors and Bioelectronics, 2015, 67, 511-515.	10.1	80
89	Electrochromic Molecular Imprinting Sensor for Visual and Smartphone-Based Detections. Analytical Chemistry, 2018, 90, 5850-5856.	6.5	79
90	New materials for electrochemical sensing V: Nanoparticles for DNA labeling. TrAC - Trends in Analytical Chemistry, 2005, 24, 341-349.	11.4	73

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91	Determination of Toxic Substances Based on Enzyme Inhibition. Part I. Electrochemical Biosensors for the Determination of Pesticides Using Batch Procedures. Critical Reviews in Analytical Chemistry, 2003, 33, 89-126.	3.5	72
92	Microfluidic platform for environmental contaminants sensing and degradation based on boron-doped diamond electrodes. Biosensors and Bioelectronics, 2016, 75, 365-374.	10.1	71
93	Graphene-encapsulated materials: Synthesis, applications and trends. Progress in Materials Science, 2017, 86, 1-24.	32.8	71
94	Eco-friendly electrochemical lab-on-paper for heavy metal detection. Analytical and Bioanalytical Chemistry, 2015, 407, 8445-8449.	3.7	70
95	Alzheimerâ€²s disease biomarkers detection in human samples by efficient capturing through porous magnetic microspheres and labelling with electrocatalytic gold nanoparticles. Biosensors and Bioelectronics, 2015, 67, 162-169.	10.1	70
96	Magnetic Bead/Gold Nanoparticle Double-Labeled Primers for Electrochemical Detection of Isothermal AmplifiedLeishmaniaDNA. Small, 2016, 12, 205-213.	10.0	70
97	Controlling the electrochemical deposition of silver onto gold nanoparticles: Reducing interferences and increasing the sensitivity of magnetoimmuno assays. Biosensors and Bioelectronics, 2009, 24, 2475-2482.	10.1	67
98	Toward an ICPMS-Linked DNA Assay Based on Gold Nanoparticles Immunoconnected through Peptide Sequences. Analytical Chemistry, 2005, 77, 6500-6503.	6.5	66
99	Triple lines gold nanoparticle-based lateral flow assay for enhanced and simultaneous detection of Leishmania DNA and endogenous control. Nano Research, 2015, 8, 3704-3714.	10.4	66
100	Straightforward Immunosensing Platform Based on Graphene Oxideâ€Decorated Nanopaper: A Highly Sensitive and Fast Biosensing Approach. Advanced Functional Materials, 2017, 27, 1702741.	14.9	66
101	New materials for electrochemical sensing III. Beads. TrAC - Trends in Analytical Chemistry, 2001, 20, 102-110.	11.4	65
102	Signal Enhancement in Antibody Microarrays Using Quantum Dots Nanocrystals: Application to Potential Alzheimerâ€™s Disease Biomarker Screening. Analytical Chemistry, 2012, 84, 6821-6827.	6.5	64
103	Bimetallic nanowires as electrocatalysts for nonenzymatic real-time impedancimetric detection of glucose. Chemical Communications, 2012, 48, 1686-1688.	4.1	64
104	Chitin Nanofiber Paper toward Optical (Bio)sensing Applications. ACS Applied Materials & Interfaces, 2020, 12, 15538-15552.	8.0	64
105	An Inkjetâ€Printed Fieldâ€Effect Transistor for Labelâ€Free Biosensing. Advanced Functional Materials, 2014, 24, 6291-6302.	14.9	63
106	In Situ Production of Biofunctionalized Fewâ€Layer Defectâ€Free Microsheets of Graphene. Advanced Functional Materials, 2015, 25, 2771-2779.	14.9	63
107	Nanobiosensors in diagnostics. Nanobiomedicine, 2016, 3, 184954351666357.	5.7	63
108	Paper strip-embedded graphene quantum dots: a screening device with a smartphone readout. Scientific Reports, 2017, 7, 976.	3.3	63

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109	Glucose Biosensor Based on Carbon Nanotube Epoxy Composites. Journal of Nanoscience and Nanotechnology, 2005, 5, 1694-1698.	0.9	62
110	Carbon nanotube detectors for microchip CE: Comparative study of single-wall and multiwall carbon nanotube, and graphite powder films on glassy carbon, gold, and platinum electrode surfaces. Electrophoresis, 2007, 28, 1274-1280.	2.4	62
111	Direct electrochemical stripping detection of cystic-fibrosis-related DNA linked through cadmium sulfide quantum dots. Nanotechnology, 2009, 20, 055101.	2.6	62
112	Nanomaterials Based Electrochemical Sensing Applications for Safety and Security. Electroanalysis, 2012, 24, 459-469.	2.9	62
113	Modulation of population density and size of silver nanoparticles embedded in bacterial cellulose via ammonia exposure: visual detection of volatile compounds in a piece of plasmonic nanopaper. Nanoscale, 2016, 8, 7984-7991.	5.6	62
114	Graphene-based hybrid for enantioselective sensing applications. Biosensors and Bioelectronics, 2017, 87, 410-416.	10.1	62
115	Nanobiomaterials in Electroanalysis. Electroanalysis, 2007, 19, 739-741.	2.9	61
116	Magnetic Nanoparticles Modified with Carbon Nanotubes for Electrocatalytic Magnetoswitchable Biosensing Applications. Advanced Functional Materials, 2011, 21, 255-260.	14.9	61
117	Nanomaterials connected to antibodies and molecularly imprinted polymers as bio/receptors for bio/sensor applications. Applied Materials Today, 2017, 9, 387-401.	4.3	61
118	Graphite-epoxy composites as a new transducing material for electrochemical genosensing. Biosensors and Bioelectronics, 2003, 19, 473-484.	10.1	59
119	Lab-on-a-chip for ultrasensitive detection of carbofuran by enzymatic inhibition with replacement of enzyme using magnetic beads. Lab on A Chip, 2009, 9, 213-218.	6.0	58
120	Ion-Directed Assembly of Gold Nanorods: A Strategy for Mercury Detection. ACS Applied Materials & Interfaces, 2013, 5, 1084-1092.	8.0	58
121	Detection of Circulating Cancer Cells Using Electrocatalytic Gold Nanoparticles. Small, 2012, 8, 3605-3612.	10.0	57
122	Graphene Oxide as a Pathogenâ€Revealing Agent: Sensing with a Digitalâ€Like Response. Angewandte Chemie - International Edition, 2013, 52, 13779-13783.	13.8	56
123	Microchip Capillary Electrophoresis with a Single-Wall Carbon Nanotube/Gold Electrochemical Detector for Determination of Aminophenols and Neurotransmitters. Mikrochimica Acta, 2006, 152, 261-265.	5.0	55
124	Graphene Oxideâ€“Poly(dimethylsiloxane)-Based Lab-on-a-Chip Platform for Heavy-Metals Preconcentration and Electrochemical Detection. ACS Applied Materials & Interfaces, 2017, 9, 44766-44775.	8.0	53
125	Signal enhancement on gold nanoparticle-based lateral flow tests using cellulose nanofibers. Biosensors and Bioelectronics, 2019, 141, 111407.	10.1	53
126	Nano-lantern on paper for smartphone-based ATP detection. Biosensors and Bioelectronics, 2020, 150, 111902.	10.1	53

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127	Sensitive stripping voltammetry of heavy metals by using a composite sensor based on a built-in bismuth precursor. Analyst, The, 2005, 130, 971.	3.5	52
128	Label-free voltammetric immunosensor using a nanoporous membrane based platform. Electrochemistry Communications, 2010, 12, 859-863.	4.7	52
129	Enzyme entrapment by Î²-cyclodextrin electropolymerization onto a carbon nanotubes-modified screen-printed electrode. Biosensors and Bioelectronics, 2010, 26, 1768-1773.	10.1	52
130	Integrated Devices for Nonâ€Invasive Diagnostics. Advanced Functional Materials, 2021, 31, 2010388.	14.9	51
131	Data Compression for a Voltammetric Electronic Tongue Modelled with Artificial Neural Networks. Analytical Letters, 2005, 38, 2189-2206.	1.8	50
132	Ferrocene-functionalized graphene electrode for biosensing applications. Analytica Chimica Acta, 2016, 926, 28-35.	5.4	50
133	Recent advancement in biomedical applications on the surface of two-dimensional materials: from biosensing to tissue engineering. Nanoscale, 2020, 12, 19043-19067.	5.6	50
134	Lab in a Tube: Point-of-Care Detection of Escherichia coli. Analytical Chemistry, 2020, 92, 4209-4216.	6.5	50
135	Rapid electrochemical genosensor assay using a streptavidin carbon-polymer biocomposite electrode. Biosensors and Bioelectronics, 2003, 19, 165-175.	10.1	49
136	Determination of Toxic Substances Based on Enzyme Inhibition. Part II. Electrochemical Biosensors for the Determination of Pesticides Using Flow Systems. Critical Reviews in Analytical Chemistry, 2003, 33, 127-143.	3.5	49
137	Resistance to Surfactant and Protein Fouling Effects at Conducting Diamond Electrodes. Electroanalysis, 2005, 17, 305-311.	2.9	49
138	Stripping Voltammetry with Bismuth Modified Graphite-Epoxy Composite Electrodes. Electroanalysis, 2005, 17, 881-886.	2.9	49
139	Lab-in-a-syringe using gold nanoparticles for rapid immunosensing of protein biomarkers. Lab on A Chip, 2015, 15, 399-405.	6.0	48
140	Use of Sequential Injection Analysis to construct a potentiometric electronic tongue: Application to the multidetermination of heavy metals. Sensors and Actuators B: Chemical, 2010, 146, 420-426.	7.8	47
141	Rapid and highly sensitive detection of mercury ions using a fluorescence-based paper test strip with an N-alkylaminopyrazole ligand as a receptor. Journal of Materials Chemistry, 2012, 22, 5978.	6.7	47
142	Design and Fabrication of Printed Paperâ€Based Hybrid Microâ€Supercapacitor by using Graphene and Redoxâ€Active Electrolyte. ChemSusChem, 2018, 11, 1849-1856.	6.8	46
143	Iridium oxide nanoparticle induced dual catalytic/inhibition based detection of phenol and pesticide compounds. Journal of Materials Chemistry B, 2014, 2, 2233-2239.	5.8	45
144	Nanochannel array device operating through Prussian blue nanoparticles for sensitive label-free immunodetection of a cancer biomarker. Biosensors and Bioelectronics, 2015, 67, 107-114.	10.1	45

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145	Smart Chip for Visual Detection of Bacteria Using the Electrochromic Properties of Polyaniline. Analytical Chemistry, 2019, 91, 14960-14966.	6.5	44
146	Inkjet-printed electrochemically reduced graphene oxide microelectrode as a platform for HT-2 mycotoxin immunoenzymatic biosensing. Biosensors and Bioelectronics, 2020, 156, 112109.	10.1	44
147	Electrochemical detection of proteins using nanoparticles: applications to diagnostics. Expert Opinion on Medical Diagnostics, 2010, 4, 21-37.	1.6	43
148	Electrochemically reduced graphene and iridium oxide nanoparticles for inhibition-based angiotensin-converting enzyme inhibitor detection. Biosensors and Bioelectronics, 2017, 88, 122-129.	10.1	43
149	Experimental Comparison in Sensing Breast Cancer Mutations by Signal ON and Signal OFF Paper-Based Electroanalytical Strips. Analytical Chemistry, 2020, 92, 1674-1679.	6.5	43
150	Lateral flow assay modified with time-delay wax barriers as a sensitivity and signal enhancement strategy. Biosensors and Bioelectronics, 2020, 168, 112559.	10.1	43
151	Metabolomics for personalized medicine: the input of analytical chemistry from biomarker discovery to point-of-care tests. Analytical and Bioanalytical Chemistry, 2022, 414, 759-789.	3.7	43
152	A biosensor based on graphite epoxy composite electrode for aspartame and ethanol detection. Analytica Chimica Acta, 2006, 570, 165-169.	5.4	42
153	Electrocatalytic tuning of biosensing response through electrostatic or hydrophobic enzymeâ€“graphene oxide interactions. Biosensors and Bioelectronics, 2014, 61, 655-662.	10.1	42
154	High-performance sensor based on copper oxide nanoparticles for dual detection of phenolic compounds and a pesticide. Electrochemistry Communications, 2016, 71, 33-37.	4.7	42
155	Nanochannels for electrical biosensing. TrAC - Trends in Analytical Chemistry, 2016, 79, 134-150.	11.4	42
156	Carbon Nanotube Composite as Novel Platform for Microbial Biosensor. Electroanalysis, 2007, 19, 893-898.	2.9	41
157	Analysis of amino acids in complex samples by using voltammetry and multivariate calibration methods. Analytica Chimica Acta, 2004, 507, 247-253.	5.4	40
158	Photoluminescent lateral flow based on non-radiative energy transfer for protein detection in human serum. Biosensors and Bioelectronics, 2018, 100, 208-213.	10.1	40
159	Uranium (VI) detection in groundwater using a gold nanoparticle/paper-based lateral flow device. Scientific Reports, 2018, 8, 16157.	3.3	40
160	Electrochemical quantification of gold nanoparticles based on their catalytic properties toward hydrogen formation: Application in magnetoimmunoassays. Electrochemistry Communications, 2010, 12, 1501-1504.	4.7	39
161	Aminopyrazole-Based Ligand Induces Gold Nanoparticle Formation and Remains Available for Heavy Metal Ions Sensing. A Simple â€œMix and Detectâ€•Approach. Langmuir, 2010, 26, 10165-10170.	3.5	39
162	Antithyroid drug detection using an enzyme cascade blocking in a nanoparticleâ€based labâ€onâ€aâ€chip system. Biosensors and Bioelectronics, 2015, 67, 670-676.	10.1	39

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163	Fully printed one-step biosensing device using graphene/AuNPs composite. Biosensors and Bioelectronics, 2019, 129, 238-244.	10.1	39
164	Classical dotâ€“blot format implemented as an amperometric hybridisation genosensor. Biosensors and Bioelectronics, 2001, 16, 1133-1142.	10.1	38
165	Amino Acid Determination Using Screen-Printed Electrochemical Sensors. Mikrochimica Acta, 2005, 150, 233-238.	5.0	38
166	Surface Characterizations of Mercury-Based Electrodes with the Resulting Micro and Nano Amalgam Wires and Spheres Formations May Reveal Both Gained Sensitivity and Faced Nonstability in Heavy Metal Detection. Journal of Physical Chemistry C, 2010, 114, 9049-9055.	3.1	38
167	Iridium oxide (IV) nanoparticle-based lateral flow immunoassay. Biosensors and Bioelectronics, 2019, 132, 132-135.	10.1	38
168	Graphite-epoxy composite as an alternative material to design mercury free working electrodes for stripping voltammetry. Electrochimica Acta, 2003, 48, 2599-2605.	5.2	37
169	Silver, gold and the corresponding core shell nanoparticles: synthesis and characterization. Journal of Nanoparticle Research, 2008, 10, 97-106.	1.9	37
170	Alzheimer Disease Biomarker Detection Through Electrocatalytic Water Oxidation Induced by Iridium Oxide Nanoparticles. Electroanalysis, 2014, 26, 1287-1294.	2.9	37
171	Magnetic nanoparticle-molecular imprinted polymer: A new impedimetric sensor for tributyltin detection. Electrochemistry Communications, 2017, 82, 6-11.	4.7	37
172	Microorganism-decorated nanocellulose for efficient diuron removal. Chemical Engineering Journal, 2018, 354, 1083-1091.	12.7	37
173	Dot-blot amperometric genosensor for detecting a novel determinant of Î²-lactamase resistance in Staphylococcus aureus. Analyst, The, 2001, 126, 1551-1557.	3.5	36
174	PCR-Genosensor Rapid Test for DetectingSalmonella. Electroanalysis, 2003, 15, 1815-1823.	2.9	36
175	Detection of cadmium sulphide nanoparticles by using screen-printed electrodes and a handheld device. Nanotechnology, 2007, 18, 035502.	2.6	36
176	Bismuth nanoparticles integration into heavy metal electrochemical stripping sensor. Electrophoresis, 2015, 36, 1872-1879.	2.4	35
177	A DNA Aptasensor for Electrochemical Detection of Vascular Endothelial Growth Factor. Journal of Nanoscience and Nanotechnology, 2015, 15, 3411-3416.	0.9	35
178	In Situ Plant Virus Nucleic Acid Isothermal Amplification Detection on Gold Nanoparticle-Modified Electrodes. Analytical Chemistry, 2019, 91, 4790-4796.	6.5	35
179	Thick-film biosensors for pesticides produced by screen-printing of graphiteâ€“epoxy composite and biocomposite pastes. Sensors and Actuators B: Chemical, 2001, 79, 48-57.	7.8	33
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