

Emanuela Andreescu

List of Publications by Citations

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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.

163
papers

6,960
citations

50
h-index

78
g-index

174
ext. papers

7,762
ext. citations

6.1
avg, IF

6.51
L-index

#	Paper	IF	Citations
163	Health Monitoring and Management Using Internet-of-Things (IoT) Sensing with Cloud-Based Processing: Opportunities and Challenges 2015 ,		338
162	Paper bioassay based on ceria nanoparticles as colorimetric probes. <i>Analytical Chemistry</i> , 2011 , 83, 4273-80		287
161	Twenty years research in cholinesterase biosensors: from basic research to practical applications. <i>New Biotechnology</i> , 2006 , 23, 1-15		284
160	Toxicity and developmental defects of different sizes and shape nickel nanoparticles in zebrafish. <i>Environmental Science & Technology</i> , 2009 , 43, 6349-56	10.3	205
159	Neuroprotective mechanisms of cerium oxide nanoparticles in a mouse hippocampal brain slice model of ischemia. <i>Free Radical Biology and Medicine</i> , 2011 , 51, 1155-63	7.8	196
158	Immobilization of acetylcholinesterase on screen-printed electrodes: comparative study between three immobilization methods and applications to the detection of organophosphorus insecticides. <i>Analytica Chimica Acta</i> , 2002 , 464, 171-180	6.6	196
157	Amperometric detection of dopamine in vivo with an enzyme based carbon fiber microbiosensor. <i>Analytical Chemistry</i> , 2010 , 82, 989-96	7.8	188
156	Enzyme-functionalized mesoporous silica for bioanalytical applications. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 393, 543-54	4.4	182
155	Colorimetric paper bioassay for the detection of phenolic compounds. <i>Analytical Chemistry</i> , 2012 , 84, 9729-37	7.8	138
154	Stable enzyme biosensors based on chemically synthesized Au-polypyrrole nanocomposites. <i>Biosensors and Bioelectronics</i> , 2007 , 23, 168-75	11.8	130
153	Portable ceria nanoparticle-based assay for rapid detection of food antioxidants (NanoCerac). <i>Analyst, The</i> , 2013 , 138, 249-62	5	128
152	Review: Recent Developments in Enzyme-Based Biosensors for Biomedical Analysis. <i>Analytical Letters</i> , 2012 , 45, 168-186	2.2	128
151	Enzyme functionalized nanoparticles for electrochemical biosensors: a comparative study with applications for the detection of bisphenol A. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 43-9	11.8	113
150	Chemical and Biological Sensors for Food-Quality Monitoring and Smart Packaging. <i>Foods</i> , 2018 , 7,	4.9	112
149	Portable Nanoparticle-Based Sensors for Food Safety Assessment. <i>Sensors</i> , 2015 , 15, 30736-58	3.8	106
148	Trends and challenges in biochemical sensors for clinical and environmental monitoring. <i>Pure and Applied Chemistry</i> , 2004 , 76, 861-878	2.1	102
147	Nanotechnology-based approaches for food sensing and packaging applications.. <i>RSC Advances</i> , 2020 , 10, 19309-19336	3.7	97

146	Screen-printed electrode based on AChE for the detection of pesticides in presence of organic solvents. <i>Talanta</i> , 2002 , 57, 169-76	6.2	93
145	Graphene based enzymatic bioelectrodes and biofuel cells. <i>Nanoscale</i> , 2015 , 7, 6909-23	7.7	91
144	Biosensors based on modularly designed synthetic peptides for recognition, detection and live/dead differentiation of pathogenic bacteria. <i>Biosensors and Bioelectronics</i> , 2016 , 80, 9-16	11.8	88
143	Glutamate oxidase biosensor based on mixed ceria and titania nanoparticles for the detection of glutamate in hypoxic environments. <i>Biosensors and Bioelectronics</i> , 2014 , 52, 397-402	11.8	85
142	Electroanalytical evaluation of antioxidant activity of cerium oxide nanoparticles by nanoparticle collisions at microelectrodes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16770-3	16.4	79
141	Real-time monitoring of superoxide accumulation and antioxidant activity in a brain slice model using an electrochemical cytochrome c biosensor. <i>Free Radical Biology and Medicine</i> , 2012 , 53, 2240-9	7.8	79
140	Highly sensitive detection of organophosphorus insecticides using magnetic microbeads and genetically engineered acetylcholinesterase. <i>Biosensors and Bioelectronics</i> , 2007 , 23, 506-12	11.8	79
139	Multiarray sensors with pattern recognition for the detection, classification, and differentiation of bacteria at subspecies and strain levels. <i>Analytical Chemistry</i> , 2005 , 77, 7941-9	7.8	78
138	Correlation of analyte structures with biosensor responses using the detection of phenolic estrogens as a model. <i>Analytical Chemistry</i> , 2004 , 76, 552-60	7.8	78
137	Nanoceria particles as catalytic amplifiers for alkaline phosphatase assays. <i>Analytical Chemistry</i> , 2013 , 85, 10028-32	7.8	73
136	Biosensors designed for environmental and food quality control based on screen-printed graphite electrodes with different configurations. <i>Analytical and Bioanalytical Chemistry</i> , 2002 , 374, 25-32	4.4	73
135	AChE biosensor based on zinc oxide sol-gel for the detection of pesticides. <i>Analytica Chimica Acta</i> , 2010 , 661, 195-9	6.6	72
134	A new electrocatalytic mechanism for the oxidation of phenols at platinum electrodes. <i>Electrochemistry Communications</i> , 2003 , 5, 681-688	5.1	66
133	Mixed ceria-based metal oxides biosensor for operation in oxygen restrictive environments. <i>Analytical Chemistry</i> , 2008 , 80, 7266-74	7.8	65
132	Screen-printed electrodes with electropolymerized Meldola Blue as versatile detectors in biosensors. <i>Biosensors and Bioelectronics</i> , 2003 , 18, 781-90	11.8	63
131	Probing phosphatase activity using redox active nanoparticles: a novel colorimetric approach for the detection of enzyme activity. <i>Biosensors and Bioelectronics</i> , 2014 , 56, 334-9	11.8	62
130	Magnetic particle-based hybrid platforms for bioanalytical sensors. <i>Sensors</i> , 2009 , 9, 2976-99	3.8	62
129	JEM Spotlight: Applications of advanced nanomaterials for environmental monitoring. <i>Journal of Environmental Monitoring</i> , 2009 , 11, 27-40		61

128	ssDNA-Functionalized Nanoceria: A Redox-Active Aptaswitch for Biomolecular Recognition. <i>Advanced Healthcare Materials</i> , 2016 , 5, 822-8	10.1	60
127	Studies of the binding and signaling of surface-immobilized periplasmic glucose receptors on gold nanoparticles: a glucose biosensor application. <i>Analytical Biochemistry</i> , 2008 , 375, 282-90	3.1	60
126	Design of PEG-aptamer two piece macromolecules as convenient and integrated sensing platform: application to the label free detection of small size molecules. <i>Biosensors and Bioelectronics</i> , 2013 , 45, 168-73	11.8	58
125	Trends in Flow-based Biosensing Systems for Pesticide Assessment. <i>Sensors</i> , 2006 , 6, 1161-1186	3.8	58
124	Adsorption: an easy and efficient immobilisation of acetylcholinesterase on screen-printed electrodes. <i>Analytica Chimica Acta</i> , 2003 , 481, 209-211	6.6	58
123	Detection and identification of bacteria using antibiotic susceptibility and a multi-array electrochemical sensor with pattern recognition. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 2643-9	11.8	56
122	Evaluation of the oxidase like activity of nanoceria and its application in colorimetric assays. <i>Analytica Chimica Acta</i> , 2015 , 885, 140-7	6.6	55
121	Site-specific immobilization of a (His) ₆ -tagged acetylcholinesterase on nickel nanoparticles for highly sensitive toxicity biosensors. <i>Biosensors and Bioelectronics</i> , 2011 , 30, 43-8	11.8	55
120	Comparative investigation between acetylcholinesterase obtained from commercial sources and genetically modified <i>Drosophila melanogaster</i> : application in amperometric biosensors for methamidophos pesticide detection. <i>Biosensors and Bioelectronics</i> , 2004 , 20, 825-32	11.8	55
119	IMMOBILIZATION OF ENZYMES ON SCREEN-PRINTED SENSORS VIA AN HISTIDINE TAIL. APPLICATION TO THE DETECTION OF PESTICIDES USING MODIFIED CHOLINESTERASE. <i>Analytical Letters</i> , 2001 , 34, 529-540	2.2	55
118	Applications and implications of nanoceria reactivity: measurement tools and environmental impact. <i>Environmental Science: Nano</i> , 2014 , 1, 445-458	7.1	54
117	Detection of organophosphorus insecticides with immobilized acetylcholinesterase - comparative study of two enzyme sensors. <i>Analytical and Bioanalytical Chemistry</i> , 2002 , 374, 39-45	4.4	54
116	Effects of brewing conditions on the antioxidant capacity of twenty-four commercial green tea varieties. <i>Food Chemistry</i> , 2016 , 192, 380-7	8.5	53
115	A generic amplification strategy for electrochemical aptasensors using a non-enzymatic nanoceria tag. <i>Nanoscale</i> , 2015 , 7, 13230-8	7.7	53
114	Redox reactivity of cerium oxide nanoparticles against dopamine. <i>Journal of Colloid and Interface Science</i> , 2014 , 418, 240-5	9.3	50
113	Advances in analytical technologies for environmental protection and public safety. <i>Journal of Environmental Monitoring</i> , 2004 , 6, 513-22		50
112	Autonomous multielectrode system for monitoring the interactions of isoflavonoids with lung cancer cells. <i>Analytical Chemistry</i> , 2004 , 76, 2321-30	7.8	49
111	Comparative evaluation of intestinal nitric oxide in embryonic zebrafish exposed to metal oxide nanoparticles. <i>Small</i> , 2013 , 9, 4250-61	11	48

110	Multifunctional Nanotechnology-Enabled Sensors for Rapid Capture and Detection of Pathogens. <i>Sensors</i> , 2017 , 17,	3.8	48
109	Chitosan coated carbon fiber microelectrode for selective in vivo detection of neurotransmitters in live zebrafish embryos. <i>Analytica Chimica Acta</i> , 2011 , 695, 89-95	6.6	48
108	Electrochemical Studies of Ceria as Electrode Material for Sensing and Biosensing Applications. <i>Journal of the Electrochemical Society</i> , 2008 , 155, F169	3.9	47
107	Biomagnetic glasses: preparation, characterization, and biosensor applications. <i>Langmuir</i> , 2010 , 26, 4320-46	4.6	46
106	Functional nanostructures for enzyme based biosensors: properties, fabrication and applications. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 7178-7203	7.3	46
105	Metal oxide based multisensor array and portable database for field analysis of antioxidants. <i>Sensors and Actuators B: Chemical</i> , 2014 , 193, 552-562	8.5	45
104	Portable Colorimetric Paper-Based Biosensing Device for the Assessment of Bisphenol A in Indoor Dust. <i>Environmental Science & Technology</i> , 2015 , 49, 9889-97	10.3	44
103	Electrochemical quantification of serotonin in the live embryonic zebrafish intestine. <i>Analytical Chemistry</i> , 2010 , 82, 1822-30	7.8	44
102	Nanoporous Sorbents for the Removal and Recovery of Phosphorus from Eutrophic Waters: Sustainability Challenges and Solutions. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 12542-12561	8.3	41
101	Platinum-doped ceria based biosensor for in vitro and in vivo monitoring of lactate during hypoxia. <i>Analytical Chemistry</i> , 2015 , 87, 2996-3003	7.8	40
100	Multifunctional biomagnetic capsules for easy removal of phenol and bisphenol A. <i>Water Research</i> , 2010 , 44, 1961-9	12.5	39
99	CeO ₂ /MO _x (M: Zr, Ti, Cu) mixed metal oxides with enhanced oxygen storage capacity. <i>Journal of Materials Science</i> , 2015 , 50, 3750-3762	4.3	34
98	Effect of cerium oxide nanoparticles on intestinal serotonin in zebrafish. <i>RSC Advances</i> , 2013 , 3, 15298-15309	3.7	34
97	Biomolecular detection at ssDNA-conjugated nanoparticles by nano-impact electrochemistry. <i>Biosensors and Bioelectronics</i> , 2017 , 87, 501-507	11.8	34
96	Loss of ascl1a prevents secretory cell differentiation within the zebrafish intestinal epithelium resulting in a loss of distal intestinal motility. <i>Developmental Biology</i> , 2013 , 376, 171-86	3.1	33
95	Advanced electrochemical sensors for cell cancer monitoring. <i>Methods</i> , 2005 , 37, 84-93	4.6	32
94	A single use electrochemical sensor based on biomimetic nanoceria for the detection of wine antioxidants. <i>Talanta</i> , 2016 , 156-157, 112-118	6.2	32
93	Effect of natural and synthetic estrogens on a549 lung cancer cells: correlation of chemical structures with cytotoxic effects. <i>Chemical Research in Toxicology</i> , 2005 , 18, 466-74	4	31

92	An acetylcholinesterase (AChE) biosensor with enhanced solvent resistance based on chitosan for the detection of pesticides. <i>Talanta</i> , 2016 , 146, 279-84	6.2	30
91	Europium-Doped Cerium Oxide Nanoparticles Limit Reactive Oxygen Species Formation and Ameliorate Intestinal Ischemia-Reperfusion Injury. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1700176	10.1	30
90	A sensitive electrochemical sensor based on chitosan and electropolymerized Meldola blue for monitoring NO in brain slices. <i>Sensors and Actuators B: Chemical</i> , 2010 , 143, 673-680	8.5	30
89	A Bioanalytical Chemistry Experiment for Undergraduate Students: Biosensors Based on Metal Nanoparticles. <i>Journal of Chemical Education</i> , 2007 , 84, 1180	2.4	30
88	Biomedical Applications of Metal Oxide Nanoparticles 2012 , 57-100		29
87	Ultrafast Removal of Phosphate from Eutrophic Waters Using a Cerium-Based Metal-Organic Framework. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 52788-52796	9.5	29
86	Electrochemical methods for nanotoxicity assessment. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 59, 112-120	14.6	28
85	MXenes-Based Bioanalytical Sensors: Design, Characterization, and Applications. <i>Sensors</i> , 2020 , 20,	3.8	28
84	DNA assay based on Nanoceria as Fluorescence Quenchers (NanoCeracQ DNA assay). <i>Scientific Reports</i> , 2018 , 8, 2426	4.9	27
83	Nanoparticle-Based Technologies for the Detection of Food Antioxidants. <i>Current Analytical Chemistry</i> , 2012 , 8, 495-505	1.7	25
82	Adsorption of Arsenic by Iron Oxide Nanoparticles: A Versatile, Inquiry-Based Laboratory for a High School or College Science Course. <i>Journal of Chemical Education</i> , 2011 , 88, 1119-1122	2.4	24
81	Affinity Methods to Immobilize Acetylcholinesterases for Manufacturing Biosensors. <i>Analytical Letters</i> , 2004 , 37, 1571-1588	2.2	24
80	Easy-to-Use Sensors for Field Monitoring of Copper Contamination in Water and Pesticide-Sprayed Plants. <i>Analytical Chemistry</i> , 2019 , 91, 13892-13899	7.8	23
79	RECENT DEVELOPMENTS IN ELECTROCHEMICAL SENSORS FOR THE DETECTION OF NEUROTRANSMITTERS FOR APPLICATIONS IN BIOMEDICINE. <i>Analytical Letters</i> , 2015 , 48, 1044-1069	2.2	22
78	Lethality of MalE-LacZ hybrid protein shares mechanistic attributes with oxidative component of antibiotic lethality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 9164-9169	11.5	22
77	Development of Highly Sensitive Sensor Based on Bioengineered Acetylcholinesterase Immobilized by Affinity Method. <i>Analytical Letters</i> , 2003 , 36, 1865-1885	2.2	22
76	Alterations of intestinal serotonin following nanoparticle exposure in embryonic zebrafish. <i>Environmental Science: Nano</i> , 2014 , 2014, 27-36	7.1	21
75	Strategies for developing NADH detectors based on Meldola Blue and screen-printed electrodes: a comparative study. <i>Talanta</i> , 2003 , 59, 751-65	6.2	21

74	Cerium oxide-based hypoxanthine biosensor for Fish spoilage monitoring. <i>Sensors and Actuators B: Chemical</i> , 2021 , 332, 129435	8.5	21
73	Developmental toxicity of glycine-coated silica nanoparticles in embryonic zebrafish. <i>Environmental Pollution</i> , 2017 , 229, 439-447	9.3	20
72	Artificial Nanoparticle Antioxidants. <i>ACS Symposium Series</i> , 2011 , 235-253	0.4	20
71	Real-time investigation of antibiotics-induced oxidative stress and superoxide release in bacteria using an electrochemical biosensor. <i>Free Radical Biology and Medicine</i> , 2016 , 91, 25-33	7.8	19
70	Eu-Doped Ceria Nanocrystals as Nanoenzyme Fluorescent Probes for Biosensing. <i>ACS Applied Nano Materials</i> , 2018 , 1, 5722-5735	5.6	18
69	Reactivity of nanoceria particles exposed to biologically relevant catechol-containing molecules. <i>RSC Advances</i> , 2016 , 6, 60007-60014	3.7	17
68	Electroanalytic Aspects of Single-Entity Collision Methods for Bioanalytical and Environmental Applications. <i>ChemElectroChem</i> , 2018 , 5, 2920-2936	4.3	17
67	Single-Particle Investigation of Environmental Redox Processes of Arsenic on Cerium Oxide Nanoparticles by Collision Electrochemistry. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 24725-24734	9.5	16
66	Paper-Based Enzyme Biosensor for One-Step Detection of Hypoxanthine in Fresh and Degraded Fish. <i>ACS Sensors</i> , 2020 , 5, 4092-4100	9.2	16
65	Engineered Pt-Doped Nanoceria for Oxidase-Based Bioelectrodes Operating in Oxygen-Deficient Environments. <i>ChemElectroChem</i> , 2014 , 1, 2082-2088	4.3	16
64	Nanostructured materials for enzyme immobilization and biosensors 2008 , 355-394		15
63	Chapter 7 New materials for biosensors, biochips and molecular bioelectronics. <i>Comprehensive Analytical Chemistry</i> , 2005 , 285-327	1.9	15
62	Real time electrochemical investigation of the release, distribution and modulation of nitric oxide in the intestine of individual zebrafish embryos. <i>Nitric Oxide - Biology and Chemistry</i> , 2018 , 74, 32-38	5	14
61	Functional Paper-Based Platform for Rapid Capture and Detection of CeO Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 12893-12905	9.5	12
60	Differential lethal and sublethal effects in embryonic zebrafish exposed to different sizes of silver nanoparticles. <i>Environmental Pollution</i> , 2019 , 248, 627-634	9.3	12
59	Visualization of Health Monitoring Data Acquired from Distributed Sensors for Multiple Patients 2015 ,		12
58	Effect of benzotriazole derivatives on the corrosion of steel in simulated concrete pore solutions. <i>Anti-Corrosion Methods and Materials</i> , 2007 , 54, 135-147	0.8	12
57	Cerium Oxide Nanoparticles Stabilized within Metal-Organic Frameworks for the Degradation of Nerve Agents. <i>ACS Applied Nano Materials</i> , 2020 , 3, 3288-3294	5.6	11

56	Magnetic Particles-Based Analytical Platforms for Food Safety Monitoring. <i>Magnetochemistry</i> , 2019 , 5, 63	3.1	11
55	Online-monitoring of biofilm formation using nanostructured electrode surfaces. <i>Materials Science and Engineering C</i> , 2019 , 100, 178-185	8.3	10
54	Oxidative stress and antibiotic resistance in bacterial pathogens: state of the art, methodologies, and future trends. <i>Advances in Experimental Medicine and Biology</i> , 2014 , 806, 483-98	3.6	10
53	Electrochemical Investigation of pH-Dependent Activity of Polyethylenimine-Capped Silver Nanoparticles. <i>ChemElectroChem</i> , 2017 , 4, 2801-2806	4.3	10
52	Existence and reactivity of three forms of orthophthalaldehyde in aqueous solutions. Polarographic, voltammetric, and spectrophotometric study. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 4658-70	2.8	10
51	Collision-Based Electrochemical Detection of Lysozyme Aggregation. <i>Analytical Chemistry</i> , 2021 , 93, 2026-2037	7.8	10
50	Nanomaterial-Functionalized Cellulose: Design, Characterization and Analytical Applications. <i>Analytical Sciences</i> , 2018 , 34, 19-31	1.7	10
49	Development of a Xanthine Oxidase Modified Amperometric Electrode for the Determination of the Antioxidant Capacity. <i>Electroanalysis</i> , 2010 , 22, 2429-2433	3	9
48	Affinity Immobilization of Tagged Enzymes. <i>Methods in Biotechnology</i> , 2006 , 97-106		9
47	3D Printed Hydrogel-Based Sensors for Quantifying UV Exposure. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 43911-43920	9.5	9
46	Highly sensitive mercury detection using electroactive gold-decorated polymer nanofibers. <i>Sensors and Actuators B: Chemical</i> , 2021 , 329, 129267	8.5	9
45	Nanotoxicity Assessment Using Embryonic Zebrafish. <i>Methods in Molecular Biology</i> , 2019 , 1894, 331-343	1.4	8
44	Recyclable Adsorbents Based on Ceria Nanostructures on Mesoporous Silica Beads for the Removal and Recovery of Phosphate from Eutrophic Waters. <i>ACS Applied Nano Materials</i> , 2019 , 2, 7008-7018	5.6	7
43	Integration of Nanoparticle-Based Paper Sensors into the Classroom: An Example of Application for Rapid Colorimetric Analysis of Antioxidants. <i>Journal of Chemical Education</i> , 2015 , 92, 886-891	2.4	7
42	Ceria nanoparticle theranostics: harnessing antioxidant properties in biomedicine and beyond. <i>JPhys Materials</i> , 2021 , 4, 042003	4.2	7
41	Portable Enzyme-Paper Biosensors Based on Redox-Active CeO ₂ Nanoparticles. <i>Methods in Enzymology</i> , 2016 , 571, 177-95	1.7	7
40	Easy-to-use and inexpensive sensors for assessing the quality and traceability of cosmetic antioxidants. <i>Talanta</i> , 2020 , 208, 120473	6.2	7
39	3D-Printable Nanocellulose-Based Functional Materials: Fundamentals and Applications. <i>Nanomaterials</i> , 2021 , 11,	5.4	7

38	Microbial Electrochemical Systems: Principles, Construction and Biosensing Applications. <i>Sensors</i> , 2021 , 21,	3.8	6
37	Rapid characterization of arsenic adsorption on single magnetite nanoparticles by collisions at microelectrodes. <i>Environmental Science: Nano</i> , 2020 , 7, 1999-2009	7.1	5
36	Methodologies for Toxicity Monitoring and Nanotechnology Risk Assessment. <i>ACS Symposium Series</i> , 2011 , 141-180	0.4	5
35	Conceptualizing a Real-Time Remote Cardiac Health Monitoring System. <i>Advances in Wireless Technologies and Telecommunication Book Series</i> , 1-34	0.2	5
34	Two-Dimensional Nanostructures for Electrochemical Biosensor. <i>Sensors</i> , 2021 , 21,	3.8	5
33	Electrochemical Biosensors for Real-Time Monitoring of Reactive Oxygen and Nitrogen Species. <i>ACS Symposium Series</i> , 2015 , 301-327	0.4	4
32	Portable nanoparticle based sensors for antioxidant analysis. <i>Methods in Molecular Biology</i> , 2015 , 1208, 221-31	1.4	4
31	Addressing the Selectivity of Enzyme Biosensors: Solutions and Perspectives. <i>Sensors</i> , 2021 , 21,	3.8	4
30	Interaction, transformation and toxicity assessment of particles and additives used in the semiconducting industry. <i>Chemosphere</i> , 2018 , 192, 178-185	8.4	4
29	Oxidative Stress and Human Health. <i>ACS Symposium Series</i> , 2015 , 1-33	0.4	3
28	Detection and prediction of concentrations of neurotransmitters using voltammetry and pattern recognition. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 3493-6	0.9	3
27	Advances in electrochemical detection methods for measuring contaminants of emerging concerns. <i>Electrochemical Science Advances</i> ,		3
26	Multiarray Biosensors for Toxicity Monitoring and Bacterial Pathogens. <i>Optical Science and Engineering</i> , 2006 , 521-538		3
25	Conceptualizing a Real-Time Remote Cardiac Health Monitoring System 2017 , 160-193		3
24	Electrochemical sensors for oxidative stress monitoring. <i>Current Opinion in Electrochemistry</i> , 2021 , 29, 100809	7.2	3
23	Quantitative assay for the detection, screening and reactivity evaluation of nanoceria particles. <i>Talanta</i> , 2017 , 164, 668-676	6.2	2
22	Bioapplications of Electrochemical Sensors and Biosensors. <i>Methods in Enzymology</i> , 2017 , 589, 301-350	1.7	2
21	CeO ₂ -Assisted Biocatalytic Nanostructures for Laccase-Based Biocathodes and Biofuel Cells. <i>Journal of the Electrochemical Society</i> , 2017 , 164, G92-G98	3.9	2

20	Printed paper-based (bio)sensors: Design, fabrication and applications. <i>Comprehensive Analytical Chemistry</i> , 2020 , 89, 63-89	1.9	2
19	Cerium oxide nanoparticles for chemical and biological sensors: Properties, sensing designs, and applications 2020 , 259-277		2
18	Morphology controlled NiO nanostructures as fluorescent quenchers for highly sensitive aptamer-based FRET detection of ochratoxin A. <i>Applied Surface Science</i> , 2021 , 566, 150647	6.7	2
17	Advances in electrochemical detection for probing protein aggregation. <i>Current Opinion in Electrochemistry</i> , 2021 , 30, 100820	7.2	2
16	Response to Enzyme-Linked Biosensors: Michaelis-Menten Kinetics Need Not Apply. <i>Journal of Chemical Education</i> , 2010 , 87, 907-907	2.4	1
15	P-133 YI Real-Time Monitoring of Reactive Oxygen Species in Intestine During Ischemia-Reperfusion Induced Injury and Infectious Colitis Using Electrochemical Biosensors. <i>Inflammatory Bowel Diseases</i> , 2016 , 22, S50-S51	4.5	1
14	Biomolecular Recognition: ssDNA-Functionalized Nanoceria: A Redox-Active Aptaswitch for Biomolecular Recognition (Adv. Healthcare Mater. 7/2016). <i>Advanced Healthcare Materials</i> , 2016 , 5, 864-864	10.1	1
13	A 3D-Printed Breath Analyzer Incorporating CeO ₂ Nanoparticles for Colorimetric Enzyme-Based Ethanol Sensing. <i>ACS Applied Nano Materials</i> , 2021 , 4, 9361-9369	5.6	1
12	Nanoparticle Characterization Through Nano-Impact Electrochemistry: Tools and Methodology Development. <i>Methods in Molecular Biology</i> , 2020 , 2118, 327-342	1.4	1
11	Nanoparticle-based amplification for sensitive detection of β -galactosidase activity in fruits. <i>Analytica Chimica Acta</i> , 2021 , 1186, 339129	6.6	0
10	Advances in Biosensing Technology in the Pharmaceutical Industry 2022 , 243-263		0
9	Nanotechnology-enabled approaches for the detection of antioxidants by spectroscopic and electrochemical methods 2017 , 187-207		
8	Biosensors, Toxicity Monitoring 2009 , 1		
7	Europium-Doped Ceria Nanocrystals as Nanozyme Fluorescent Probes for Biosensing. <i>Chemistry Proceedings</i> , 2021 , 5, 53		
6	Mxene-Ceria Nanocomposite for Health Monitoring Sensorssa. <i>ECS Meeting Abstracts</i> , 2021 , MA2021-02, 1598-1598		0
5	Monolithic Cerium Oxide Nanoparticles Assembly for Wearable Electronics. <i>ECS Meeting Abstracts</i> , 2021 , MA2021-02, 1582-1582		0
4	Development of a Portable Electrochemical Sensor for the Detection of Perfluoroalkyl Species. <i>ECS Meeting Abstracts</i> , 2021 , MA2021-01, 1494-1494		0
3	Cerium Oxide Nanostructures with Controllable Reactivity for Sensing and Environmental Applications. <i>ECS Meeting Abstracts</i> , 2021 , MA2021-01, 2053-2053		0

2 In Vivo Monitoring of Neurotransmitters in Alive Zebrafish (*Danio rerio*) Embryos. *ECS Meeting Abstracts*, **2021**, MA2021-01, 1459-1459 0

1 Nanoceria surface: the most sensitive redox-triggered one step nano-amplifier for fluorescence signal of ochratoxin A. *Journal of Nanostructure in Chemistry*,1 7.6