

# Nicole Jaffrezic-Renault

## List of Publications by Year in descending order

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333  
papers

10,726  
citations

24978

57  
h-index

54797

84  
g-index

341  
all docs

341  
docs citations

341  
times ranked

11436  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Plasmon Resonance (SPR) Biosensors in Pharmaceutical Analysis. <i>Critical Reviews in Analytical Chemistry</i> , 2015, 45, 97-105.	1.8	262
2	Electrochemical biosensors for fast detection of food contaminants – trends and perspective. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 80-87.	5.8	248
3	Label-Free Detection of Bacteria by Electrochemical Impedance Spectroscopy: A Comparison to Surface Plasmon Resonance. <i>Analytical Chemistry</i> , 2007, 79, 4879-4886.	3.2	215
4	Conductometric Microbiosensors for Environmental Monitoring. <i>Sensors</i> , 2008, 8, 2569-2588.	2.1	189
5	Production and characterization of a bioflocculant by <i>Proteus mirabilis</i> TJ-1. <i>Bioresource Technology</i> , 2008, 99, 6520-6527.	4.8	178
6	Advanced biosensors for detection of pathogens related to livestock and poultry. <i>Veterinary Research</i> , 2017, 48, 11.	1.1	173
7	Direct detection of immunospecies by capacitance measurements. <i>Analytical Chemistry</i> , 1988, 60, 2374-2379.	3.2	163
8	A glucose biosensor based on enzyme entrapment within polypyrrole films electrodeposited on mesoporous titanium dioxide. <i>Journal of Electroanalytical Chemistry</i> , 1999, 469, 176-181.	1.9	147
9	New Trends in Biosensors for Organophosphorus Pesticides. <i>Sensors</i> , 2001, 1, 60-74.	2.1	130
10	Cell-based electrochemical biosensors for water quality assessment. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 947-964.	1.9	130
11	Study of the effect of deposited platinum particles on the surface charge of titania aqueous suspensions by potentiometry, electrophoresis, and labeled-ion adsorption. <i>The Journal of Physical Chemistry</i> , 1986, 90, 2733-2738.	2.9	119
12	The effects of polarization of the incident light-modeling and analysis of a SPR multimode optical fiber sensor. <i>Sensors and Actuators A: Physical</i> , 2000, 84, 198-204.	2.0	118
13	Metal and metal oxide nanoparticles in the voltammetric detection of heavy metals: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 131, 116014.	5.8	118
14	Enzyme biosensors based on ion-selective field-effect transistors. <i>Analytica Chimica Acta</i> , 2006, 568, 248-258.	2.6	117
15	Physicochemical properties and photocatalytic activities of TiO <sub>2</sub> -films prepared by sol-gel methods. <i>Applied Catalysis B: Environmental</i> , 2002, 39, 331-342.	10.8	116
16	Biosensors and Bio-Bar Code Assays Based on Biofunctionalized Magnetic Microbeads. <i>Sensors</i> , 2007, 7, 589-614.	2.1	115
17	Recent Advances in Electrospun Nanofiber Interfaces for Biosensing Devices. <i>Sensors</i> , 2017, 17, 1887.	2.1	115
18	Highly sensitive label-free immunosensor for ochratoxin A based on functionalized magnetic nanoparticles and EIS/SPR detection. <i>Sensors and Actuators B: Chemical</i> , 2011, 159, 178-184.	4.0	114

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19	An impedimetric DNA sensor based on functionalized magnetic nanoparticles for HIV and HBV detection. <i>Sensors and Actuators B: Chemical</i> , 2008, 134, 755-760.	4.0	113
20	Development of a novel sensitive molecularly imprinted polymer sensor based on electropolymerization of a microporous-metal-organic framework for tetracycline detection in honey. <i>Food Control</i> , 2016, 59, 424-429.	2.8	113
21	Highly sensitive electrochemical biosensor for bisphenol A detection based on a diazonium-functionalized boron-doped diamond electrode modified with a multi-walled carbon nanotube-tyrosinase hybrid film. <i>Biosensors and Bioelectronics</i> , 2015, 74, 830-835.	5.3	110
22	Immobilization of rhodopsin on a self-assembled multilayer and its specific detection by electrochemical impedance spectroscopy. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1393-1402.	5.3	102
23	Surface free energy and bacterial retention to saliva-coated dental implant materials—an in vitro study. <i>Colloids and Surfaces B: Biointerfaces</i> , 2004, 39, 199-205.	2.5	97
24	Potato glycoalkaloids: true safety or false sense of security?. <i>Trends in Biotechnology</i> , 2004, 22, 147-151.	4.9	95
25	A novel detection strategy for odorant molecules based on controlled bioengineering of rat olfactory receptor 17. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1550-1555.	5.3	95
26	Biosensors for Alzheimer's disease biomarker detection: A review. <i>Biochimie</i> , 2018, 147, 13-24.	1.3	95
27	In Vivo Brain Glucose Measurements: A Differential Normal Pulse Voltammetry with Enzyme-Modified Carbon Fiber Microelectrodes. <i>Analytical Chemistry</i> , 1996, 68, 4358-4364.	3.2	89
28	Electrochemical impedance probing of DNA hybridisation on oligonucleotide-functionalised polypyrrole. <i>Talanta</i> , 2005, 68, 131-137.	2.9	87
29	A miniaturized urea sensor based on the integration of both ammonium based urea enzyme field effect transistor and a reference field effect transistor in a single chip. <i>Talanta</i> , 1999, 50, 219-226.	2.9	86
30	Gold nanoparticles assembly on electrospun poly(vinyl alcohol)/poly(ethyleneimine)/glucose oxidase nanofibers for ultrasensitive electrochemical glucose biosensing. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 392-401.	4.0	86
31	A novel biosensor based on hafnium oxide: Application for early stage detection of human interleukin-10. <i>Sensors and Actuators B: Chemical</i> , 2012, 175, 201-207.	4.0	85
32	Anodic Stripping Voltammetry of Heavy Metals at Nanocrystalline Boron-Doped Diamond Electrode. <i>Electroanalysis</i> , 2007, 19, 1152-1159.	1.5	84
33	Impedimetric immunosensor for the specific label free detection of ciprofloxacin antibiotic. <i>Biosensors and Bioelectronics</i> , 2007, 23, 549-555.	5.3	84
34	Conductometric tyrosinase biosensor for the detection of diuron, atrazine and its main metabolites. <i>Talanta</i> , 2004, 63, 365-370.	2.9	83
35	An Electrochemical Immunosensor for Detection of Staphylococcus aureus Bacteria Based on Immobilization of Antibodies on Self-Assembled Monolayers-Functionalized Gold Electrode. <i>Biosensors</i> , 2012, 2, 417-426.	2.3	83
36	A novel biosorbent for dye removal: Extracellular polymeric substance (EPS) of <i>Proteus mirabilis</i> TJ-1. <i>Journal of Hazardous Materials</i> , 2009, 163, 279-284.	6.5	80

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37	1,3,5-Trinitrotoluene detection by a molecularly imprinted polymer sensor based on electropolymerization of a microporous-metal-organic framework. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 960-966.	4.0	80
38	Creatinine sensitive biosensor based on ISFETs and creatinine deiminase immobilised in BSA membrane. <i>Talanta</i> , 2002, 58, 351-357.	2.9	79
39	Electrochemical sensors based on molecularly imprinted chitosan: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 130, 115982.	5.8	79
40	Characterization and study of a single-TiO <sub>2</sub> -coated optical fiber reactor. <i>Applied Catalysis B: Environmental</i> , 2004, 52, 213-223.	10.8	76
41	Biosensors based on enzyme field-effect transistors for determination of some substrates and inhibitors. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 377, 496-506.	1.9	75
42	Gold Surface Functionalization and Patterning for Specific Immobilization of Olfactory Receptors Carried by Nanosomes. <i>Analytical Chemistry</i> , 2007, 79, 3280-3290.	3.2	74
43	A novel electrochemical aptamer-antibody sandwich assay for the detection of tau-381 in human serum. <i>Analyst</i> , 2018, 143, 3549-3554.	1.7	73
44	Advancements in electrochemical biosensing for respiratory virus detection: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 139, 116253.	5.8	73
45	Conductometric formaldehyde sensitive biosensor with specifically adapted analytical characteristics. <i>Analytica Chimica Acta</i> , 2001, 445, 47-55.	2.6	70
46	Biomaterial surface properties modulate in vitro rat calvaria osteoblasts response: Roughness and or chemistry?. <i>Materials Science and Engineering C</i> , 2008, 28, 990-1001.	3.8	70
47	Anticancer drug detection using a highly sensitive molecularly imprinted electrochemical sensor based on an electropolymerized microporous metal organic framework. <i>Talanta</i> , 2015, 138, 71-76.	2.9	69
48	In Vivo Voltammetric Detection of Rat Brain Lactate with Carbon Fiber Microelectrodes Coated with Lactate Oxidase. <i>Analytical Chemistry</i> , 1998, 70, 2618-2622.	3.2	68
49	Molecularly imprinted polymers (MIP) based electrochemical sensor for detection of urea and creatinine. <i>Procedia Engineering</i> , 2010, 5, 371-374.	1.2	64
50	Molecularly imprinted polymer-based electrochemical sensor for the sensitive detection of glyphosate herbicide. <i>International Journal of Environmental Analytical Chemistry</i> , 2015, 95, 1489-1501.	1.8	64
51	Fibroblast Cells: A Sensing Bioelement for Glucose Detection by Impedance Spectroscopy. <i>Analytical Chemistry</i> , 2003, 75, 3340-3344.	3.2	62
52	Label-free impedimetric immunosensor for sensitive detection of atrazine. <i>Electrochimica Acta</i> , 2010, 55, 6228-6232.	2.6	62
53	Electrochemical sensors for cortisol detections: Almost there. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 132, 116058.	5.8	62
54	Conductometric biosensors based on cholinesterases for sensitive detection of pesticides. <i>Electroanalysis</i> , 1994, 6, 752-758.	1.5	61

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55	A disposable immunomagnetic electrochemical sensor based on functionalised magnetic beads on gold surface for the detection of atrazine. <i>Electrochimica Acta</i> , 2006, 51, 5182-5186.	2.6	60
56	Aflatoxin B1 Detection Using a Highly-Sensitive Molecularly-Imprinted Electrochemical Sensor Based on an Electropolymerized Metal Organic Framework. <i>Toxins</i> , 2015, 7, 3540-3553.	1.5	60
57	Calix[4]arene based molecules for amino-acid detection. <i>Sensors and Actuators B: Chemical</i> , 2007, 124, 38-45.	4.0	59
58	Liquid biopsy of circulating tumor DNA and biosensor applications. <i>Biosensors and Bioelectronics</i> , 2019, 126, 596-607.	5.3	59
59	Malic acid photocatalytic degradation using a TiO <sub>2</sub> -coated optical fiber reactor. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 190, 135-140.	2.0	58
60	Magnetic Nanoparticles: From Synthesis to Theranostic Applications. <i>ACS Applied Nano Materials</i> , 2021, 4, 4284-4306.	2.4	58
61	Conductometric nitrate biosensor based on methyl viologen/Nafion <sup>®</sup> /nitrate reductase interdigitated electrodes. <i>Talanta</i> , 2006, 69, 450-455.	2.9	57
62	Ageing time and brand determination of pasteurized milk using a multisensor e-nose combined with a voltammetric e-tongue. <i>Materials Science and Engineering C</i> , 2014, 45, 348-358.	3.8	57
63	Development and optimisation of biosensors based on pH-sensitive field effect transistors and cholinesterases for sensitive detection of solanaceous glycoalkaloids. <i>Biosensors and Bioelectronics</i> , 2003, 18, 1047-1053.	5.3	55
64	Study of Langmuir and Langmuir-Blodgett Films of Odorant-Binding Protein/Amphiphile for Odorant Biosensors. <i>Langmuir</i> , 2005, 21, 4058-4065.	1.6	55
65	Biosorption of Cu(II) and Pb(II) from aqueous solutions by dried activated sludge. <i>Minerals Engineering</i> , 2006, 19, 968-971.	1.8	55
66	Early-warning electrochemical biosensor system for environmental monitoring based on enzyme inhibition. <i>Sensors and Actuators B: Chemical</i> , 2005, 105, 81-87.	4.0	54
67	Ultra-sensitive conductometric detection of heavy metals based on inhibition of alkaline phosphatase activity from <i>Arthrospira platensis</i> . <i>Bioelectrochemistry</i> , 2013, 90, 24-29.	2.4	54
68	An ultrasensitive aptamer-antibody sandwich cortisol sensor for the noninvasive monitoring of stress state. <i>Biosensors and Bioelectronics</i> , 2021, 190, 113451.	5.3	54
69	Detection of heavy metals by an optical fiber sensor with a sensitive cladding including a new chromogenic calix[4]arene molecule. <i>Materials Science and Engineering C</i> , 2006, 26, 364-368.	3.8	53
70	Electrochemical sensor for the detection of estradiol based on electropolymerized molecularly imprinted polythioaniline film with signal amplification using gold nanoparticles. <i>Electrochemistry Communications</i> , 2015, 59, 36-39.	2.3	53
71	A biosensor based on fungal soil biomass for electrochemical detection of lead (II) and cadmium (II) by differential pulse anodic stripping voltammetry. <i>Journal of Electroanalytical Chemistry</i> , 2018, 813, 9-19.	1.9	53
72	Development of a fiber-optic sensor based on surface plasmon resonance on silver film for monitoring aqueous media. <i>Sensors and Actuators B: Chemical</i> , 2001, 75, 203-209.	4.0	52

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73	Electrochemical impedance spectroscopy determination of glyphosate using a molecularly imprinted chitosan. <i>Sensors and Actuators B: Chemical</i> , 2020, 309, 127753.	4.0	51
74	Amperometric and impedimetric characterization of a glutamate biosensor based on Nafion <sup>®</sup> and a methyl viologen modified glassy carbon electrode. <i>Biosensors and Bioelectronics</i> , 2007, 22, 2682-2688.	5.3	50
75	Effect of electrical conditions on an impedimetric immunosensor based on a modified conducting polypyrrole. <i>Sensors and Actuators B: Chemical</i> , 2010, 144, 323-331.	4.0	50
76	Robust Electrografting on Self-Organized 3D Graphene Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 1424-1433.	4.0	50
77	Impedance analysis of Si/SiO <sub>2</sub> heterostructures grafted with antibodies: an approach for immunosensor development. <i>Journal of Electroanalytical Chemistry</i> , 1996, 406, 53-58.	1.9	48
78	Microconductometric immunosensor for label-free and sensitive detection of Gram-negative bacteria. <i>Biosensors and Bioelectronics</i> , 2014, 54, 378-384.	5.3	48
79	A laponite clay-poly(pyrrole-pyridinium) matrix for the fabrication of conductimetric microbiosensors. <i>Analytica Chimica Acta</i> , 1999, 401, 117-124.	2.6	47
80	Voltammetric glucose biosensor based on glucose oxidase encapsulation in a chitosan-kappa-carrageenan polyelectrolyte complex. <i>Materials Science and Engineering C</i> , 2019, 95, 152-159.	3.8	47
81	Development of a Label-Free Electrochemical Aptasensor for the Detection of Tau381 and its Preliminary Application in AD and Non-AD Patients's <sup>™</sup> Sera. <i>Biosensors</i> , 2019, 9, 84.	2.3	46
82	Highly Sensitive Voltammetric Glucose Biosensor Based on Glucose Oxidase Encapsulated in a Chitosan/Kappa-Carrageenan/Gold Nanoparticle Bionanocomposite. <i>Sensors</i> , 2019, 19, 154.	2.1	46
83	Quantitative determination of zinc in milkvetch by anodic stripping voltammetry with bismuth film electrodes. <i>Talanta</i> , 2005, 65, 1052-1055.	2.9	45
84	Immobilization of specific antibody on SAM functionalized gold electrode for rabies virus detection by electrochemical impedance spectroscopy. <i>Biochemical Engineering Journal</i> , 2008, 39, 443-449.	1.8	45
85	Layered double hydroxide materials coated carbon electrode: New challenge to future electrochemical power devices. <i>Applied Surface Science</i> , 2016, 386, 352-363.	3.1	45
86	A new bacterial biosensor for trichloroethylene detection based on a three-dimensional carbon nanotubes bioarchitecture. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 1083-1092.	1.9	43
87	Electrochemical impedance immunosensor for rapid detection of stressed pathogenic <i>Staphylococcus aureus</i> bacteria. <i>Environmental Science and Pollution Research</i> , 2015, 22, 15796-15803.	2.7	43
88	Innovative electrochemical sensor for the precise determination of the new antiviral COVID-19 treatment Favipiravir in the presence of coadministered drugs. <i>Journal of Electroanalytical Chemistry</i> , 2021, 895, 115422.	1.9	43
89	Conductometric biosensor based on glucose oxidase and beta-galactosidase for specific lactose determination in milk. <i>Materials Science and Engineering C</i> , 2008, 28, 872-875.	3.8	42
90	Electrochemical Boron-Doped Diamond Film Microcells Micromachined with Femtosecond Laser: Application to the Determination of Water Framework Directive Metals. <i>Analytical Chemistry</i> , 2012, 84, 4805-4811.	3.2	42

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91	Potentiometric Biosensors Based on ISFETs and Immobilized Cholinesterases. <i>Electroanalysis</i> , 2004, 16, 1873-1882.	1.5	41
92	Photocatalytic degradation of imidazolinone fungicide in TiO <sub>2</sub> -coated optical fiber reactor. <i>Applied Catalysis B: Environmental</i> , 2006, 62, 274-281.	10.8	41
93	A new concept of olfactory biosensor based on interdigitated microelectrodes and immobilized yeasts expressing the human receptor OR17-40. <i>European Biophysics Journal</i> , 2007, 36, 1015-1018.	1.2	41
94	Delivery system for berberine chloride based on the nanocarrier ZnAl-layered double hydroxide: Physicochemical characterization, release behavior and evaluation of anti-bacterial potential. <i>International Journal of Pharmaceutics</i> , 2016, 515, 422-430.	2.6	41
95	Optimization of a single TiO <sub>2</sub> -coated optical fiber reactor using experimental design. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 168, 161-167.	2.0	38
96	Development of a conductometric phosphate biosensor based on tri-layer maltose phosphorylase composite films. <i>Analytica Chimica Acta</i> , 2008, 615, 73-79.	2.6	38
97	Development of a novel capacitance electrochemical biosensor based on silicon nitride for ochratoxin A detection. <i>Sensors and Actuators B: Chemical</i> , 2016, 234, 446-452.	4.0	38
98	Responsive Polydiacetylene Vesicles for Biosensing Microorganisms. <i>Sensors</i> , 2018, 18, 599.	2.1	38
99	The use of polyethyleneimine for fabrication of potentiometric cholinesterase biosensors. <i>Talanta</i> , 2002, 56, 1015-1020.	2.9	37
100	Immobilization of native membrane-bound rhodopsin on biosensor surfaces. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2005, 1724, 324-332.	1.1	37
101	Recent Trends in Monitoring of European Water Framework Directive Priority Substances Using Micro-Sensors: A 2007-2009 Review. <i>Sensors</i> , 2010, 10, 7947-7978.	2.1	37
102	Brain glucose. <i>NeuroReport</i> , 1997, 8, 1109-1112.	0.6	36
103	Development of a conductometric nitrate biosensor based on Methyl viologen/Nafion® composite film. <i>Electrochemistry Communications</i> , 2006, 8, 201-205.	2.3	36
104	Electrical probing of endothelial cell behaviour on a fibronectin/polystyrene/thiol/gold electrode by Faradaic electrochemical impedance spectroscopy (EIS). <i>Bioelectrochemistry</i> , 2007, 70, 401-407.	2.4	36
105	A novel nitrite biosensor based on conductometric electrode modified with cytochrome c nitrite reductase composite membrane. <i>Biosensors and Bioelectronics</i> , 2009, 24, 1574-1579.	5.3	36
106	An overview of an artificial nose system. <i>Talanta</i> , 2018, 184, 93-102.	2.9	36
107	Physicochemical characterization of covalently bonded alkyl monolayers on silica surfaces. <i>Thin Solid Films</i> , 1990, 185, 169-179.	0.8	35
108	Selective Detection of Dopamine in Presence of Ascorbic Acid by Use of Glassy Carbon Electrode Modified with Amino-β-Cyclodextrin and Carbon Nanotubes. <i>Electroanalysis</i> , 2014, 26, 2747-2753.	1.5	35

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109	Sensitive impedimetric biosensor for direct detection of diazinon based on lipases. <i>Frontiers in Chemistry</i> , 2014, 2, 44.	1.8	35
110	Voltammetric sensor based on electrodeposited molecularly imprinted chitosan film on BDD electrodes for catechol detection in buffer and in wine samples. <i>Materials Science and Engineering C</i> , 2020, 110, 110667.	3.8	35
111	Comparison of two innovatives approaches for bacterial detection: paramagnetic nanoparticles and self-assembled multilayer processes. <i>Mikrochimica Acta</i> , 2008, 163, 157-161.	2.5	34
112	Thermolysin entrapped in a gold nanoparticles/polymer composite for direct and sensitive conductometric biosensing of ochratoxin A in olive oil. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 480-490.	4.0	34
113	Diazonium modified gold microelectrodes onto polyimide substrates for impedimetric cytokine detection with an integrated Ag/AgCl reference electrode. <i>Sensors and Actuators B: Chemical</i> , 2013, 189, 165-172.	4.0	33
114	Removal of two anionic reactive textile dyes by adsorption into MgAl-layered double hydroxide in aqueous solutions. <i>Environmental Science and Pollution Research</i> , 2018, 25, 23817-23832.	2.7	33
115	Detection of Dopamine by a Biomimetic Electrochemical Sensor Based on Polythioaniline-bridged Gold Nanoparticles. <i>ChemPlusChem</i> , 2017, 82, 561-569.	1.3	31
116	Study of mixed Langmuir-Blodgett films of immunoglobulin G/amphiphile and their application for immunosensor engineering. <i>Biosensors and Bioelectronics</i> , 2004, 20, 1126-1133.	5.3	30
117	Analysis of the potato glycoalkaloids by using of enzyme biosensor based on pH-ISFETs. <i>Talanta</i> , 2005, 66, 28-33.	2.9	30
118	Molecularly Imprinted Polymer/Metal Organic Framework Based Chemical Sensors. <i>Coatings</i> , 2016, 6, 42.	1.2	30
119	Direct detection of phenol using a new bacterial strain-based conductometric biosensor. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 478-484.	3.3	29
120	Electroanalysis of some nitro-compounds using bulk bismuth electrode. <i>International Journal of Environmental Analytical Chemistry</i> , 2010, 90, 40-48.	1.8	28
121	Comparative study of conductometric glucose biosensor based on gold and on magnetic nanoparticles. <i>Materials Science and Engineering C</i> , 2013, 33, 298-303.	3.8	28
122	Voltammetric Sensor Based on Molecularly Imprinted Chitosan-Carbon Nanotubes Decorated with Gold Nanoparticles Nanocomposite Deposited on Boron-Doped Diamond Electrodes for Catechol Detection. <i>Materials</i> , 2020, 13, 688.	1.3	28
123	Electrochemical sensing of trimethylamine based on polypyrrole-flavin-containing monooxygenase (FMO3) and ferrocene as redox probe for evaluation of fish freshness. <i>Biosensors and Bioelectronics</i> , 2011, 28, 105-111.	5.3	27
124	One-Step Fabrication of Electrospun Photo-Cross-Linkable Polymer Nanofibers Incorporating Multiwall Carbon Nanotubes and Enzyme for Biosensing. <i>Journal of the Electrochemical Society</i> , 2015, 162, B275-B281.	1.3	27
125	Preparation and optimization of a drug delivery system based on berberine chloride-immobilized MgAl hydroxide. <i>International Journal of Pharmaceutics</i> , 2016, 506, 438-448.	2.6	27
126	A conductometric creatinine biosensor prepared through contact printing of polyvinyl alcohol/polyethyleneimine based enzymatic membrane. <i>Microelectronic Engineering</i> , 2018, 187-188, 43-49.	1.1	27



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127	Development of a label-free electrochemical aptasensor based on diazonium electrodeposition: Application to cadmium detection in water. <i>Analytical Biochemistry</i> , 2021, 612, 113956.	1.1	27
128	Sensitive Immunodetection Through Impedance Measurements onto Gold Functionalized Electrodes. <i>Applied Biochemistry and Biotechnology</i> , 2000, 89, 161-170.	1.4	26
129	Ureaseâ€“gelatin interdigitated microelectrodes for the conductometric determination of protease activity. <i>Biosensors and Bioelectronics</i> , 2008, 24, 489-492.	5.3	26
130	Impedance spectroscopy and conductometric biosensing for probing catalase reaction with cyanide as ligand and inhibitor. <i>Bioelectrochemistry</i> , 2011, 80, 155-161.	2.4	26
131	The Advent of Salivary Breast Cancer Biomarker Detection Using Affinity Sensors. <i>Sensors</i> , 2019, 19, 2373.	2.1	26
132	Surface modification of p-Si by a polyethylenimine coating: influence of the surface pre-treatment. Application to a potentiometric transducer as pH sensor. <i>Electrochimica Acta</i> , 2002, 47, 2597-2602.	2.6	25
133	Evaluation of endothelial cell adherence onto collagen and fibronectin: A comparison between jet impingement and flow chamber techniques. <i>Materials Science and Engineering C</i> , 2006, 26, 260-266.	3.8	25
134	Kinetics of human and horse sera cholinesterases inhibition with solanaceous glycoalkaloids: Study by potentiometric biosensor. <i>Pesticide Biochemistry and Physiology</i> , 2006, 86, 203-210.	1.6	25
135	Stimulation of human olfactory receptor 17-40 with odorants probed by surface plasmon resonance. <i>European Biophysics Journal</i> , 2008, 37, 807-814.	1.2	25
136	Single-layer exfoliated reduced graphene oxide-antibody Tau sensor for detection in human serum. <i>Sensors and Actuators B: Chemical</i> , 2020, 308, 127692.	4.0	25
137	Fiber-optic surface-plasmon resonance for the determination of thickness and optical constants of thin metal films. <i>Applied Optics</i> , 2000, 39, 3261.	2.1	24
138	Application of enzyme field effect transistors for fast detection of total glycoalkaloids content in potatoes. <i>Sensors and Actuators B: Chemical</i> , 2004, 103, 416-422.	4.0	24
139	Evaluation of Endothelial Cell Adhesion onto Different Protein/Gold Electrodes by EIS. <i>Macromolecular Bioscience</i> , 2007, 7, 599-610.	2.1	24
140	Formaldehyde-sensitive conductometric sensors based on commercial and recombinant formaldehyde dehydrogenase. <i>Mikrochimica Acta</i> , 2010, 170, 337-344.	2.5	24
141	A Nitrite Electrochemical Sensor Based on Boronâ€“Doped Diamond Planar Electrochemical Microcells Modified with a Monolacunary Silicotungstate Polyoxoanion. <i>Electroanalysis</i> , 2015, 27, 1359-1367.	1.5	24
142	Electrochemical Determination of Cadmium, Lead, and Nickel Using a Polyphenolâ€“Polyvinyl Chlorideâ€“Boron-Doped Diamond Electrode. <i>Analytical Letters</i> , 2018, 51, 336-347.	1.0	24
143	Development of an ImmunoFET for Analysis of Tumour Necrosis Factor- $\alpha$ in Artificial Saliva: Application for Heart Failure Monitoring. <i>Chemosensors</i> , 2021, 9, 26.	1.8	24
144	Mixed urease/amphiphile LB films and their application for biosensor development. <i>Bioelectrochemistry</i> , 2002, 56, 157-158.	2.4	23

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145	Detection of toxic compounds in real water samples using a conductometric tyrosinase biosensor. <i>Materials Science and Engineering C</i> , 2006, 26, 453-456.	3.8	23
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