Robert S Marks

List of Publications by Year
in descending order

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191 papers	6,029 citations	61977 43 h-index	110368 64 g-index
203 all docs	203 docs citations	203 times ranked	6982 citing authors

#	Article	IF	Citations
1	Colorimetric Detection of Mercury Ions Based on Plasmonic Nanoparticles. Small, 2013, 9, 1467-1481.	10.0	255
2	Recent advances in aptasensors based on graphene and graphene-like nanomaterials. Biosensors and Bioelectronics, 2015, 64, 373-385.	10.1	174
3	Detection of bioavailable heavy metals in EILATox-Oregon samples using whole-cell luminescent bacterial sensors in suspension or immobilized onto fibre-optic tips. Journal of Applied Toxicology, 2004, 24, 333-342.	2.8	131
4	Electrochemical lateral flow immunosensor for detection and quantification of dengue NS1 protein. Biosensors and Bioelectronics, 2016, 77, 400-408.	10.1	122
5	Rapid and label-free electrochemical DNA biosensor for detecting hepatitis A virus. Biosensors and Bioelectronics, 2018, 100, 89-95.	10.1	113
6	Bioluminescent whole cell optical fiber sensor to genotoxicants: system optimization. Sensors and Actuators B: Chemical, 2001, 74, 18-26.	7.8	109
7	Synthesis and Characterization of a Biotin-Alginate Conjugate and Its Application in a Biosensor Constructionâ€. Biomacromolecules, 2004, 5, 389-396.	5.4	104
8	Whole-cell aquatic biosensors. Analytical and Bioanalytical Chemistry, 2011, 400, 895-913.	3.7	102
9	Fibre-optic bacterial biosensors and their application for the analysis of bioavailable Hg and As in soils and sediments from Aznalcollar mining area in Spain. Biosensors and Bioelectronics, 2007, 22, 1396-1402.	10.1	96
10	Synthesis and Characterization of a Pyrroleâ^'Alginate Conjugate and Its Application in a Biosensor Construction. Biomacromolecules, 2005, 6, 3313-3318.	5.4	94
11	Optical Fiber Immunosensor Based on a Poly(pyrroleâ^'benzophenone) Film for the Detection of Antibodies to Viral Antigen. Analytical Chemistry, 2005, 77, 1771-1779.	6.5	92
12	Protease Amperometric Sensor. Analytical Chemistry, 2006, 78, 6327-6331.	6.5	92
13	Lateral Flow Immunoassays â€“ from Paper Strip to Smartphone Technology. Electroanalysis, 2015, 27, 2116-2130.	2.9	89
14	Protein printing with an atomic force sensing nanofountainpen. Applied Physics Letters, 2003, 83, 1041-1043.	3.3	82
15	Thiazole derivative-modified upconversion nanoparticles for Hg²⁺ detection in living cells. Nanoscale, 2016, 8, 276-282.	5.6	82
16	Highly sensitive and specific detection of E. coli by a SERS nanobiosensor chip utilizing metallic nanosculptured thin films. Analyst, The, 2015, 140, 3201-3209.	3.5	80
17	Construction of Amperometric Immunosensors Based on the Electrogeneration of a Permeable Biotinylated Polypyrrole Film. Analytical Chemistry, 2004, 76, 6808-6813.	6.5	79
18	Freestanding HRPâ€“GOx redox buckypaper as an oxygen-reducing biocathode for biofuel cell applications. Energy and Environmental Science, 2015, 8, 2069-2074.	30.8	75

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19	Development of an â€œElectroptodeâ€•Immunosensor:Â Indium Tin Oxide-Coated Optical Fiber Tips Conjugated with an Electropolymerized Thin Film with Conjugated Cholera Toxin B Subunit. Analytical Chemistry, 2003, 75, 2633-2639.	6.5	73
20	Luminescent yeast cells entrapped in hydrogels for estrogenic endocrine disrupting chemical biodetection. Biosensors and Bioelectronics, 2006, 21, 2263-2269.	10.1	73
21	Antibody-based immobilization of bioluminescent bacterial sensor cells. Talanta, 2001, 55, 1029-1038.	5.5	70
22	Surface-enhanced fluorescence from metal sculptured thin films with application to biosensing in water. Applied Physics Letters, 2009, 94, 063106.	3.3	65
23	Coral-associated bacteria, quorum sensing disrupters, and the regulation of biofouling. Biofouling, 2013, 29, 669-682.	2.2	63
24	Amperometric Immunosensor for the Detection of Anti-West Nile Virus IgG. Analytical Chemistry, 2007, 79, 8662-8668.	6.5	62
25	Chemiluminescent optical fiber immunosensor for the detection of IgM antibody to dengue virus in humans. Sensors and Actuators B: Chemical, 2009, 140, 206-215.	7.8	58
26	Flow-through real time bacterial biosensor for toxic compounds in water. Sensors and Actuators B: Chemical, 2009, 142, 11-18.	7.8	57
27	Characterization of Quorum Sensing Signals in Coral-Associated Bacteria. Microbial Ecology, 2011, 61, 783-792.	2.8	57
28	Mediated electrochemical detection of catechol by tyrosinase-based poly(dicarbazole) electrodes. Journal of Proteomics, 2001, 50, 65-77.	2.4	55
29	Glucose determination using a re-usable enzyme-modified ion track membrane sensor. Biosensors and Bioelectronics, 2009, 24, 2702-2706.	10.1	53
30	Chemiluminescent optical fiber immunosensor for detecting cholera antitoxin. Optical Engineering, 1997, 36, 3258.	1.0	51
31	A comparative study of gallstones from children and adults using FTIR spectroscopy and fluorescence microscopy. BMC Gastroenterology, 2002, 2, 3.	2.0	50
32	Creation of a fiber optic based biosensor for air toxicity monitoring. Sensors and Actuators B: Chemical, 2011, 155, 859-867.	7.8	50
33	Bioluminescent bioreporter pad biosensor for monitoring water toxicity. Talanta, 2016, 149, 290-297.	5.5	50
34	The single mode tapered optical fibre loop immunosensor. Biosensors and Bioelectronics, 1996, 11, 137-148.	10.1	48
35	Biotinylated alginate immobilization matrix in the construction of an amperometric biosensor: application for the determination of glucose. Analytica Chimica Acta, 2002, 453, 71-79.	5.4	48
36	MoS2 nanoparticles coupled to SnS2 nanosheets: The structural and electronic modulation for synergetic electrocatalytic hydrogen evolution. Journal of Catalysis, 2018, 366, 8-15.	6.2	48

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37	Photochemical attachment of biomolecules ontoï¬bre-optics for construction of a chemiluminescent immunosensor. Luminescence, 2004, 19, 69-77.	2.9	47
38	Development of a highly sensitive, field operable biosensor for serological studies of Ebola virus in central Africa. Sensors and Actuators B: Chemical, 2007, 122, 578-586.	7.8	47
39	Profile and Persistence of the Virus-Specific Neutralizing Humoral Immune Response in Human Survivors of Sudan Ebolavirus (Gulu). Journal of Infectious Diseases, 2013, 208, 299-309.	4.0	47
40	Cloud-Enabled Microscopy and Droplet Microfluidic Platform for Specific Detection of Escherichia coli in Water. PLoS ONE, 2014, 9, e86341.	2.5	47
41	Bioluminescent Liquid Light Guide Pad Biosensor for Indoor Air Toxicity Monitoring. Analytical Chemistry, 2015, 87, 3655-3661.	6.5	47
42	Chemiluminescent optical fiber immunosensor for detection of autoantibodies to ovarian and breast cancer-associated antigens. Biosensors and Bioelectronics, 2007, 22, 1508-1516.	10.1	46
43	Measuring Artificial Sweeteners Toxicity Using a Bioluminescent Bacterial Panel. Molecules, 2018, 23, 2454.	3.8	46
44	Improved enzyme retention from an electropolymerized polypyrrole-alginate matrix in the development of biosensors. Electrochemistry Communications, 2005, 7, 1277-1282.	4.7	44
45	Persistent Immune Responses after Ebola Virus Infection. New England Journal of Medicine, 2013, 369, 492-493.	27.0	44
46	Creation of a new portable biosensor for water toxicity determination. Sensors and Actuators B: Chemical, 2015, 221, 1044-1054.	7.8	44
47	Chemiluminescent optical fiber immunosensor for the detection of anti-West Nile virus IgG. Talanta, 2005, 66, 6-14.	5.5	42
48	Point-of-Care Surface Plasmon Resonance Biosensor for Stroke Biomarkers NT-proBNP and S100Î²2 Using a Functionalized Gold Chip with Specific Antibody. Sensors, 2019, 19, 2533.	3.8	42
49	Nanolithography Using Protease Etching of Protein Surfaces. Nano Letters, 2003, 3, 1639-1642.	9.1	41
50	A lower limit of detection for atrazine was obtained using bioluminescent reporter bacteria via a lower incubation temperature. Ecotoxicology and Environmental Safety, 2012, 84, 221-226.	6.0	41
51	Colorimetric stack pad immunoassay for bacterial identification. Biosensors and Bioelectronics, 2017, 87, 572-578.	10.1	40
52	Point-of-Care-Testing in Acute Stroke Management: An Unmet Need Ripe for Technological Harvest. Biosensors, 2017, 7, 30.	4.7	40
53	A comparative physical study of two different hydrophilic synthetic latex matrices for the construction of a glucose biosensor. Talanta, 2001, 55, 889-897.	5.5	39
54	A polypyrrole cDNA electrode for the amperometric detection of the West Nile Virus. Electrochemistry Communications, 2006, 8, 1741-1748.	4.7	39

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55	Chemiluminescent DNA optical fibre sensor for Brettanomyces bruxellensis detection. Journal of Biotechnology, 2012, 157, 25-30.	3.8	39
56	Dissolvable Polyvinyl-Alcohol Film, a Time-Barrier to Modulate Sample Flow in a 3D-Printed Holder for Capillary Flow Paper Diagnostics. Materials, 2019, 12, 343.	2.9	39
57	Physico-chemical studies of indium tin oxide-coated fiber optic biosensors. Thin Solid Films, 2005, 492, 313-321.	1.8	37
58	Controlled carbon nanotube layers for impedimetric immunosensors: High performance label free detection and quantification of anti-cholera toxin antibody. Biosensors and Bioelectronics, 2017, 97, 177-183.	10.1	37
59	A rapid and easy procedure of biosensor fabrication by micro-encapsulation of enzyme in hydrophilic synthetic latex films. Application to the amperometric determination of glucose. Electrochemistry Communications, 2000, 2, 851-855.	4.7	36
60	Electroenzymatic Polypyrrole-intercalator Sensor for the Determination of West Nile Virus cDNA. Analytical Chemistry, 2006, 78, 7054-7057.	6.5	36
61	Highly sensitive amperometric immunosensor for the detection of Escherichia coli. Biosensors and Bioelectronics, 2009, 24, 3461-3466.	10.1	36
62	Detection of sub-inhibitory antibiotic concentrations via luminescent sensing bacteria and prediction of their mode of action. Sensors and Actuators B: Chemical, 2008, 129, 685-692.	7.8	35
63	Functional marine metagenomic screening for anti-quorum sensing and anti-biofilm activity. Biofouling, 2017, 33, 1-13.	2.2	35
64	Comparison between the performances of amperometric immunosensors for cholera antitoxin based on three enzyme markersâ˜†. Talanta, 2005, 66, 15-20.	5.5	34
65	Fiber-Optic Immunosensor for Detection of Crimean-Congo Hemorrhagic Fever IgG Antibodies in Patients. Analytical Chemistry, 2015, 87, 8394-8398.	6.5	34
66	A permselective biotinylated polydicarbazole film for the fabrication of amperometric enzyme electrodes. Electrochemistry Communications, 2003, 5, 973-977.	4.7	33
67	Optical fiber immunosensor for the detection of IgG antibody to Rift Valley fever virus in humans. Journal of Virological Methods, 2007, 146, 327-334.	2.1	33
68	Local medium effects in the photochemical behavior of substituted stilbenes immobilized on quartz surfaces. Journal of Photochemistry and Photobiology A: Chemistry, 1999, 122, 133-142.	3.9	32
69	Probing the toxicity mechanism of multiwalled carbon nanotubes on bacteria. Environmental Science and Pollution Research, 2018, 25, 5003-5012.	5.3	32
70	An innovative strategy for immobilization of receptor proteins on to an optical fiber by use of poly(pyrrole-biotin). Analytical and Bioanalytical Chemistry, 2002, 374, 1056-1063.	3.7	31
71	Indium tin oxide-coated optical fiber tips for affinity electropolymerization. Materials Science and Engineering C, 2002, 21, 189-194.	7.3	31
72	Glucose fuel cell based on carbon nanotube-supported pyreneâ€“metalloporphyrin catalysts. Journal of Materials Chemistry A, 2016, 4, 10635-10640.	10.3	31

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73	Impedimetric quantification of anti-dengue antibodies using functional carbon nanotube deposits validated with blood plasma assays. Electrochimica Acta, 2018, 274, 84-90.	5.2	31
74	Novel electro-oxidizable chiral N-substituted dicarbazoles and resulting electroactive films for covalent attachment of proteins. Tetrahedron Letters, 2000, 41, 3725-3729.	1.4	30
75	Biosensors based on combined optical and electrochemical transduction for molecular diagnostics. Expert Review of Molecular Diagnostics, 2011, 11, 533-546.	3.1	30
76	Fe-MOGs-based enzyme mimetic and its mediated electrochemiluminescence for in situ detection of H2O2 released from Hela cells. Biosensors and Bioelectronics, 2021, 184, 113216.	10.1	30
77	Fiber-optic biosensor to assess circulating phagocyte activity by chemiluminescence. Biosensors and Bioelectronics, 2006, 21, 1210-1218.	10.1	28
78	Novel Onâ€<scp>D</scp>emand Bioadhesion to Soft Tissue in Wet Environments. Macromolecular Bioscience, 2014, 14, 478-484.	4.1	28
79	Enhanced Electrochemiluminescence of Porphyrin-Based Metalâ€“Organic Frameworks Controlled via Coordination Modulation. Analytical Chemistry, 2020, 92, 1916-1924.	6.5	28
80	Poly(dicarbazole-N-hydroxysuccinimide) film: a new polymer for the reagentless grafting of enzymes and redox mediators. Electrochemistry Communications, 2000, 2, 827-831.	4.7	27
81	Fabrication of organic phase biosensors based on multilayered polyphenol oxidase protected by an alginate coating. Electrochemistry Communications, 2001, 3, 727-732.	4.7	27
82	Manufacturing of Nanochannels with Controlled Dimensions Using Protease Nanolithography. Nano Letters, 2005, 5, 821-827.	9.1	27
83	Metal-enhanced bioluminescence: An approach for monitoring biological luminescent processes. Applied Physics Letters, 2009, 94, .	3.3	26
84	Label free and amplified detection of cancer marker EBNA-1 by DNA probe based biosensors. Biosensors and Bioelectronics, 2011, 30, 272-275.	10.1	26
85	Profiling the Native Specific Human Humoral Immune Response to Sudan Ebola Virus Strain Gulu by Chemiluminescence Enzyme-Linked Immunosorbent Assay. Vaccine Journal, 2012, 19, 1844-1852.	3.1	26
86	UV and arsenate toxicity: a specific and sensitive yeast bioluminescence assay. Cell Biology and Toxicology, 2011, 27, 227-236.	5.3	25
87	MoS2 quantum dots-combined zirconium-metalloporphyrin frameworks: Synergistic effect on electron transfer and application for bioassay. Sensors and Actuators B: Chemical, 2018, 273, 566-573.	7.8	25
88	Rational Design of a Highly Dispersed Feâ€“Nâ€“C Nanosheet with 1,10-Phenanthroline-2,9-Dicarboxylic Acid as a Preorganized Ligand: Boosted Electrochemiluminescence Detection of Tetracycline. Analytical Chemistry, 2022, 94, 1325-1332.	6.5	25
89	Miniaturized Flow Stacked Immunoassay for Detecting Escherichia coli in a Single Step. Analytical Chemistry, 2016, 88, 6441-6449.	6.5	24
90	TEMPO-based immuno-lateral flow quantitative detection of dengue NS1 protein. Sensors and Actuators B: Chemical, 2018, 259, 354-363.	7.8	24

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91	T7 phage display of Ep15 peptide for the detection of WNV IgG. Journal of Virological Methods, 2007, 141, 133-140.	2.1	23
92	Study of Immobilization Procedure on Silver Nanolayers and Detection of Estrone with Diverged Beam Surface Plasmon Resonance (SPR) Imaging. Biosensors, 2013, 3, 157-170.	4.7	23
93	Amplified detection of femtomolar DNA based on a one-to-few recognition reaction between DNAâ€“Au conjugate and target DNA. Nanoscale, 2014, 6, 3110.	5.6	23
94	On-line biosensor for the detection of putative toxicity in water contaminants. Talanta, 2015, 132, 583-590.	5.5	23
95	Vibrio cholerae detection: Traditional assays, novel diagnostic techniques and biosensors. TrAC - Trends in Analytical Chemistry, 2016, 79, 199-209.	11.4	23
96	ATMP-induced three-dimensional conductive polymer hydrogel scaffold for a novel enhanced solid-state electrochemiluminescence biosensor. Biosensors and Bioelectronics, 2019, 143, 111601.	10.1	23
97	Enhanced Colorimetric Signal for Accurate Signal Detection in Paper-Based Biosensors. Diagnostics, 2020, 10, 28.	2.6	23
98	3D confined self-assembling of QD within super-engineering block copolymers as biocompatible superparticles enabling stimulus responsive solid state fluorescence. Nano Research, 2021, 14, 285-294.	10.4	23
99	Two-color, 30 second microwave-accelerated Metal-Enhanced Fluorescence DNA assays: A new Rapid Catch and Signal (RCS) technology. Journal of Immunological Methods, 2011, 366, 1-7.	1.4	22
100	Chemiluminescent optical fibre genosensor for porcine meat detection. Sensors and Actuators B: Chemical, 2017, 247, 868-874.	7.8	22
101	Electrogenerated Poly(Chiral Dicarbazole) Films for the Reagentless Grafting of Enzymes. Electroanalysis, 2000, 12, 1107-1112.	2.9	21
102	Amperometric immunosensor for the detection of anti-West Nile virus IgG using a photoactive copolymer. Enzyme and Microbial Technology, 2007, 40, 403-408.	3.2	21
103	Chemiluminescent optical fiber immunosensor detection of Brucella cells presenting smooth-A antigen. Sensors and Actuators B: Chemical, 2009, 140, 568-576.	7.8	21
104	Impedance study of the hybrid molecule alginateâ€“pyrrole: Demonstration as host matrix for the construction of a highly sensitive amperometric glucose biosensor. Sensors and Actuators B: Chemical, 2009, 136, 516-522.	7.8	21
105	Aptamer adaptive binding assessed by stilbene photoisomerization towards regenerating aptasensors. Sensors and Actuators B: Chemical, 2018, 257, 245-255.	7.8	21
106	Characterization of thin poly(pyrrole-benzophenone) film morphologies electropolymerized on indium tin oxide coated optic fibers for electrochemical and optical biosensing. Electrochimica Acta, 2008, 53, 5128-5135.	5.2	19
107	Immobilization strategies of Brucella particles on optical fibers for use in chemiluminescence immunosensors. Talanta, 2009, 80, 338-345.	5.5	19
108	Differentiation between Viral and Bacterial Acute Infections Using Chemiluminescent Signatures of Circulating Phagocytes. Analytical Chemistry, 2011, 83, 4258-4265.	6.5	18

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109	DNA origami nanorobot fiber optic genosensor to TMV. Biosensors and Bioelectronics, 2018, 99, 209-215.	10.1	18
110	ITO pattern fabrication of glass platforms for electropolymerization of light sensitive polymer for its conjugation to bioreceptors on a micro-array. Talanta, 2008, 75, 564-571.	5.5	17
111	Tunable Chemical Release from Polyester Thin Film by Photocatalytic Zinc Oxide and Doped LiYF₄ Upconverting Nanoparticles. Biomacromolecules, 2015, 16, 364-373.	5.4	17
112	Development of a Chemiluminescent Optical Fiber Immunosensor to Detect Streptococcus pneumoniae Antipolysaccharide Antibodies. Applied Biochemistry and Biotechnology, 2000, 89, 117-126.	2.9	16
113	Biofunctionalization of Multiwalled Carbon Nanotubes by Irradiation of Electropolymerized Poly(pyrroleâ€“diazirine) Films. Chemistry - A European Journal, 2013, 19, 9639-9643.	3.3	16
114	Electrogenerated indium tin oxide-coated glass surface with photosensitive interfaces: Surface analysis. Biosensors and Bioelectronics, 2007, 22, 2230-2236.	10.1	15
115	Highly sensitive detection of paclitaxel by surface-enhanced Raman scattering. Journal of Optics (United Kingdom), 2015, 17, 114019.	2.2	15
116	Hybrid multi-walled carbon nanotubes-alginate-polysulfone beads for adsorption of bisphenol-A from aqueous solution. Desalination and Water Treatment, 2015, 54, 1167-1183.	1.0	15
117	Organic additives stabilize RNA aptamer binding of malachite green. Talanta, 2016, 160, 172-182.	5.5	15
118	Fiber-Optic Based Cell Sensors. , 2009, 117, 131-154.		14
119	Synthesis, characterization and protein binding properties of supported dendrons. Journal of Materials Chemistry, 2009, 19, 6616.	6.7	14
120	Fixed Escherichia coli bacterial templates enable the production of sensitive SERS-based gold nanostructures. Sensors and Actuators B: Chemical, 2015, 211, 213-219.	7.8	14
121	Development and Validation of an On-Line Water Toxicity Sensor with Immobilized Luminescent Bacteria for On-Line Surface Water Monitoring. Sensors, 2017, 17, 2682.	3.8	14
122	Uniform and Easy-To-Prepare Glycopolymer-Brush Interface for Rapid Protein (Anti-)Adhesion Sensing. ACS Applied Materials & Interfaces, 2019, 11, 32366-32372.	8.0	14
123	A brief overview of global biotechnology. Biotechnology and Biotechnological Equipment, 2021, 35, S5-S14.	1.3	14
124	Assessing the Molecular Targets and Mode of Action of Furanone C-30 on Pseudomonas aeruginosa Quorum Sensing. Molecules, 2021, 26, 1620.	3.8	14
125	Classification of infectious diseases based on chemiluminescent signatures of phagocytes in whole blood. Artificial Intelligence in Medicine, 2011, 52, 153-163.	6.5	13
126	Multi-resistance as a tool for detecting novel beta-lactam antibiotics in the environment. Sensors and Actuators B: Chemical, 2012, 174, 342-348.	7.8	13

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127	Metal-enhanced fluorescence from zinc substrates can lead to spectral distortion and a wavelength dependence. Applied Physics Letters, 2015, 106, .	3.3	13
128	Novel Antiâ€Adhesive Biomaterial Patches: Preventing Biofilm with Metal Complex Films (MCF) Derived from a Microalgal Polysaccharide. Advanced Materials Interfaces, 2016, 3, 1500486.	3.7	13
129	Blood-Based Biomarkers Are Associated with Different Ischemic Stroke Mechanisms and Enable Rapid Classification between Cardioembolic and Atherosclerosis Etiologies. Diagnostics, 2020, 10, 804.	2.6	13
130	Electrochemical impedimetric detection of stroke biomarker NT-proBNP using disposable screen-printed gold electrodes. The EuroBiotech Journal, 2017, 1, 165-176.	1.0	12
131	Spectral Distortions in Metal-Enhanced Fluorescence: Experimental Evidence for Ultra-Fast and Slow Transitions. Journal of Physical Chemistry C, 2020, 124, 4723-4737.	3.1	12
132	The effect of cannabis toxicity on a model microbiome bacterium epitomized by a panel of bioluminescent E.Âcoli. Chemosphere, 2021, 263, 128241.	8.2	12
133	Inhibitory Effects of Artificial Sweeteners on Bacterial Quorum Sensing. International Journal of Molecular Sciences, 2021, 22, 9863.	4.1	12
134	Luminolâ€dependent chemiluminescence of human phagocyte cell lines: comparison between DMSO differentiated PLB 985 and HL 60 cells. Luminescence, 2009, 24, 171-177.	2.9	11
135	Characterization of Electrogenerated Polypyrroleâ^'Benzophenone Films Coated on Poly(pyrrole-methyl metacrylate) Optic-Conductive Fibers. Langmuir, 2009, 25, 10384-10389.	3.5	11
136	Amperometric biosensor based on the electro-copolymerization of a conductive biotinylated-pyrrole and alginate-pyrrole. Synthetic Metals, 2009, 159, 1117-1122.	3.9	11
137	Bioluminescence enhancement through an added washing protocol enabling a greater sensitivity to carbofuran toxicity. Ecotoxicology and Environmental Safety, 2013, 96, 61-66.	6.0	11
138	Novel Photochrome Aptamer Switch Assay (PHASA) for Adaptive Binding to Aptamers. Journal of Fluorescence, 2014, 24, 1581-1591.	2.5	11
139	Calcium-alginate/carbon nanotubes/TiO2 composite beads for removal of bisphenol A. Water Science and Technology, 2016, 74, 1585-1593.	2.5	11
140	B-Type Natriuretic Peptide as a Significant Brain Biomarker for Stroke Triaging Using a Bedside Point-of-Care Monitoring Biosensor. Biosensors, 2020, 10, 107.	4.7	11
141	Electrochemistry and chemiluminescence techniques compared in the detection of NADPH oxidase activity in phagocyte cells. Talanta, 2009, 77, 1460-1465.	5.5	10
142	Mixed-metal substrates for applications in metal-enhanced fluorescence. Journal of Materials Chemistry, 2011, 21, 6179.	6.7	10
143	Increased bioassay sensitivity of bioactive molecule discovery using metal-enhanced bioluminescence. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	10
144	Influence of carbon-based nanomaterials on lux-bioreporter Escherichia coli. Talanta, 2014, 126, 208-213.	5.5	10

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145	Functional Mimetics of the HIV-1 CCR5 Co-Receptor Displayed on the Surface of Magnetic Liposomes. PLoS ONE, 2015, 10, e0144043.	2.5	10
146	Development of a chemiluminescent DNA fibre optic genosensor to Hepatitis A Virus (HAV). Talanta, 2017, 174, 401-408.	5.5	10
147	Self-assembled photoadditives in polyester films allow stop and go chemical release. Acta Biomaterialia, 2017, 54, 186-200.	8.3	10
148	Anti-Quorum Sensing Activity of Stevia Extract, Stevioside, Rebaudioside A and Their Aglycon Steviol. Molecules, 2020, 25, 5480.	3.8	10
149	Postsynthesis Ligand Exchange Induced Porphyrin Hybrid Crystalloid Reconstruction for Self-Enhanced Electrochemiluminescence. Analytical Chemistry, 2020, 92, 15270-15274.	6.5	10
150	Preparation and characterization of a novel pyrrole-benzophenone copolymerized silica nanocomposite as a reagent in a visual immunologic-agglutination test. Talanta, 2008, 75, 1324-1331.	5.5	9
151	Biofunctionalization of Multiwalled Carbon Nanotubes by Electropolymerized Poly(pyrroleâ€concanavalinâ€...A) Films. Chemistry - A European Journal, 2014, 20, 13561-13564.	3.3	9
152	Membrane type comparison and modification to modulate sample flow in paper diagnostics. Biochemical Engineering Journal, 2020, 155, 107483.	3.6	9
153	Postmodulation of the Metalâ€“Organic Framework Precursor toward the Vacancy-Rich Cu_xO Transducer for Sensitivity Boost: Synthesis, Catalysis, and H₂O₂ Sensing. Analytical Chemistry, 2021, 93, 11066-11071.	6.5	9
154	Indoor air pollution and the contribution of biosensors. The EuroBiotech Journal, 2019, 3, 19-31.	1.0	9
155	Parameters to consider in the construction of fiber-optic biosensors as alternative bioanalytical tools. IEEE Instrumentation and Measurement Magazine, 2009, 12, 10-16.	1.6	8
156	Use of Bamboo Powder Waste for Removal of Bisphenol A in Aqueous Solution. Water, Air, and Soil Pollution, 2015, 226, 1.	2.4	8
157	Nanostructured photoactivatable electrode surface based on pyrene diazirine. Electrochemistry Communications, 2017, 80, 5-8.	4.7	8
158	Self-assembled meso-tetra(4-carboxyphenyl)porphine: Structural modulation using surfactants for enhanced photoelectrochemical properties. Electrochimica Acta, 2019, 299, 560-566.	5.2	8
159	Cigarette smoke toxicity modes of action estimated by a bioluminescent bioreporter bacterial panel. Talanta, 2021, 226, 122076.	5.5	8
160	Chemiluminescent assay of phenol in wastewater using HRP-catalysed luminol oxidation with and without enhancers. Analytical Methods, 2014, 6, 8654-8659.	2.7	7
161	New Photochrome Probe Allows Simultaneous pH and Microviscosity Sensing. Journal of Fluorescence, 2015, 25, 961-972.	2.5	7
162	Impact of copper nanoparticles on porcine neutrophils: ultrasensitive characterization factor combining chemiluminescence information and USEtox assessment model. Materials Today Communications, 2017, 11, 68-75.	1.9	7

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163	Design and optimisation of Photochrome Aptamer Switch Assay (PHASA). Analytica Chimica Acta, 2019, 1061, 134-141.	5.4	7
164	Capture-Layer Lateral Flow Immunoassay: A New Platform Validated in the Detection and Quantification of Dengue NS1. ACS Omega, 2020, 5, 10433-10440.	3.5	7
165	Blood biomarkers to detect new-onset atrial fibrillation and cardioembolism in ischemic stroke patients. Heart Rhythm, 2021, 18, 855-861.	0.7	7
166	Probiotic Characteristics of Lactiplantibacillus Plantarum N-1 and Its Cholesterol-Lowering Effect in Hypercholesterolemic Rats. Probiotics and Antimicrobial Proteins, 2022, 14, 337-348.	3.9	7
167	Multi-tailoring of a modified MOF-derived Cu_xO electrochemical transducer for enhanced hydrogen peroxide sensing. Analyst, The, 2021, 147, 72-79.	3.5	7
168	Dynamic Component Chemiluminescent Sensor for Assessing Circulating Polymorphonuclear Leukocyte Activity of Peritoneal Dialysis Patients. Analytical Chemistry, 2008, 80, 5131-5138.	6.5	6
169	New approach of constructing biosensing matrices by physical and chemical crosslinking of biotin-alginate with alginate-pyrrole. Electrochimica Acta, 2009, 54, 4359-4364.	5.2	6
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