Chris Rowe Taitt

List of Publications by Year
in descending order

92	5,053	81900 39	88630 70
papers	citations	h-index	g-index

94	94	94	4648
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comparison of chemical cleaning methods of glass in preparation for silanization. Biosensors and Bioelectronics, 1999, 14, 683-688.	10.1	325
2	Array Biosensor for Simultaneous Identification of Bacterial, Viral, and Protein Analytes. Analytical Chemistry, 1999, 71, 3846-3852.	6.5	283
3	Array biosensor for detection of toxins. Analytical and Bioanalytical Chemistry, 2003, 377, 469-477.	3.7	268
4	Evanescent wave fluorescence biosensors. Biosensors and Bioelectronics, 2005, 20, 2470-2487.	10.1	260
5	An Array Immunosensor for Simultaneous Detection of Clinical Analytes. Analytical Chemistry, 1999, 71, 433-439.	6.5	243
6	Array biosensor for detection of biohazards. Biosensors and Bioelectronics, 2000, 14, 785-794.	10.1	170
7	Antimicrobial Peptides for Detection of Bacteria in Biosensor Assays. Analytical Chemistry, 2005, 77, 6504-6508.	6.5	162
8	Simultaneous detection of six biohazardous agents using a planar waveguide array biosensor. Biosensors and Bioelectronics, 2000, 15, 579-589.	10.1	158
9	Nine-Analyte Detection Using an Array-Based Biosensor. Analytical Chemistry, 2002, 74, 6114-6120.	6.5	145
10	The Array Biosensor: Portable, Automated Systems. Analytical Sciences, 2007, 23, 5-10.	1.6	128
11	Array Biosensor for Detection of Ochratoxin A in Cereals and Beverages. Analytical Chemistry, 2005, 77, 148-154.	6.5	126
12	Evanescent wave fluorescence biosensors: Advances of the last decade. Biosensors and Bioelectronics, 2016, 76, 103-112.	10.1	115
13	Indirect competitive immunoassay for detection of aflatoxin B1 in corn and nut products using the array biosensor. Biosensors and Bioelectronics, 2006, 21, 2298-2305.	10.1	109
14	Rapid detection of foodborne contaminants using an Array Biosensor. Sensors and Actuators B: Chemical, 2006, 113, 599-607.	7.8	103
15	Antimicrobial peptide-based array for Escherichia coli and Salmonella screening. Analytica Chimica Acta, 2006, 575, 9-15.	5.4	101
16	Detection ofCampylobacterandShigellaSpecies in Food Samples Using an Array Biosensor. Analytical Chemistry, 2004, 76, 433-440.	6.5	98
17	Biosensor Detection of Botulinum Toxoid A and Staphylococcal Enterotoxin B in Food. Applied and Environmental Microbiology, 2005, 71, 5590-5592.	3.1	97
18	A Portable Array Biosensor for Detecting Multiple Analytes in Complex Samples. Microbial Ecology, 2004, 47, 175-185.	2.8	93

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19	Detection of Salmonella enterica Serovar Typhimurium by Using a Rapid, Array-Based Immunosensor. Applied and Environmental Microbiology, 2004, 70, 152-158.	3.1	92
20	Multidrug-resistant tet(X)-containing hospital isolates in Sierra Leone. International Journal of Antimicrobial Agents, 2013, 42, 83-86.	2.5	90
21	TNT Detection Using Multiplexed Liquid Array Displacement Immunoassays. Analytical Chemistry, 2006, 78, 2279-2285.	6.5	86
22	Array biosensor: optical and fluidics systems. Biomedical Microdevices, 1999, 1, 139-153.	2.8	78
23	Detection of Deoxynivalenol in Foods and Indoor Air Using an Array Biosensor. Environmental Science & Technology, 2006, 40, 2352-2356.	10.0	74
24	Plasma-Based Surface Modification of Polystyrene Microtiter Plates for Covalent Immobilization of Biomolecules. ACS Applied Materials & Interfaces, 2010, 2, 2884-2891.	8.0	73
25	Fluorescence-based array biosensors for detection of biohazards. Journal of Applied Microbiology, 2004, 96, 47-58.	3.1	70
26	Detection of bacterial toxins with monosaccharide arrays. Biosensors and Bioelectronics, 2006, 21, 1195-1201.	10.1	70
27	Reduction of Non-Specific Protein Adsorption Using Poly(ethylene) Glycol (PEG) Modified Polyacrylate Hydrogels In Immunoassays for Staphylococcal Enterotoxin B Detection. Sensors, 2009, 9, 645-655.	3.8	67
28	A Ganglioside-Based Assay for Cholera Toxin Using an Array Biosensor. Analytical Biochemistry, 2000, 281, 123-133.	2.4	66
29	Antimicrobial Resistance Determinants in Acinetobacter baumannii Isolates Taken from Military Treatment Facilities. Antimicrobial Agents and Chemotherapy, 2014, 58, 767-781.	3.2	66
30	Nonantibody-based recognition: alternative molecules for detection of pathogens. Expert Review of Proteomics, 2006, 3, 511-524.	3.0	65
31	Antimicrobial peptides as new recognition molecules for screening challenging species. Sensors and Actuators B: Chemical, 2007, 121, 150-157.	7.8	63
32	High prevalence of multidrug resistant Enterobacteriaceae isolated from outpatient urine samples but not the hospital environment in Bo, Sierra Leone. BMC Infectious Diseases, 2016, 16, 167.	2.9	57
33	Array Biosensor for Toxin Detection: Continued Advances. Sensors, 2008, 8, 8361-8377.	3.8	56
34	A portable automated multianalyte biosensor. Talanta, 2005, 65, 1078-1085.	5.5	53
35	Rapid detection of Escherichia coli O157:H7 spiked into food matrices. Analytica Chimica Acta, 2007, 584, 66-71.	5.4	50
36	Multiplexed measurement of serum antibodies using an array biosensor. Biosensors and Bioelectronics, 2006, 21, 1880-1886.	10.1	48

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37	Multiplexed magnetic microsphere immunoassays for detection of pathogens in foods. Sensing and Instrumentation for Food Quality and Safety, 2010, 4, 73-81.	1.5	48
38	Identification of bla _{OXA-51-like} , bla _{OXA-58} , bla _{DIM-1} , and bla _{VIM} Carbapenemase Genes in Hospital Enterobacteriaceae Isolates from Sierra Leone. Journal of Clinical Microbiology, 2013, 51, 2435-2438.	3.9	47
39	Applications of Array Biosensor for Detection of Food Allergens. Journal of AOAC INTERNATIONAL, 2004, 87, 1498-1502.	1.5	42
40	Antimicrobial resistance of Klebsiella pneumoniae stool isolates circulating in Kenya. PLoS ONE, 2017, 12, e0178880.	2.5	40
41	Multiplexed Detection of Mycotoxins in Foods with a Regenerable Arrayâ€. Journal of Food Protection, 2006, 69, 3047-3051.	1.7	38
42	Critical aspects of biointerface design and their impact on biosensor development. Analytical and Bioanalytical Chemistry, 2010, 397, 925-933.	3.7	35
43	Multidrug resistance determinants from NDM-1-producing Klebsiella pneumoniae in the USA. International Journal of Antimicrobial Agents, 2012, 40, 282-284.	2.5	34
44	Rapid Analytical Methods for On-Site Triage for Traumatic Brain Injury. Annual Review of Analytical Chemistry, 2012, 5, 35-56.	5.4	34
45	Comparison of detection and signal amplification methods for DNA microarrays. Molecular and Cellular Probes, 2008, 22, 294-300.	2.1	33
46	Amplification of microsphere-based microarrays using catalyzed reporter deposition. Biosensors and Bioelectronics, 2008, 24, 324-328.	10.1	30
47	A galactose polyacrylate-based hydrogel scaffold for the detection of cholera toxin and staphylococcal enterotoxin B in a sandwich immunoassay format. Analytica Chimica Acta, 2006, 578, 2-10.	5.4	27
48	Antimicrobial Peptides: New Recognition Molecules for Detecting Botulinum Toxins. Sensors, 2007, 7, 2808-2824.	3.8	27
49	Use of real-time multiplex PCR, malaria rapid diagnostic test and microscopy to investigate the prevalence of Plasmodium species among febrile hospital patients in Sierra Leone. Malaria Journal, 2020, 19, 84.	2.3	27
50	Multiplexed Electrochemical Detection of Yersinia Pestis and Staphylococcal Enterotoxin B using an Antibody Microarray. Sensors, 2010, 10, 3351-3362.	3.8	24
51	Use of the FilmArray System for Detection of Zaire ebolavirus in a Small Hospital in Bo, Sierra Leone. Journal of Clinical Microbiology, 2015, 53, 2368-2370.	3.9	23
52	Molecular Characterization of Multidrug Resistant Hospital Isolates Using the Antimicrobial Resistance Determinant Microarray. PLoS ONE, 2013, 8, e69507.	2.5	23
53	Effect of Physicochemical Anomalies of Soda-Lime Silicate Slides on Biomolecule Immobilization. Analytical Chemistry, 2010, 82, 406-412.	6.5	22
54	Simultaneous determination of kinetic parameters for the binding of cholera toxin to immobilized sialic acid and monoclonal antibody using an array biosensor. Biosensors and Bioelectronics, 2006, 22, 124-130.	10.1	21

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55	Discrimination between biothreat agents and â€˜near neighborâ€™ species using a resequencing array. FEMS Immunology and Medical Microbiology, 2008, 54, 356-364.	2.7	17
56	Antimicrobial Peptide Arrays for Detection of Inactivated Biothreat Agents. Methods in Molecular Biology, 2009, 570, 233-255.	0.9	17
57	Targeted Deposition of Antibodies on a Multiplex CMOS Microarray and Optimization of a Sensitive Immunoassay Using Electrochemical Detection. PLoS ONE, 2010, 5, e9781.	2.5	16
58	Surface immobilization chemistry influences peptideâ€based detection of lipopolysaccharide and lipoteichoic acid. Journal of Peptide Science, 2012, 18, 366-372.	1.4	15
59	Blind Laboratory Trials for Multiple Pathogens in Spiked Food Matrices. Analytical Letters, 2007, 40, 3219-3231.	1.8	14
60	Surface Modification and Biomolecule Immobilization on Polymer Spheres for Biosensing Applications. Methods in Molecular Biology, 2011, 726, 77-94.	0.9	14
61	Effect of Linker Length on Cell Capture by Poly(ethylene glycol)-Immobilized Antimicrobial Peptides. Langmuir, 2017, 33, 2878-2884.	3.5	14
62	Suspension Microarray Immunoassay Signal Amplification Using Multilayer Formation. Sensor Letters, 2008, 6, 213-218.	0.4	13
63	Surveillance of Vector-Borne Infections (Chikungunya, Dengue, and Malaria) in Bo, Sierra Leone, 2012â€“2013. American Journal of Tropical Medicine and Hygiene, 2017, 97, 1151-1154.	1.4	13
64	Characterization of longitudinal canal tissue in the acorn barnacle Amphibalanus amphitrite. PLoS ONE, 2018, 13, e0208352.	2.5	12
65	Application of Circular Dichroism for Structural Analysis of Surface-Immobilized Cecropin A Interacting with Lipoteichoic Acid. Langmuir, 2015, 31, 10791-10798.	3.5	10
66	Seroprevalence of hepatitis B surface antigen (HBsAg) in Bo, Sierra Leone, 2012â€“2013. BMC Research Notes, 2018, 11, 113.	1.4	10
67	Fragmentation of biotinylated cyclic peptides. Rapid Communications in Mass Spectrometry, 2004, 18, 1277-1285.	1.5	8
68	Rapid design and fielding of four diagnostic technologies in Sierra Leone, Thailand, Peru, and Australia: Successes and challenges faced introducing these biosensors. Sensing and Bio-Sensing Research, 2018, 20, 22-33.	4.2	8
69	Crosslinkers Modify Affinity of Immobilized Carbohydrates for Cholera Toxin. Sensor Letters, 2007, 5, 621-624.	0.4	8
70	Enhancement of deoxyribonucleic acid microarray performance using post-hybridization signal amplification. Analytica Chimica Acta, 2010, 679, 85-90.	5.4	7
71	Prevalence of Quinolone Resistance in Enterobacteriaceae from Sierra Leone and the Detection of qnrB Pseudogenes and Modified LexA Binding Sites. Antimicrobial Agents and Chemotherapy, 2016, 60, 6920-6923.	3.2	7
72	Porphyrin-modified antimicrobial peptide indicators for detection of bacteria. Sensing and Bio-Sensing Research, 2016, 8, 1-7.	4.2	7

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73	Immobilization of Biomolecules onto Silica and Silica-Based Surfaces for Use in Planar Array Biosensors. Methods in Molecular Biology, 2009, 504, 419-440.	0.9	7
74	Detection of qnrVC and rmtB genes from a multidrug-resistant Ralstonia pickettii wound infection isolate in Cambodia. International Journal of Antimicrobial Agents, 2014, 44, 84-85.	2.5	6
75	Antimicrobial resistance genotypes and phenotypes from multidrug-resistant bacterial wound infection isolates in Cambodia. Journal of Global Antimicrobial Resistance, 2015, 3, 198-204.	2.2	6
76	Finished Genome Sequence of the Highly Multidrug-Resistant Human Urine Isolate Citrobacter freundii Strain SL151. Genome Announcements, 2016, 4, .	0.8	6
77	EVANESCENT WAVE FIBER OPTIC BIOSENSORS. , 2008, , 83-138.		5
78	A comparison of methods for DNA preparation prior to microarray analysis. Analytical Biochemistry, 2019, 585, 113405.	2.4	5
79	A Survey of Antimicrobial Resistance Determinants in Category A Select Agents, Exempt Strains, and Near-Neighbor Species. International Journal of Molecular Sciences, 2020, 21, 1669.	4.1	5
80	Prevalence of markers of HIV infection among febrile adults and children in Bo, Sierra Leone, 2012â€“2013. BMC Research Notes, 2017, 10, 565.	1.4	4
81	PLANAR WAVEGUIDES FOR FLUORESCENCE BIOSENSORS. , 2008, , 139-184.		3
82	Antimicrobial resistance determinant microarray for analysis of multi-drug resistant isolates. Proceedings of SPIE, 2012, , .	0.8	2
83	Chemoselective surface attachment of antimicrobial peptides and its effects on interfacial behavior. , 2014, , .		2
84	Secondary Structure Determination of Peptides and Proteins After Immobilization. Methods in Molecular Biology, 2016, 1352, 35-50.	0.9	2
85	Comparison of seven methods for DNA extraction from prosomata of the acorn barnacle, Amphibalanus amphitrite. Analytical Biochemistry, 2019, 586, 113441.	2.4	2
86	Internal transport properties of macroporous sugar polyacrylate hydrogels: Microsphere diffusion described by phenomenological laws. Biotechnology and Bioengineering, 2008, 99, 1241-1249.	3.3	1
87	A Parametric Study of Sample Lysis and DNA Purification Techniques for Use in Automated Devices. Analytical Letters, 2008, 41, 1701-1719.	1.8	1
88	Loss of cationic peptides with agarose gel-immobilized tris[2- carboxyethyl]phosphine (TCEP). BioTechniques, 2013, 55, 292-294.	1.8	1
89	Oriented Peptide Immobilization on Microspheres. Methods in Molecular Biology, 2016, 1352, 183-197.	0.9	1
90	The Array Biosensors. , 2005, , 263-281.		0

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91	Electron beam plasma modification of microtitre plates for covalent biomolecules immobilization. , 2010, , .		0
92	Comparison of capillary and venous blood for malaria detection using two PCR-based assays in febrile patients in Sierra Leone. Malaria Journal, 2021, 20, 133.	2.3	0