

Avraham Rasooly

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

5,204
citations

81743

39
h-index

85405

71
g-index

92
all docs

92
docs citations

92
times ranked

4945
citing authors

#	ARTICLE	IF	CITATIONS
1	Staphylococcal enterotoxins. International Journal of Food Microbiology, 2000, 61, 1-10.	2.1	694
2	Spectral surface plasmon resonance biosensor for detection of staphylococcal enterotoxin B in milk. International Journal of Food Microbiology, 2002, 75, 61-69.	2.1	301
3	Microarray Analysis of Microbial Virulence Factors. Applied and Environmental Microbiology, 2001, 67, 3258-3263.	1.4	255
4	Autoinducer of Virulence As a Target for Vaccine and Therapy Against Staphylococcus aureus. Science, 1998, 280, 438-440.	6.0	220
5	Identification of Listeria Species by Microarray-Based Assay. Journal of Clinical Microbiology, 2002, 40, 4720-4728.	1.8	208
6	Development of biosensors for cancer clinical testing. Biosensors and Bioelectronics, 2006, 21, 1851-1858.	5.3	171
7	Mechanisms of Phytonutrient Modulation of Cyclooxygenase-2 (COX-2) and Inflammation Related to Cancer. Nutrition and Cancer, 2018, 70, 350-375.	0.9	135
8	Multipathogen oligonucleotide microarray for environmental and biodefense applications. Biosensors and Bioelectronics, 2004, 20, 684-698.	5.3	125
9	A single electrochemical biosensor for detecting the activity and inhibition of both protein kinase and alkaline phosphatase based on phosphate ions induced deposition of redox precipitates. Biosensors and Bioelectronics, 2016, 85, 220-225.	5.3	118
10	ELISA-LOC: lab-on-a-chip for enzyme-linked immunodetection. Lab on A Chip, 2010, 10, 2093.	3.1	116
11	Multitoxin biosensorâ€™mass spectrometry analysis: a new approach for rapid, real-time, sensitive analysis of staphylococcal toxins in food. International Journal of Food Microbiology, 2000, 60, 1-13.	2.1	115
12	Biosensors for the Analysis of Food- and Waterborne Pathogens and Their Toxins. Journal of AOAC INTERNATIONAL, 2006, 89, 873-883.	0.7	115
13	Gold nanoparticle-based enhanced chemiluminescence immunosensor for detection of Staphylococcal Enterotoxin B (SEB) in food. International Journal of Food Microbiology, 2009, 133, 265-271.	2.1	107
14	Microarray-Based Identification of Thermophilic Campylobacter jejuni , C.coli , C. lari , and C.upsaliensis. Journal of Clinical Microbiology, 2003, 41, 4071-4080.	1.8	101
15	Surface Plasmon Resonance Analysis of Staphylococcal Enterotoxin B in Food. Journal of Food Protection, 2001, 64, 37-43.	0.8	98
16	Detection of Campylobacter and Shigella Species in Food Samples Using an Array Biosensor. Analytical Chemistry, 2004, 76, 433-440.	3.2	98
17	Simultaneous Analysis of Multiple Staphylococcal Enterotoxin Genes by an Oligonucleotide Microarray Assay. Journal of Clinical Microbiology, 2004, 42, 2134-2143.	1.8	98
18	Monitoring of enzymatic proteolysis on a electroluminescent-CCD microchip platform using quantum dot-peptide substrates. Sensors and Actuators B: Chemical, 2009, 139, 13-21.	4.0	91

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19	Food Microbial Pathogen Detection and Analysis Using DNA Microarray Technologies. <i>Foodborne Pathogens and Disease</i> , 2008, 5, 531-550.	0.8	88
20	Polycytosine DNA Electric-Current-Generated Immunosensor for Electrochemical Detection of Human Epidermal Growth Factor Receptor 2 (HER2). <i>Analytical Chemistry</i> , 2018, 90, 4764-4769.	3.2	86
21	Carbon Nanotubes with Enhanced Chemiluminescence Immunoassay for CCD-Based Detection of Staphylococcal Enterotoxin B in Food. <i>Analytical Chemistry</i> , 2008, 80, 8532-8537.	3.2	82
22	Electrochemical Biosensing Platform Using Hydrogel Prepared from Ferrocene Modified Amino Acid as Highly Efficient Immobilization Matrix. <i>Analytical Chemistry</i> , 2014, 86, 973-976.	3.2	80
23	Microarray analysis of <i>Bacillus cereus</i> group virulence factors. <i>Journal of Microbiological Methods</i> , 2006, 65, 488-502.	0.7	71
24	Lab-on-a-chip for carbon nanotubes based immunoassay detection of Staphylococcal Enterotoxin B (SEB). <i>Lab on A Chip</i> , 2010, 10, 1011.	3.1	68
25	Dual Signal Amplification Electrochemical Biosensor for Monitoring the Activity and Inhibition of the Alzheimer's Related Protease β -Secretase. <i>Analytical Chemistry</i> , 2016, 88, 10559-10565.	3.2	68
26	Self-Assembled DNA Generated Electric Current Biosensor for HER2 Analysis. <i>Analytical Chemistry</i> , 2017, 89, 10264-10269.	3.2	65
27	Real time biosensor analysis of Staphylococcal enterotoxin A in food. <i>International Journal of Food Microbiology</i> , 1999, 49, 119-127.	2.1	64
28	Analytical chromatography for recovery of small amounts of staphylococcal enterotoxins from food. <i>International Journal of Food Microbiology</i> , 2001, 64, 33-40.	2.1	64
29	DNA Microarray Technology Used for Studying Foodborne Pathogens and Microbial Habitats: Minireview. <i>Journal of AOAC INTERNATIONAL</i> , 2002, 85, 906-910.	0.7	58
30	A fluorescence detection platform using spatial electroluminescent excitation for measuring botulinum neurotoxin A activity. <i>Biosensors and Bioelectronics</i> , 2008, 24, 618-625.	5.3	58
31	Carbon nanotubes based optical immunodetection of Staphylococcal Enterotoxin B (SEB) in food. <i>International Journal of Food Microbiology</i> , 2008, 127, 78-83.	2.1	58
32	Detection and Analysis of Animal Materials in Food and Feed. <i>Journal of Food Protection</i> , 2000, 63, 1602-1609.	0.8	57
33	Miniaturized 96-well ELISA chips for staphylococcal enterotoxin B detection using portable colorimetric detector. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 499-505.	1.9	57
34	DNA Generated Electric Current Biosensor. <i>Analytical Chemistry</i> , 2017, 89, 2547-2552.	3.2	57
35	Lab-on-a-chip for botulinum neurotoxin a (BoNT-A) activity analysis. <i>Lab on A Chip</i> , 2009, 9, 3275.	3.1	55
36	Detection and analysis of Staphylococcal enterotoxin A in food by Western immunoblotting. <i>International Journal of Food Microbiology</i> , 1998, 41, 205-212.	2.1	44

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37	Identification of Bacillus anthracis by multiprobe microarray hybridization. Diagnostic Microbiology and Infectious Disease, 2004, 49, 163-171.	0.8	44
38	Staphylococcus aureus Growth and Enterotoxin A Production in an Anaerobic Environment. Journal of Food Protection, 2002, 65, 199-204.	0.8	43
39	An automated point-of-care system for immunodetection of staphylococcal enterotoxin B. Analytical Biochemistry, 2011, 416, 74-81.	1.1	43
40	Low-cost technologies for medical diagnostics in low-resource settings. Expert Opinion on Medical Diagnostics, 2013, 7, 243-255.	1.6	41
41	Lensless CCD-based fluorometer using a micromachined optical SÅrller collimator. Lab on A Chip, 2011, 11, 941.	3.1	37
42	In Vitro Antibacterial Activities of Phloxine B and Other Halogenated Fluoresceins against Methicillin-Resistant Staphylococcus aureus. Antimicrobial Agents and Chemotherapy, 2002, 46, 3650-3653.	1.4	34
43	Fluorescent turn-on determination of the activity of peptidases using peptide templated gold nanoclusters. Mikrochimica Acta, 2016, 183, 605-610.	2.5	33
44	Moving biosensors to point-of-care cancer diagnostics. Biosensors and Bioelectronics, 2006, 21, 1847-1850.	5.3	31
45	Multi-wavelength spatial LED illumination based detector for in vitro detection of botulinum neurotoxin A activity. Sensors and Actuators B: Chemical, 2010, 146, 297-306.	4.0	29
46	Image stacking approach to increase sensitivity of fluorescence detection using a low cost complementary metal-oxide-semiconductor (CMOS) webcam. Sensors and Actuators B: Chemical, 2012, 171-172, 141-147.	4.0	26
47	Biosensors for the analysis of food- and waterborne pathogens and their toxins. Journal of AOAC INTERNATIONAL, 2006, 89, 873-83.	0.7	26
48	Oligo Design: a computer program for development of probes for oligonucleotide microarrays. BioTechniques, 2003, 35, 1216-1221.	0.8	25
49	Electrical percolation-based biosensor for real-time direct detection of staphylococcal enterotoxin B (SEB). Biosensors and Bioelectronics, 2010, 25, 2573-2578.	5.3	25
50	Self-Assembled DNA-THPS Hydrogel as a Topical Antibacterial Agent for Wound Healing. ACS Applied Bio Materials, 2019, 2, 1262-1269.	2.3	25
51	Thousand-fold fluorescent signal amplification for mHealth diagnostics. Biosensors and Bioelectronics, 2014, 51, 1-7.	5.3	24
52	An ELISA Lab-on-a-Chip (ELISA-LOC). Methods in Molecular Biology, 2013, 949, 451-471.	0.4	22
53	Capillary array waveguide amplified fluorescence detector for mHealth. Sensors and Actuators B: Chemical, 2013, 186, 711-717.	4.0	20
54	A simple 96-well microfluidic chip combined with visual and densitometry detection for resource-poor point of care testing. Sensors and Actuators B: Chemical, 2011, 153, 176-181.	4.0	18

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55	A Simple Portable Electroluminescence Illumination-Based CCD Detector. <i>Methods in Molecular Biology</i> , 2009, 503, 259-272.	0.4	18
56	How rolling circle plasmids control their copy number. <i>Trends in Microbiology</i> , 1997, 5, 440-446.	3.5	16
57	Biosensors and Biodetection. <i>Methods in Molecular Biology</i> , 2009, 503, v-ix.	0.4	16
58	Electrical percolation based biosensors. <i>Methods</i> , 2013, 63, 282-289.	1.9	16
59	Electrophoretic karyotyping of the lignin-degrading basidiomycete <i>Phanerochaete chrysosporium</i> . <i>Molecular Microbiology</i> , 1993, 8, 803-807.	1.2	15
60	Study of the biouptake of labeled single-walled carbon nanotubes using fluorescence-based method. <i>Environmental Chemistry Letters</i> , 2011, 9, 235-241.	8.3	14
61	Modeling and design of micromachined optical SÅ¶ller collimators for lensless CCD-based fluorometry. <i>Analyst, The</i> , 2012, 137, 5011.	1.7	14
62	Improving the Sensitivity and Functionality of Mobile Webcam-Based Fluorescence Detectors for Point-of-Care Diagnostics in Global Health. <i>Diagnostics</i> , 2016, 6, 19.	1.3	14
63	Lab-on-a-chip for label free biological semiconductor analysis of Staphylococcal Enterotoxin B. <i>Lab on A Chip</i> , 2010, 10, 2534.	3.1	13
64	Webcam-based flow cytometer using wide-field imaging for low cell number detection at high throughput. <i>Analyst, The</i> , 2014, 139, 4322-4329.	1.7	13
65	Cell streak imaging cytometry for rare cell detection. <i>Biosensors and Bioelectronics</i> , 2015, 64, 154-160.	5.3	13
66	Dual function hollow structured mesoporous Prussian blue mesocrystals for glucose biosensors. <i>Analytical Methods</i> , 2018, 10, 3951-3957.	1.3	13
67	Gold nanocluster-europium(III) ratiometric fluorescence assay for dipicolinic acid. <i>Mikrochimica Acta</i> , 2021, 188, 26.	2.5	13
68	Biological Semiconductor Based on Electrical Percolation. <i>Analytical Chemistry</i> , 2010, 82, 3567-3572.	3.2	12
69	Oligonucleotide Microarrays for Identification of Microbial Pathogens and Detection of Their Virulence-Associated or Drug-Resistance Determinants. <i>Methods in Molecular Biology</i> , 2011, 671, 55-94.	0.4	10
70	Rapid DNA Amplification Using a Battery-Powered Thin-Film Resistive Thermocycler. <i>Methods in Molecular Biology</i> , 2009, 504, 441-458.	0.4	10
71	Sensitive detection of active Shiga toxin using low cost CCD based optical detector. <i>Biosensors and Bioelectronics</i> , 2015, 68, 705-711.	5.3	9
72	Cancer: a global concern that demands new detection technologies. <i>Analyst, The</i> , 2016, 141, 367-370.	1.7	9

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73	Mobile Health Technologies. <i>Methods in Molecular Biology</i> , 2015, 1256, v-vi.	0.4	8
74	Amperometric genosensor for culture independent bacterial count. <i>Sensors and Actuators B: Chemical</i> , 2019, 299, 126944.	4.0	8
75	DNA microarray technology used for studying foodborne pathogens and microbial habitats: minireview. <i>Journal of AOAC INTERNATIONAL</i> , 2002, 85, 906-10.	0.7	8
76	Charged-Coupled Device (CCD) Detectors for Lab-on-a Chip (LOC) Optical Analysis. <i>Methods in Molecular Biology</i> , 2013, 949, 365-385.	0.4	7
77	Orthographic projection capillary array fluorescent sensor for mHealth. <i>Methods</i> , 2013, 63, 276-281.	1.9	6
78	Smartphone-Based Fluorescence Detector for mHealth. <i>Methods in Molecular Biology</i> , 2015, 1256, 231-245.	0.4	6
79	Modification of the plasmid initiator protein RepC active site during replication. <i>FEMS Microbiology Letters</i> , 1996, 145, 245-253.	0.7	5
80	A computational streak mode cytometry biosensor for rare cell analysis. <i>Analyst, The</i> , 2017, 142, 641-648.	1.7	4
81	Mobile Flow Cytometer for mHealth. <i>Methods in Molecular Biology</i> , 2015, 1256, 139-153.	0.4	4
82	Two-Layer Lab-on-a-Chip (LOC) with Passive Capillary Valves for mHealth Medical Diagnostics. <i>Methods in Molecular Biology</i> , 2015, 1256, 247-258.	0.4	3
83	Epistasis of <i>ryj1</i> Nonnodulation of Soybean to Nodulation by <i>Sinorhizobium fredii</i> . <i>Crop Science</i> , 1993, 33, 329.	0.8	2
84	DNA-Generated Electric Current Biosensor for Epidermal Growth Factor Receptor 2 (HER2) Analysis. <i>Methods in Molecular Biology</i> , 2022, 2393, 437-446.	0.4	2
85	Double-stranded origin nicking and replication initiation are coupled in the replication of a rolling circle plasmid, pT181. <i>FEMS Microbiology Letters</i> , 2006, 151, 185-189.	0.7	1
86	Cancer and the Use of Biosensors for Cancer Clinical Testing. <i>Series in Sensors</i> , 2012, , 3-40.	0.0	1
87	Streak Imaging Flow Cytometer for Rare Cell Analysis. <i>Methods in Molecular Biology</i> , 2017, 1571, 267-286.	0.4	1
88	Energy transfer-based biosensing of protease activity measured using an electroluminescent platform. <i>Proceedings of SPIE</i> , 2009, , .	0.8	0
89	Low-Cost Charged-Coupled Device (CCD) Based Detectors for Shiga Toxins Activity Analysis. <i>Methods in Molecular Biology</i> , 2017, 1571, 233-249.	0.4	0
90	Evaluation of a Methodology for Automated Cell Counting for Streak Mode Imaging Flow Cytometry. <i>Journal of Analytical & Bioanalytical Techniques</i> , 2017, 08, .	0.6	0

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91	Bugs as Cancer Drugs: Challenges and Opportunities. <i>Molecular and Cellular Biology</i> , 2019, 39, .	1.1	0