Avraham Rasooly

List of Publications by Year
in descending order

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	DNA-Generated Electric Current Biosensor for Epidermal Growth Factor Receptor 2 (HER2) Analysis. Methods in Molecular Biology, 2022, 2393, 437-446.	0.4	2
2	Gold nanocluster-europium(III) ratiometric fluorescence assay for dipicolinic acid. Mikrochimica Acta, 2021, 188, 26.	2.5	13
3	Amperometric genosensor for culture independent bacterial count. Sensors and Actuators B: Chemical, 2019, 299, 126944.	4.0	8
4	Bugs as Cancer Drugs: Challenges and Opportunities. Molecular and Cellular Biology, 2019, 39, .	1.1	0
5	Self-Assembled DNA-THPS Hydrogel as a Topical Antibacterial Agent for Wound Healing. ACS Applied Bio Materials, 2019, 2, 1262-1269.	2.3	25
6	Polycytosine DNA Electric-Current-Generated Immunosensor for Electrochemical Detection of Human Epidermal Growth Factor Receptor 2 (HER2). Analytical Chemistry, 2018, 90, 4764-4769.	3.2	86
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	Dual function hollow structured mesoporous Prussian blue mesocrystals for glucose biosensors. Analytical Methods, 2018, 10, 3951-3957.	1.3	13
9	DNA Generated Electric Current Biosensor. Analytical Chemistry, 2017, 89, 2547-2552.	3.2	57
10	A computational streak mode cytometry biosensor for rare cell analysis. Analyst, The, 2017, 142, 641-648.	1.7	4
11	Low-Cost Charged-Coupled Device (CCD) Based Detectors for Shiga Toxins Activity Analysis. Methods in Molecular Biology, 2017, 1571, 233-249.	0.4	0
12	Streak Imaging Flow Cytometer for Rare Cell Analysis. Methods in Molecular Biology, 2017, 1571, 267-286.	0.4	1
13	Self-Assembled DNA Generated Electric Current Biosensor for HER2 Analysis. Analytical Chemistry, 2017, 89, 10264-10269.	3.2	65
14	Evaluation of a Methodology for Automated Cell Counting for Streak Mode Imaging Flow Cytometry. Journal of Analytical & Bioanalytical Techniques, 2017, 08, .	0.6	0
15	Improving the Sensitivity and Functionality of Mobile Webcam-Based Fluorescence Detectors for Point-of-Care Diagnostics in Global Health. Diagnostics, 2016, 6, 19.	1.3	14
16	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
17	Dual Signal Amplification Electrochemical Biosensor for Monitoring the Activity and Inhibition of the Alzheimerâ€™s Related Protease Î²-Secretase. Analytical Chemistry, 2016, 88, 10559-10565.	3.2	68
18	Fluorescent turn-on determination of the activity of peptidases using peptide templated gold nanoclusters. Mikrochimica Acta, 2016, 183, 605-610.	2.5	33

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19	Cancer: a global concern that demands new detection technologies. Analyst, The, 2016, 141, 367-370.	1.7	9
20	Sensitive detection of active Shiga toxin using low cost CCD based optical detector. Biosensors and Bioelectronics, 2015, 68, 705-711.	5.3	9
21	Mobile Health Technologies. Methods in Molecular Biology, 2015, 1256, v-vi.	0.4	8
22	Cell streak imaging cytometry for rare cell detection. Biosensors and Bioelectronics, 2015, 64, 154-160.	5.3	13
23	Mobile Flow Cytometer for mHealth. Methods in Molecular Biology, 2015, 1256, 139-153.	0.4	4
24	Smartphone-Based Fluorescence Detector for mHealth. Methods in Molecular Biology, 2015, 1256, 231-245.	0.4	6
25	Two-Layer Lab-on-a-Chip (LOC) with Passive Capillary Valves for mHealth Medical Diagnostics. Methods in Molecular Biology, 2015, 1256, 247-258.	0.4	3
26	Thousand-fold fluorescent signal amplification for mHealth diagnostics. Biosensors and Bioelectronics, 2014, 51, 1-7.	5.3	24
27	Electrochemical Biosensing Platform Using Hydrogel Prepared from Ferrocene Modified Amino Acid as Highly Efficient Immobilization Matrix. Analytical Chemistry, 2014, 86, 973-976.	3.2	80
28	Webcam-based flow cytometer using wide-field imaging for low cell number detection at high throughput. Analyst, The, 2014, 139, 4322-4329.	1.7	13
29	Charged-Coupled Device (CCD) Detectors for Lab-on-a Chip (LOC) Optical Analysis. Methods in Molecular Biology, 2013, 949, 365-385.	0.4	7
30	Orthographic projection capillary array fluorescent sensor for mHealth. Methods, 2013, 63, 276-281.	1.9	6
31	Capillary array waveguide amplified fluorescence detector for mHealth. Sensors and Actuators B: Chemical, 2013, 186, 711-717.	4.0	20
32	Electrical percolation based biosensors. Methods, 2013, 63, 282-289.	1.9	16
33	Low-cost technologies for medical diagnostics in low-resource settings. Expert Opinion on Medical Diagnostics, 2013, 7, 243-255.	1.6	41
34	An ELISA Lab-on-a-Chip (ELISA-LOC). Methods in Molecular Biology, 2013, 949, 451-471.	0.4	22
35	Cancer and the Use of Biosensors for Cancer Clinical Testing. Series in Sensors, 2012, , 3-40.	0.0	1
36	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

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37	Modeling and design of micromachined optical SÃ¶ller collimators for lensless CCD-based fluorometry. Analyst, The, 2012, 137, 5011.	1.7	14
38	Lensless CCD-based fluorometer using a micromachined optical SÃ¶ller collimator. Lab on A Chip, 2011, 11, 941.	3.1	37
39	Oligonucleotide Microarrays for Identification of Microbial Pathogens and Detection of Their Virulence-Associated or Drug-Resistance Determinants. Methods in Molecular Biology, 2011, 671, 55-94.	0.4	10
40	Study of the biouptake of labeled single-walled carbon nanotubes using fluorescence-based method. Environmental Chemistry Letters, 2011, 9, 235-241.	8.3	14
41	An automated point-of-care system for immunodetection of staphylococcal enterotoxin B. Analytical Biochemistry, 2011, 416, 74-81.	1.1	43
42	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
43	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
44	Electrical percolation-based biosensor for real-time direct detection of staphylococcal enterotoxin B (SEB). Biosensors and Bioelectronics, 2010, 25, 2573-2578.	5.3	25
45	Biological Semiconductor Based on Electrical Percolation. Analytical Chemistry, 2010, 82, 3567-3572.	3.2	12
46	Lab-on-a-chip for carbon nanotubes based immunoassay detection of Staphylococcal Enterotoxin B (SEB). Lab on A Chip, 2010, 10, 1011.	3.1	68
47	ELISA-LOC: lab-on-a-chip for enzyme-linked immunodetection. Lab on A Chip, 2010, 10, 2093.	3.1	116
48	Lab-on-a-chip for label free biological semiconductor analysis of Staphylococcal Enterotoxin B. Lab on A Chip, 2010, 10, 2534.	3.1	13
49	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
50	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
51	Miniaturized 96-well ELISA chips for staphylococcal enterotoxin B detection using portable colorimetric detector. Analytical and Bioanalytical Chemistry, 2009, 394, 499-505.	1.9	57
52	Lab-on-a-chip for botulinum neurotoxin a (BoNT-A) activity analysis. Lab on A Chip, 2009, 9, 3275.	3.1	55
53	Biosensors and Biodetection. Methods in Molecular Biology, 2009, 503, v-ix.	0.4	16
54	Energy transfer-based biosensing of protease activity measured using an electroluminescent platform. Proceedings of SPIE, 2009, , .	0.8	0

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55	A Simple Portable Electroluminescence Illumination-Based CCD Detector. Methods in Molecular Biology, 2009, 503, 259-272.	0.4	18
56	Rapid DNA Amplification Using a Battery-Powered Thin-Film Resistive Thermocycler. Methods in Molecular Biology, 2009, 504, 441-458.	0.4	10
57	A fluorescence detection platform using spatial electroluminescent excitation for measuring botulinum neurotoxin A activity. Biosensors and Bioelectronics, 2008, 24, 618-625.	5.3	58
58	Carbon nanotubes based optical immunodetection of Staphylococcal Enterotoxin B (SEB) in food. International Journal of Food Microbiology, 2008, 127, 78-83.	2.1	58
59	Food Microbial Pathogen Detection and Analysis Using DNA Microarray Technologies. Foodborne Pathogens and Disease, 2008, 5, 531-550.	0.8	88
60	Carbon Nanotubes with Enhanced Chemiluminescence Immunoassay for CCD-Based Detection of Staphylococcal Enterotoxin B in Food. Analytical Chemistry, 2008, 80, 8532-8537.	3.2	82
61	Microarray analysis of Bacillus cereus group virulence factors. Journal of Microbiological Methods, 2006, 65, 488-502.	0.7	71
62	Biosensors for the Analysis of Food- and Waterborne Pathogens and Their Toxins. Journal of AOAC INTERNATIONAL, 2006, 89, 873-883.	0.7	115
63	Double-stranded origin nicking and replication initiation are coupled in the replication of a rolling circle plasmid, pT181. FEMS Microbiology Letters, 2006, 151, 185-189.	0.7	1
64	Development of biosensors for cancer clinical testing. Biosensors and Bioelectronics, 2006, 21, 1851-1858.	5.3	171
65	Moving biosensors to point-of-care cancer diagnostics. Biosensors and Bioelectronics, 2006, 21, 1847-1850.	5.3	31
66	Biosensors for the analysis of food- and waterborne pathogens and their toxins. Journal of AOAC INTERNATIONAL, 2006, 89, 873-83.	0.7	26
67	Multipathogen oligonucleotide microarray for environmental and biodefense applications. Biosensors and Bioelectronics, 2004, 20, 684-698.	5.3	125
68	Detection ofCampylobacterandShigellaSpecies in Food Samples Using an Array Biosensor. Analytical Chemistry, 2004, 76, 433-440.	3.2	98
69	Simultaneous Analysis of Multiple Staphylococcal Enterotoxin Genes by an Oligonucleotide Microarray Assay. Journal of Clinical Microbiology, 2004, 42, 2134-2143.	1.8	98
70	Identification of Bacillus anthracis by multiprobe microarray hybridization. Diagnostic Microbiology and Infectious Disease, 2004, 49, 163-171.	0.8	44
71	Microarray-BasedIdentification of Thermophilic Campylobacter jejuni , C.coli , C. lari , and C.upsaliensis. Journal of Clinical Microbiology, 2003, 41, 4071-4080.	1.8	101
72	Oligo Design: a computer program for development of probes for oligonucleotide microarrays. BioTechniques, 2003, 35, 1216-1221.	0.8	25

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73	Identification of Listeria Species by Microarray-Based Assay. Journal of Clinical Microbiology, 2002, 40, 4720-4728.	1.8	208
74	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
75	DNA Microarray Technology Used for Studying Foodborne Pathogens and Microbial Habitats: Minireview. Journal of AOAC INTERNATIONAL, 2002, 85, 906-910.	0.7	58
76	Staphylococcus aureus Growth and Enterotoxin A Production in an Anaerobic Environment. Journal of Food Protection, 2002, 65, 199-204.	0.8	43
77	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
78	DNA microarray technology used for studying foodborne pathogens and microbial habitats: minireview. Journal of AOAC INTERNATIONAL, 2002, 85, 906-10.	0.7	8
79	Surface Plasmon Resonance Analysis of Staphylococcal Enterotoxin B in Food. Journal of Food Protection, 2001, 64, 37-43.	0.8	98
80	Analytical chromatography for recovery of small amounts of staphylococcal enterotoxins from food. International Journal of Food Microbiology, 2001, 64, 33-40.	2.1	64
81	Microarray Analysis of Microbial Virulence Factors. Applied and Environmental Microbiology, 2001, 67, 3258-3263.	1.4	255
82	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
83	Staphylococcal enterotoxins. International Journal of Food Microbiology, 2000, 61, 1-10.	2.1	694
84	Detection and Analysis of Animal Materials in Food and Feed. Journal of Food Protection, 2000, 63, 1602-1609.	0.8	57
85	Real time biosensor analysis of Staphylococcal enterotoxin A in food. International Journal of Food Microbiology, 1999, 49, 119-127.	2.1	64
86	Detection and analysis of Staphylococcal enterotoxin A in food by Western immunoblotting. International Journal of Food Microbiology, 1998, 41, 205-212.	2.1	44
87	Autoinducer of Virulence As a Target for Vaccine and Therapy Against Staphylococcus aureus. Science, 1998, 280, 438-440.	6.0	220
88	How rolling circle plasmids control their copy number. Trends in Microbiology, 1997, 5, 440-446.	3.5	16
89	Modification of the plasmid initiator protein RepC active site during replication. FEMS Microbiology Letters, 1996, 145, 245-253.	0.7	5
90	Electrophoretic karyotyping of the lignin-degrading basidiomycete Phanerochaete chrysosporium. Molecular Microbiology, 1993, 8, 803-807.	1.2	15

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91	Epistasis of rj1 Nonnodulation of Soybean to Nodulation by Sinorhizobium fredii. Crop Science, 1993, 33, 329.	0.8	2