

Arun Bhunia

List of Publications by Year in descending order

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231
papers

9,848
citations

31902

53
h-index

51492

86
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241
all docs

241
docs citations

241
times ranked

8628
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell-Based Biosensor for Rapid Screening of Pathogens and Toxins. , 2022, , 929-944.		0
2	Alginate-based antimicrobial coating reduces pathogens on alfalfa seeds and sprouts. Food Microbiology, 2022, 103, 103954.	2.1	11
3	Inactivation of Polymicrobial Biofilms of Foodborne Pathogens Using Epsilon Poly-L-Lysin Conjugated Chitosan Nanoparticles. Foods, 2022, 11, 569.	1.9	6
4	Listeria adhesion protein-expressing bioengineered probiotics prevent fetoplacental transmission of Listeria monocytogenes in a pregnant Guinea pig model. Microbial Pathogenesis, 2021, 151, 104752.	1.3	5
5	Biofilm-isolated Listeria monocytogenes exhibits reduced systemic dissemination at the early (12â€“24â€“h) stage of infection in a mouse model. Npj Biofilms and Microbiomes, 2021, 7, 18.	2.9	21
6	Current State of Development of Biosensors and Their Application in Foodborne Pathogen Detection. Journal of Food Protection, 2021, 84, 1213-1227.	0.8	18
7	Effects of fulvic acid size on microcystin-LR photodegradation and detoxification in the chlorine/UV process. Water Research, 2021, 193, 116893.	5.3	13
8	<i>Listeria monocytogenes</i>: review of pathogenesis and virulence determinants-targeted immunological assays. Critical Reviews in Microbiology, 2021, 47, 647-666.	2.7	24
9	Antibody- and nucleic acidâ€“based lateral flow immunoassay for Listeria monocytogenes detection. Analytical and Bioanalytical Chemistry, 2021, 413, 4161-4180.	1.9	15
10	Cold Denaturation of Proteins: Where Bioinformatics Meets Thermodynamics to Offer a Mechanistic Understanding: Pea Protein As a Case Study. Journal of Agricultural and Food Chemistry, 2021, 69, 6339-6350.	2.4	17
11	Validation of Bioinformatic Modeling for the Zeta Potential of Vicilin, Legumin, and Commercial Pea Protein Isolate. Food Biophysics, 2021, 16, 474-483.	1.4	15
12	Bacterial Biofilms and Their Implications in Pathogenesis and Food Safety. Foods, 2021, 10, 2117.	1.9	69
13	Biosensor and molecular-based methods for the detection of human coronaviruses: A review. Molecular and Cellular Probes, 2020, 54, 101662.	0.9	40
14	Mammalian Cell-Based Immunoassay for Detection of Viable Bacterial Pathogens. Frontiers in Microbiology, 2020, 11, 575615.	1.5	6
15	Advances in Foodborne Pathogen Analysis. Foods, 2020, 9, 1635.	1.9	3
16	Receptor-targeted engineered probiotics mitigate lethal Listeria infection. Nature Communications, 2020, 11, 6344.	5.8	45
17	Abrasive brushing reduces pathogen biofilms at cantaloupe rind surface. International Journal of Food Microbiology, 2020, 329, 108685.	2.1	4
18	Internalin AB-expressing recombinant Lactobacillus casei protects Caco-2 cells from Listeria monocytogenes-induced damages under simulated intestinal conditions. PLoS ONE, 2019, 14, e0220321.	1.1	11

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19	Animal-Use Antibiotics Induce Cross-Resistance in Bacterial Pathogens to Human Therapeutic Antibiotics. <i>Current Microbiology</i> , 2019, 76, 1112-1117.	1.0	13
20	Gold Nanostars for the Detection of Foodborne Pathogens via Surface-Enhanced Raman Scattering Combined with Microfluidics. <i>ACS Applied Nano Materials</i> , 2019, 2, 6081-6086.	2.4	47
21	Three Dimensional Vero Cell-Platform for Rapid and Sensitive Screening of Shiga-Toxin Producing <i>Escherichia coli</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 949.	1.5	18
22	Mixing dynamics and molecular interactions of HMW glutenins, LMW glutenins, and gliadins analyzed by fluorescent co-localization and protein network quantification. <i>Journal of Cereal Science</i> , 2019, 89, 102792.	1.8	28
23	<i>Lactobacillus casei</i> expressing Internalins A and B reduces <i>Listeria monocytogenes</i> interaction with Caco-2 cells <i>in vitro</i> . <i>Microbial Biotechnology</i> , 2019, 12, 715-729.	2.0	14
24	Detection of Pyocyanin Using a New Biodegradable SERS Biosensor Fabricated Using Gold Coated Zein Nanostructures Further Decorated with Gold Nanoparticles. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 4603-4610.	2.4	29
25	Simultaneous detection of <i>Salmonella enterica</i> , <i>Escherichia coli</i> and <i>Listeria monocytogenes</i> in food using a light scattering sensor. <i>Journal of Applied Microbiology</i> , 2019, 126, 1496-1507.	1.4	25
26	Simultaneous immunofluorescent imaging of gliadins, low molecular weight glutenins, and high molecular weight glutenins in wheat flour dough with antibody-quantum dot complexes. <i>Food Research International</i> , 2019, 120, 776-783.	2.9	10
27	Crossing the Intestinal Barrier via <i>Listeria</i> Adhesion Protein and Internalin A. <i>Trends in Microbiology</i> , 2019, 27, 408-425.	3.5	100
28	Conjugation of Specifically Developed Antibodies for High- and Low-Molecular-Weight Glutenins with Fluorescent Quantum Dots as a Tool for Their Detection in Wheat Flour Dough. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 4259-4266.	2.4	18
29	<i>Listeria</i> Adhesion Protein Induces Intestinal Epithelial Barrier Dysfunction for Bacterial Translocation. <i>Cell Host and Microbe</i> , 2018, 23, 470-484.e7.	5.1	156
30	Antilisterial and Antibiofilm Activities of Pediocin and LAP Functionalized Gold Nanoparticles. <i>Frontiers in Sustainable Food Systems</i> , 2018, 2, .	1.8	23
31	Food-Associated Stress Primes Foodborne Pathogens for the Gastrointestinal Phase of Infection. <i>Frontiers in Microbiology</i> , 2018, 9, 1962.	1.5	49
32	<i>Campylobacter</i> and <i>Arcobacter</i> . <i>Food Science Text Series</i> , 2018, , 289-299.	0.3	0
33	Introduction to Foodborne Pathogens. <i>Food Science Text Series</i> , 2018, , 1-23.	0.3	3
34	<i>Bacillus cereus</i> and <i>Bacillus anthracis</i> . <i>Food Science Text Series</i> , 2018, , 193-207.	0.3	5
35	Rapid detection and differentiation of <i>Staphylococcus</i> colonies using an optical scattering technology. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 5445-5454.	1.9	12
36	<i>Staphylococcus aureus</i> . <i>Food Science Text Series</i> , 2018, , 181-192.	0.3	5

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37	Foodborne Microbial Pathogens. Food Science Text Series, 2018, , .	0.3	62
38	Tunicamycin Mediated Inhibition of Wall Teichoic Acid Affects Staphylococcus aureus and Listeria monocytogenes Cell Morphology, Biofilm Formation and Virulence. Frontiers in Microbiology, 2018, 9, 1352.	1.5	60
39	Escherichia coli. Food Science Text Series, 2018, , 249-269.	0.3	6
40	Animal and Cell Culture Models to Study Foodborne Pathogens. Food Science Text Series, 2018, , 117-132.	0.3	1
41	Host Defense Against Foodborne Pathogens. Food Science Text Series, 2018, , 43-85.	0.3	0
42	Pathogen biofilm formation on cantaloupe surface and its impact on the antibacterial effect of lauroyl arginate ethyl. Food Microbiology, 2017, 64, 139-144.	2.1	28
43	Effect of physicochemical properties of peptides from soy protein on their antimicrobial activity. Peptides, 2017, 94, 10-18.	1.2	21
44	Effect of immobilization on the antimicrobial activity of a cysteine-terminated antimicrobial Peptide Cecropin P1 tethered to silica nanoparticle against E. coli O157:H7 EDL933. Colloids and Surfaces B: Biointerfaces, 2017, 156, 305-312.	2.5	18
45	Biofilm of Escherichia coli O157:H7 on cantaloupe surface is resistant to lauroyl arginate ethyl and sodium hypochlorite. International Journal of Food Microbiology, 2017, 260, 11-16.	2.1	18
46	Genome Sequence of Listeria monocytogenes Strain F4244, a 4b Serotype. Genome Announcements, 2017, 5, .	0.8	12
47	Impact of starch-based emulsions on the antibacterial efficacies of nisin and thymol in cantaloupe juice. Food Chemistry, 2017, 217, 155-162.	4.2	40
48	Development of a multispectral light scattering sensor for bacterial colonies. Journal of Biophotonics, 2017, 10, 634-644.	1.1	14
49	Mitigation of Foodborne Illnesses by Probiotics. , 2017, , 603-634.		2
50	Nisin Adsorption in Colloidal Systems Formed with Phytoglycogen Octenyl Succinate. Food Biophysics, 2016, 11, 311-318.	1.4	7
51	Optical scatter patterns facilitate rapid differentiation of <i>Enterobacteriaceae</i> on CHROMagar TM Orientation medium. Microbial Biotechnology, 2016, 9, 127-135.	2.0	9
52	Virulence Gene-Associated Mutant Bacterial Colonies Generate Differentiating Two-Dimensional Laser Scatter Fingerprints. Applied and Environmental Microbiology, 2016, 82, 3256-3268.	1.4	17
53	Delivery systems of antimicrobial compounds to food. Trends in Food Science and Technology, 2016, 57, 165-177.	7.8	71
54	Methodology for identification of pore forming antimicrobial peptides from soy protein subunits β -conglycinin and glycinin. Peptides, 2016, 85, 27-40.	1.2	37

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55	Emulsion Stabilized with Starch Octenyl Succinate Prolongs Nisin Activity Against <i>Listeria Monocytogenes</i> in a Cantaloupe Juice Model. <i>Journal of Food Science</i> , 2016, 81, M2982-M2987.	1.5	7
56	The Use of a Novel NanoLuc -Based Reporter Phage for the Detection of <i>Escherichia coli</i> O157:H7. <i>Scientific Reports</i> , 2016, 6, 33235.	1.6	50
57	Reflected scatterometry for noninvasive interrogation of bacterial colonies. <i>Journal of Biomedical Optics</i> , 2016, 21, 107004.	1.4	6
58	Characterization of antimicrobial activity against <i>Listeria</i> and cytotoxicity of native melittin and its mutant variants. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 143, 194-205.	2.5	31
59	Emulsion stabilized with phytyglycogen octenyl succinate prolongs the antimicrobial efficacy of μ -poly-l-lysine against <i>Escherichia coli</i> O157:H7. <i>LWT - Food Science and Technology</i> , 2016, 70, 245-251.	2.5	12
60	Fiber optic and light scattering sensors: Complimentary approaches to rapid detection of <i>Salmonella enterica</i> in food samples. <i>Food Control</i> , 2016, 61, 135-145.	2.8	40
61	Fructose 1,6-Bisphosphate Aldolase, a Novel Immunogenic Surface Protein on <i>Listeria</i> Species. <i>PLoS ONE</i> , 2016, 11, e0160544.	1.1	24
62	Development of a multi-pathogen enrichment broth for simultaneous growth of five common foodborne pathogens. <i>Journal of General and Applied Microbiology</i> , 2015, 61, 224-231.	0.4	7
63	Novel PCR Assays Complement Laser Biosensor-Based Method and Facilitate <i>Listeria</i> Species Detection from Food. <i>Sensors</i> , 2015, 15, 22672-22691.	2.1	17
64	High throughput screening strategies and technology platforms for detection of pathogens. , 2015, , 1-9.		2
65	Label-free, non-invasive light scattering sensor for rapid screening of <i>Bacillus</i> colonies. <i>Journal of Microbiological Methods</i> , 2015, 109, 56-66.	0.7	23
66	Probing the distribution of gliadin proteins in dough and baked bread using conjugated quantum dots as a labeling tool. <i>Journal of Cereal Science</i> , 2015, 63, 41-48.	1.8	19
67	Pathogen enrichment device (PED) enables one-step growth, enrichment and separation of pathogen from food matrices for detection using bioanalytical platforms. <i>Journal of Microbiological Methods</i> , 2015, 117, 64-73.	0.7	21
68	Rapid pathogen detection by lateral-flow immunochromatographic assay with gold nanoparticle-assisted enzyme signal amplification. <i>International Journal of Food Microbiology</i> , 2015, 206, 60-66.	2.1	95
69	Monitoring <i>Campylobacter</i> in the poultry production chain " From culture to genes and beyond. <i>Journal of Microbiological Methods</i> , 2015, 112, 118-125.	0.7	30
70	Scalar diffraction modeling of multispectral forward scatter patterns from bacterial colonies. <i>Optics Express</i> , 2015, 23, 8545.	1.7	11
71	Deoxynivalenol-mimic nanobody isolated from a naïve phage display nanobody library and its application in immunoassay. <i>Analytica Chimica Acta</i> , 2015, 887, 201-208.	2.6	51
72	Fiber-optic sensors for high throughput screening of pathogens. , 2015, , 249-262.		4

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73	Rapid identification and classification of <i>Campylobacter</i> spp. using laser optical scattering technology. <i>Food Microbiology</i> , 2015, 47, 28-35.	2.1	24
74	Label-free light-scattering sensors for high throughput screening of microbes in food. , 2015, , 149-163.		0
75	Streptomycin Induced Stress Response in <i>Salmonella enterica</i> Serovar Typhimurium Shows Distinct Colony Scatter Signature. <i>PLoS ONE</i> , 2015, 10, e0135035.	1.1	22
76	Light Scattering Sensor for Direct Identification of Colonies of <i>Escherichia coli</i> Serogroups O26, O45, O103, O111, O121, O145 and O157. <i>PLoS ONE</i> , 2014, 9, e105272.	1.1	46
77	Laser-induced speckle scatter patterns in <i>Bacillus</i> colonies. <i>Frontiers in Microbiology</i> , 2014, 5, 537.	1.5	15
78	Laser Optical Sensor, a Label-Free On-Plate <i>Salmonella enterica</i> Colony Detection Tool. <i>MBio</i> , 2014, 5, e01019-13.	1.8	48
79	One day to one hour: how quickly can foodborne pathogens be detected?. <i>Future Microbiology</i> , 2014, 9, 935-946.	1.0	94
80	Nano/Micro and Spectroscopic Approaches to Food Pathogen Detection. <i>Annual Review of Analytical Chemistry</i> , 2014, 7, 65-88.	2.8	42
81	Understanding the multispectral forward scatter patterns by diffraction theory. , 2014, , .		0
82	Experimental verification of multispectral forward scatter phenotyping from bacterial colonies. , 2014, , .		0
83	Secreted <i>Listeria</i> adhesion protein (Lap) influences Lap-mediated <i>Listeria monocytogenes</i> paracellular translocation through epithelial barrier. <i>Gut Pathogens</i> , 2013, 5, 16.	1.6	28
84	Classification of Bacterial Contamination Using Image Processing and Distributed Computing. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2013, 17, 232-239.	3.9	35
85	Multiplex fiber optic biosensor for detection of <i>Listeria monocytogenes</i> , <i>Escherichia coli</i> O157:H7 and <i>Salmonella enterica</i> from ready-to-eat meat samples. <i>Food Microbiology</i> , 2013, 33, 166-171.	2.1	114
86	Rapid Sample Processing for Detection of Food-Borne Pathogens via Cross-Flow Microfiltration. <i>Applied and Environmental Microbiology</i> , 2013, 79, 7048-7054.	1.4	46
87	Development of an integrated optical analyzer for characterization of growth dynamics of bacterial colonies. <i>Journal of Biophotonics</i> , 2013, 6, 929-937.	1.1	13
88	Bioengineered probiotics, a strategic approach to control enteric infections. <i>Bioengineered</i> , 2013, 4, 379-387.	1.4	54
89	Advances in Molecular Diagnostics. <i>BioMed Research International</i> , 2013, 2013, 1-2.	0.9	0
90	<i>Listeria monocytogenes</i> and Host Hsp60 – An Invasive Pairing. <i>Heat Shock Proteins</i> , 2013, , 267-282.	0.2	4

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91	Development of a microbial high-throughput screening instrument based on elastic light scatter patterns. Review of Scientific Instruments, 2012, 83, 044304.	0.6	9
92	Modern Approaches in Probiotics Research to Control Foodborne Pathogens. Advances in Food and Nutrition Research, 2012, 67, 185-239.	1.5	39
93	Mixed culture enrichment of Escherichia coli O157:H7, Listeria monocytogenes, Salmonella enterica, and Yersinia enterocolitica. Food Control, 2012, 26, 269-273.	2.8	15
94	Highly specific fiber optic immunosensor coupled with immunomagnetic separation for detection of low levels of Listeria monocytogenes and L. ivanovii. BMC Microbiology, 2012, 12, 275.	1.3	52
95	Light scattering sensor for real-time identification of <i>Vibrio parahaemolyticus</i> , <i>Vibrio vulnificus</i> and <i>Vibrio cholerae</i> colonies on solid agar plate. Microbial Biotechnology, 2012, 5, 607-620.	2.0	48
96	Recombinant Probiotic Expressing Listeria Adhesion Protein Attenuates Listeria monocytogenes Virulence In Vitro. PLoS ONE, 2012, 7, e29277.	1.1	82
97	Bioengineered Probiotics – A Solution to Broaden Probiotics Efficacy!. Journal of Nutrition & Food Sciences, 2012, 02, .	1.0	5
98	Effects of Preparation and Storage of Agar Media on the Sensitivity of Bacterial Forward Scattering Patterns. Open Journal of Applied Biosensor, 2012, 01, 26-35.	1.6	3
99	Modeling of Multi-spectral Forward Light Scattering Patterns from Bacterial Colonies. , 2012, , .		0
100	A distributed national network for label-free rapid identification of emerging pathogens. , 2011, , .		1
101	Genetic organization and molecular characterization of secA2 locus in Listeria species. Gene, 2011, 489, 76-85.	1.0	22
102	Using Scattering to Identify Bacterial Pathogens. Optics and Photonics News, 2011, 22, 20.	0.4	6
103	Characterization of optical properties of bacterial micro-colonies via the comprehensive morphology analyzer. , 2011, , .		0
104	Effect of sublethal heat stress on Salmonella Typhimurium virulence. Journal of Applied Microbiology, 2011, 110, 813-822.	1.4	71
105	Human heat-shock protein 60 receptor-coated paramagnetic beads show improved capture of Listeria monocytogenes in the presence of other Listeria in food. Journal of Applied Microbiology, 2011, 111, 93-104.	1.4	21
106	Designing carbohydrate nanoparticles for prolonged efficacy of antimicrobial peptide. Journal of Controlled Release, 2011, 150, 150-156.	4.8	126
107	Electrical detection of dsDNA and polymerase chain reaction amplification. Biomedical Microdevices, 2011, 13, 973-982.	1.4	25
108	Characterization of surface proteins of Cronobacter muytjensii using monoclonal antibodies and MALDI-TOF Mass spectrometry. BMC Microbiology, 2011, 11, 148.	1.3	13

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109	On the sensitivity of forward scattering patterns from bacterial colonies to media composition. <i>Journal of Biophotonics</i> , 2011, 4, 236-243.	1.1	29
110	Label-free identification of bacterial microcolonies via elastic scattering. <i>Biotechnology and Bioengineering</i> , 2011, 108, 637-644.	1.7	29
111	Carbohydrate nanoparticle-mediated colloidal assembly for prolonged efficacy of bacteriocin against food pathogen. <i>Biotechnology and Bioengineering</i> , 2011, 108, 1529-1536.	1.7	38
112	Digital microbiology: detection and classification of unknown bacterial pathogens using a label-free laser light scatter-sensing system. , 2011, , .		0
113	N-Terminal Gly224-Gly411 Domain in <i>Listeria</i> Adhesion Protein Interacts with Host Receptor Hsp60. <i>PLoS ONE</i> , 2011, 6, e20694.	1.1	36
114	Discovering the unknown: Detection of emerging pathogens using a label-free light scattering system. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2010, 77A, 1103-1112.	1.1	37
115	Cell-based biosensor for rapid screening of pathogens and toxins. <i>Biosensors and Bioelectronics</i> , 2010, 26, 99-106.	5.3	86
116	A machine-learning approach to detecting unknown bacterial serovars. <i>Statistical Analysis and Data Mining</i> , 2010, 3, 289-301.	1.4	11
117	Antibody-aptamer functionalized fibre-optic biosensor for specific detection of <i>Listeria monocytogenes</i> from food. <i>Journal of Applied Microbiology</i> , 2010, 109, 808-817.	1.4	142
118	Modeling light propagation through bacterial colonies and its correlation with forward scattering patterns. <i>Journal of Biomedical Optics</i> , 2010, 15, 045001.	1.4	35
119	LAP, an alcohol acetaldehyde dehydrogenase enzyme in <i>Listeria</i> , promotes bacterial adhesion to enterocyte-like Caco-2 cells only in pathogenic species. <i>Microbiology (United Kingdom)</i> , 2010, 156, 2782-2795.	0.7	100
120	Characterization of <i>Listeria monocytogenes</i> isolates of food and human origins from Brazil using molecular typing procedures and in vitro cell culture assays. <i>International Journal of Environmental Health Research</i> , 2010, 20, 43-59.	1.3	25
121	<i>Listeria monocytogenes</i> Uses <i>Listeria</i> Adhesion Protein (LAP) To Promote Bacterial Transepithelial Translocation and Induces Expression of LAP Receptor Hsp60. <i>Infection and Immunity</i> , 2010, 78, 5062-5073.	1.0	95
122	Mammalian Cell-Based Sensor System. , 2010, 117, 21-55.		15
123	Morphology Characterization of Bacterial Colonies for Predicting Forward Scattering Patterns. , 2010, , .		0
124	Evanescence Wave Fiber Optic Biosensor for <i>Salmonella</i> Detection in Food. <i>Sensors</i> , 2009, 9, 5810-5824.	2.1	70
125	Learning with a non-exhaustive training dataset. , 2009, , .		5
126	System automation for a bacterial colony detection and identification instrument via forward scattering. <i>Measurement Science and Technology</i> , 2009, 20, 015802.	1.4	23

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127	Morphotypic analysis and classification of bacteria and bacterial colonies using laser light-scattering, pattern recognition, and machine-learning system. , 2009, , .		0
128	Mammalian cell-based biosensors for pathogens and toxins. Trends in Biotechnology, 2009, 27, 179-188.	4.9	155
129	Label-free detection of multiple bacterial pathogens using light-scattering sensor. Biosensors and Bioelectronics, 2009, 24, 1685-1692.	5.3	134
130	Salmonella enterica serovar Typhimurium adhesion and cytotoxicity during epithelial cell stress is reduced by Lactobacillus rhamnosus GG. Gut Pathogens, 2009, 1, 14.	1.6	42
131	Lactobacillus delbrueckii ssp. bulgaricus B-30892 can inhibit cytotoxic effects and adhesion of pathogenic Clostridium difficile to Caco-2 cells. Gut Pathogens, 2009, 1, 8.	1.6	82
132	Expression of LAP, a SecA2-dependent secretory protein, is induced under anaerobic environment. Microbes and Infection, 2009, 11, 859-867.	1.0	86
133	Targeted Capture of Pathogenic Bacteria Using a Mammalian Cell Receptor Coupled with Dielectrophoresis on a Biochip. Analytical Chemistry, 2009, 81, 3094-3101.	3.2	70
134	Non-exhaustive Learning for Bacteria Detection. , 2009, , .		0
135	Prediction of the light scattering patterns from bacteria colonies by a time-resolved reaction-diffusion model and the scalar diffraction theory. , 2009, , .		2
136	Development of a real-time system of monitoring bacterial colony growth and registering the forward-scattering pattern. Proceedings of SPIE, 2009, , .	0.8	1
137	Quantification of bacterial cells based on autofluorescence on a microfluidic platform. Journal of Chromatography A, 2008, 1181, 153-158.	1.8	42
138	Antibodies and Immunoassays for Detection of Bacterial Pathogens. , 2008, , 567-602.		40
139	A novel and simple cell-based detection system with a collagen-encapsulated B-lymphocyte cell line as a biosensor for rapid detection of pathogens and toxins. Laboratory Investigation, 2008, 88, 196-206.	1.7	99
140	Differential expression of InlB and ActA in Listeria monocytogenes in selective and nonselective enrichment broths. Journal of Applied Microbiology, 2008, 104, 627-639.	1.4	34
141	Biosensors and Bio-Based Methods for the Separation and Detection of Foodborne Pathogens. Advances in Food and Nutrition Research, 2008, 54, 1-44.	1.5	107
142	Effects of Dielectrophoresis on Growth, Viability and Immuno-reactivity of Listeria monocytogenes. Journal of Biological Engineering, 2008, 2, 6.	2.0	41
143	WST-1-based cell cytotoxicity assay as a substitute for MTT-based assay for rapid detection of toxigenic Bacillus species using CHO cell line. Journal of Microbiological Methods, 2008, 73, 211-215.	0.7	207
144	PCR-based detection in a micro-fabricated platform. Lab on A Chip, 2008, 8, 1130.	3.1	44

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145	SEL, a Selective Enrichment Broth for Simultaneous Growth of Salmonella enterica , Escherichia coli O157:H7, and Listeria monocytogenes. Applied and Environmental Microbiology, 2008, 74, 4853-4866.	1.4	97
146	Development and optimization of two-dimensional centering algorithm for bacterial rapid detection system using forward scattering. , 2008, , .		0
147	Analysis of time-resolved scattering from macroscale bacterial colonies. Journal of Biomedical Optics, 2008, 13, 014010.	1.4	24
148	Phenotypic analysis of bacterial colonies using laser light scatter and pattern-recognition techniques. , 2008, , .		1
149	Label free detection of PCR amplification. , 2008, , .		0
150	Electrical characterization of DNA molecules in solution using impedance measurements. Applied Physics Letters, 2008, 92, .	1.5	49
151	Noninvasive forward-scattering system for rapid detection, characterization, and identification of bacterial colonies. , 2007, , .		0
152	Quantification of morphology of bacterial colonies using laser scatter measurements and solid element optical modeling. , 2007, , .		1
153	Biophysical modeling of forward scattering from bacterial colonies using scalar diffraction theory. Applied Optics, 2007, 46, 3639.	2.1	55
154	Rapid Detection and Classification of Bacterial Contamination Using Grid Computing. , 2007, , .		1
155	Rapid Electrical Lysis of Bacterial Cells in a Microfluidic Device. Methods in Molecular Biology, 2007, 385, 23-35.	0.4	7
156	Optical forward-scattering for detection of Listeria monocytogenes and other Listeria species. Biosensors and Bioelectronics, 2007, 22, 1664-1671.	5.3	125
157	Bacteria-mediated delivery of nanoparticles and cargo into cells. Nature Nanotechnology, 2007, 2, 441-449.	15.6	305
158	LIGHT SCATTERING, FIBER OPTIC- AND CELL-BASED SENSORS FOR SENSITIVE DETECTION OF FOODBORNE PATHOGENS. Journal of Rapid Methods and Automation in Microbiology, 2007, 15, 121-145.	0.4	32
159	Hybridoma Ped-2E9 cells cultured under modified conditions can sensitively detect Listeria monocytogenes and Bacillus cereus. Applied Microbiology and Biotechnology, 2007, 73, 1423-1434.	1.7	19
160	The 2-Cys Peroxiredoxin-Deficient Listeria monocytogenes Displays Impaired Growth and Survival in the Presence of Hydrogen Peroxide In Vitro But Not in Mouse Organs. Current Microbiology, 2007, 54, 382-387.	1.0	12
161	SPR biosensor for the detection of L. monocytogenes using phage-displayed antibody. Biosensors and Bioelectronics, 2007, 23, 248-252.	5.3	129
162	Liposome-Doped Nanocomposites as Artificial-Cell-Based Biosensors: Detection of Listeriolysin O. Biotechnology Progress, 2006, 22, 32-37.	1.3	41

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163	A multifunctional micro-fluidic system for dielectrophoretic concentration coupled with immuno-capture of low numbers of <i>Listeria monocytogenes</i> . <i>Lab on A Chip</i> , 2006, 6, 896.	3.1	119
164	Antibody Microarray Detection of <i>Escherichia coli</i> O157:H7: Quantification, Assay Limitations, and Capture Efficiency. <i>Analytical Chemistry</i> , 2006, 78, 6601-6607.	3.2	56
165	Selective Enrichment Media Affect the Antibody-Based Detection of Stress-Exposed <i>Listeria monocytogenes</i> due to Differential Expression of Antibody-Reactive Antigens Identified by Protein Sequencing. <i>Journal of Food Protection</i> , 2006, 69, 1879-1886.	0.8	37
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