

Arun Bhunia

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

217
papers

7,752
citations

49
h-index

78
g-index

241
ext. papers

8,748
ext. citations

5
avg, IF

6.26
L-index

#	Paper	IF	Citations
217	Alginate-based antimicrobial coating reduces pathogens on alfalfa seeds and sprouts.. <i>Food Microbiology</i> , 2022 , 103, 103954	6	3
216	Cell-Based Biosensor for Rapid Screening of Pathogens and Toxins 2022 , 929-944		
215	Inactivation of Polymicrobial Biofilms of Foodborne Pathogens Using Epsilon Poly-L-Lysin Conjugated Chitosan Nanoparticles.. <i>Foods</i> , 2022 , 11,	4.9	3
214	Current State of Development of Biosensors and Their Application in Foodborne Pathogen Detection. <i>Journal of Food Protection</i> , 2021 , 84, 1213-1227	2.5	3
213	Effects of fulvic acid size on microcystin-LR photodegradation and detoxification in the chlorine/UV process. <i>Water Research</i> , 2021 , 193, 116893	12.5	3
212	: review of pathogenesis and virulence determinants-targeted immunological assays. <i>Critical Reviews in Microbiology</i> , 2021 , 47, 647-666	7.8	5
211	Antibody- and nucleic acid-based lateral flow immunoassay for <i>Listeria monocytogenes</i> detection. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 4161-4180	4.4	1
210	Cold Denaturation of Proteins: Where Bioinformatics Meets Thermodynamics to Offer a Mechanistic Understanding: Pea Protein As a Case Study. <i>Journal of Agricultural and Food Chemistry</i> , 2021 , 69, 6339-6350	5.7	3
209	<i>Listeria</i> adhesion protein-expressing bioengineered probiotics prevent fetoplacental transmission of <i>Listeria monocytogenes</i> in a pregnant Guinea pig model. <i>Microbial Pathogenesis</i> , 2021 , 151, 104752	3.8	2
208	Biofilm-isolated <i>Listeria monocytogenes</i> exhibits reduced systemic dissemination at the early (12-24 h) stage of infection in a mouse model. <i>Npj Biofilms and Microbiomes</i> , 2021 , 7, 18	8.2	8
207	Validation of Bioinformatic Modeling for the Zeta Potential of Vicilin, Legumin, and Commercial Pea Protein Isolate. <i>Food Biophysics</i> , 2021 , 16, 474	3.2	2
206	Bacterial Biofilms and Their Implications in Pathogenesis and Food Safety. <i>Foods</i> , 2021 , 10,	4.9	19
205	Receptor-targeted engineered probiotics mitigate lethal <i>Listeria</i> infection. <i>Nature Communications</i> , 2020 , 11, 6344	17.4	19
204	Cell-Based Biosensor for Rapid Screening of Pathogens and Toxins 2020 , 1-16		2
203	Abrasive brushing reduces pathogen biofilms at cantaloupe rind surface. <i>International Journal of Food Microbiology</i> , 2020 , 329, 108685	5.8	1
202	Biosensor and molecular-based methods for the detection of human coronaviruses: A review. <i>Molecular and Cellular Probes</i> , 2020 , 54, 101662	3.3	22
201	Mammalian Cell-Based Immunoassay for Detection of Viable Bacterial Pathogens. <i>Frontiers in Microbiology</i> , 2020 , 11, 575615	5.7	2

200	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	5.6	31
199	Three Dimensional Vero Cell-Platform for Rapid and Sensitive Screening of Shiga-Toxin Producing. <i>Frontiers in Microbiology</i> , 2019 , 10, 949	5.7	9
198	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	3.8	20
197	Lactobacillus casei expressing Internalins A and B reduces Listeria monocytogenes interaction with Caco-2 cells in vitro. <i>Microbial Biotechnology</i> , 2019 , 12, 715-729	6.3	9
196	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	5.7	18
195	Internalin AB-expressing recombinant Lactobacillus casei protects Caco-2 cells from Listeria monocytogenes-induced damages under simulated intestinal conditions. <i>PLoS ONE</i> , 2019 , 14, e0220321	3.7	9
194	Animal-Use Antibiotics Induce Cross-Resistance in Bacterial Pathogens to Human Therapeutic Antibiotics. <i>Current Microbiology</i> , 2019 , 76, 1112-1117	2.4	3
193	Simultaneous detection of Salmonella enterica, Escherichia coli and Listeria monocytogenes in food using a light scattering sensor. <i>Journal of Applied Microbiology</i> , 2019 , 126, 1496-1507	4.7	16
192	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	7	8
191	Crossing the Intestinal Barrier via Listeria Adhesion Protein and Internalin A. <i>Trends in Microbiology</i> , 2019 , 27, 408-425	12.4	57
190	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	5.7	14
189	Listeria Adhesion Protein Induces Intestinal Epithelial Barrier Dysfunction for Bacterial Translocation. <i>Cell Host and Microbe</i> , 2018 , 23, 470-484.e7	23.4	72
188	Tunicamycin Mediated Inhibition of Wall Teichoic Acid Affects and Cell Morphology, Biofilm Formation and Virulence. <i>Frontiers in Microbiology</i> , 2018 , 9, 1352	5.7	36
187	Escherichia coli. <i>Food Science Text Series</i> , 2018 , 249-269	2	5
186	Optical Biosensors in Foodborne Pathogen Detection 2018 , 443-468		4
185	Host Defense Against Foodborne Pathogens. <i>Food Science Text Series</i> , 2018 , 43-85	2	
184	Listeria monocytogenes. <i>Food Science Text Series</i> , 2018 , 229-248	2	3
183	Animal and Cell Culture Models to Study Foodborne Pathogens. <i>Food Science Text Series</i> , 2018 , 117-132	2	1

182	Antilisterial and Antibiofilm Activities of Pediocin and LAP Functionalized Gold Nanoparticles. <i>Frontiers in Sustainable Food Systems</i> , 2018 , 2,	4.8	18
181	Food-Associated Stress Primes Foodborne Pathogens for the Gastrointestinal Phase of Infection. <i>Frontiers in Microbiology</i> , 2018 , 9, 1962	5.7	25
180	Campylobacter and Arcobacter. <i>Food Science Text Series</i> , 2018 , 289-299	2	
179	Introduction to Foodborne Pathogens. <i>Food Science Text Series</i> , 2018 , 1-23	2	2
178	Bacillus cereus and Bacillus anthracis. <i>Food Science Text Series</i> , 2018 , 193-207	2	2
177	Rapid detection and differentiation of Staphylococcus colonies using an optical scattering technology. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 5445-5454	4.4	9
176	Staphylococcus aureus. <i>Food Science Text Series</i> , 2018 , 181-192	2	2
175	Foodborne Microbial Pathogens. <i>Food Science Text Series</i> , 2018 ,	2	39
174	Pathogen biofilm formation on cantaloupe surface and its impact on the antibacterial effect of lauroyl arginate ethyl. <i>Food Microbiology</i> , 2017 , 64, 139-144	6	15
173	Effect of physicochemical properties of peptides from soy protein on their antimicrobial activity. <i>Peptides</i> , 2017 , 94, 10-18	3.8	11
172	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. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 156, 305-312	6	14
171	Biofilm of Escherichia coli O157:H7 on cantaloupe surface is resistant to lauroyl arginate ethyl and sodium hypochlorite. <i>International Journal of Food Microbiology</i> , 2017 , 260, 11-16	5.8	12
170	Genome Sequence of Strain F4244, a 4b Serotype. <i>Genome Announcements</i> , 2017 , 5,		7
169	Impact of starch-based emulsions on the antibacterial efficacies of nisin and thymol in cantaloupe juice. <i>Food Chemistry</i> , 2017 , 217, 155-162	8.5	32
168	Development of a multispectral light-scatter sensor for bacterial colonies. <i>Journal of Biophotonics</i> , 2017 , 10, 634-644	3.1	11
167	Mitigation of Foodborne Illnesses by Probiotics 2017 , 603-634		2
166	Methodology for identification of pore forming antimicrobial peptides from soy protein subunits β -conglycinin and glycinin. <i>Peptides</i> , 2016 , 85, 27-40	3.8	20
165	Emulsion Stabilized with Starch Octenyl Succinate Prolongs Nisin Activity Against Listeria Monocytogenes in a Cantaloupe Juice Model. <i>Journal of Food Science</i> , 2016 , 81, M2982-M2987	3.4	7

164	The Use of a Novel NanoLuc -Based Reporter Phage for the Detection of Escherichia coli O157:H7. <i>Scientific Reports</i> , 2016 , 6, 33235	4.9	42
163	Reflected scatterometry for noninvasive interrogation of bacterial colonies. <i>Journal of Biomedical Optics</i> , 2016 , 21, 107004	3.5	5
162	Characterization of antimicrobial activity against Listeria and cytotoxicity of native melittin and its mutant variants. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 143, 194-205	6	24
161	Emulsion stabilized with phytoglycogen octenyl succinate prolongs the antimicrobial efficacy of E-poly-L-lysine against Escherichia coli O157:H7. <i>LWT - Food Science and Technology</i> , 2016 , 70, 245-251	5.4	7
160	Fiber optic and light scattering sensors: Complimentary approaches to rapid detection of Salmonella enterica in food samples. <i>Food Control</i> , 2016 , 61, 135-145	6.2	23
159	Fructose 1,6-Bisphosphate Aldolase, a Novel Immunogenic Surface Protein on Listeria Species. <i>PLoS ONE</i> , 2016 , 11, e0160544	3.7	12
158	Nisin Adsorption in Colloidal Systems Formed with Phytoglycogen Octenyl Succinate. <i>Food Biophysics</i> , 2016 , 11, 311-318	3.2	7
157	Optical scatter patterns facilitate rapid differentiation of Enterobacteriaceae on CHROMagar [®] Orientation medium. <i>Microbial Biotechnology</i> , 2016 , 9, 127-35	6.3	5
156	Virulence Gene-Associated Mutant Bacterial Colonies Generate Differentiating Two-Dimensional Laser Scatter Fingerprints. <i>Applied and Environmental Microbiology</i> , 2016 , 82, 3256-3268	4.8	6
155	Delivery systems of antimicrobial compounds to food. <i>Trends in Food Science and Technology</i> , 2016 , 57, 165-177	15.3	61
154	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	2.8	16
153	Rapid pathogen detection by lateral-flow immunochromatographic assay with gold nanoparticle-assisted enzyme signal amplification. <i>International Journal of Food Microbiology</i> , 2015 , 206, 60-6	5.8	79
152	Monitoring Campylobacter in the poultry production chain from culture to genes and beyond. <i>Journal of Microbiological Methods</i> , 2015 , 112, 118-25	2.8	24
151	Scalar diffraction modeling of multispectral forward scatter patterns from bacterial colonies. <i>Optics Express</i> , 2015 , 23, 8545-54	3.3	8
150	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	6.6	39
149	Fiber-optic sensors for high throughput screening of pathogens 2015 , 249-262		1
148	Rapid identification and classification of Campylobacter spp. using laser optical scattering technology. <i>Food Microbiology</i> , 2015 , 47, 28-35	6	21
147	Label-free light-scattering sensors for high throughput screening of microbes in food 2015 , 149-163		

146	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, 224-31	1.5	6
145	Novel PCR Assays Complement Laser Biosensor-Based Method and Facilitate Listeria Species Detection from Food. <i>Sensors</i> , 2015 , 15, 22672-91	3.8	9
144	High throughput screening strategies and technology platforms for detection of pathogens 2015 , 1-9		2
143	Label-free, non-invasive light scattering sensor for rapid screening of Bacillus colonies. <i>Journal of Microbiological Methods</i> , 2015 , 109, 56-66	2.8	17
142	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	3.8	15
141	Streptomycin Induced Stress Response in Salmonella enterica Serovar Typhimurium Shows Distinct Colony Scatter Signature. <i>PLoS ONE</i> , 2015 , 10, e0135035	3.7	12
140	One day to one hour: how quickly can foodborne pathogens be detected?. <i>Future Microbiology</i> , 2014 , 9, 935-46	2.9	65
139	Nano/micro and spectroscopic approaches to food pathogen detection. <i>Annual Review of Analytical Chemistry</i> , 2014 , 7, 65-88	12.5	37
138	Light scattering sensor for direct identification of colonies of Escherichia coli serogroups O26, O45, O103, O111, O121, O145 and O157. <i>PLoS ONE</i> , 2014 , 9, e105272	3.7	40
137	Pathogen-specific antigen target for production of antibodies produced by comparative genomics. <i>Antibody Technology Journal</i> , 2014 , 13		0
136	Laser-induced speckle scatter patterns in Bacillus colonies. <i>Frontiers in Microbiology</i> , 2014 , 5, 537	5.7	14
135	Laser optical sensor, a label-free on-plate Salmonella enterica colony detection tool. <i>MBio</i> , 2014 , 5, e01019-13	4.9	38
134	Secreted Listeria adhesion protein (Lap) influences Lap-mediated Listeria monocytogenes paracellular translocation through epithelial barrier. <i>Gut Pathogens</i> , 2013 , 5, 16	5.4	22
133	Classification of bacterial contamination using image processing and distributed computing. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2013 , 17, 232-9	7.2	29
132	Multiplex fiber optic biosensor for detection of Listeria monocytogenes, Escherichia coli O157:H7 and Salmonella enterica from ready-to-eat meat samples. <i>Food Microbiology</i> , 2013 , 33, 166-71	6	95
131	Rapid sample processing for detection of food-borne pathogens via cross-flow microfiltration. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 7048-54	4.8	42
130	Development of an integrated optical analyzer for characterization of growth dynamics of bacterial colonies. <i>Journal of Biophotonics</i> , 2013 , 6, 929-37	3.1	10
129	Bioengineered probiotics, a strategic approach to control enteric infections. <i>Bioengineered</i> , 2013 , 4, 379-87		41

128	Listeria monocytogenes and Host Hsp60 [A Invasive Pairing. <i>Heat Shock Proteins</i> , 2013 , 267-282	0.2	4
127	Modern approaches in probiotics research to control foodborne pathogens. <i>Advances in Food and Nutrition Research</i> , 2012 , 67, 185-239	6	28
126	Mixed culture enrichment of Escherichia coli O157:H7, Listeria monocytogenes, Salmonella enterica, and Yersinia enterocolitica. <i>Food Control</i> , 2012 , 26, 269-273	6.2	15
125	Highly specific fiber optic immunosensor coupled with immunomagnetic separation for detection of low levels of Listeria monocytogenes and L. ivanovii. <i>BMC Microbiology</i> , 2012 , 12, 275	4.5	38
124	Light-scattering sensor for real-time identification of Vibrio parahaemolyticus, Vibrio vulnificus and Vibrio cholerae colonies on solid agar plate. <i>Microbial Biotechnology</i> , 2012 , 5, 607-20	6.3	42
123	Recombinant probiotic expressing Listeria adhesion protein attenuates Listeria monocytogenes virulence in vitro. <i>PLoS ONE</i> , 2012 , 7, e29277	3.7	71
122	Development of a microbial high-throughput screening instrument based on elastic light scatter patterns. <i>Review of Scientific Instruments</i> , 2012 , 83, 044304	1.7	9
121	Bioengineered Probiotics [A Solution to Broaden Probiotics Efficacy!. <i>Journal of Nutrition & Food Sciences</i> , 2012 , 02,	0.5	5
120	Effects of Preparation and Storage of Agar Media on the Sensitivity of Bacterial Forward Scattering Patterns. <i>Open Journal of Applied Biosensor</i> , 2012 , 01, 26-35		3
119	A distributed national network for label-free rapid identification of emerging pathogens 2011 ,		1
118	Genetic organization and molecular characterization of secA2 locus in Listeria species. <i>Gene</i> , 2011 , 489, 76-85	3.8	18
117	Using Scattering to Identify Bacterial Pathogens. <i>Optics and Photonics News</i> , 2011 , 22, 20	1.9	5
116	Effect of sublethal heat stress on Salmonella Typhimurium virulence. <i>Journal of Applied Microbiology</i> , 2011 , 110, 813-22	4.7	58
115	Human heat-shock protein 60 receptor-coated paramagnetic beads show improved capture of Listeria monocytogenes in the presence of other Listeria in food. <i>Journal of Applied Microbiology</i> , 2011 , 111, 93-104	4.7	18
114	Designing carbohydrate nanoparticles for prolonged efficacy of antimicrobial peptide. <i>Journal of Controlled Release</i> , 2011 , 150, 150-6	11.7	108
113	Electrical detection of dsDNA and polymerase chain reaction amplification. <i>Biomedical Microdevices</i> , 2011 , 13, 973-82	3.7	16
112	Characterization of surface proteins of Cronobacter muytjensii using monoclonal antibodies and MALDI-TOF Mass spectrometry. <i>BMC Microbiology</i> , 2011 , 11, 148	4.5	13
111	On the sensitivity of forward scattering patterns from bacterial colonies to media composition. <i>Journal of Biophotonics</i> , 2011 , 4, 236-43	3.1	24

110	Label-free identification of bacterial microcolonies via elastic scattering. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 637-44	4.9	21
109	Carbohydrate nanoparticle-mediated colloidal assembly for prolonged efficacy of bacteriocin against food pathogen. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 1529-36	4.9	33
108	N-terminal Gly(224)-Gly(411) domain in <i>Listeria</i> adhesion protein interacts with host receptor Hsp60. <i>PLoS ONE</i> , 2011 , 6, e20694	3.7	27
107	Antibody-aptamer functionalized fibre-optic biosensor for specific detection of <i>Listeria monocytogenes</i> from food. <i>Journal of Applied Microbiology</i> , 2010 , 109, 808-17	4.7	117
106	Modeling light propagation through bacterial colonies and its correlation with forward scattering patterns. <i>Journal of Biomedical Optics</i> , 2010 , 15, 045001	3.5	26
105	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	4.6	82
104	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	3.6	20
103	<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, 5062-73	3.7	73
102	Mammalian cell-based sensor system. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2010 , 117, 21-55	1.7	10
101	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 , 77, 1103-12	4.6	27
100	Cell-based biosensor for rapid screening of pathogens and toxins. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 99-106	11.8	69
99	A Machine-Learning Approach to Detecting Unknown Bacterial Serovars. <i>Statistical Analysis and Data Mining</i> , 2010 , 3, 289-301	1.4	9
98	Evanescent wave fiber optic biosensor for salmonella detection in food. <i>Sensors</i> , 2009 , 9, 5810-24	3.8	57
97	Learning with a non-exhaustive training dataset 2009 ,		2
96	System automation for a bacterial colony detection and identification instrument via forward scattering. <i>Measurement Science and Technology</i> , 2009 , 20, 015802	2	19
95	Mammalian cell-based biosensors for pathogens and toxins. <i>Trends in Biotechnology</i> , 2009 , 27, 179-88	15.1	127
94	Label-free detection of multiple bacterial pathogens using light-scattering sensor. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 1685-92	11.8	110
93	<i>Salmonella enterica</i> serovar Typhimurium adhesion and cytotoxicity during epithelial cell stress is reduced by <i>Lactobacillus rhamnosus</i> GG. <i>Gut Pathogens</i> , 2009 , 1, 14	5.4	34

92	Lactobacillus delbrueckii ssp. bulgaricus B-30892 can inhibit cytotoxic effects and adhesion of pathogenic Clostridium difficile to Caco-2 cells. <i>Gut Pathogens</i> , 2009 , 1, 8	5.4	65
91	Expression of LAP, a SecA2-dependent secretory protein, is induced under anaerobic environment. <i>Microbes and Infection</i> , 2009 , 11, 859-67	9.3	65
90	Targeted capture of pathogenic bacteria using a mammalian cell receptor coupled with dielectrophoresis on a biochip. <i>Analytical Chemistry</i> , 2009 , 81, 3094-101	7.8	67
89	Development of a real-time system of monitoring bacterial colony growth and registering the forward-scattering pattern 2009 ,		1
88	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. <i>Laboratory Investigation</i> , 2008 , 88, 196-206	5.9	81
87	Differential expression of InlB and ActA in <i>Listeria monocytogenes</i> in selective and nonselective enrichment broths. <i>Journal of Applied Microbiology</i> , 2008 , 104, 627-39	4.7	31
86	Biosensors and bio-based methods for the separation and detection of foodborne pathogens. <i>Advances in Food and Nutrition Research</i> , 2008 , 54, 1-44	6	89
85	Effects of Dielectrophoresis on Growth, Viability and Immuno-reactivity of <i>Listeria monocytogenes</i> . <i>Journal of Biological Engineering</i> , 2008 , 2, 6	6.3	34
84	WST-1-based cell cytotoxicity assay as a substitute for MTT-based assay for rapid detection of toxigenic <i>Bacillus</i> species using CHO cell line. <i>Journal of Microbiological Methods</i> , 2008 , 73, 211-5	2.8	178
83	PCR-based detection in a micro-fabricated platform. <i>Lab on A Chip</i> , 2008 , 8, 1130-6	7.2	35
82	SEL, a selective enrichment broth for simultaneous growth of <i>Salmonella enterica</i> , <i>Escherichia coli</i> O157:H7, and <i>Listeria monocytogenes</i> . <i>Applied and Environmental Microbiology</i> , 2008 , 74, 4853-66	4.8	85
81	Analysis of time-resolved scattering from macroscale bacterial colonies. <i>Journal of Biomedical Optics</i> , 2008 , 13, 014010	3.5	19
80	Electrical characterization of DNA molecules in solution using impedance measurements. <i>Applied Physics Letters</i> , 2008 , 92, 143902	3.4	40
79	Quantification of bacterial cells based on autofluorescence on a microfluidic platform. <i>Journal of Chromatography A</i> , 2008 , 1181, 153-8	4.5	35
78	Antibodies and Immunoassays for Detection of Bacterial Pathogens 2008 , 567-602		28
77	Rapid electrical lysis of bacterial cells in a microfluidic device. <i>Methods in Molecular Biology</i> , 2007 , 385, 23-35	1.4	7
76	Optical forward-scattering for detection of <i>Listeria monocytogenes</i> and other <i>Listeria</i> species. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 1664-71	11.8	106
75	Bacteria-mediated delivery of nanoparticles and cargo into cells. <i>Nature Nanotechnology</i> , 2007 , 2, 441-9	28.7	242

74	LIGHT SCATTERING, FIBER OPTIC- AND CELL-BASED SENSORS FOR SENSITIVE DETECTION OF FOODBORNE PATHOGENS. <i>Journal of Rapid Methods and Automation in Microbiology</i> , 2007 , 15, 121-145		31
73	Hybridoma Ped-2E9 cells cultured under modified conditions can sensitively detect <i>Listeria</i> monocytogenes and <i>Bacillus cereus</i> . <i>Applied Microbiology and Biotechnology</i> , 2007 , 73, 1423-34	5.7	13
72	The 2-cys peroxiredoxin-deficient <i>Listeria monocytogenes</i> displays impaired growth and survival in the presence of hydrogen peroxide in vitro but not in mouse organs. <i>Current Microbiology</i> , 2007 , 54, 382-74		9
71	SPR biosensor for the detection of <i>L. monocytogenes</i> using phage-displayed antibody. <i>Biosensors</i> <i>and Bioelectronics</i> , 2007 , 23, 248-52	11.8	113
70	Biophysical modeling of forward scattering from bacterial colonies using scalar diffraction theory. <i>Applied Optics</i> , 2007 , 46, 3639-48	1.7	46
69	Rapid Detection and Classification of Bacterial Contamination Using Grid Computing 2007 ,		1
68	Performance evaluation of a low conductive growth medium (LCGM) for growth of healthy and stressed <i>Listeria monocytogenes</i> and other common bacterial species. <i>International Journal of Food</i> <i>Microbiology</i> , 2006 , 111, 12-20	5.8	16
67	Fiber-optic biosensor employing Alexa-Fluor conjugated antibodies for detection of <i>Escherichia coli</i> O157:H7 and Shiga-like toxins 2006 , 6381, 43		1
66	Noninvasive forward-scattering system for rapid detection, characterization, and identification of <i>Listeria</i> colonies: image-processing and data analysis 2006 ,		1
65	Feature extraction from light-scatter patterns of <i>Listeria</i> colonies for identification and classification. <i>Journal of Biomedical Optics</i> , 2006 , 11, 34006	3.5	49
64	Prevalence of antibodies reactive to pathogenic and nonpathogenic bacteria in preimmune serum of New Zealand white rabbits. <i>Journal of Immunoassay and Immunochemistry</i> , 2006 , 27, 351-61	1.8	3
63	Liposome-doped nanocomposites as artificial-cell-based biosensors: detection of listeriolysin O. <i>Biotechnology Progress</i> , 2006 , 22, 32-7	2.8	35
62	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, 896-905	7.2	107
61	Antibody microarray detection of <i>Escherichia coli</i> O157:H7: Quantification, assay limitations, and capture efficiency. <i>Analytical Chemistry</i> , 2006 , 78, 6601-7	7.8	51
60	Selective enrichment media affect the antibody-based detection of stress-exposed <i>Listeria</i> <i>monocytogenes</i> due to differential expression of antibody-reactive antigens identified by protein sequencing. <i>Journal of Food Protection</i> , 2006 , 69, 1879-86	2.5	36
59	Antibody Immobilization on Waveguides Using a Flow-Through System Shows Improved <i>Listeria</i> <i>monocytogenes</i> Detection in an Automated Fiber Optic Biosensor: RAPORTM. <i>Sensors</i> , 2006 , 6, 808-822 ^{3.8}		35
58	Bacterial phenotype identification using Zernike moment invariants 2006 , 6080, 155		
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