

Atul K Singh

List of Publications by Year in descending order

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33
papers

1,165
citations

394421

19
h-index

395702

33
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35
all docs

35
docs citations

35
times ranked

1612
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthetic Lethal Compound Combinations Reveal a Fundamental Connection between Wall Teichoic Acid and Peptidoglycan Biosyntheses in <i>Staphylococcus aureus</i> . ACS Chemical Biology, 2011, 6, 106-116.	3.4	276
2	Retention of Enzymatic Activity of α -Amylase in the Reductive Synthesis of Gold Nanoparticles. Langmuir, 2007, 23, 5700-5706.	3.5	147
3	Tunicamycin Mediated Inhibition of Wall Teichoic Acid Affects <i>Staphylococcus aureus</i> and <i>Listeria monocytogenes</i> Cell Morphology, Biofilm Formation and Virulence. Frontiers in Microbiology, 2018, 9, 1352.	3.5	60
4	Succession of dominant and antagonistic lactic acid bacteria in fermented cucumber: Insights from a PCR-based approach. Food Microbiology, 2008, 25, 278-287.	4.2	53
5	Laser Optical Sensor, a Label-Free On-Plate <i>Salmonella enterica</i> Colony Detection Tool. MBio, 2014, 5, e01019-13.	4.1	48
6	Light Scattering Sensor for Direct Identification of Colonies of <i>Escherichia coli</i> Serogroups O26, O45, O103, O111, O121, O145 and O157. PLoS ONE, 2014, 9, e105272.	2.5	46
7	Receptor-targeted engineered probiotics mitigate lethal <i>Listeria</i> infection. Nature Communications, 2020, 11, 6344.	12.8	45
8	Nano/Micro and Spectroscopic Approaches to Food Pathogen Detection. Annual Review of Analytical Chemistry, 2014, 7, 65-88.	5.4	42
9	Fiber optic and light scattering sensors: Complimentary approaches to rapid detection of <i>Salmonella enterica</i> in food samples. Food Control, 2016, 61, 135-145.	5.5	40
10	N-Terminal Gly224-Gly411 Domain in <i>Listeria</i> Adhesion Protein Interacts with Host Receptor Hsp60. PLoS ONE, 2011, 6, e20694.	2.5	36
11	Characterization of antimicrobial activity against <i>Listeria</i> and cytotoxicity of native melittin and its mutant variants. Colloids and Surfaces B: Biointerfaces, 2016, 143, 194-205.	5.0	31
12	Ovariectomized Rats with Established Osteopenia have Diminished Mesenchymal Stem Cells in the Bone Marrow and Impaired Homing, Osteoinduction and Bone Regeneration at the Fracture Site. Stem Cell Reviews and Reports, 2015, 11, 309-321.	5.6	29
13	Evaluation of a facile method of template DNA preparation for PCR-based detection and typing of lactic acid bacteria. Food Microbiology, 2009, 26, 504-513.	4.2	28
14	Rapid Estimation of Bacteria by a Fluorescent Gold Nanoparticle-Polythiophene Composite. Langmuir, 2008, 24, 11995-12000.	3.5	26
15	Simultaneous detection of <i>Salmonella enterica</i> , <i>Escherichia coli</i> and <i>Listeria monocytogenes</i> in food using a light scattering sensor. Journal of Applied Microbiology, 2019, 126, 1496-1507.	3.1	25
16	Label-free, non-invasive light scattering sensor for rapid screening of <i>Bacillus</i> colonies. Journal of Microbiological Methods, 2015, 109, 56-66.	1.6	23
17	Antilisterial and Antibiofilm Activities of Pediocin and LAP Functionalized Gold Nanoparticles. Frontiers in Sustainable Food Systems, 2018, 2, .	3.9	23
18	Streptomycin Induced Stress Response in <i>Salmonella enterica</i> Serovar Typhimurium Shows Distinct Colony Scatter Signature. PLoS ONE, 2015, 10, e0135035.	2.5	22

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19	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.	1.6	21
20	Novel PCR Assays Complement Laser Biosensor-Based Method and Facilitate <i>Listeria</i> Species Detection from Food. <i>Sensors</i> , 2015, 15, 22672-22691.	3.8	17
21	Virulence Gene-Associated Mutant Bacterial Colonies Generate Differentiating Two-Dimensional Laser Scatter Fingerprints. <i>Applied and Environmental Microbiology</i> , 2016, 82, 3256-3268.	3.1	17
22	Fluorescence-Based Comparative Evaluation of Bactericidal Potency and Food Application Potential of Anti- <i>Listeria</i> Bacteriocin Produced by Lactic Acid Bacteria Isolated from Indigenous Samples. <i>Probiotics and Antimicrobial Proteins</i> , 2012, 4, 122-132.	3.9	15
23	Laser-induced speckle scatter patterns in <i>Bacillus</i> colonies. <i>Frontiers in Microbiology</i> , 2014, 5, 537.	3.5	15
24	Animal-Use Antibiotics Induce Cross-Resistance in Bacterial Pathogens to Human Therapeutic Antibiotics. <i>Current Microbiology</i> , 2019, 76, 1112-1117.	2.2	13
25	Rapid detection and differentiation of <i>Staphylococcus</i> colonies using an optical scattering technology. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 5445-5454.	3.7	12
26	Lactic acid bacterial extract as a biogenic mineral growth modifier. <i>Journal of Crystal Growth</i> , 2009, 311, 2664-2672.	1.5	9
27	Quantitative Appraisal of the Probiotic Attributes and In Vitro Adhesion Potential of Anti- <i>Listeria</i> Bacteriocin-producing Lactic Acid Bacteria. <i>Probiotics and Antimicrobial Proteins</i> , 2013, 5, 99-109.	3.9	9
28	Optical scatter patterns facilitate rapid differentiation of <i>Enterobacteriaceae</i> on CHROMagar™ O orientation medium. <i>Microbial Biotechnology</i> , 2016, 9, 127-135.	4.2	9
29	Differential dendritic cell-mediated activation and functions of invariant NKT cell subsets in oral cancer. <i>Oral Diseases</i> , 2015, 21, e105-13.	3.0	8
30	2-Alkylmalonic Acid: Amphiphilic Chelator and a Potent Inhibitor of Metalloenzyme. <i>Journal of Physical Chemistry B</i> , 2010, 114, 10835-10842.	2.6	6
31	Inactivation of Polymicrobial Biofilms of Foodborne Pathogens Using Epsilon Poly-L-Lysin Conjugated Chitosan Nanoparticles. <i>Foods</i> , 2022, 11, 569.	4.3	6
32	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.	1.6	3
33	Validation of the Clear Safety <i>Listeria</i> Method for Detection of <i>Listeria</i> Species in Hot Dogs and on Environmental Surface Matrixes: AOAC Performance Tested Method SM 091901. <i>Journal of AOAC INTERNATIONAL</i> , 2022, 105, 211-229.	1.5	0