

Anubhav Tripathi

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

1,197
citations

516710

16
h-index

454955

30
g-index

84
all docs

84
docs citations

84
times ranked

1790
citing authors

#	ARTICLE	IF	CITATIONS
1	Creation of a low cost, low light bioluminescence sensor for real time biological nitrate sensing in marine environments. <i>Environmental Technology (United Kingdom)</i> , 2022, 43, 4002-4009.	2.2	4
2	A microfluidic platform for high-purity cell free DNA extraction from plasma for non-invasive prenatal testing. <i>Prenatal Diagnosis</i> , 2022, 42, 240-253.	2.3	2
3	DirectDetect SARS-CoV-2 Direct Real-Time RT-PCR Study Using Patient Samples. <i>ACS Omega</i> , 2022, 7, 4945-4955.	3.5	6
4	Simultaneous detection of salivary cortisol and cortisone using an automated high-throughput sample preparation method for LC-MS/MS. <i>SLAS Technology</i> , 2022, 27, 237-246.	1.9	5
5	Pre-eclampsia: a Scoping Review of Risk Factors and Suggestions for Future Research Direction. <i>Regenerative Engineering and Translational Medicine</i> , 2022, 8, 394-406.	2.9	4
6	Sequence to size-based separation using microfluidic electrophoresis for targeted cell-free DNA analysis. <i>Analytical Biochemistry</i> , 2022, 649, 114691.	2.4	1
7	Electric-field facilitated rapid and efficient dissociation of tissues Into viable single cells. <i>Scientific Reports</i> , 2022, 12, .	3.3	5
8	Electrophoresis-Mediated Characterization of Full and Empty Adeno-Associated Virus Capsids. <i>ACS Omega</i> , 2022, 7, 23457-23466.	3.5	3
9	Integrated magneto-electrophoresis microfluidic chip purification on library preparation device for preimplantation genetic testing for aneuploidy detection. <i>RSC Advances</i> , 2021, 11, 14459-14474.	3.6	2
10	Isolation of target DNA using synergistic magnetic bead transport and electrokinetic flow. <i>Biomicrofluidics</i> , 2021, 15, 024104.	2.4	3
11	Enrichment of Placental Trophoblast Cells from Clinical Cervical Samples Using Differences in Surface Adhesion on an Inclined Plane. <i>Annals of Biomedical Engineering</i> , 2021, 49, 2214-2227.	2.5	5
12	Optimization of a Clinically Relevant Chemical-Mechanical Tissue Dissociation Workflow for Single-Cell Analysis. <i>Cellular and Molecular Bioengineering</i> , 2021, 14, 241-258.	2.1	7
13	Progress and Challenges in Laboratory-Based Diagnostic and Screening Approaches for Aneuploidy Detection during Pregnancy. <i>SLAS Technology</i> , 2021, 26, 425-440.	1.9	1
14	A Closer Look into FDA-EUA Approved Diagnostic Techniques of Covid-19. <i>ACS Infectious Diseases</i> , 2021, 7, 2787-2800.	3.8	8
15	A Theme Series on Emerging Technologies for Use in the Study, Diagnosis and Treatment of Patients with COVID-19. <i>Cellular and Molecular Bioengineering</i> , 2020, 13, 247-248.	2.1	0
16	The Path Forward for COVID-19 Diagnostics. <i>Molecular Diagnosis and Therapy</i> , 2020, 24, 637-639.	3.8	3
17	Parallel DNA Extraction From Whole Blood for Rapid Sample Generation in Genetic Epidemiological Studies. <i>Frontiers in Genetics</i> , 2020, 11, 374.	2.3	11
18	Placental Trophoblast-Inspired Lipid Bilayers for Cell-Free Investigation of Molecular Interactions. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 31099-31111.	8.0	3

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19	Interaction of Cyanobacteria with Nanometer and Micron Sized Polystyrene Particles in Marine and Fresh Water. <i>Langmuir</i> , 2020, 36, 3963-3969.	3.5	30
20	The response of <i>Synechococcus</i> sp. PCC 7002 to micro-/nano polyethylene particles - Investigation of a key anthropogenic stressor. <i>PLoS ONE</i> , 2020, 15, e0232745.	2.5	14
21	Investigating interactions of phthalate environmental toxicants with lipid structures. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 190, 110923.	5.0	6
22	Synergistic use of electroosmotic flow and magnetic forces for nucleic acid extraction. <i>Analyst</i> , The, 2020, 145, 2412-2419.	3.5	13
23	Centrifugal Microfluidics Traps for Parallel Isolation and Imaging of Single Cells. <i>Micromachines</i> , 2020, 11, 149.	2.9	5
24	Effect of polymer and ion concentration on mechanical and drug release behavior of gellan hydrogels using factorial design. <i>Journal of Polymer Science</i> , 2020, 58, 1365-1379.	3.8	10
25	A Microfluidics Workflow for Sample Preparation for Next-Generation DNA Sequencing. <i>SLAS Technology</i> , 2019, 24, 196-208.	1.9	8
26	A Rapid Method for Label-Free Enrichment of Rare Trophoblast Cells from Cervical Samples. <i>Scientific Reports</i> , 2019, 9, 12115.	3.3	10
27	Mathematical model to reduce loop mediated isothermal amplification (LAMP) false positive diagnosis. <i>Electrophoresis</i> , 2019, 40, 2706-2717.	2.4	38
28	Rapid electrophoretic recovery of DNA from dried blood spots. <i>Electrophoresis</i> , 2019, 40, 1812-1819.	2.4	3
29	Vortex- and Centrifugation-Free Extraction of HIV-1 RNA. <i>Molecular Diagnosis and Therapy</i> , 2019, 23, 419-427.	3.8	4
30	Microfluidic Immiscible Phase Filtration System for the Isolation of Small Numbers of Cells from Whole Blood. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2019, 95, 885-897.	1.5	4
31	The electrokinetic properties of cationic surfactants adsorbed on a hydrophobic substrate: effect of chain length and concentration. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	2.2	1
32	Rapid Recovery of DNA from Dried Blood Spots: Use of a Novel Electrophoretic Method. <i>FASEB Journal</i> , 2019, 33, 636.8.	0.5	0
33	Hydrodynamics of the Bio-Gripper: A Fluid-Driven "Claw Machine" for Soft Microtissue Translocation. <i>SLAS Technology</i> , 2018, 23, 540-549.	1.9	2
34	Perfused Organ Cell-Dense Macrotissues Assembled from Prefabricated Living Microtissues. <i>Advanced Biology</i> , 2018, 2, 1800076.	3.0	9
35	Schwann cell durotaxis can be guided by physiologically relevant stiffness gradients. <i>Biomaterials Research</i> , 2018, 22, 14.	6.9	32
36	Behavior of Marine Bacteria in Clean Environment and Oil Spill Conditions. <i>Langmuir</i> , 2018, 34, 9047-9053.	3.5	20

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37	Impact of Nearly Water-Insoluble Additives on the Properties of Vesicular Suspensions. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 899-906.	3.7	5
38	Effect of surfactants on carryover liquid volume in immiscible phase magnetic bead separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 513, 188-195.	4.7	14
39	Effects of Flow and Bulk Vesicle Concentration on Supported Lipid Bilayer Formation. <i>Langmuir</i> , 2017, 33, 11986-11997.	3.5	13
40	Current Status of Point-of-Care Testing for Human Immunodeficiency Virus Drug Resistance. <i>Journal of Infectious Diseases</i> , 2017, 216, S824-S828.	4.0	23
41	Archaeal RNA ligase from <i>thermococcus kodakarensis</i> for template dependent ligation. <i>RNA Biology</i> , 2017, 14, 36-44.	3.1	7
42	Microstructure and rheology of particle stabilized emulsions: Effects of particle shape and inter-particle interactions. <i>Journal of Colloid and Interface Science</i> , 2017, 485, 11-17.	9.4	98
43	Dispersion of a suspension plug in oscillatory pressure-driven flow. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	5
44	Isolating Influenza RNA from Clinical Samples Using Microfluidic Oil-Water Interfaces. <i>PLoS ONE</i> , 2016, 11, e0149522.	2.5	16
45	Single fluorophore melting curve analysis for detection of hypervirulent <i>Clostridium difficile</i> . <i>Journal of Medical Microbiology</i> , 2016, 65, 62-70.	1.8	0
46	Adsorption and isolation of nucleic acids on cellulose magnetic beads using a three-dimensional printed microfluidic chip. <i>Biomicrofluidics</i> , 2015, 9, 064118.	2.4	21
47	A Simple Microfluidic Assay for the Detection of Ligation Product. <i>Molecular Diagnosis and Therapy</i> , 2015, 19, 59-64.	3.8	2
48	Simple perfusion apparatus for manipulation, tracking, and study of oocytes and embryos. <i>Fertility and Sterility</i> , 2015, 103, 281-290.e5.	1.0	28
49	Interaction of <i>Alcanivorax borkumensis</i> with a Surfactant Decorated Oil-Water Interface. <i>Langmuir</i> , 2015, 31, 5875-5881.	3.5	24
50	An insight into the growth of <i>Alcanivorax borkumensis</i> under different inoculation conditions. <i>Journal of Petroleum Science and Engineering</i> , 2015, 129, 153-158.	4.2	19
51	Microfluidic Sample Preparation for Medical Diagnostics. <i>Annual Review of Biomedical Engineering</i> , 2015, 17, 267-286.	12.3	106
52	One-Step Ligation on RNA Amplification for the Detection of Point Mutations. <i>Journal of Molecular Diagnostics</i> , 2015, 17, 679-688.	2.8	8
53	Bio-Pick, Place, and Perfuse: A New Instrument for Three-Dimensional Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , 2015, 21, 737-746.	2.1	65
54	A Novel Subtyping Assay for Detection of <i>Clostridium difficile</i> Virulence Genes. <i>Journal of Molecular Diagnostics</i> , 2014, 16, 244-252.	2.8	7

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55	Highly conductive graphene-based segregated composites prepared by particle templating. <i>Journal of Materials Science</i> , 2014, 49, 2567-2570.	3.7	9
56	Uniform polymer particles formulated with ultraviolet protective materials for the protection of UV sensitive molecules. <i>Dyes and Pigments</i> , 2014, 105, 12-22.	3.7	5
57	Capture and separation of biomolecules using magnetic beads in a simple microfluidic channel without an external flow device. <i>Analyst</i> , The, 2013, 138, 6573.	3.5	12
58	Detection of HIV-1 Minority Variants Containing the K103N Drug-Resistance Mutation Using a Simple Method to Amplify RNA Targets (SMART). <i>Journal of Molecular Diagnostics</i> , 2013, 15, 401-412.	2.8	10
59	Engineering Insights for Multiplexed Real-Time Nucleic Acid Sequence-Based Amplification (NASBA): Implications for Design of Point-of-Care Diagnostics. <i>Molecular Diagnosis and Therapy</i> , 2013, 17, 185-192.	3.8	12
60	Dilution of protein-surfactant complexes: A fluorescence study. <i>Protein Science</i> , 2013, 22, 1258-1265.	7.6	9
61	Microfluidic platform for isolating nucleic acid targets using sequence specific hybridization. <i>Biomicrofluidics</i> , 2013, 7, 44107.	2.4	20
62	Subtyping Clinical Specimens of Influenza A Virus by Use of a Simple Method To Amplify RNA Targets. <i>Journal of Clinical Microbiology</i> , 2013, 51, 3324-3330.	3.9	13
63	Microdroplet Sandwich Real-Time RT-PCR for Detection of Pandemic and Seasonal Influenza Subtypes. <i>PLoS ONE</i> , 2013, 8, e73497.	2.5	6
64	Hand-Portable Kinematic Viscometer. , 2013, , 101-111.		1
65	A Simple Method for Amplifying RNA Targets (SMART). <i>Journal of Molecular Diagnostics</i> , 2012, 14, 328-335.	2.8	19
66	Real-Time Droplet DNA Amplification with a New Tablet Platform. <i>Analytical Chemistry</i> , 2012, 84, 2654-2661.	6.5	25
67	Improved Antimicrobial Potency through Synergistic Action of Chitosan Microparticles and Low Electric Field. <i>Applied Biochemistry and Biotechnology</i> , 2012, 168, 531-541.	2.9	7
68	Ligation with Nucleic Acid Sequence-Based Amplification. <i>Journal of Molecular Diagnostics</i> , 2012, 14, 206-213.	2.8	9
69	Proximal effects of ultraviolet light absorbers and polymer matrix in the photostability of β -carotene. <i>Dyes and Pigments</i> , 2012, 92, 509-516.	3.7	12
70	Surfactant-induced electroosmotic flow in microfluidic capillaries. <i>Electrophoresis</i> , 2012, 33, 2094-2101.	2.4	9
71	Rapid detection and quantification of specific proteins by immunodepletion and microfluidic separation. <i>Biotechnology Journal</i> , 2012, 7, 1008-1013.	3.5	1
72	Early In Vitro Transcription Termination in Human H5 Influenza Viral RNA Synthesis. <i>Applied Biochemistry and Biotechnology</i> , 2011, 164, 497-513.	2.9	1

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73	Biocompatible nanoparticles trigger rapid bacteria clustering. <i>Biotechnology Progress</i> , 2009, 25, 1094-1102.	2.6	33
74	Circulating IgSF Proteins Inhibit Adhesion of Antibody Targeted Microspheres to Endothelial Inflammatory Ligands. <i>Applied Biochemistry and Biotechnology</i> , 2009, 159, 208-220.	2.9	2
75	Electrophoretic migration of proteins in semidilute polymer solutions. <i>Electrophoresis</i> , 2008, 29, 1152-1163.	2.4	12
76	Direct Sequence Detection of Structured H5 Influenza Viral RNA. <i>Journal of Molecular Diagnostics</i> , 2008, 10, 225-235.	2.8	5
77	Nanoneedle Method for High-Sensitivity Low-Background Monitoring of Protein Activity. <i>Langmuir</i> , 2008, 24, 10786-10790.	3.5	9
78	Taylor dispersion in polymerase chain reaction in a microchannel. <i>Physics of Fluids</i> , 2008, 20, .	4.0	11
79	Measurements of Label Free Protein Concentration and Conformational Changes Using a Microfluidic UV-LED Method. <i>Biotechnology Progress</i> , 2007, 23, 1506-1512.	2.6	14
80	Measurements of Kinetic Parameters in a Microfluidic Reactor. <i>Analytical Chemistry</i> , 2006, 78, 8273-8280.	6.5	82
81	Rapid Exploration of Phase Behavior in Surfactant Systems Using Flow in Microchannels. <i>Langmuir</i> , 2006, 22, 11412-11419.	3.5	8
82	Intrinsic Viscosity of Polymers and Biopolymers Measured by Microchip. <i>Analytical Chemistry</i> , 2005, 77, 7137-7147.	6.5	83
83	Preparation of Tissues and Heterogeneous Cellular Samples for Single-Cell Analysis. , 0, , .		3