

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	Microfluidic Sample Preparation for Medical Diagnostics. Annual Review of Biomedical Engineering, 2015, 17, 267-286.	12.3	106
2	Microstructure and rheology of particle stabilized emulsions: Effects of particle shape and inter-particle interactions. Journal of Colloid and Interface Science, 2017, 485, 11-17.	9.4	98
3	Intrinsic Viscosity of Polymers and Biopolymers Measured by Microchip. Analytical Chemistry, 2005, 77, 7137-7147.	6.5	83
4	Measurements of Kinetic Parameters in a Microfluidic Reactor. Analytical Chemistry, 2006, 78, 8273-8280.	6.5	82
5	Bio-Pick, Place, and Perfuse: A New Instrument for Three-Dimensional Tissue Engineering. Tissue Engineering - Part C: Methods, 2015, 21, 737-746.	2.1	65
6	Mathematical model to reduce loop mediated isothermal amplification (LAMP) false positive diagnosis. Electrophoresis, 2019, 40, 2706-2717.	2.4	38
7	Biocompatible nanoparticles trigger rapid bacteria clustering. Biotechnology Progress, 2009, 25, 1094-1102.	2.6	33
8	Schwann cell durotaxis can be guided by physiologically relevant stiffness gradients. Biomaterials Research, 2018, 22, 14.	6.9	32
9	Interaction of Cyanobacteria with Nanometer and Micron Sized Polystyrene Particles in Marine and Fresh Water. Langmuir, 2020, 36, 3963-3969.	3.5	30
10	Simple perfusion apparatus for manipulation, tracking, and study of oocytes and embryos. Fertility and Sterility, 2015, 103, 281-290.e5.	1.0	28
11	Real-Time Droplet DNA Amplification with a New Tablet Platform. Analytical Chemistry, 2012, 84, 2654-2661.	6.5	25
12	Interaction of <i>Alcanivorax borkumensis</i> with a Surfactant Decorated Oil-Water Interface. Langmuir, 2015, 31, 5875-5881.	3.5	24
13	Current Status of Point-of-Care Testing for Human Immunodeficiency Virus Drug Resistance. Journal of Infectious Diseases, 2017, 216, S824-S828.	4.0	23
14	Adsorption and isolation of nucleic acids on cellulose magnetic beads using a three-dimensional printed microfluidic chip. Biomicrofluidics, 2015, 9, 064118.	2.4	21
15	Microfluidic platform for isolating nucleic acid targets using sequence specific hybridization. Biomicrofluidics, 2013, 7, 44107.	2.4	20
16	Behavior of Marine Bacteria in Clean Environment and Oil Spill Conditions. Langmuir, 2018, 34, 9047-9053.	3.5	20
17	A Simple Method for Amplifying RNA Targets (SMART). Journal of Molecular Diagnostics, 2012, 14, 328-335.	2.8	19
18	An insight into the growth of <i>Alcanivorax borkumensis</i> under different inoculation conditions. Journal of Petroleum Science and Engineering, 2015, 129, 153-158.	4.2	19

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19	Isolating Influenza RNA from Clinical Samples Using Microfluidic Oil-Water Interfaces. PLoS ONE, 2016, 11, e0149522.	2.5	16
20	Measurements of Label Free Protein Concentration and Conformational Changes Using a Microfluidic UV-LED Method. Biotechnology Progress, 2007, 23, 1506-1512.	2.6	14
21	Effect of surfactants on carryover liquid volume in immiscible phase magnetic bead separation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 513, 188-195.	4.7	14
22	The response of Synechococcus sp. PCC 7002 to micro-/nano polyethylene particles - Investigation of a key anthropogenic stressor. PLoS ONE, 2020, 15, e0232745.	2.5	14
23	Subtyping Clinical Specimens of Influenza A Virus by Use of a Simple Method To Amplify RNA Targets. Journal of Clinical Microbiology, 2013, 51, 3324-3330.	3.9	13
24	Effects of Flow and Bulk Vesicle Concentration on Supported Lipid Bilayer Formation. Langmuir, 2017, 33, 11986-11997.	3.5	13
25	Synergistic use of electroosmotic flow and magnetic forces for nucleic acid extraction. Analyst, The, 2020, 145, 2412-2419.	3.5	13
26	Electrophoretic migration of proteins in semidilute polymer solutions. Electrophoresis, 2008, 29, 1152-1163.	2.4	12
27	Proximal effects of ultraviolet light absorbers and polymer matrix in the photostability of β -carotene. Dyes and Pigments, 2012, 92, 509-516.	3.7	12
28	Capture and separation of biomolecules using magnetic beads in a simple microfluidic channel without an external flow device. Analyst, The, 2013, 138, 6573.	3.5	12
29	Engineering Insights for Multiplexed Real-Time Nucleic Acid Sequence-Based Amplification (NASBA): Implications for Design of Point-of-Care Diagnostics. Molecular Diagnosis and Therapy, 2013, 17, 185-192.	3.8	12
30	Taylor dispersion in polymerase chain reaction in a microchannel. Physics of Fluids, 2008, 20, .	4.0	11
31	Parallel DNA Extraction From Whole Blood for Rapid Sample Generation in Genetic Epidemiological Studies. Frontiers in Genetics, 2020, 11, 374.	2.3	11
32	Detection of HIV-1 Minority Variants Containing the K103N Drug-Resistance Mutation Using a Simple Method to Amplify RNA Targets (SMART). Journal of Molecular Diagnostics, 2013, 15, 401-412.	2.8	10
33	A Rapid Method for Label-Free Enrichment of Rare Trophoblast Cells from Cervical Samples. Scientific Reports, 2019, 9, 12115.	3.3	10
34	Effect of polymer and ion concentration on mechanical and drug release behavior of gellan hydrogels using factorial design. Journal of Polymer Science, 2020, 58, 1365-1379.	3.8	10
35	Nanoneedle Method for High-Sensitivity Low-Background Monitoring of Protein Activity. Langmuir, 2008, 24, 10786-10790.	3.5	9
36	Ligation with Nucleic Acid Sequence-Based Amplification. Journal of Molecular Diagnostics, 2012, 14, 206-213.	2.8	9

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37	Surfactant-induced electroosmotic flow in microfluidic capillaries. <i>Electrophoresis</i> , 2012, 33, 2094-2101.	2.4	9
38	Dilution of protein-surfactant complexes: A fluorescence study. <i>Protein Science</i> , 2013, 22, 1258-1265.	7.6	9
39	Highly conductive graphene-based segregated composites prepared by particle templating. <i>Journal of Materials Science</i> , 2014, 49, 2567-2570.	3.7	9
40	Perfused Organ Cell-Dense Macrotissues Assembled from Prefabricated Living Microtissues. <i>Advanced Biology</i> , 2018, 2, 1800076.	3.0	9
41	Rapid Exploration of Phase Behavior in Surfactant Systems Using Flow in Microchannels. <i>Langmuir</i> , 2006, 22, 11412-11419.	3.5	8
42	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
43	A Microfluidics Workflow for Sample Preparation for Next-Generation DNA Sequencing. <i>SLAS Technology</i> , 2019, 24, 196-208.	1.9	8
44	A Closer Look into FDA-EUA Approved Diagnostic Techniques of Covid-19. <i>ACS Infectious Diseases</i> , 2021, 7, 2787-2800.	3.8	8
45	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
46	A Novel Subtyping Assay for Detection of Clostridium difficile Virulence Genes. <i>Journal of Molecular Diagnostics</i> , 2014, 16, 244-252.	2.8	7
47	Archaeal RNA ligase from thermococcus kodakarensis for template dependent ligation. <i>RNA Biology</i> , 2017, 14, 36-44.	3.1	7
48	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
49	Investigating interactions of phthalate environmental toxicants with lipid structures. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 190, 110923.	5.0	6
50	Microdroplet Sandwich Real-Time RT-PCR for Detection of Pandemic and Seasonal Influenza Subtypes. <i>PLoS ONE</i> , 2013, 8, e73497.	2.5	6
51	DirectDetect SARS-CoV-2 Direct Real-Time RT-PCR Study Using Patient Samples. <i>ACS Omega</i> , 2022, 7, 4945-4955.	3.5	6
52	Direct Sequence Detection of Structured H5 Influenza Viral RNA. <i>Journal of Molecular Diagnostics</i> , 2008, 10, 225-235.	2.8	5
53	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
54	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

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55	Centrifugal Microfluidics Traps for Parallel Isolation and Imaging of Single Cells. <i>Micromachines</i> , 2020, 11, 149.	2.9	5
56	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
57	Dispersion of a suspension plug in oscillatory pressure-driven flow. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	5
58	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
59	Electric-field facilitated rapid and efficient dissociation of tissues Into viable single cells. <i>Scientific Reports</i> , 2022, 12, .	3.3	5
60	Vortex- and Centrifugation-Free Extraction of HIV-1 RNA. <i>Molecular Diagnosis and Therapy</i> , 2019, 23, 419-427.	3.8	4
61	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
62	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
63	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
64	Rapid electrophoretic recovery of DNA from dried blood spots. <i>Electrophoresis</i> , 2019, 40, 1812-1819.	2.4	3
65	The Path Forward for COVID-19 Diagnostics. <i>Molecular Diagnosis and Therapy</i> , 2020, 24, 637-639.	3.8	3
66	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
67	Isolation of target DNA using synergistic magnetic bead transport and electrokinetic flow. <i>Biomicrofluidics</i> , 2021, 15, 024104.	2.4	3
68	Preparation of Tissues and Heterogeneous Cellular Samples for Single-Cell Analysis. , 0, , .		3
69	Electrophoresis-Mediated Characterization of Full and Empty Adeno-Associated Virus Capsids. <i>ACS Omega</i> , 2022, 7, 23457-23466.	3.5	3
70	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
71	A Simple Microfluidic Assay for the Detection of Ligation Product. <i>Molecular Diagnosis and Therapy</i> , 2015, 19, 59-64.	3.8	2
72	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

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73	Integrated magneto-electrophoresis microfluidic chip purification on library preparation device for preimplantation genetic testing for aneuploidy detection. RSC Advances, 2021, 11, 14459-14474.	3.6	2
74	A microfluidic platform for high-purity cell free DNA extraction from plasma for non-invasive prenatal testing. Prenatal Diagnosis, 2022, 42, 240-253.	2.3	2
75	Early In Vitro Transcription Termination in Human H5 Influenza Viral RNA Synthesis. Applied Biochemistry and Biotechnology, 2011, 164, 497-513.	2.9	1
76	Rapid detection and quantification of specific proteins by immunodepletion and microfluidic separation. Biotechnology Journal, 2012, 7, 1008-1013.	3.5	1
77	The electrokinetic properties of cationic surfactants adsorbed on a hydrophobic substrate: effect of chain length and concentration. Microfluidics and Nanofluidics, 2019, 23, 1.	2.2	1
78	Progress and Challenges in Laboratory-Based Diagnostic and Screening Approaches for Aneuploidy Detection during Pregnancy. SLAS Technology, 2021, 26, 425-440.	1.9	1
79	Hand-Portable Kinematic Viscometer. , 2013, , 101-111.		1
80	Sequence to size-based separation using microfluidic electrophoresis for targeted cell-free DNA analysis. Analytical Biochemistry, 2022, 649, 114691.	2.4	1
81	A Theme Series on Emerging Technologies for Use in the Study, Diagnosis and Treatment of Patients with COVID-19. Cellular and Molecular Bioengineering, 2020, 13, 247-248.	2.1	0
82	Single fluorophore melting curve analysis for detection of hypervirulent Clostridium difficile. Journal of Medical Microbiology, 2016, 65, 62-70.	1.8	0
83	Rapid Recovery of DNA from Dried Blood Spots: Use of a Novel Electrophoretic Method. FASEB Journal, 2019, 33, 636.8.	0.5	0