

Amit aa Asthana

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,200
citations

567144

15
h-index

552653

26
g-index

29
all docs

29
docs citations

29
times ranked

1986
citing authors

#	ARTICLE	IF	CITATIONS
1	Chitosan as biomaterial in drug delivery and tissue engineering. International Journal of Biological Macromolecules, 2018, 110, 97-109.	3.6	517
2	Microfabrication and characterization of a silicon-based millimeter scale, PEM fuel cell operating with hydrogen, methanol, or formic acid. Sensors and Actuators B: Chemical, 2005, 107, 882-891.	4.0	106
3	Determination of aromatic amines in water samples by capillary electrophoresis with electrochemical and fluorescence detection. Journal of Chromatography A, 2000, 895, 197-203.	1.8	86
4	Chitosan stabilized gold nanoparticle mediated self-assembled gliP nanobiosensor for diagnosis of Invasive Aspergillosis. International Journal of Biological Macromolecules, 2018, 110, 449-456.	3.6	73
5	Rapid determination of sulfonamides in milk using micellar electrokinetic chromatography with fluorescence detection. Analytica Chimica Acta, 2005, 552, 110-115.	2.6	50
6	Novel transparent poly(silazane) derived solvent-resistant, bio-compatible microchannels and substrates: application in microsystem technology. Lab on A Chip, 2006, 6, 1200.	3.1	41
7	Fast separation and sensitive detection of carcinogenic aromatic amines by reversed-phase μ -liquid chromatography coupled with electrochemical detection. Journal of Chromatography A, 2005, 1089, 52-58.	1.8	32
8	Droplet-Based Microfluidics. Methods in Molecular Biology, 2013, 949, 207-230.	0.4	31
9	Facile single step fabrication of microchannels with varying size. Lab on A Chip, 2009, 9, 1138.	3.1	30
10	Determination of aldehydes in water samples by capillary electrophoresis after derivatization with hydrazino benzene sulfonic acid. Chromatographia, 1998, 48, 807-810.	0.7	23
11	Bromo-oxidation reaction in enzyme-entrapped alginate hollow microfibers. Biomicrofluidics, 2011, 5, 024117.	1.2	22
12	Fabrication of cost-effective and efficient paper-based device for viscosity measurement. Analytica Chimica Acta, 2018, 1044, 86-92.	2.6	22
13	A microfluidic device approach to generate hollow alginate microfibers with controlled wall thickness and inner diameter. Journal of Applied Physics, 2015, 117, .	1.1	21
14	An affordable, rapid determination of total lipid profile using paper-based microfluidic device. Sensors and Actuators B: Chemical, 2019, 285, 405-412.	4.0	21
15	Cross-linked chitosan biofunctionalized paper-based microfluidic device towards long term stabilization of blood typing antibodies. International Journal of Biological Macromolecules, 2020, 163, 1233-1239.	3.6	20
16	Complex target SELEX-based identification of DNA aptamers against Bungarus caeruleus venom for the detection of envenomation using a paper-based device. Biosensors and Bioelectronics, 2021, 193, 113523.	5.3	15
17	DNA mutation analysis based on capillary electrochromatography using colloidal poly(N-isopropylacrylamide) particles as pseudostationary phase. Talanta, 2006, 68, 940-944.	2.9	13
18	Rapid and cost-effective fabrication of selectively permeable calcium-alginate microfluidic device using α -modified embedded template method. Biomicrofluidics, 2012, 6, 12821-128219.	1.2	12

#	ARTICLE	IF	CITATIONS
19	Modulation of Stem Cell Differentiation by the Influence of Nanobiomaterials/ Carriers. Current Stem Cell Research and Therapy, 2014, 9, 458-468.	0.6	12
20	Fabrication of porous SiC-based ceramic microchannels via pyrolysis of templated preceramic polymers. Journal of Materials Research, 2006, 21, 1543-1549.	1.2	11
21	Fabrication and characterization of gold nanohole electrode arrays. Sensors and Actuators B: Chemical, 2012, 173, 491-496.	4.0	11
22	Fabrication of multilayer microstructures using dry film resist and deep reactive ion etcher. Micro and Nano Letters, 2010, 5, 121.	0.6	8
23	A continuous-exchange cell-free protein synthesis system fabricated on a chip. Analytical Biochemistry, 2007, 365, 280-282.	1.1	7
24	Foil assisted replica molding for fabrication of microfluidic devices and their application in vitro. Lab on A Chip, 2014, 14, 3695-3699.	3.1	7
25	A novel method for fabrication of paper-based microfluidic devices using BSA-ink. International Journal of Biological Macromolecules, 2021, 193, 1617-1622.	3.6	5
26	Ready-to-use vertical flow paper device for instrument-free room temperature reverse transcription. New Biotechnology, 2022, 68, 77-86.	2.4	2
27	Fabrication of Ceramic Microchannels with Tailored Pores. Materials Science Forum, 2006, 510-511, 1030-1037.	0.3	0