

Vinay V Abhyankar

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

759
citations

840776

11
h-index

888059

17
g-index

24
all docs

24
docs citations

24
times ranked

1178
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of a membrane-based gradient generator for use in cell-signaling studies. Lab on A Chip, 2006, 6, 389.	6.0	221
2	A platform for assessing chemotactic migration within a spatiotemporally defined 3D microenvironment. Lab on A Chip, 2008, 8, 1507.	6.0	125
3	New experimental models of the blood-brain barrier for CNS drug discovery. Expert Opinion on Drug Discovery, 2017, 12, 89-103.	5.0	96
4	Microfluidic logic gates and timers. Lab on A Chip, 2007, 7, 1449.	6.0	71
5	Spatiotemporal Micropatterning of Cells on Arbitrary Substrates. Analytical Chemistry, 2007, 79, 4066-4073.	6.5	40
6	A Reversibly Sealed, Easy Access, Modular (SEAM) Microfluidic Architecture to Establish In Vitro Tissue Interfaces. PLoS ONE, 2016, 11, e0156341.	2.5	37
7	Ultrasensitive multi-species detection of CRISPR-Cas9 by a portable centrifugal microfluidic platform. Analytical Methods, 2019, 11, 559-565.	2.7	24
8	A Low-Cost, Rapidly Integrated Debubbler (RID) Module for Microfluidic Cell Culture Applications. Micromachines, 2019, 10, 360.	2.9	24
9	Engineering fiber anisotropy within natural collagen hydrogels. American Journal of Physiology - Cell Physiology, 2021, 320, C1112-C1124.	4.6	24
10	Microengineered 3D Collagen Gels with Independently Tunable Fiber Anisotropy and Directionality. Advanced Materials Technologies, 2021, 6, 2001186.	5.8	19
11	Rapid detection of trace bacteria in biofluids using porous monoliths in microchannels. Biosensors and Bioelectronics, 2014, 54, 435-441.	10.1	17
12	Microfluidic platforms for RNA interference screening of virus-host interactions. Lab on A Chip, 2013, 13, 811.	6.0	13
13	One-step fabrication of flexible nanotextured PDMS as a substrate for selective cell capture. Biomedical Physics and Engineering Express, 2018, 4, 025015.	1.2	10
14	Local extensional flows promote long-range fiber alignment in 3D collagen hydrogels. Biofabrication, 2022, 14, 035019.	7.1	10
15	A miniaturized 3D printed pressure regulator (μ PR) for microfluidic cell culture applications. Scientific Reports, 2022, 12, .	3.3	8
16	In Vitro BBB Models: Working with Static Platforms and Microfluidic Systems. Neuromethods, 2019, , 55-70.	0.3	3
17	Thirty-Minute Total Synthesis of Microfluidic Systems and Functionalized Porous Elements via "Living" Radical Photo-Polymerization. Advanced Healthcare Materials, 2012, 1, 773-778.	7.6	2
18	Human Embryonic Stem Cells & Microfluidics. , 2004, , 257-272.		0