

Vinay V Abhyankar

List of Publications by Year in descending order

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18
papers

759
citations

840776

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24
docs citations

24
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1178
citing authors

#	ARTICLE	IF	CITATIONS
1	A miniaturized 3D printed pressure regulator ($\hat{\mu}$ PR) for microfluidic cell culture applications. Scientific Reports, 2022, 12, .	3.3	8
2	Local extensional flows promote long-range fiber alignment in 3D collagen hydrogels. Biofabrication, 2022, 14, 035019.	7.1	10
3	Microengineered 3D Collagen Gels with Independently Tunable Fiber Anisotropy and Directionality. Advanced Materials Technologies, 2021, 6, 2001186.	5.8	19
4	Engineering fiber anisotropy within natural collagen hydrogels. American Journal of Physiology - Cell Physiology, 2021, 320, C1112-C1124.	4.6	24
5	Ultrasensitive multi-species detection of CRISPR-Cas9 by a portable centrifugal microfluidic platform. Analytical Methods, 2019, 11, 559-565.	2.7	24
6	A Low-Cost, Rapidly Integrated Debubbler (RID) Module for Microfluidic Cell Culture Applications. Micromachines, 2019, 10, 360.	2.9	24
7	In Vitro BBB Models: Working with Static Platforms and Microfluidic Systems. Neuromethods, 2019, , 55-70.	0.3	3
8	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
9	New experimental models of the blood-brain barrier for CNS drug discovery. Expert Opinion on Drug Discovery, 2017, 12, 89-103.	5.0	96
10	A Reversibly Sealed, Easy Access, Modular (SEAM) Microfluidic Architecture to Establish In Vitro Tissue Interfaces. PLoS ONE, 2016, 11, e0156341.	2.5	37
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	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
14	A platform for assessing chemotactic migration within a spatiotemporally defined 3D microenvironment. Lab on A Chip, 2008, 8, 1507.	6.0	125
15	Spatiotemporal Micropatterning of Cells on Arbitrary Substrates. Analytical Chemistry, 2007, 79, 4066-4073.	6.5	40
16	Microfluidic logic gates and timers. Lab on A Chip, 2007, 7, 1449.	6.0	71
17	Characterization of a membrane-based gradient generator for use in cell-signaling studies. Lab on A Chip, 2006, 6, 389.	6.0	221
18	Human Embryonic Stem Cells & Microfluidics. , 2004, , 257-272.		0