Emmanuel Roy

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4380852/publications.pdf

Version: 2024-02-01

24 papers	994 citations	566801 15 h-index	752256 20 g-index
24 all docs	24 docs citations	24 times ranked	1397 citing authors

#	Article	IF	Citations
1	Serial siphon valving for centrifugal microfluidic platforms. Microfluidics and Nanofluidics, 2010, 9, 55-63.	1.0	123
2	Surface topography induces 3D self-orientation of cells and extracellular matrix resulting in improved tissue function. Integrative Biology (United Kingdom), 2009, 1, 196.	0.6	103
3	Surface modification of thermoplasticsâ€"towards the plastic biochip for high throughput screening devices. Lab on A Chip, 2007, 7, 856-862.	3.1	101
4	Microlens array fabrication by enhanced thermal reflow process: Towards efficient collection of fluorescence light from microarrays. Microelectronic Engineering, 2009, 86, 2255-2261.	1.1	87
5	Thermoplastic elastomers for microfluidics: Towards a high-throughput fabrication method of multilayered microfluidic devices. Lab on A Chip, 2011, 11, 3193.	3.1	78
6	From cellular lysis to microarray detection, an integrated thermoplastic elastomer (TPE) point of care Lab on a Disc. Lab on A Chip, 2015, 15, 406-416.	3.1	69
7	Using electrochemical coupling between parallel microbands for in situ monitoring of flow rates in microfluidic channels. Journal of Electroanalytical Chemistry, 2004, 573, 333-343.	1.9	64
8	Microfluidic ELISA on non-passivated PDMS chip using magnetic bead transfer inside dual networks of channels. Lab on A Chip, 2007, 7, 1546.	3.1	62
9	Prototyping of microfluidic systems using a commercial thermoplastic elastomer. Microfluidics and Nanofluidics, 2011, 11, 235-244.	1.0	44
10	Low-Cost, Accessible Fabrication Methods for Microfluidics Research in Low-Resource Settings. Micromachines, 2018, 9, 461.	1.4	41
11	Microfluidic Patterning of Miniaturized DNA Arrays on Plastic Substrates. ACS Applied Materials & Interfaces, 2009, 1, 1387-1395.	4.0	39
12	Thermoplastic elastomer with advanced hydrophilization and bonding performances for rapid (30 s) and easy molding of microfluidic devices. Lab on A Chip, 2017, 17, 2581-2594.	3.1	39
13	3D thermoplastic elastomer microfluidic devices for biological probe immobilization. Lab on A Chip, 2011, 11, 4099.	3.1	37
14	Rapid isothermal substrate microfabrication of a biocompatible thermoplastic elastomer for cellular contact guidance. Acta Biomaterialia, 2011, 7, 2492-2498.	4.1	30
15	Fabrication of adjacent micropillar arrays with different heights for cell studies. Microelectronic Engineering, 2016, 158, 22-25.	1.1	18
16	Fabrication of SOI photonic crystal slabs by soft UV-nanoimprint lithography. Microelectronic Engineering, 2006, 83, 1773-1777.	1.1	16
17	Field Emission from an Array of Free-standing Metallic Nanowires. Chinese Physics Letters, 2002, 19, 1016-1018.	1.3	13
18	Stretching the Stamp: A Flexible Approach to the Fabrication of Miniaturized DNA Arrays. Small, 2009, 5, 2514-2518.	5.2	10

#	Article	IF	Citations
19	Soft Thermoplastic Elastomer for Easy and Rapid Spinâ€Coating Fabrication of Microfluidic Devices with High Hydrophilization and Bonding Performances. Advanced Materials Technologies, 2019, 4, 1800308.	3.0	10
20	Overview of Materials for Microfluidic Applications. , 0, , .		7
21	Selfâ€sealing thermoplastic fluoroelastomer enables rapid fabrication of modular microreactors. Nano Select, 2021, 2, 1385-1402.	1.9	3
22	Fabrication of soft nanoimprint stamps and polymer subwavelength gratings by spin coating techniques. , 2005, 5635, 144.		0
23	Fabrication of Microfluidic Devices in Thermoplastic Elastomeric Materials for DNA Detection on Thermal Plastic Substrate. Materials Research Society Symposia Proceedings, 2009, 1222, 1.	0.1	0
24	Molecular Microfluidic Bioanalysis: Recent Progress in Preconcentration, Separation, and Detection. , 0, , .		0