Murat Gel

List of Publications by Year
in descending order

22 papers	273 citations	1040056 9 h-index	940533 16 g-index
23 all docs	23 docs citations	23 times ranked	352 citing authors

#	Article	IF	Citations
1	Dielectrophoretic cell trapping and parallel one-to-one fusion based on field constriction created by a micro-orifice array. Biomicrofluidics, 2010, 4, .	2.4	80
2	Dielectrophoresisâ€assisted massively parallel cell pairing and fusion based on field constriction created by a microâ€orifice array sheet. Electrophoresis, 2011, 32, 2496-2501.	2.4	41
3	Real-time, continuous detection of maltose using bioluminescence resonance energy transfer (BRET) on a microfluidic system. Biosensors and Bioelectronics, 2014, 62, 177-181.	10.1	23
4	Fabrication method for out-of-plane, micro-coil by surface micromachining. Sensors and Actuators A: Physical, 2002, 97-98, 702-708.	4.1	21
5	Direct Measurement of the Binding Force between Microfabricated Particles and a Planar Surface in Aqueous Solution by Force-Sensing Piezoresistive Cantilevers. Langmuir, 2005, 21, 11251-11261.	3.5	19
6	Progress in bio-manufacture of platelets for transfusion. Platelets, 2017, 28, 649-656.	2.3	16
7	Sub-nanomolar detection of thrombin activity on a microfluidic chip. Biomicrofluidics, 2014, 8, 064110.	2.4	11
8	A Miniature Gas Sampling Interface with Open Microfluidic Channels: Characterization of Gas-to-Liquid Extraction Efficiency of Volatile Organic Compounds. Micromachines, 2019, 10, 486.	2.9	11
9	Development and characterisation of a compact device for rapid real-time-on-chip detection of thrombin activity in human serum using bioluminescence resonance energy transfer (BRET). Biosensors and Bioelectronics, 2020, 158, 112162.	10.1	10
10	Characterisation of optically driven microstructures for manipulating single DNA molecules under a fluorescence microscope. IET Nanobiotechnology, 2016, 10, 124-128.	3.8	9
11	Mechanically Controlled Quantum Contact With On-Chip MEMS Actuator. Journal of Microelectromechanical Systems, 2007, 16, 1-6.	2.5	6
12	Fabrication of free standing microporous COC membranes optimized for in vitro barrier tissue models. Sensors and Actuators A: Physical, 2014, 215, 51-55.	4.1	6
13	Subcellular glucose exposure biases the spatial distribution of insulin granules in single pancreatic beta cells. Scientific Reports, 2014, 4, 4123.	3.3	6
14	Parallel-plate electrostatic actuation with vertical hinges. Journal of Micromechanics and Microengineering, 2001, 11, 555-560.	2.6	5
15	Application of a Microfluidic Gas-to-Liquid Interface for Extraction of Target Amphetamines and Precursors from Air Samples. Micromachines, 2020, 11, 315.	2.9	3
16	Microfluidic device for high-yield pairing and fusion of stem cells with somatic cells. , 2011, , .		2
17	10.1063/1.3422544.1. , 2010, , .		2
18	Immobilisation of Multiple Ligands Using Peptide Nucleic Acids: A Strategy to Prepare the Microenvironment for Cell Culture. ChemistrySelect, 2017, 2, 4028-4032.	1.5	1

#	Article	IF	Citations
19	Fabrication Method for Out-of-Plane Coil by Surface Micromachining. , 2001, , 1574-1577.		1
20	1P-309 HIGH-YIELD PARALLEL ELECTRO-FUSION DEVICE BASED ON FIELD CONSTRICTION AT AN ORIFICE ARRAY(The 46th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2008, 48, S70.	0.1	0
21	P-MCH-03 LOCALIZED SUBSTANCE DELIVERY TO SINGLE CELL BY THREE DIMENTIONAL MICROFLUIDIC DEVICE(Micro/Nanomechatronics,Technical Program of Poster Session). Proceedings of JSME-IIP/ASME-ISPS Joint Conference on Micromechatronics for Information and Precision Equipment IIP/ISPS Joint MIPE, 2009, 2009, 385-386.	0.0	0
22	Cell Fusion in Microfluidics. , 2014, , 1-8.		0