Shih-Hao Huang

List of Publications by Year
in descending order

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29 papers	524 citations	840776 11 h-index	642732 23 g-index
29 all docs	29 docs citations	29 times ranked	914 citing authors

#	Article	IF	Citations
1	A Miniature Intermittent-Flow Respirometry System with a 3D-Printed, Palm-Sized Zebrafish Treadmill for Measuring Rest and Activity Metabolic Rates. Sensors, 2020, 20, 5088.	3.8	6
2	A Self-Powered Glucose Biosensor Operated Underwater to Monitor Physiological Status of Free-Swimming Fish. Energies, 2019, 12, 1827.	3.1	9
3	Bioenergetic Health Assessment of a Single Caenorhabditis elegans from Postembryonic Development to Aging Stages via Monitoring Changes in the Oxygen Consumption Rate within a Microfluidic Device. Sensors, 2018, 18, 2453.	3.8	12
4	Simultaneous monitoring of oxygen consumption and acidification rates of a single zebrafish embryo during embryonic development within a microfluidic device. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	12
5	Light-Addressable Measurement of in Vivo Tissue Oxygenation in an Unanesthetized Zebrafish Embryo via Phase-Based Phosphorescence Lifetime Detection. Sensors, 2015, 15, 8146-8162.	3.8	4
6	Stop-flow Lithography to Continuously Fabricate Microlens Structures Utilizing an Adjustable Three-Dimensional Mask. Micromachines, 2014, 5, 667-680.	2.9	7
7	Light-Addressable Electrodeposition of Magnetically-Guided Cells Encapsulated in Alginate Hydrogels for Three-Dimensional Cell Patterning. Micromachines, 2014, 5, 1173-1187.	2.9	3
8	Assessment of the inhibition of Dengue virus infection by carrageenan via real-time monitoring of cellular oxygen consumption rates within a microfluidic device. Biomicrofluidics, 2014, 8, 024110.	2.4	8
9	Application of the inclined exposure and molding process to fabricate a micro beam-splitter with nanometer roughness. Microsystem Technologies, 2013, 19, 461-470.	2.0	3
10	Cells adhered and cultured on microcantilevers. Microsystem Technologies, 2013, 19, 105-112.	2.0	1
11	Light-Addressed Electrodeposition of Enzyme-Entrapped Chitosan Membranes for Multiplexed Enzyme-Based Bioassays Using a Digital Micromirror Device. Sensors, 2013, 13, 10711-10724.	3.8	17
12	Metabolic profile analysis of a single developing zebrafish embryo via monitoring of oxygen consumption rates within a microfluidic device. Biomicrofluidics, 2013, 7, 64107.	2.4	21
13	Light-addressable measurements of cellular oxygen consumption rates in microwell arrays based on phase-based phosphorescence lifetime detection. Biomicrofluidics, 2012, 6, 44118.	2.4	13
14	Light-addressable electrochemical micropatterning of cell-encapsulated alginate hydrogels for cell-based microarray. , 2012, , .		0
15	Self-Assembly in Micro- and Nanofluidic Devices: A Review of Recent Efforts. Micromachines, 2011, 2, 17-48.	2.9	27
16	Analysis of the paracrine loop between cancer cells and fibroblasts using a microfluidic chip. Lab on A Chip, 2011, 11, 1808.	6.0	48
17	Selective Deposition of Electrospun Alginate-Based Nanofibers onto Cell-Repelling Hydrogel Surfaces for Cell-Based Microarrays. Current Nanoscience, 2011, 7, 267-274.	1.2	8
18	Light-directed, spatially addressable oxygen detection in a hydrogel microarray based on phase-based lifetime detection using a digital micromirror device. Sensors and Actuators A: Physical, 2011, 165, 139-146.	4.1	9

#	Article	IF	Citations
19	Light-addressable electrodeposition of cell-encapsulated alginate hydrogels for a cellular microarray using a digital micromirror device. Biomicrofluidics, 2011, 5, 034109.	2.4	22
20	Configurable AC electroosmotic generated in-plane microvortices and pumping flow in microchannels. Microfluidics and Nanofluidics, 2010, 8, 187-195.	2.2	11
21	Molding and hot forming techniques for fabricating plastic aspheric lenses with high blue-light transmittance. Microsystem Technologies, 2010, 16, 1439-1444.	2.0	10
22	Research on electrostatic actuator polymer thin-film for controlling light scattering phenomena. Microsystem Technologies, 2010, 16, 1649-1655.	2.0	0
23	Dynamically adjustable three-dimensional gray masks operated by electrostatic force modulation for the fabrication of microlens arrays in microchannels. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2010, 9, 043002.	0.9	3
24	Microfluidic Systems for Biosensing. Sensors, 2010, 10, 6623-6661.	3.8	95
25	A novel fabrication method of the micro cube beam-splitter with optical surface roughness. , 2010, , .		2
26	Synthesis of bio-functionalized copolymer particles bearing carboxyl groups via a microfluidic device. Microfluidics and Nanofluidics, 2008, 5, 459-468.	2.2	11
27	AC electroosmotic generated in-plane microvortices for stationary or continuous fluid mixing. Sensors and Actuators B: Chemical, 2007, 125, 326-336.	7.8	50
28	A monolithically three-dimensional flow-focusing device for formation of single/double emulsions in closed/open microfluidic systems. Journal of Micromechanics and Microengineering, 2006, 16, 2336-2344.	2.6	76
29	Development of a monolithic total internal reflection-based biochip utilizing a microprism array for fluorescence sensing. Journal of Micromechanics and Microengineering, 2005, 15, 2235-2242.	2.6	36