Chih-kuan Tung

List of Publications by Year
in descending order

27	1,786	566801 15	642321 23
papers	citations	h-index	g-index

28	28	28	2785
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In Vivo and Scanning Electron Microscopy Imaging of Upconverting Nanophosphors inCaenorhabditiselegans. Nano Letters, 2006, 6, 169-174.	4.5	520
2	Acceleration of Emergence of Bacterial Antibiotic Resistance in Connected Microenvironments. Science, 2011, 333, 1764-1767.	6.0	472
3	Fluid viscoelasticity promotes collective swimming of sperm. Scientific Reports, 2017, 7, 3152.	1.6	93
4	Emergence of Upstream Swimming via a Hydrodynamic Transition. Physical Review Letters, 2015, 114, 108102.	2.9	91
5	Universal Protein Fluctuations in Populations of Microorganisms. Physical Review Letters, 2012, 108, 238105.	2.9	82
6	Microgrooves and fluid flows provide preferential passageways for sperm over pathogen Tritrichomonas foetus. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5431-5436.	3.3	79
7	Cooperative roles of biological flow and surface topography in guiding sperm migration revealed by a microfluidic model. Lab on A Chip, 2014, 14, 1348-1356.	3.1	78
8	Interstitial flows promote amoeboid over mesenchymal motility of breast cancer cells revealed by a three dimensional microfluidic model. Integrative Biology (United Kingdom), 2015, 7, 1402-1411.	0.6	61
9	Upconverting nanophosphors for bioimaging. Nanotechnology, 2009, 20, 405701.	1.3	59
10	Dynamics of Bovine Sperm Interaction with Epithelium Differ Between Oviductal Isthmus and Ampulla. Biology of Reproduction, 2016, 95, 90-90.	1.2	49
11	A contact line pinning based microfluidic platform for modelling physiological flows. Lab on A Chip, 2013, 13, 3876.	3.1	39
12	Dynamic self-organization of microwell-aggregated cellular mixtures. Soft Matter, 2016, 12, 5739-5746.	1.2	33
13	Co-Adaptation of Physical Attributes of the Mammalian Female Reproductive Tract and Sperm to Facilitate Fertilization. Cells, 2021, 10, 1297.	1.8	24
14	Effects of objective numerical apertures on achievable imaging depths in multiphoton microscopy. Microscopy Research and Technique, 2004, 65, 308-314.	1.2	23
15	An introduction to micro-ecology patches. Chemical Society Reviews, 2010, 39, 1049.	18.7	20
16	An array microhabitat system for high throughput studies of microalgal growth under controlled nutrient gradients. Lab on A Chip, 2015, 15, 3687-3694.	3.1	11
17	Dynamics of Spiral Waves under Phase Feedback Control in a Belousov-Zhabotinsky Reaction. Physical Review Letters, 2002, 89, 248302.	2.9	10
18	Computer-assisted beat-pattern analysis and the flagellar waveforms of bovine spermatozoa. Royal Society Open Science, 2020, 7, 200769.	1.1	10

#	Article	IF	Citations
19	Effects of different immersion media in multiphoton imaging of the epithelium and dermis of human skin. Microscopy Research and Technique, 2006, 69, 992-997.	1.2	9
20	Nanochannels for Genomic DNA Analysis: The Long and the Short of It. , 2007, , 151-186.		7
21	The anti-lotus leaf effect in nanohydrodynamic bump arrays. New Journal of Physics, 2010, 12, 085008.	1.2	6
22	Complementary metal oxide semiconductor compatible fabrication and characterization of parylene-C covered nanofluidic channels with integrated nanoelectrodes. Biomicrofluidics, 2009, 3, 031101.	1.2	5
23	SENSING DNA WITH ALTERNATING CURRENTS USING A NANOGAP SENSOR EMBEDDED IN A NANOCHANNEL DEVICE. Nano LIFE, 2013, 03, 1340007.	0.6	2
24	Effects of index-mismatch-induced spherical aberration on two-photon imaging in skin and tissue-like constructs. , 2003, , .		1
25	Model parameter learning using Kullbackâ€“Leibler divergence. Physica A: Statistical Mechanics and Its Applications, 2018, 491, 549-559.	1.2	1
26	Use of sub-10 nm Diameter Upconversion Nanophosphors as Bio-labels. Materials Research Society Symposia Proceedings, 2006, 950, 1.	0.1	0
27	Fabrication Of Sealed Nanofluidic Channels Integrated With Surface Electronics. Biophysical Journal, 2009, 96, 552a.	0.2	0