

# Chih-kuan Tung

## List of Publications by Year in descending order

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27  
papers

1,786  
citations

566801

15  
h-index

642321

23  
g-index

28  
all docs

28  
docs citations

28  
times ranked

2785  
citing authors

#	ARTICLE	IF	CITATIONS
1	Co-Adaptation of Physical Attributes of the Mammalian Female Reproductive Tract and Sperm to Facilitate Fertilization. <i>Cells</i> , 2021, 10, 1297.	1.8	24
2	Computer-assisted beat-pattern analysis and the flagellar waveforms of bovine spermatozoa. <i>Royal Society Open Science</i> , 2020, 7, 200769.	1.1	10
3	Model parameter learning using Kullback-Leibler divergence. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 491, 549-559.	1.2	1
4	Fluid viscoelasticity promotes collective swimming of sperm. <i>Scientific Reports</i> , 2017, 7, 3152.	1.6	93
5	Dynamics of Bovine Sperm Interaction with Epithelium Differ Between Oviductal Isthmus and Ampulla. <i>Biology of Reproduction</i> , 2016, 95, 90-90.	1.2	49
6	Dynamic self-organization of microwell-aggregated cellular mixtures. <i>Soft Matter</i> , 2016, 12, 5739-5746.	1.2	33
7	Interstitial flows promote amoeboid over mesenchymal motility of breast cancer cells revealed by a three dimensional microfluidic model. <i>Integrative Biology (United Kingdom)</i> , 2015, 7, 1402-1411.	0.6	61
8	An array microhabitat system for high throughput studies of microalgal growth under controlled nutrient gradients. <i>Lab on A Chip</i> , 2015, 15, 3687-3694.	3.1	11
9	Emergence of Upstream Swimming via a Hydrodynamic Transition. <i>Physical Review Letters</i> , 2015, 114, 108102.	2.9	91
10	Microgrooves and fluid flows provide preferential passageways for sperm over pathogen <i>Tritrichomonas foetus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5431-5436.	3.3	79
11	Cooperative roles of biological flow and surface topography in guiding sperm migration revealed by a microfluidic model. <i>Lab on A Chip</i> , 2014, 14, 1348-1356.	3.1	78
12	A contact line pinning based microfluidic platform for modelling physiological flows. <i>Lab on A Chip</i> , 2013, 13, 3876.	3.1	39
13	SENSING DNA WITH ALTERNATING CURRENTS USING A NANOGAP SENSOR EMBEDDED IN A NANOCHANNEL DEVICE. <i>Nano LIFE</i> , 2013, 03, 1340007.	0.6	2
14	Universal Protein Fluctuations in Populations of Microorganisms. <i>Physical Review Letters</i> , 2012, 108, 238105.	2.9	82
15	Acceleration of Emergence of Bacterial Antibiotic Resistance in Connected Microenvironments. <i>Science</i> , 2011, 333, 1764-1767.	6.0	472
16	The anti-lotus leaf effect in nanohydrodynamic bump arrays. <i>New Journal of Physics</i> , 2010, 12, 085008.	1.2	6
17	An introduction to micro-ecology patches. <i>Chemical Society Reviews</i> , 2010, 39, 1049.	18.7	20
18	Complementary metal oxide semiconductor compatible fabrication and characterization of parylene-C covered nanofluidic channels with integrated nanoelectrodes. <i>Biomicrofluidics</i> , 2009, 3, 031101.	1.2	5

#	ARTICLE	IF	CITATIONS
19	Upconverting nanophosphors for bioimaging. Nanotechnology, 2009, 20, 405701.	1.3	59
20	Fabrication Of Sealed Nanofluidic Channels Integrated With Surface Electronics. Biophysical Journal, 2009, 96, 552a.	0.2	0
21	Nanochannels for Genomic DNA Analysis: The Long and the Short of It. , 2007, , 151-186.		7
22	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
23	In Vivo and Scanning Electron Microscopy Imaging of Upconverting Nanophosphors inCaenorhabditiselegans. Nano Letters, 2006, 6, 169-174.	4.5	520
24	Use of sub-10 nm Diameter Upconversion Nanophosphors as Bio-labels. Materials Research Society Symposia Proceedings, 2006, 950, 1.	0.1	0
25	Effects of objective numerical apertures on achievable imaging depths in multiphoton microscopy. Microscopy Research and Technique, 2004, 65, 308-314.	1.2	23
26	Effects of index-mismatch-induced spherical aberration on two-photon imaging in skin and tissue-like constructs. , 2003, , .		1
27	Dynamics of Spiral Waves under Phase Feedback Control in a Belousov-Zhabotinsky Reaction. Physical Review Letters, 2002, 89, 248302.	2.9	10