David Liao

List of Publications by Year
in descending order

18 papers	**1,002** citations	687363 **13** h-index	839539 **18** g-index
19 all docs	**19** docs citations	**19** times ranked	**1543** citing authors

#	ARTICLE	IF	CITATIONS
1	Acceleration of Emergence of Bacterial Antibiotic Resistance in Connected Microenvironments. Science, 2011, 333, 1764-1767.	12.6	472
2	An analogy between the evolution of drug resistance in bacterial communities and malignant tissues. Nature Reviews Cancer, 2011, 11, 375-382.	28.4	151
3	Collective Escape of Chemotactic Swimmers through Microscopic Ratchets. Physical Review Letters, 2010, 104, 168102.	7.8	85
4	Computation of mutual fitness by competing bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20269-20273.	7.1	54
5	Game theory in the death galaxy: interaction of cancer and stromal cells in tumour microenvironment. Interface Focus, 2014, 4, 20140028.	3.0	34
6	Anomalous Spatial Redistribution of Competing Bacteria under Starvation Conditions. Journal of Bacteriology, 2011, 193, 1878-1883.	2.2	29
7	A microfluidic device for continuous cancer cell culture and passage with hydrodynamic forces. Lab on A Chip, 2010, 10, 1807.	6.0	28
8	Single molecule correlation spectroscopy in continuous flow mixers with zero-mode waveguides. Optics Express, 2008, 16, 10077.	3.4	22
9	An introduction to micro-ecology patches. Chemical Society Reviews, 2010, 39, 1049.	38.1	20
10	Evolutionary game theory for physical and biological scientists. II. Population dynamics equations can be associated with interpretations. Interface Focus, 2014, 4, 20140038.	3.0	19
11	Conceptualizing a tool to optimize therapy based on dynamic heterogeneity. Physical Biology, 2012, 9, 065005.	1.8	18
12	The Goldilocks Principle and Antibiotic Resistance in Bacteria. Molecular Pharmaceutics, 2011, 8, 2063-2068.	4.6	17
13	Physics of cancer propagation: A game theory perspective. AIP Advances, 2012, 2, 11202.	1.3	15
14	Evolutionary game theory for physical and biological scientists. I. Training and validating population dynamics equations. Interface Focus, 2014, 4, 20140037.	3.0	14
15	Evolutionary game theory in cancer: first steps in prediction of metastatic cancer progression?. Future Oncology, 2015, 11, 881-883.	2.4	10
16	Generalized principles of stochasticity can be used to control dynamic heterogeneity. Physical Biology, 2012, 9, 065006.	1.8	7
17	Cancer dormancy and criticality from a game theory perspective. Cancer Convergence, 2018, 2, 1.	8.0	6
18	A SiQuENC for solving physics problems. Physics Teacher, 2018, 56, 264-265.	0.3	1