

Philip Pearce

List of Publications by Year in descending order

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Version: 2024-02-01

13
papers

435
citations

932766

10
h-index

1125271

13
g-index

17
all docs

17
docs citations

17
times ranked

571
citing authors

#	ARTICLE	IF	CITATIONS
1	Feature tracking microfluidic analysis reveals differential roles of viscosity and friction in sickle cell blood. <i>Lab on A Chip</i> , 2022, 22, 1565-1575.	3.1	12
2	Emergent robustness of bacterial quorum sensing in fluid flow. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	28
3	Physical and geometric determinants of transport in fetoplacental microvascular networks. <i>Science Advances</i> , 2019, 5, eaav6326.	4.7	27
4	Flow-Induced Symmetry Breaking in Growing Bacterial Biofilms. <i>Physical Review Letters</i> , 2019, 123, 258101.	2.9	41
5	Learning dynamical information from static protein and sequencing data. <i>Nature Communications</i> , 2019, 10, 5368.	5.8	12
6	Emergence of three-dimensional order and structure in growing biofilms. <i>Nature Physics</i> , 2019, 15, 251-256.	6.5	211
7	Taylor dispersion in premixed combustion: Questions from turbulent combustion answered for laminar flames. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	10
8	Initiation and evolution of triple flames subject to thermal expansion and gravity. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 1431-1437.	2.4	4
9	Image-Based Modeling of Blood Flow and Oxygen Transfer in Feto-Placental Capillaries. <i>PLoS ONE</i> , 2016, 11, e0165369.	1.1	35
10	Flame balls in non-uniform mixtures: existence and finite activation energy effects. <i>Combustion Theory and Modelling</i> , 2016, 20, 1-33.	1.0	12
11	Taylor dispersion and thermal expansion effects on flame propagation in a narrow channel. <i>Journal of Fluid Mechanics</i> , 2014, 754, 161-183.	1.4	19
12	Rayleigh-Bénard instability generated by a diffusion flame. <i>Journal of Fluid Mechanics</i> , 2013, 736, 464-494.	1.4	8
13	The effect of gravity and thermal expansion on the propagation of a triple flame in a horizontal channel. <i>Combustion and Flame</i> , 2013, 160, 2800-2809.	2.8	13