

Roberto Rusconi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42
papers

2,809
citations

27
h-index

48
g-index

48
ext. papers

3,307
ext. citations

7
avg, IF

5.29
L-index

#	Paper	IF	Citations
42	Fluid Mechanics of Planktonic Microorganisms. <i>Annual Review of Fluid Mechanics</i> , 2012 , 44, 373-400	22	326
41	Bacterial transport suppressed by fluid shear. <i>Nature Physics</i> , 2014 , 10, 212-217	16.2	225
40	The extracellular matrix Component Psl provides fast-acting antibiotic defense in <i>Pseudomonas aeruginosa</i> biofilms. <i>PLoS Pathogens</i> , 2013 , 9, e1003526	7.6	182
39	The Classical Nature of Thermal Conduction in Nanofluids. <i>Journal of Heat Transfer</i> , 2010 , 132,	1.8	171
38	The "macromolecular tourist": universal temperature dependence of thermal diffusion in aqueous colloidal suspensions. <i>European Physical Journal E</i> , 2006 , 19, 59-67	1.5	162
37	Mean-field versus microconvection effects in nanofluid thermal conduction. <i>Physical Review Letters</i> , 2007 , 99, 095901	7.4	133
36	Laminar flow around corners triggers the formation of biofilm streamers. <i>Journal of the Royal Society Interface</i> , 2010 , 7, 1293-9	4.1	132
35	Microfluidics expanding the frontiers of microbial ecology. <i>Annual Review of Biophysics</i> , 2014 , 43, 65-91	21.1	131
34	A bacterial pathogen uses dimethylsulfoniopropionate as a cue to target heat-stressed corals. <i>ISME Journal</i> , 2014 , 8, 999-1007	11.9	126
33	Shear stress increases the residence time of adhesion of <i>Pseudomonas aeruginosa</i> . <i>Biophysical Journal</i> , 2011 , 100, 341-50	2.9	114
32	"Sticky" hard spheres: equation of state, phase diagram, and metastable gels. <i>Physical Review Letters</i> , 2007 , 99, 098301	7.4	111
31	Thermophoresis: microfluidics characterization and separation. <i>Soft Matter</i> , 2010 , 6, 3489	3.6	99
30	Thermal-lensing measurement of particle thermophoresis in aqueous dispersions. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2004 , 21, 605	1.7	89
29	Secondary flow as a mechanism for the formation of biofilm streamers. <i>Biophysical Journal</i> , 2011 , 100, 1392-9	2.9	84
28	Microbes in flow. <i>Current Opinion in Microbiology</i> , 2015 , 25, 1-8	7.9	77
27	Optical measurements of the thermal properties of nanofluids. <i>Applied Physics Letters</i> , 2006 , 89, 261916	3.4	52
26	Microfluidic Studies of Biofilm Formation in Dynamic Environments. <i>Journal of Bacteriology</i> , 2016 , 198, 2589-95	3.5	47

25	Clinical heterogeneity and diagnostic delay of autoimmune polyendocrinopathy-candidiasis-ectodermal dystrophy syndrome. <i>Clinical Immunology</i> , 2011 , 139, 6-11	9	43
24	Synthesis and degradation of FtsZ quantitatively predict the first cell division in starved bacteria. <i>Molecular Systems Biology</i> , 2018 , 14, e8623	12.2	35
23	Biofilm disruption by an air bubble reveals heterogeneous age-dependent detachment patterns dictated by initial extracellular matrix distribution. <i>Npj Biofilms and Microbiomes</i> , 2017 , 3, 6	8.2	34
22	Shear-induced orientational dynamics and spatial heterogeneity in suspensions of motile phytoplankton. <i>Journal of the Royal Society Interface</i> , 2015 , 12,	4.1	31
21	The shape of an elastic filament in a two-dimensional corner flow. <i>Physics of Fluids</i> , 2011 , 23, 063602	4.4	31
20	Shear-induced diffusion of platelike particles in microchannels. <i>Physical Review Letters</i> , 2008 , 101, 254502	4	31
19	A portable device for temperature control along microchannels. <i>Lab on A Chip</i> , 2010 , 10, 795-8	7.2	29
18	Not Just Going with the Flow: The Effects of Fluid Flow on Bacteria and Plankton. <i>Annual Review of Cell and Developmental Biology</i> , 2019 , 35, 213-237	12.6	28
17	Kinetics of sedimentation in colloidal suspensions. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 494219	19.8	27
16	Deployable micro-traps to sequester motile bacteria. <i>Scientific Reports</i> , 2017 , 7, 45897	4.9	24
15	Numerical Analysis of Convective Instabilities in a Transient Short-Hot-Wire Setup for Measurement of Liquid Thermal Conductivity. <i>International Journal of Thermophysics</i> , 2007 , 28, 1131-1146	2.1	24
14	The effect of flow on swimming bacteria controls the initial colonization of curved surfaces. <i>Nature Communications</i> , 2020 , 11, 2851	17.4	22
13	Resilience of bacterial quorum sensing against fluid flow. <i>Scientific Reports</i> , 2016 , 6, 33115	4.9	20
12	Three-dimensional features in low-Reynolds-number confined corner flows. <i>Journal of Fluid Mechanics</i> , 2011 , 668, 33-57	3.7	20
11	Logarithmic sensing in aerotaxis. <i>Npj Systems Biology and Applications</i> , 2017 , 3, 16036	5	18
10	Intermittent turbulence in flowing bacterial suspensions. <i>Journal of the Royal Society Interface</i> , 2016 , 13,	4.1	13
9	Flagella, flexibility and flow: Physical processes in microbial ecology. <i>European Physical Journal: Special Topics</i> , 2015 , 224, 3119-3140	2.3	8
8	Effect of growth hormone deficiency and recombinant hGH (rhGH) replacement on the hypothalamic-pituitary-adrenal axis in children with idiopathic isolated GH deficiency. <i>Clinical Endocrinology</i> , 2008 , 68, 247-51	3.4	8

7	Focus on the physics of biofilms. <i>New Journal of Physics</i> , 2015 , 17, 030401	2.9	7
6	Environmental, Microbiological, and Immunological Features of Bacterial Biofilms Associated with Implanted Medical Devices.. <i>Clinical Microbiology Reviews</i> , 2022 , e0022120	34	7
5	The structural role of bacterial eDNA in the formation of biofilm streamers.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2113723119	11.5	4
4	Flagella, flexibility and flow: Physical processes in microbial ecology 2015 , 224, 3119		1
3	The effect of flow on swimming bacteria controls the initial colonization of curved surfaces		1
2	Microfluidic-based Time-kill Kinetic Assay. <i>Bio-protocol</i> , 2014 , 4,	0.9	1
1	A microfluidic platform for characterizing the structure and rheology of biofilm streamers		1