

# Shervin Bagheri

## List of Publications by Year in Descending Order

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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.

44  
papers

2,436  
citations

23  
h-index

49  
g-index

51  
ext. papers

3,085  
ext. citations

4.2  
avg, IF

5.39  
L-index

#	Paper	IF	Citations
44	Experimental Characterization and Mathematical Modeling of the Adsorption of Proteins and Cells on Biomimetic Hydroxyapatite.. <i>ACS Omega</i> , <b>2022</b> , 7, 908-920	3.9	0
43	Fluid interfacial energy drives the emergence of three-dimensional periodic structures in micropillar scaffolds. <i>Nature Physics</i> , <b>2021</b> , 17, 794-800	16.2	4
42	Roughness on liquid-infused surfaces induced by capillary waves. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 915,	3.7	2
41	A Soft Material Flow Sensor for Micro Air Vehicles. <i>Soft Robotics</i> , <b>2021</b> , 8, 119-127	9.2	4
40	Higher-Order Homogenized Boundary Conditions for Flows Over Rough and Porous Surfaces. <i>Transport in Porous Media</i> , <b>2021</b> , 136, 1-42	3.1	3
39	Droplet Impact on Surfaces with Asymmetric Microscopic Features. <i>Langmuir</i> , <b>2021</b> , 37, 10849-10858	4	1
38	Transfer of mass and momentum at rough and porous surfaces. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 884,	3.7	24
37	Steady moving contact line of water over a no-slip substrate. <i>European Physical Journal: Special Topics</i> , <b>2020</b> , 229, 1897-1921	2.3	7
36	Modal Analysis of Fluid Flows: Applications and Outlook. <i>AIAA Journal</i> , <b>2020</b> , 58, 998-1022	2.1	124
35	Droplet leaping governs microstructured surface wetting. <i>Soft Matter</i> , <b>2019</b> , 15, 9528-9536	3.6	2
34	Interaction between hairy surfaces and turbulence for different surface time scales. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 861, 556-584	3.7	6
33	Modeling waves in fluids flowing over and through poroelastic media. <i>International Journal of Multiphase Flow</i> , <b>2019</b> , 110, 148-164	3.6	8
32	Edge state modulation by mean viscosity gradients. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 838, 379-403	3.7	2
31	Energy efficiency and performance limitations of linear adaptive control for transition delay. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 810, 60-81	3.7	10
30	A framework for computing effective boundary conditions at the interface between free fluid and a porous medium. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 812, 866-889	3.7	35
29	A computational continuum model of poroelastic beds. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2017</b> , 473, 20160932	2.4	9
28	Passive control of a falling sphere by elliptic-shaped appendages. <i>Physical Review Fluids</i> , <b>2017</b> , 2,	2.8	3

27	Stabilizing effect of porosity on a flapping filament. <i>Journal of Fluids and Structures</i> , <b>2016</b> , 61, 362-375	3.1	5
26	A stable fluid-structure-interaction solver for low-density rigid bodies using the immersed boundary projection method. <i>Journal of Computational Physics</i> , <b>2016</b> , 305, 300-318	4.1	23
25	In-flight active wave cancelation with delayed-x-LMS control algorithm in a laminar boundary layer. <i>Experiments in Fluids</i> , <b>2016</b> , 57, 1	2.5	9
24	Experimental study of a three-dimensional cylinder-filament system. <i>Experiments in Fluids</i> , <b>2015</b> , 56, 1	2.5	2
23	On the role of adaptivity for robust laminar flow control. <i>Journal of Fluid Mechanics</i> , <b>2015</b> , 767,	3.7	25
22	Adaptive and Model-Based Control Theory Applied to Convectively Unstable Flows. <i>Applied Mechanics Reviews</i> , <b>2014</b> , 66,	8.6	43
21	Passive appendages generate drift through symmetry breaking. <i>Nature Communications</i> , <b>2014</b> , 5, 5310	17.4	35
20	Centralised Versus Decentralised Active Control of Boundary Layer Instabilities. <i>Flow, Turbulence and Combustion</i> , <b>2014</b> , 93, 537-553	2.5	3
19	Effects of weak noise on oscillating flows: Linking quality factor, Floquet modes, and Koopman spectrum. <i>Physics of Fluids</i> , <b>2014</b> , 26, 094104	4.4	40
18	Koopman-mode decomposition of the cylinder wake. <i>Journal of Fluid Mechanics</i> , <b>2013</b> , 726, 596-623	3.7	163
17	Transition delay in a boundary layer flow using active control. <i>Journal of Fluid Mechanics</i> , <b>2013</b> , 731, 288-311	3.7	28
16	Bifurcation and stability analysis of a jet in cross-flow: onset of global instability at a low velocity ratio. <i>Journal of Fluid Mechanics</i> , <b>2012</b> , 696, 94-121	3.7	38
15	Computational Hydrodynamic Stability and Flow Control Based on Spectral Analysis of Linear Operators. <i>Archives of Computational Methods in Engineering</i> , <b>2012</b> , 19, 341-379	7.8	8
14	Spontaneous symmetry breaking of a hinged flapping filament generates lift. <i>Physical Review Letters</i> , <b>2012</b> , 109, 154502	7.4	50
13	Transition delay using control theory. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2011</b> , 369, 1365-81	3	30
12	Self-sustained global oscillations in a jet in crossflow. <i>Theoretical and Computational Fluid Dynamics</i> , <b>2011</b> , 25, 129-146	2.3	28
11	Secondary threshold amplitudes for sinuous streak breakdown. <i>Physics of Fluids</i> , <b>2011</b> , 23, 074103	4.4	31
10	Feedback control of three-dimensional optimal disturbances using reduced-order models. <i>Journal of Fluid Mechanics</i> , <b>2011</b> , 677, 63-102	3.7	45

9	Model Reduction of the Nonlinear Complex Ginzburg-Landau Equation. <i>SIAM Journal on Applied Dynamical Systems</i> , <b>2010</b> , 9, 1284-1302	2.8	31
8	Reduced-order models for flow control: balanced models and Koopman modes. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , <b>2010</b> , 43-50	0.3	13
7	Linear control of 3D disturbances on a flat-plate. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , <b>2010</b> , 373-378	0.3	1
6	Global stability of a jet in crossflow. <i>Journal of Fluid Mechanics</i> , <b>2009</b> , 624, 33-44	3.7	148
5	Input-Output Analysis and Control Design Applied to a Linear Model of Spatially Developing Flows. <i>Applied Mechanics Reviews</i> , <b>2009</b> , 62,	8.6	102
4	Spectral analysis of nonlinear flows. <i>Journal of Fluid Mechanics</i> , <b>2009</b> , 641, 115-127	3.7	1064
3	Matrix-Free Methods for the Stability and Control of Boundary Layers. <i>AIAA Journal</i> , <b>2009</b> , 47, 1057-1068.	8.1	67
2	Input-Output analysis, model reduction and control of the flat-plate boundary layer. <i>Journal of Fluid Mechanics</i> , <b>2009</b> , 620, 263-298	3.7	109
1	The stabilizing effect of streaks on Tollmien-Schlichting and oblique waves: A parametric study. <i>Physics of Fluids</i> , <b>2007</b> , 19, 078103	4.4	40