

# Burak Aksak

## 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.

18 papers	1,157 citations	12 h-index	20 g-index
20 ext. papers	1,262 ext. citations	4.5 avg, IF	4.35 L-index

#	Paper	IF	Citations
18	Using a conductive sphere as a probe to characterize the sensitivity of soft piezoresistive films. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 50349	2.9	1
17	On the large- and small-scale motions in a separated, turbulent-boundary-layer flow. <i>Journal of Turbulence</i> , <b>2019</b> , 20, 563-576	2.1	1
16	Engineered bio-inspired coating for passive flow control. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 1210-1214	11.5	13
15	Flow modulation by a mushroom-like coating around the separation region of a wind-turbine airfoil section. <i>Journal of Renewable and Sustainable Energy</i> , <b>2018</b> , 10, 043305	2.5	3
14	The effect of flexible joint-like elements on the adhesive performance of nature-inspired bent mushroom-like fibers. <i>Beilstein Journal of Nanotechnology</i> , <b>2018</b> , 9, 2893-2905	3	4
13	Sticking to rough surfaces using functionally graded bio-inspired microfibrils. <i>Royal Society Open Science</i> , <b>2017</b> , 4, 161105	3.3	15
12	Holographic microscopy and microfluidics platform for measuring wall stress and 3D flow over surfaces textured by micro-pillars. <i>Scientific Reports</i> , <b>2016</b> , 6, 28753	4.9	19
11	The optimal shape of elastomer mushroom-like fibers for high and robust adhesion. <i>Beilstein Journal of Nanotechnology</i> , <b>2014</b> , 5, 630-8	3	43
10	The effect of aspect ratio on adhesion and stiffness for soft elastic fibres. <i>Journal of the Royal Society Interface</i> , <b>2011</b> , 8, 1166-75	4.1	27
9	Piezoelectric Polymer Fiber Arrays for Tactile Sensing Applications. <i>Sensor Letters</i> , <b>2011</b> , 9, 457-463	0.9	9
8	An experimental analysis of elliptical adhesive contact. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 113512	2.5	10
7	Dangling chain elastomers as repeatable fibrillar adhesives. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2009</b> , 1, 2277-87	9.5	32
6	Gecko-inspired directional and controllable adhesion. <i>Small</i> , <b>2009</b> , 5, 170-5	11	350
5	Gecko inspired micro-fibrillar adhesives for wall climbing robots on micro/nanoscale rough surfaces <b>2008</b> ,		71
4	Adhesion and anisotropic friction enhancements of angled heterogeneous micro-fiber arrays with spherical and spatula tips. <i>Journal of Adhesion Science and Technology</i> , <b>2007</b> , 21, 1281-1296	2	170
3	Enhanced friction of elastomer microfiber adhesives with spatulate tips. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 221913	3.4	86
2	Adhesion of biologically inspired vertical and angled polymer microfiber arrays. <i>Langmuir</i> , <b>2007</b> , 23, 3322-32		235

- 1 Compliant and low-cost humidity nanosensors using nanoporous polymer membranes. *Sensors and Actuators B: Chemical*, **2006**, 114, 254-262 8.5 68