

Burak Aksak

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.

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	Gecko-inspired directional and controllable adhesion. <i>Small</i> , 2009 , 5, 170-5	11	350
17	Adhesion of biologically inspired vertical and angled polymer microfiber arrays. <i>Langmuir</i> , 2007 , 23, 3322-32	32	235
16	Adhesion and anisotropic friction enhancements of angled heterogeneous micro-fiber arrays with spherical and spatula tips. <i>Journal of Adhesion Science and Technology</i> , 2007 , 21, 1281-1296	2	170
15	Enhanced friction of elastomer microfiber adhesives with spatulate tips. <i>Applied Physics Letters</i> , 2007 , 91, 221913	3.4	86
14	Gecko inspired micro-fibrillar adhesives for wall climbing robots on micro/nanoscale rough surfaces 2008 ,		71
13	Compliant and low-cost humidity nanosensors using nanoporous polymer membranes. <i>Sensors and Actuators B: Chemical</i> , 2006 , 114, 254-262	8.5	68
12	The optimal shape of elastomer mushroom-like fibers for high and robust adhesion. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 630-8	3	43
11	Dangling chain elastomers as repeatable fibrillar adhesives. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 2277-87	9.5	32
10	The effect of aspect ratio on adhesion and stiffness for soft elastic fibres. <i>Journal of the Royal Society Interface</i> , 2011 , 8, 1166-75	4.1	27
9	Holographic microscopy and microfluidics platform for measuring wall stress and 3D flow over surfaces textured by micro-pillars. <i>Scientific Reports</i> , 2016 , 6, 28753	4.9	19
8	Sticking to rough surfaces using functionally graded bio-inspired microfibres. <i>Royal Society Open Science</i> , 2017 , 4, 161105	3.3	15
7	Engineered bio-inspired coating for passive flow control. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 1210-1214	11.5	13
6	An experimental analysis of elliptical adhesive contact. <i>Journal of Applied Physics</i> , 2010 , 107, 113512	2.5	10
5	Piezoelectric Polymer Fiber Arrays for Tactile Sensing Applications. <i>Sensor Letters</i> , 2011 , 9, 457-463	0.9	9
4	The effect of flexible joint-like elements on the adhesive performance of nature-inspired bent mushroom-like fibers. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 2893-2905	3	4
3	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> , 2018 , 10, 043305	2.5	3
2	On the large- and small-scale motions in a separated, turbulent-boundary-layer flow. <i>Journal of Turbulence</i> , 2019 , 20, 563-576	2.1	1

1 Using a conductive sphere as a probe to characterize the sensitivity of soft piezoresistive films. *Journal of Applied Polymer Science*, **2021**, 138, 50349 2.9 1