

Hyunwoo Yuk

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.

40
papers

6,510
citations

29
h-index

48
g-index

48
ext. papers

8,753
ext. citations

19.1
avg, IF

6.78
L-index

#	Paper	IF	Citations
40	An off-the-shelf bioadhesive patch for sutureless repair of gastrointestinal defects.. <i>Science Translational Medicine</i> , 2022 , 14, eabh2857	17.5	10
39	Bioadhesives: A Multifunctional Origami Patch for Minimally Invasive Tissue Sealing (Adv. Mater. 11/2021). <i>Advanced Materials</i> , 2021 , 33, 2170083	24	
38	Hydrogel-based biocontainment of bacteria for continuous sensing and computation. <i>Nature Chemical Biology</i> , 2021 , 17, 724-731	11.7	36
37	Soft Materials by Design: Unconventional Polymer Networks Give Extreme Properties. <i>Chemical Reviews</i> , 2021 , 121, 4309-4372	68.1	145
36	Adaptive and multifunctional hydrogel hybrid probes for long-term sensing and modulation of neural activity. <i>Nature Communications</i> , 2021 , 12, 3435	17.4	36
35	Electrical bioadhesive interface for bioelectronics. <i>Nature Materials</i> , 2021 , 20, 229-236	27	136
34	A Multifunctional Origami Patch for Minimally Invasive Tissue Sealing. <i>Advanced Materials</i> , 2021 , 33, e2007667	30	
33	Modular Integration of Hydrogel Neural Interfaces. <i>ACS Central Science</i> , 2021 , 7, 1516-1523	16.8	3
32	Rapid and coagulation-independent haemostatic sealing by a paste inspired by barnacle glue. <i>Nature Biomedical Engineering</i> , 2021 , 5, 1131-1142	19	33
31	Instant tough bioadhesive with triggerable benign detachment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 15497-15503	11.5	91
30	Strong adhesion of wet conducting polymers on diverse substrates. <i>Science Advances</i> , 2020 , 6, eaay5394	14.3	63
29	3D printing of conducting polymers. <i>Nature Communications</i> , 2020 , 11, 1604	17.4	263
28	An organosynthetic dynamic heart model with enhanced biomimicry guided by cardiac diffusion tensor imaging. <i>Science Robotics</i> , 2020 , 5,	18.6	10
27	Hydration and swelling of dry polymers for wet adhesion. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 137, 103863	5	24
26	Biocompatible hydrogel ostomy adhesive. <i>Medical Devices & Sensors</i> , 2020 , 3, e10132	1.6	2
25	Ingestible hydrogel device. <i>Nature Communications</i> , 2019 , 10, 493	17.4	97
24	Anti-fatigue-fracture hydrogels. <i>Science Advances</i> , 2019 , 5, eaau8528	14.3	155

23	Hydrogel bioelectronics. <i>Chemical Society Reviews</i> , 2019 , 48, 1642-1667	58.5	742
22	Pure PEDOT:PSS hydrogels. <i>Nature Communications</i> , 2019 , 10, 1043	17.4	271
21	Dry double-sided tape for adhesion of wet tissues and devices. <i>Nature</i> , 2019 , 575, 169-174	50.4	375
20	Multifunctional "Hydrogel Skins" on Diverse Polymers with Arbitrary Shapes. <i>Advanced Materials</i> , 2019 , 31, e1807101	24	146
19	Kirigami enhances film adhesion. <i>Soft Matter</i> , 2018 , 14, 2515-2525	3.6	46
18	Material-stiffening suppresses elastic fingering and fringe instabilities. <i>International Journal of Solids and Structures</i> , 2018 , 139-140, 96-104	3.1	9
17	3D Printing: A New 3D Printing Strategy by Harnessing Deformation, Instability, and Fracture of Viscoelastic Inks (Adv. Mater. 6/2018). <i>Advanced Materials</i> , 2018 , 30, 1870037	24	5
16	Printing ferromagnetic domains for untethered fast-transforming soft materials. <i>Nature</i> , 2018 , 558, 274-279	50.1	842
15	A New 3D Printing Strategy by Harnessing Deformation, Instability, and Fracture of Viscoelastic Inks. <i>Advanced Materials</i> , 2018 , 30, 1704028	24	137
14	3D Printing of Living Responsive Materials and Devices. <i>Advanced Materials</i> , 2018 , 30, 1704821	24	182
13	Hydraulic hydrogel actuators and robots optically and sonically camouflaged in water. <i>Nature Communications</i> , 2017 , 8, 14230	17.4	519
12	Stretchable living materials and devices with hydrogel-elastomer hybrids hosting programmed cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 2200-2205	11.5	144
11	Tough and tunable adhesion of hydrogels: experiments and models. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2017 , 33, 543-554	2	44
10	Impermeable Robust Hydrogels via Hybrid Lamination. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1700520	10.1	47
9	Skin-inspired hydrogel-elastomer hybrids with robust interfaces and functional microstructures. <i>Nature Communications</i> , 2016 , 7, 12028	17.4	486
8	Stretchable Hydrogel Electronics and Devices. <i>Advanced Materials</i> , 2016 , 28, 4497-505	24	418
7	Tough bonding of hydrogels to diverse non-porous surfaces. <i>Nature Materials</i> , 2016 , 15, 190-6	27	546
6	Fringe instability in constrained soft elastic layers. <i>Soft Matter</i> , 2016 , 12, 8899-8906	3.6	16

5	Highly Stretchable, Strain Sensing Hydrogel Optical Fibers. <i>Advanced Materials</i> , 2016 , 28, 10244-10249	24	236
4	Predicting fracture energies and crack-tip fields of soft tough materials. <i>Extreme Mechanics Letters</i> , 2015 , 4, 1-8	3.9	84
3	Shape memory alloy-based small crawling robots inspired by <i>C. elegans</i> . <i>Bioinspiration and Biomimetics</i> , 2011 , 6, 046002	2.6	43
2	Tough Hydrogel-Based Biocontainment of Engineered Organisms for Continuous, Self-Powered Sensing and Computation		4
1	Barnacle-Inspired Paste for Instant Hemostatic Tissue Sealing		1