

Hyunwoo Yuk

List of Publications by Citations

Source: <https://exaly.com/author-pdf/9579694/hyunwoo-yuk-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Printing ferromagnetic domains for untethered fast-transforming soft materials. <i>Nature</i> , 2018 , 558, 274-279	37.9	842
39	Hydrogel bioelectronics. <i>Chemical Society Reviews</i> , 2019 , 48, 1642-1667	58.5	742
38	Tough bonding of hydrogels to diverse non-porous surfaces. <i>Nature Materials</i> , 2016 , 15, 190-6	27	546
37	Hydraulic hydrogel actuators and robots optically and sonically camouflaged in water. <i>Nature Communications</i> , 2017 , 8, 14230	17.4	519
36	Skin-inspired hydrogel-elastomer hybrids with robust interfaces and functional microstructures. <i>Nature Communications</i> , 2016 , 7, 12028	17.4	486
35	Stretchable Hydrogel Electronics and Devices. <i>Advanced Materials</i> , 2016 , 28, 4497-505	24	418
34	Dry double-sided tape for adhesion of wet tissues and devices. <i>Nature</i> , 2019 , 575, 169-174	50.4	375
33	Pure PEDOT:PSS hydrogels. <i>Nature Communications</i> , 2019 , 10, 1043	17.4	271
32	3D printing of conducting polymers. <i>Nature Communications</i> , 2020 , 11, 1604	17.4	263
31	Highly Stretchable, Strain Sensing Hydrogel Optical Fibers. <i>Advanced Materials</i> , 2016 , 28, 10244-10249	24	236
30	3D Printing of Living Responsive Materials and Devices. <i>Advanced Materials</i> , 2018 , 30, 1704821	24	182
29	Anti-fatigue-fracture hydrogels. <i>Science Advances</i> , 2019 , 5, eaau8528	14.3	155
28	Multifunctional "Hydrogel Skins" on Diverse Polymers with Arbitrary Shapes. <i>Advanced Materials</i> , 2019 , 31, e1807101	24	146
27	Soft Materials by Design: Unconventional Polymer Networks Give Extreme Properties. <i>Chemical Reviews</i> , 2021 , 121, 4309-4372	68.1	145
26	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
25	A New 3D Printing Strategy by Harnessing Deformation, Instability, and Fracture of Viscoelastic Inks. <i>Advanced Materials</i> , 2018 , 30, 1704028	24	137
24	Electrical bioadhesive interface for bioelectronics. <i>Nature Materials</i> , 2021 , 20, 229-236	27	136

23	Ingestible hydrogel device. <i>Nature Communications</i> , 2019 , 10, 493	17.4	97
22	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
21	Predicting fracture energies and crack-tip fields of soft tough materials. <i>Extreme Mechanics Letters</i> , 2015 , 4, 1-8	3.9	84
20	Strong adhesion of wet conducting polymers on diverse substrates. <i>Science Advances</i> , 2020 , 6, eaay5394	14.3	63
19	Impermeable Robust Hydrogels via Hybrid Lamination. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1700520	10.1	47
18	Kirigami enhances film adhesion. <i>Soft Matter</i> , 2018 , 14, 2515-2525	3.6	46
17	Tough and tunable adhesion of hydrogels: experiments and models. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2017 , 33, 543-554	2	44
16	Shape memory alloy-based small crawling robots inspired by <i>C. elegans</i> . <i>Bioinspiration and Biomimetics</i> , 2011 , 6, 046002	2.6	43
15	Hydrogel-based biocontainment of bacteria for continuous sensing and computation. <i>Nature Chemical Biology</i> , 2021 , 17, 724-731	11.7	36
14	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
13	Rapid and coagulation-independent haemostatic sealing by a paste inspired by barnacle glue. <i>Nature Biomedical Engineering</i> , 2021 , 5, 1131-1142	19	33
12	A Multifunctional Origami Patch for Minimally Invasive Tissue Sealing. <i>Advanced Materials</i> , 2021 , 33, e2007667	30	
11	Hydration and swelling of dry polymers for wet adhesion. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 137, 103863	5	24
10	Fringe instability in constrained soft elastic layers. <i>Soft Matter</i> , 2016 , 12, 8899-8906	3.6	16
9	An organosynthetic dynamic heart model with enhanced biomimicry guided by cardiac diffusion tensor imaging. <i>Science Robotics</i> , 2020 , 5,	18.6	10
8	An off-the-shelf bioadhesive patch for sutureless repair of gastrointestinal defects.. <i>Science Translational Medicine</i> , 2022 , 14, eabh2857	17.5	10
7	Material-stiffening suppresses elastic fingering and fringe instabilities. <i>International Journal of Solids and Structures</i> , 2018 , 139-140, 96-104	3.1	9
6	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

5	Tough Hydrogel-Based Biocontainment of Engineered Organisms for Continuous, Self-Powered Sensing and Computation		4
4	Modular Integration of Hydrogel Neural Interfaces. <i>ACS Central Science</i> , 2021 , 7, 1516-1523	16.8	3
3	Biocompatible hydrogel ostomy adhesive. <i>Medical Devices & Sensors</i> , 2020 , 3, e10132	1.6	2
2	Barnacle-Inspired Paste for Instant Hemostatic Tissue Sealing		1
1	Bioadhesives: A Multifunctional Origami Patch for Minimally Invasive Tissue Sealing (Adv. Mater. 11/2021). <i>Advanced Materials</i> , 2021 , 33, 2170083	24	