

Riku Takahashi

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.

20
papers

558
citations

12
h-index

21
g-index

21
ext. papers

689
ext. citations

9.3
avg, IF

3.89
L-index

#	Paper	IF	Citations
20	Improving the strength and toughness of macroscale double networks by exploiting Poisson's ratio mismatch. <i>Scientific Reports</i> , 2021 , 11, 13280	4.9	4
19	Tough, permeable and biocompatible microfluidic devices formed through the buckling delamination of soft hydrogel films. <i>Lab on A Chip</i> , 2021 , 21, 1307-1317	7.2	2
18	Anisotropic Double-Network Hydrogels via Controlled Orientation of a Physical Sacrificial Network. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 2350-2358	4.3	11
17	Lamellar Bilayer to Fibril Structure Transformation of Tough Photonic Hydrogel under Elongation. <i>Macromolecules</i> , 2020 , 53, 4711-4721	5.5	4
16	Macroscale Double Networks: Design Criteria for Optimizing Strength and Toughness. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35343-35353	9.5	33
15	Hydrogel/Elastomer Laminates Bonded via Fabric Interphases for Stimuli-Responsive Actuators. <i>Matter</i> , 2019 , 1, 674-689	12.7	45
14	Double network hydrogels based on semi-rigid polyelectrolyte physical networks. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 6347-6354	7.3	18
13	Dynamic Creation of 3D Hydrogel Architectures via Selective Swelling Programmed by Interfacial Bonding. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 28267-28277	9.5	9
12	Sensitive Photodetection with Photomultiplication Effect in an Interfacial Eu Complex on a Mesoporous TiO Film. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5706-5713	9.5	9
11	Creating Stiff, Tough, and Functional Hydrogel Composites with Low-Melting-Point Alloys. <i>Advanced Materials</i> , 2018 , 30, e1706885	24	63
10	Hydrogel Membranes: Tough and Self-Recoverable Thin Hydrogel Membranes for Biological Applications (Adv. Funct. Mater. 31/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870218	15.6	
9	Tough and Self-Recoverable Thin Hydrogel Membranes for Biological Applications. <i>Advanced Functional Materials</i> , 2018 , 28, 1801489	15.6	31
8	Double Network Gels: Tough Particle-Based Double Network Hydrogels for Functional Solid Surface Coatings (Adv. Mater. Interfaces 23/2018). <i>Advanced Materials Interfaces</i> , 2018 , 5, 1870118	4.6	2
7	Tough Particle-Based Double Network Hydrogels for Functional Solid Surface Coatings. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1801018	4.6	46
6	Tough Hydrogels with Fast, Strong, and Reversible Underwater Adhesion Based on a Multiscale Design. <i>Advanced Materials</i> , 2018 , 30, e1801884	24	154
5	Coupled instabilities of surface crease and bulk bending during fast free swelling of hydrogels. <i>Soft Matter</i> , 2016 , 12, 5081-8	3.6	16
4	Polymer Adsorbed Bilayer Membranes Form Self-Healing Hydrogels with Tunable Superstructure. <i>Macromolecules</i> , 2015 , 48, 2277-2282	5.5	23

3	In Situ Observation of Ca ²⁺ Diffusion-Induced Superstructure Formation of a Rigid Polyanion. <i>Macromolecules</i> , 2014 , 47, 7208-7214	5-5	15
2	Control superstructure of rigid polyelectrolytes in oppositely charged hydrogels via programmed internal stress. <i>Nature Communications</i> , 2014 , 5, 4490	17-4	55
1	Geometric and Edge Effects on Swelling-Induced Ordered Structure Formation in Polyelectrolyte Hydrogels. <i>Macromolecules</i> , 2013 , 46, 9083-9090	5-5	17