Riku Takahashi

List of Publications by Year in descending order

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RIVII TAVAHASHI

#	Article	IF	CITATIONS
1	Tough Hydrogels with Fast, Strong, and Reversible Underwater Adhesion Based on a Multiscale Design. Advanced Materials, 2018, 30, e1801884.	11.1	235
2	Creating Stiff, Tough, and Functional Hydrogel Composites with Lowâ€Meltingâ€Point Alloys. Advanced Materials, 2018, 30, e1706885.	11.1	81
3	Tough Particleâ€Based Double Network Hydrogels for Functional Solid Surface Coatings. Advanced Materials Interfaces, 2018, 5, 1801018.	1.9	78
4	Hydrogel/Elastomer Laminates Bonded via Fabric Interphases for Stimuli-Responsive Actuators. Matter, 2019, 1, 674-689.	5.0	74
5	Control superstructure of rigid polyelectrolytes in oppositely charged hydrogels via programmed internal stress. Nature Communications, 2014, 5, 4490.	5.8	64
6	Macroscale Double Networks: Design Criteria for Optimizing Strength and Toughness. ACS Applied Materials & Interfaces, 2019, 11, 35343-35353.	4.0	49
7	Tough and Selfâ€Recoverable Thin Hydrogel Membranes for Biological Applications. Advanced Functional Materials, 2018, 28, 1801489.	7.8	47
8	Polymer Adsorbed Bilayer Membranes Form Self-Healing Hydrogels with Tunable Superstructure. Macromolecules, 2015, 48, 2277-2282.	2.2	34
9	Double network hydrogels based on semi-rigid polyelectrolyte physical networks. Journal of Materials Chemistry B, 2019, 7, 6347-6354.	2.9	34
10	In SituObservation of Ca2+Diffusion-Induced Superstructure Formation of a Rigid Polyanion. Macromolecules, 2014, 47, 7208-7214.	2.2	20
11	Coupled instabilities of surface crease and bulk bending during fast free swelling of hydrogels. Soft Matter, 2016, 12, 5081-5088.	1.2	20
12	Anisotropic Double-Network Hydrogels via Controlled Orientation of a Physical Sacrificial Network. ACS Applied Polymer Materials, 2020, 2, 2350-2358.	2.0	19
13	Geometric and Edge Effects on Swelling-Induced Ordered Structure Formation in Polyelectrolyte Hydrogels. Macromolecules, 2013, 46, 9083-9090.	2.2	17
14	Dynamic Creation of 3D Hydrogel Architectures via Selective Swelling Programmed by Interfacial Bonding. ACS Applied Materials & Interfaces, 2019, 11, 28267-28277.	4.0	14
15	Sensitive Photodetection with Photomultiplication Effect in an Interfacial Eu ^{2+/3+} Complex on a Mesoporous TiO ₂ Film. ACS Applied Materials & Interfaces, 2018, 10, 5706-5713.	4.0	11
16	Improving the strength and toughness of macroscale double networks by exploiting Poisson's ratio mismatch. Scientific Reports, 2021, 11, 13280.	1.6	11
17	Lamellar Bilayer to Fibril Structure Transformation of Tough Photonic Hydrogel under Elongation. Macromolecules, 2020, 53, 4711-4721.	2.2	7
18	Tough, permeable and biocompatible microfluidic devices formed through the buckling delamination of soft hydrogel films. Lab on A Chip, 2021, 21, 1307-1317.	3.1	7

#	Article	IF	CITATIONS
19	Collective motion of epithelial cells along a wrinkled 3D-buckled hydrogel. RSC Advances, 2022, 12, 20174-20181.	1.7	3
20	Double Network Gels: Tough Particleâ€Based Double Network Hydrogels for Functional Solid Surface Coatings (Adv. Mater. Interfaces 23/2018). Advanced Materials Interfaces, 2018, 5, 1870118.	1.9	2
21	Hydrogel Membranes: Tough and Self-Recoverable Thin Hydrogel Membranes for Biological Applications (Adv. Funct. Mater. 31/2018). Advanced Functional Materials, 2018, 28, 1870218.	7.8	0