

Yiwan Huang

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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.

38

papers

1,024

citations

18

h-index

31

g-index

40

ext. papers

1,304

ext. citations

6.3

avg, IF

4.45

L-index

#	Paper	IF	Citations
38	Preparation and swelling properties of graphene oxide/poly(acrylic acid-co-acrylamide) super-absorbent hydrogel nanocomposites. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 401, 97-106	5.1	237
37	Extremely tough composites from fabric reinforced polyampholyte hydrogels. <i>Materials Horizons</i> , 2015 , 2, 584-591	14.4	85
36	Energy-Dissipative Matrices Enable Synergistic Toughening in Fiber Reinforced Soft Composites. <i>Advanced Functional Materials</i> , 2017 , 27, 1605350	15.6	84
35	Bulk Energy Dissipation Mechanism for the Fracture of Tough and Self-Healing Hydrogels. <i>Macromolecules</i> , 2017 , 50, 2923-2931	5.5	76
34	Hydrogel/Elastomer Laminates Bonded via Fabric Interphases for Stimuli-Responsive Actuators. <i>Matter</i> , 2019 , 1, 674-689	12.7	45
33	Design and Preparation of Benzoxazine Resin with High-Frequency Low Dielectric Constants and Ultralow Dielectric Losses. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 625-630	4.3	41
32	Understanding the effects of carboxylated groups of functionalized graphene oxide on the curing behavior and intermolecular interactions of benzoxazine nanocomposites. <i>RSC Advances</i> , 2016 , 6, 31484-31496 ⁴¹	3.7	41
31	A facile method for the preparation of aliphatic main-chain benzoxazine copolymers with high-frequency low dielectric constants. <i>Polymer Chemistry</i> , 2018 , 9, 2913-2925	4.9	38
30	Fiber-Reinforced Viscoelastomers Show Extraordinary Crack Resistance That Exceeds Metals. <i>Advanced Materials</i> , 2020 , 32, e1907180	24	35
29	Synthesis, polymerization kinetics, and high-frequency dielectric properties of novel main-chain benzoxazine copolymers. <i>Reactive and Functional Polymers</i> , 2018 , 122, 158-166	4.6	34
28	Graphene oxide-based composite hydrogels with self-assembled macroporous structures. <i>RSC Advances</i> , 2016 , 6, 3561-3570	3.7	34
27	Tough polyion-complex hydrogels from soft to stiff controlled by monomer structure. <i>Polymer</i> , 2017 , 116, 487-497	3.9	29
26	Superior fracture resistance of fiber reinforced polyampholyte hydrogels achieved by extraordinarily large energy-dissipative process zones. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13431-13440 ²⁶	13.4	26
25	Multi-structural network design and mechanical properties of graphene oxide filled chitosan-based hydrogel nanocomposites. <i>Materials and Design</i> , 2018 , 148, 104-114	8.1	26
24	Strong Tough Polyampholyte Hydrogels via the Synergistic Effect of Ionic and Metal-Ligand Bonds. <i>Advanced Functional Materials</i> , 2021 , 31, 2103917	15.6	25
23	Effects of filler-matrix morphology on mechanical properties of corn starch-based thermo-moulded films. <i>Carbohydrate Polymers</i> , 2011 , 84, 323-328	10.3	21
22	High strength and antibacterial polyelectrolyte complex CS/HS hydrogel films for wound healing. <i>Soft Matter</i> , 2019 , 15, 7686-7694	3.6	19

21	A facile method for the preparation of furfurylamine based benzoxazine resin with high-frequency low dielectric constants and ultra-low dielectric losses. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 8358-8370	2.1	19
20	Chemical structure and remarkably enhanced mechanical properties of chitosan-graft-poly(acrylic acid)/polyacrylamide double-network hydrogels. <i>Polymer Bulletin</i> , 2017 , 74, 55-74	2.4	18
19	Multiple Hydrogen Bonds-Reinforced Hydrogels with High Strength, Shape Memory, and Adsorption Anti-Inflammatory Molecules. <i>Macromolecular Rapid Communications</i> , 2020 , 41, e2000202	4.8	10
18	Two novel halogen-free, phosphorus-free, and intrinsically flame-retardant benzoxazine thermosets containing electron-withdrawing bridge groups. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49300	2.9	10
17	Facile preparation of the novel castor oil-based benzoxazine-urethane copolymer with improved high-frequency dielectric properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 5391-5400	2.1	9
16	Mechanical Properties of Thermo-moulded Biofilms in Relation to Proteins/Starch Interactions. <i>Food Biophysics</i> , 2011 , 6, 49-57	3.2	8
15	Programmed Transformations of Strong Polyvinyl Alcohol/Sodium Alginate Hydrogels via Ionic Crosslink Lithography. <i>Macromolecular Rapid Communications</i> , 2020 , 41, e2000127	4.8	7
14	Mechanical behavior of unidirectional fiber reinforced soft composites. <i>Extreme Mechanics Letters</i> , 2020 , 35, 100642	3.9	7
13	Mechanical enhancement of graphene oxide-filled chitosan-based composite hydrogels by multiple mechanisms. <i>Journal of Materials Science</i> , 2020 , 55, 14690-14701	4.3	7
12	High-Performance Photochromic Hydrogels for Rewritable Information Record. <i>Macromolecular Rapid Communications</i> , 2021 , 42, e2000701	4.8	6
11	Super Bulk and Interfacial Toughness of Amylopectin Reinforced PAAm/PVA Double-Network Hydrogels via Multiple Hydrogen Bonds. <i>Macromolecular Materials and Engineering</i> , 2020 , 305, 1900450	3.9	5
10	Tough hydrogels with tunable soft and wet interfacial adhesion. <i>Polymer Testing</i> , 2021 , 93, 106976	4.5	5
9	Interfacial adhesion and water resistance of stainless steel/polyolefin improved by functionalized silane. <i>Polymer Engineering and Science</i> , 2019 , 59, 1866-1873	2.3	3
8	Multistructural Network Design Enables Polybenzoxazine to Achieve Low-Loss-Grade Super-High-Frequency Dielectric Properties and High Glass Transition Temperatures. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 115-129	3.9	3
7	High-strength, thermosensitive double network hydrogels with antibacterial functionality. <i>Soft Matter</i> , 2021 , 17, 6688-6696	3.6	3
6	Design of aluminum trihydroxide and P-N core-shell structures and their synergistic effects on halogen-free flame-retardant polyethylene composites. <i>Polymers for Advanced Technologies</i> , 2020 , 31, 2020-2030	3.2	2
5	Tiny yet tough: Maximizing the toughness of fiber-reinforced soft composites in the absence of a fiber-fracture mechanism. <i>Matter</i> , 2021 ,	12.7	2
4	Preliminary study of the relationship between water absorbency and zeta potentials of crosslinked poly(acrylic acid). <i>Journal of Controlled Release</i> , 2011 , 152 Suppl 1, e260-2	11.7	1

3	Liquid crystallinity and thermal properties of polyhedral oligomeric silsesquioxane/side-chain azobenzene hybrid copolymer. <i>Nanotechnology Reviews</i> , 2020 , 9, 886-895	6.3	1
2	High-strength, strong-adhesion, and antibacterial polyelectrolyte complex hydrogel films from natural polysaccharides. <i>Polymer Testing</i> , 2022 , 109, 107547	4.5	1
1	Strengthening and stiffening in swollen polyampholyte hydrogels. <i>Materials Letters</i> , 2022 , 132582	3.3	1