

Yiwan Huang

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.

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	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
37	High-strength, strong-adhesion, and antibacterial polyelectrolyte complex hydrogel films from natural polysaccharides. <i>Polymer Testing</i> , 2022 , 109, 107547	4.5	1
36	Strengthening and stiffening in swollen polyampholyte hydrogels. <i>Materials Letters</i> , 2022 , 132582	3.3	1
35	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
34	Tough hydrogels with tunable soft and wet interfacial adhesion. <i>Polymer Testing</i> , 2021 , 93, 106976	4.5	5
33	High-Performance Photochromic Hydrogels for Rewritable Information Record. <i>Macromolecular Rapid Communications</i> , 2021 , 42, e2000701	4.8	6
32	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
31	High-strength, thermosensitive double network hydrogels with antibacterial functionality. <i>Soft Matter</i> , 2021 , 17, 6688-6696	3.6	3
30	Programmed Transformations of Strong Polyvinyl Alcohol/Sodium Alginate Hydrogels via Ionic Crosslink Lithography. <i>Macromolecular Rapid Communications</i> , 2020 , 41, e2000127	4.8	7
29	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
28	Fiber-Reinforced Viscoelastomers Show Extraordinary Crack Resistance That Exceeds Metals. <i>Advanced Materials</i> , 2020 , 32, e1907180	24	35
27	Mechanical behavior of unidirectional fiber reinforced soft composites. <i>Extreme Mechanics Letters</i> , 2020 , 35, 100642	3.9	7
26	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
25	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
24	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
23	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
22	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

21	High strength and antibacterial polyelectrolyte complex CS/HS hydrogel films for wound healing. <i>Soft Matter</i> , 2019 , 15, 7686-7694	3.6	19
20	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
19	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
18	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	13.4	26
17	Hydrogel/Elastomer Laminates Bonded via Fabric Interphases for Stimuli-Responsive Actuators. <i>Matter</i> , 2019 , 1, 674-689	12.7	45
16	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
15	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
14	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
13	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
12	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
11	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
10	Energy-Dissipative Matrices Enable Synergistic Toughening in Fiber Reinforced Soft Composites. <i>Advanced Functional Materials</i> , 2017 , 27, 1605350	15.6	84
9	Tough polyion-complex hydrogels from soft to stiff controlled by monomer structure. <i>Polymer</i> , 2017 , 116, 487-497	3.9	29
8	Bulk Energy Dissipation Mechanism for the Fracture of Tough and Self-Healing Hydrogels. <i>Macromolecules</i> , 2017 , 50, 2923-2931	5.5	76
7	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	3.7	41
6	Graphene oxide-based composite hydrogels with self-assembled macroporous structures. <i>RSC Advances</i> , 2016 , 6, 3561-3570	3.7	34
5	Extremely tough composites from fabric reinforced polyampholyte hydrogels. <i>Materials Horizons</i> , 2015 , 2, 584-591	14.4	85
4	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

3	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
2	Mechanical Properties of Thermo-moulded Biofilms in Relation to Proteins/Starch Interactions. <i>Food Biophysics</i> , 2011 , 6, 49-57	3.2	8
1	Effects of filler-matrix morphology on mechanical properties of corn starch χ ein thermo-moulded films. <i>Carbohydrate Polymers</i> , 2011 , 84, 323-328	10.3	21