

# Yiwan Huang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4166216/publications.pdf>

Version: 2024-02-01

40  
papers

1,604  
citations

361045

20  
h-index

301761

39  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1909  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.3	276
2	Energy-Dissipative Matrices Enable Synergistic Toughening in Fiber Reinforced Soft Composites. <i>Advanced Functional Materials</i> , 2017, 27, 1605350.	7.8	116
3	Extremely tough composites from fabric reinforced polyampholyte hydrogels. <i>Materials Horizons</i> , 2015, 2, 584-591.	6.4	108
4	Bulk Energy Dissipation Mechanism for the Fracture of Tough and Self-Healing Hydrogels. <i>Macromolecules</i> , 2017, 50, 2923-2931.	2.2	102
5	Strong Tough Polyampholyte Hydrogels via the Synergistic Effect of Ionic and Metal-Ligand Bonds. <i>Advanced Functional Materials</i> , 2021, 31, 2103917.	7.8	97
6	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.	2.0	87
7	Fiber-Reinforced Viscoelastomers Show Extraordinary Crack Resistance That Exceeds Metals. <i>Advanced Materials</i> , 2020, 32, e1907180.	11.1	77
8	Hydrogel/Elastomer Laminates Bonded via Fabric Interphases for Stimuli-Responsive Actuators. <i>Matter</i> , 2019, 1, 674-689.	5.0	74
9	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.	1.9	55
10	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.	1.7	48
11	Graphene oxide-based composite hydrogels with self-assembled macroporous structures. <i>RSC Advances</i> , 2016, 6, 3561-3570.	1.7	47
12	Synthesis, polymerization kinetics, and high-frequency dielectric properties of novel main-chain benzoxazine copolymers. <i>Reactive and Functional Polymers</i> , 2018, 122, 158-166.	2.0	41
13	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.	5.2	40
14	Tough polyion-complex hydrogels from soft to stiff controlled by monomer structure. <i>Polymer</i> , 2017, 116, 487-497.	1.8	38
15	Multi-structural network design and mechanical properties of graphene oxide filled chitosan-based hydrogel nanocomposites. <i>Materials and Design</i> , 2018, 148, 104-114.	3.3	38
16	High strength and antibacterial polyelectrolyte complex CS/HS hydrogel films for wound healing. <i>Soft Matter</i> , 2019, 15, 7686-7694.	1.2	34
17	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.	1.1	34
18	Effects of filler-matrix morphology on mechanical properties of corn starch-zein thermo-moulded films. <i>Carbohydrate Polymers</i> , 2011, 84, 323-328.	5.1	28

#	ARTICLE	IF	CITATIONS
19	Chemical structure and remarkably enhanced mechanical properties of chitosan-graft-poly(acrylic) Tj ETQq1 1 0.784314 rgBT/Overlook	1.7	24
20	Two novel halogen-free, phosphorus-free, and intrinsically flame-retardant benzoxazine thermosets containing electron-withdrawing bridge groups. Journal of Applied Polymer Science, 2020, 137, 49300.	1.3	21
21	Tough hydrogels with tunable soft and wet interfacial adhesion. Polymer Testing, 2021, 93, 106976.	2.3	21
22	Multiple Hydrogen Bonds-Reinforced Hydrogels with High Strength, Shape Memory, and Adsorption Anti-inflammatory Molecules. Macromolecular Rapid Communications, 2020, 41, e2000202.	2.0	20
23	Mechanical enhancement of graphene oxide-filled chitosan-based composite hydrogels by multiple mechanisms. Journal of Materials Science, 2020, 55, 14690-14701.	1.7	18
24	Multistructural Network Design Enables Polybenzoxazine to Achieve Low-Loss-Grade Super-High-Frequency Dielectric Properties and High Glass Transition Temperatures. Industrial & Engineering Chemistry Research, 2022, 61, 115-129.	1.8	17
25	High-Performance Photochromic Hydrogels for Rewritable Information Record. Macromolecular Rapid Communications, 2021, 42, e2000701.	2.0	16
26	Facile preparation of the novel castor oil-based benzoxazine-urethane copolymer with improved high-frequency dielectric properties. Journal of Materials Science: Materials in Electronics, 2018, 29, 5391-5400.	1.1	14
27	Super Bulk and Interfacial Toughness of Amylopectin Reinforced PAAm/PVA Double-Network Hydrogels via Multiple Hydrogen Bonds. Macromolecular Materials and Engineering, 2020, 305, 1900450.	1.7	14
28	Mechanical behavior of unidirectional fiber reinforced soft composites. Extreme Mechanics Letters, 2020, 35, 100642.	2.0	13
29	High-strength, thermosensitive double network hydrogels with antibacterial functionality. Soft Matter, 2021, 17, 6688-6696.	1.2	13
30	Tiny yet tough: Maximizing the toughness of fiber-reinforced soft composites in the absence of a fiber-fracture mechanism. Matter, 2021, 4, 3646-3661.	5.0	11
31	High-strength, strong-adhesion, and antibacterial polyelectrolyte complex hydrogel films from natural polysaccharides. Polymer Testing, 2022, 109, 107547.	2.3	11
32	Programmed Transformations of Strong Polyvinyl Alcohol/Sodium Alginate Hydrogels via Ionic Crosslink Lithography. Macromolecular Rapid Communications, 2020, 41, 2000127.	2.0	10
33	Mechanical Properties of Thermo-moulded Biofilms in Relation to Proteins/Starch Interactions. Food Biophysics, 2011, 6, 49-57.	1.4	9
34	Design of aluminum trihydroxide and PAEN core-shell structures and their synergistic effects on halogen-free flame-retardant polyethylene composites. Polymers for Advanced Technologies, 2020, 31, 2020-2030.	1.6	8
35	Interfacial adhesion and water resistance of stainless steel-polyolefin improved by functionalized silane. Polymer Engineering and Science, 2019, 59, 1866-1873.	1.5	6
36	High Mechanical Properties of Stretching Oriented Poly(butylene succinate) with Two-Step Chain Extension. Polymers, 2022, 14, 1876.	2.0	6

#	ARTICLE	IF	CITATIONS
37	Strengthening and stiffening in swollen polyampholyte hydrogels. <i>Materials Letters</i> , 2022, 324, 132582.	1.3	6
38	Liquid crystallinity and thermal properties of polyhedral oligomeric silsesquioxane/side-chain azobenzene hybrid copolymer. <i>Nanotechnology Reviews</i> , 2020, 9, 886-895.	2.6	5
39	Preliminary study of the relationship between water absorbency and zeta potentials of crosslinked poly(acrylic acid). <i>Journal of Controlled Release</i> , 2011, 152, e260-e262.	4.8	1
40	PREPARATION AND PROPERTIES OF CHITOSAN-GRAFT-POLY(ACRYLIC ACID)/GRAPHENE OXIDE NANOCOMPOSITE HYDROGELS. , 2012, , 375-385.		0