

Guangxue Chen

List of Publications by Year in descending order

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76
papers

2,457
citations

172386

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docs citations

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times ranked

2506
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Stretchable and Compressible Cellulose Ionic Hydrogels for Flexible Strain Sensors. <i>Biomacromolecules</i> , 2019, 20, 2096-2104.	2.6	171
2	Autonomous Self-Healing, Antifreezing, and Transparent Conductive Elastomers. <i>Chemistry of Materials</i> , 2020, 32, 874-881.	3.2	138
3	Xylan-based temperature/pH sensitive hydrogels for drug controlled release. <i>Carbohydrate Polymers</i> , 2016, 151, 189-197.	5.1	107
4	Highly transparent, self-healing conductive elastomers enabled by synergistic hydrogen bonding interactions. <i>Chemical Engineering Journal</i> , 2020, 393, 124685.	6.6	98
5	Ultrastretchable and Antifreezing Double-Cross-Linked Cellulose Ionic Hydrogels with High Strain Sensitivity under a Broad Range of Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14256-14265.	3.2	93
6	Patternable transparent and conductive elastomers towards flexible tactile/strain sensors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8475-8481.	2.7	90
7	Enhanced mechanical and hydrophobic properties of composite cassava starch films with stearic acid modified MCC (microcrystalline cellulose)/NCC (nanocellulose) as strength agent. <i>International Journal of Biological Macromolecules</i> , 2020, 142, 846-854.	3.6	83
8	Rapid shape memory TEMPO-oxidized cellulose nanofibers/polyacrylamide/gelatin hydrogels with enhanced mechanical strength. <i>Carbohydrate Polymers</i> , 2017, 171, 77-84.	5.1	79
9	Transparent conductive elastomers with excellent autonomous self-healing capability in harsh organic solvent environments. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5056-5061.	5.2	74
10	Polymerizable deep eutectic solvent-based mechanically strong and ultra-stretchable conductive elastomers for detecting human motions. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4890-4897.	5.2	70
11	Multivalent cations-triggered rapid shape memory sodium carboxymethyl cellulose/polyacrylamide hydrogels with tunable mechanical strength. <i>Carbohydrate Polymers</i> , 2017, 178, 159-165.	5.1	69
12	A comparative study on the starch-based biocomposite films reinforced by nanocellulose prepared from different non-wood fibers. <i>Cellulose</i> , 2019, 26, 2425-2435.	2.4	61
13	Castor Oil Based Biothiol as a Highly Stable and Self-Initiated Oligomer for Photoinitiator-Free UV Coatings. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 376-381.	3.2	60
14	Development of high-strength, tough, and self-healing carboxymethyl guar gum-based hydrogels for human motion detection. <i>Journal of Materials Chemistry C</i> , 2020, 8, 900-908.	2.7	60
15	Stiff, Self-Healable, Transparent Polymers with Synergetic Hydrogen Bonding Interactions. <i>Chemistry of Materials</i> , 2021, 33, 5189-5196.	3.2	56
16	Green polymerizable deep eutectic solvent (PDES) type conductive paper for origami 3D circuits. <i>Chemical Communications</i> , 2018, 54, 2304-2307.	2.2	55
17	3D printing of ultra-tough, self-healing transparent conductive elastomeric sensors. <i>Chemical Engineering Journal</i> , 2021, 426, 130545.	6.6	51
18	High-strength, tough, and self-healing hydrogel based on carboxymethyl cellulose. <i>Cellulose</i> , 2020, 27, 853-865.	2.4	50

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19	Photoluminescent Composites of Lanthanide-Based Nanocrystal-Functionalized Cellulose Fibers for Anticounterfeiting Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13960-13967.	3.2	45
20	Robust fabrication of fluorine-free superhydrophobic steel mesh for efficient oil/water separation. <i>Journal of Materials Science</i> , 2017, 52, 2549-2559.	1.7	43
21	An Image Stitching Algorithm Based on Histogram Matching and SIFT Algorithm. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2017, 31, 1754006.	0.7	42
22	Three-dimensional Printed Ultrahighly Sensitive Bioinspired Ionic Skin Based on Submicrometer-Scale Structures by Polymerization Shrinkage. <i>Chemistry of Materials</i> , 2021, 33, 2072-2079.	3.2	40
23	Engineering Biocompatible Hydrogels from Bicomponent Natural Nanofibers for Anticancer Drug Delivery. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 935-942.	2.4	38
24	Highly stretchable ionic conducting hydrogels for strain/tactile sensors. <i>Polymer</i> , 2019, 167, 154-158.	1.8	38
25	Highly transparent, weakly hydrophilic and biodegradable cellulose film for flexible electroluminescent devices. <i>Carbohydrate Polymers</i> , 2020, 227, 115366.	5.1	38
26	Comparative study on temperature/pH sensitive xylan-based hydrogels: their properties and drug controlled release. <i>RSC Advances</i> , 2015, 5, 90671-90681.	1.7	37
27	Preparation and characterization of highly transparent hydrophobic nanocellulose film using corn husks as main material. <i>International Journal of Biological Macromolecules</i> , 2020, 158, 781-789.	3.6	34
28	Ionic Gel Paper with Long-Term Bendable Electrical Robustness for Use in Flexible Electroluminescent Devices. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 16466-16473.	4.0	32
29	Self-Adhesive Dry Ionic Conductors Based on Supramolecular Deep Eutectic Polymers. <i>Chemistry of Materials</i> , 2022, 34, 3736-3743.	3.2	31
30	Facile Preparation of Highly Transparent Conducting Nanopaper with Electrical Robustness. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5132-5139.	3.2	29
31	Weavable Transparent Conductive Fibers with Harsh Environment Tolerance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 8952-8959.	4.0	29
32	Preparation and Assessment of Heat-Treated $\hat{\pm}$ -Chitin Nanowhiskers Reinforced Poly(vinyl alcohol) Film for Packaging Application. <i>Materials</i> , 2018, 11, 1883.	1.3	26
33	Design of strong and tough methylcellulose-based hydrogels using kosmotropic Hofmeister salts. <i>Cellulose</i> , 2020, 27, 1113-1126.	2.4	26
34	Low-Cost, Sustainable, and Environmentally Sound Cellulose Absorbent with High Efficiency for Collecting Methane Bubbles from Seawater. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6370-6377.	3.2	25
35	The preparation of $\hat{\pm}$ -chitin nanowhiskers-poly (vinyl alcohol) hydrogels for drug release. <i>International Journal of Biological Macromolecules</i> , 2019, 131, 336-342.	3.6	25
36	Nanochitin/metal ion dual reinforcement in synthetic polyacrylamide network-based nanocomposite hydrogels. <i>Carbohydrate Polymers</i> , 2020, 236, 116061.	5.1	22

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37	<i>N</i> -Phthaloyltranexamic acid ammonium salt derivatives as photocaged superbase for redox free radical photopolymerization. <i>Polymer Chemistry</i> , 2014, 5, 2951-2960.	1.9	21
38	Mechanically tough yet self-healing transparent conductive elastomers obtained using a synergic dual cross-linking strategy. <i>Polymer Chemistry</i> , 2021, 12, 2016-2023.	1.9	19
39	Microwave-assisted hydrothermal treatment of corncob using tin(IV) chloride as catalyst for furfural production. <i>Cellulose</i> , 2016, 23, 1649-1661.	2.4	18
40	High cycling stability and well printability poly(3,4-ethylenedioxythiophene):poly(styrene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 To electrochromic display. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45943.	1.3	18
41	Paper-based analytical device for high-throughput monitoring tetracycline residue in milk. <i>Food Chemistry</i> , 2021, 354, 129548.	4.2	18
42	Highly Transparent, Flexible and Conductive CNF/AgNW Paper for Paper Electronics. <i>Materials</i> , 2019, 12, 322.	1.3	17
43	3D Printing of Oil Paintings Based on Material Jetting and Its Reduction of Staircase Effect. <i>Polymers</i> , 2020, 12, 2536.	2.0	17
44	Highly Stretchable, Strain-Sensitive, and Ionic-Conductive Cellulose-Based Hydrogels for Wearable Sensors. <i>Polymers</i> , 2019, 11, 2067.	2.0	16
45	Facile Approach to Develop Hierarchical Roughness fiber@SiO ₂ Blocks for Superhydrophobic Paper. <i>Materials</i> , 2019, 12, 1393.	1.3	15
46	Controllable preparation of carboxymethyl cellulose/LaF ₃ :Eu ³⁺ composites and its application in anti-counterfeiting. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 2224-2231.	3.6	15
47	High-strength paper enhanced by chitin nanowhiskers and its potential bioassay applications. <i>International Journal of Biological Macromolecules</i> , 2020, 150, 885-893.	3.6	15
48	Color Reproduction Accuracy Promotion of 3D-Printed Surfaces Based on Microscopic Image Analysis. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2020, 34, 2054004.	0.7	14
49	Kinetic research on dechlorinating dichlorobenzene in aqueous system by nano-scale nickel/iron loaded with CMC/NFC hydrogel. <i>Chemosphere</i> , 2018, 194, 297-305.	4.2	14
50	Liquid-Free Ionic Conductive Elastomers with High Mechanical Strength and Rapid Healable Ability. <i>ACS Applied Polymer Materials</i> , 2022, 4, 3543-3551.	2.0	14
51	Experimental Investigation of Color Reproduction Quality of Color 3D Printing Based on Colored Layer Features. <i>Molecules</i> , 2020, 25, 2909.	1.7	13
52	Biosynthesis of silver nanoparticles applied for UV-curing conductive ink by using rice straw extract as reducing agent. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 2350-2356.	0.9	12
53	Superhydrophilic three-dimensional porous spent coffee ground reduced palladium nanoparticles for efficient catalytic reduction. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 1414-1421.	5.0	12
54	A Repeatable Self-Adhesive Liquid-Free Double-Network Ionic Conductor with Tunable Multifunctionality. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 22418-22425.	4.0	12

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55	In Situ Synthesis of Silver Nanoparticles on Cellulose Fibers Using D-Glucuronic Acid and Its Antibacterial Application. <i>Materials</i> , 2019, 12, 3101.	1.3	11
56	Thioxanthone dicarboxamide derivatives as one-component photoinitiators for near-UV and visible LED (365–405 nm) induced photopolymerizations. <i>RSC Advances</i> , 2016, 6, 77093-77099.	1.7	10
57	Rapid preparation of highly transparent piezoresistive balls for optoelectronic devices. <i>Chemical Communications</i> , 2020, 56, 2771-2774.	2.2	10
58	Domino free radical photopolymerization based on phototriggered base proliferation reaction and redox initiation. <i>Journal of Polymer Science Part A</i> , 2014, 52, 1560-1569.	2.5	9
59	Chitin/Ca solvent-based conductive and stretchable organohydrogel with anti-freezing and anti-drying. <i>International Journal of Biological Macromolecules</i> , 2022, 207, 484-492.	3.6	8
60	Evaluation of image quality metrics for sharpness enhancement. , 2017, , .		7
61	Tuning of the photophysical and electrochemical properties of symmetric and asymmetric conjugated thiophenoazomethines. <i>RSC Advances</i> , 2018, 8, 12779-12784.	1.7	7
62	Advanced Surface Color Quality Assessment in Paper-Based Full-Color 3D Printing. <i>Materials</i> , 2021, 14, 736.	1.3	7
63	Preparation and Characterization of Polyvinyl Alcohol–Chitosan/Cerium–Nanocellulose Hydrogel for Medical Dressing Application. <i>Starch/Staerke</i> , 2022, 74, .	1.1	6
64	Preparation of Modified Montmorillonite–Plant Fiber Composite Foam Materials. <i>Materials</i> , 2019, 12, 420.	1.3	5
65	Naked-Eye 3D Display Based on Microlens Array Using Combined Micro-Nano Imprint and UV Offset Printing Methods. <i>Molecules</i> , 2020, 25, 1012.	1.7	5
66	Preparation and Characterization of Polyvinyl Alcohol–Chitosan/Cerium Hydrogel with Significant Antibacterial Activity. <i>Starch/Staerke</i> , 2021, 73, 2000253.	1.1	5
67	Pigment Penetration Characterization of Colored Boundaries in Powder-Based Color 3D Printing. <i>Materials</i> , 2022, 15, 3245.	1.3	5
68	Development and evaluation of a hybrid point-wise gamut mapping framework. , 2015, , .		4
69	A green method of reducing silver nanoparticles based on bagasse pulp extract for preparing ultraviolet (UV)-curable conductive ink. <i>Journal of Vinyl and Additive Technology</i> , 2020, 26, 90-96.	1.8	4
70	Reflectance model for filament yarn composed of different color monofilaments. <i>Journal of the Textile Institute</i> , 2021, 112, 2039-2047.	1.0	4
71	Realization of Rapid Large-Size 3D Printing Based on Full-Color Powder-Based 3DP Technique. <i>Molecules</i> , 2020, 25, 2037.	1.7	3
72	Hibiscus Leachate Dye-Based Low-Cost and Flexible Dye-Sensitized Solar Cell Prepared by Screen Printing. <i>Materials</i> , 2021, 14, 2748.	1.3	1

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73	Straightforward fabrication of robust and healable superhydrophobic steel mesh based on polydimethylsiloxane. Journal of Applied Polymer Science, 2022, 139, .	1.3	1
74	The Research and Application of System for Paper Surface Morphology Stereoscopic Observation and Characterization. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2021, 29, 89-100.	0.9	0
75	Color Prediction Model of Gray Hybrid Multifilament Fabric. Journal of Shanghai Jiaotong University (Science), 0, , 1.	0.5	0
76	Effect of Reaction Temperature on the Fluorescence Properties of CMC/LaF3: Eu3+ Composites. Lecture Notes in Electrical Engineering, 2020, , 814-820.	0.3	0