

Guangxue Chen

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.

71
papers

1,317
citations

22
h-index

33
g-index

76
ext. papers

1,848
ext. citations

6.1
avg, IF

5.33
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 71 | Superhydrophilic three-dimensional porous spent coffee ground reduced palladium nanoparticles for efficient catalytic reduction. <i>Journal of Colloid and Interface Science</i> , 2021 , 608, 1414-1421 | 9.3 | 3 |
| 70 | Preparation and Characterization of Polyvinyl Alcohol-Chitosan/Cerium Hydrogel with Significant Antibacterial Activity. <i>Starch/Staerke</i> , 2021 , 73, 2000253 | 2.3 | 1 |
| 69 | 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 | 9.6 | 14 |
| 68 | The Research and Application of System for Paper Surface Morphology Stereoscopic Observation and Characterization. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 2021 , 29, 89-100 | 0.8 | |
| 67 | Hibiscus Leachate Dye-Based Low-Cost and Flexible Dye-Sensitized Solar Cell Prepared by Screen Printing. <i>Materials</i> , 2021 , 14, | 3.5 | 1 |
| 66 | Stiff, Self-Healable, Transparent Polymers with Synergetic Hydrogen Bonding Interactions. <i>Chemistry of Materials</i> , 2021 , 33, 5189-5196 | 9.6 | 11 |
| 65 | Weavable Transparent Conductive Fibers with Harsh Environment Tolerance. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 8952-8959 | 9.5 | 5 |
| 64 | Advanced Surface Color Quality Assessment in Paper-Based Full-Color 3D Printing. <i>Materials</i> , 2021 , 14, | 3.5 | 2 |
| 63 | Paper-based analytical device for high-throughput monitoring tetracycline residue in milk. <i>Food Chemistry</i> , 2021 , 354, 129548 | 8.5 | 4 |
| 62 | 3D printing of ultra-tough, self-healing transparent conductive elastomeric sensors. <i>Chemical Engineering Journal</i> , 2021 , 426, 130545 | 14.7 | 11 |
| 61 | 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 | 13 | 22 |
| 60 | Mechanically tough yet self-healing transparent conductive elastomers obtained using a synergic dual cross-linking strategy. <i>Polymer Chemistry</i> , 2021 , 12, 2016-2023 | 4.9 | 7 |
| 59 | 3D Printing of Oil Paintings Based on Material Jetting and Its Reduction of Staircase Effect. <i>Polymers</i> , 2020 , 12, | 4.5 | 9 |
| 58 | 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 | 7.9 | 12 |
| 57 | Realization of Rapid Large-Size 3D Printing Based on Full-Color Powder-Based 3DP Technique. <i>Molecules</i> , 2020 , 25, | 4.8 | 2 |
| 56 | Facile Preparation of Highly Transparent Conducting Nanopaper with Electrical Robustness. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 5132-5139 | 8.3 | 9 |
| 55 | Highly transparent, self-healing conductive elastomers enabled by synergistic hydrogen bonding interactions. <i>Chemical Engineering Journal</i> , 2020 , 393, 124685 | 14.7 | 39 |

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| 54 | Experimental Investigation of Color Reproduction Quality of Color 3D Printing Based on Colored Layer Features. <i>Molecules</i> , 2020 , 25, | 4.8 | 8 |
| 53 | High-strength paper enhanced by chitin nanowhiskers and its potential bioassay applications. <i>International Journal of Biological Macromolecules</i> , 2020 , 150, 885-893 | 7.9 | 7 |
| 52 | 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 | 13 | 30 |
| 51 | Nanochitin/metal ion dual reinforcement in synthetic polyacrylamide network-based nanocomposite hydrogels. <i>Carbohydrate Polymers</i> , 2020 , 236, 116061 | 10.3 | 8 |
| 50 | Naked-Eye 3D Display Based on Microlens Array Using Combined Micro-Nano Imprint and UV Offset Printing Methods. <i>Molecules</i> , 2020 , 25, | 4.8 | 3 |
| 49 | Effect of Reaction Temperature on the Fluorescence Properties of CMC/LaF3: Eu3+ Composites. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 814-820 | 0.2 | |
| 48 | Rapid preparation of highly transparent piezoresistive balls for optoelectronic devices. <i>Chemical Communications</i> , 2020 , 56, 2771-2774 | 5.8 | 6 |
| 47 | High-strength, tough, and self-healing hydrogel based on carboxymethyl cellulose. <i>Cellulose</i> , 2020 , 27, 853-865 | 5.5 | 22 |
| 46 | Autonomous Self-Healing, Antifreezing, and Transparent Conductive Elastomers. <i>Chemistry of Materials</i> , 2020 , 32, 874-881 | 9.6 | 57 |
| 45 | 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 | 7.1 | 36 |
| 44 | Design of strong and tough methylcellulose-based hydrogels using kosmotropic Hofmeister salts. <i>Cellulose</i> , 2020 , 27, 1113-1126 | 5.5 | 11 |
| 43 | Controllable preparation of carboxymethyl cellulose/LaF:Eu composites and its application in anti-counterfeiting. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 2224-2231 | 7.9 | 6 |
| 42 | 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 | 2 | 4 |
| 41 | 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 | 1.1 | 11 |
| 40 | Highly transparent, weakly hydrophilic and biodegradable cellulose film for flexible electroluminescent devices. <i>Carbohydrate Polymers</i> , 2020 , 227, 115366 | 10.3 | 18 |
| 39 | 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 | 7.9 | 44 |
| 38 | In Situ Synthesis of Silver Nanoparticles on Cellulose Fibers Using D-Glucuronic Acid and Its Antibacterial Application. <i>Materials</i> , 2019 , 12, | 3.5 | 9 |
| 37 | Highly Stretchable and Compressible Cellulose Ionic Hydrogels for Flexible Strain Sensors. <i>Biomacromolecules</i> , 2019 , 20, 2096-2104 | 6.9 | 111 |

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| 36 | Facile Approach to Develop Hierarchical Roughness fiber@SiO ₂ Blocks for Superhydrophobic Paper. <i>Materials</i> , 2019 , 12, | 3.5 | 9 |
| 35 | The preparation of β -chitin nanowhiskers-poly (vinyl alcohol) hydrogels for drug release. <i>International Journal of Biological Macromolecules</i> , 2019 , 131, 336-342 | 7.9 | 19 |
| 34 | Preparation of Modified Montmorillonite-Plant Fiber Composite Foam Materials. <i>Materials</i> , 2019 , 12, | 3.5 | 4 |
| 33 | Highly stretchable ionic conducting hydrogels for strain/tactile sensors. <i>Polymer</i> , 2019 , 167, 154-158 | 3.9 | 21 |
| 32 | Highly Transparent, Flexible and Conductive CNF/AgNW Paper for Paper Electronics. <i>Materials</i> , 2019 , 12, | 3.5 | 11 |
| 31 | 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 | 8.3 | 46 |
| 30 | Highly Stretchable, Strain-Sensitive, and Ionic-Conductive Cellulose-Based Hydrogels for Wearable Sensors. <i>Polymers</i> , 2019 , 11, | 4.5 | 10 |
| 29 | 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 | 5.5 | 30 |
| 28 | Tuning of the photophysical and electrochemical properties of symmetric and asymmetric conjugated thiophenoazomethines.. <i>RSC Advances</i> , 2018 , 8, 12779-12784 | 3.7 | 5 |
| 27 | 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 | 8.3 | 19 |
| 26 | Green polymerizable deep eutectic solvent (PDES) type conductive paper for origami 3D circuits. <i>Chemical Communications</i> , 2018 , 54, 2304-2307 | 5.8 | 32 |
| 25 | Engineering Biocompatible Hydrogels from Bicomponent Natural Nanofibers for Anticancer Drug Delivery. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 935-942 | 5.7 | 28 |
| 24 | High cycling stability and well printability poly(3,4-ethylenedioxythiophene):poly(styrene sulfonate)/multi-walled carbon nanotube nanocomposites via in situ polymerization applied on electrochromic display. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45943 | 2.9 | 8 |
| 23 | 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 | 8.4 | 10 |
| 22 | Photoluminescent Composites of Lanthanide-Based Nanocrystal-Functionalized Cellulose Fibers for Anticounterfeiting Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 13960-13967 | 8.3 | 28 |
| 21 | Preparation and Assessment of Heat-Treated β -Chitin Nanowhiskers Reinforced Poly(vinyl alcohol) Film for Packaging Application. <i>Materials</i> , 2018 , 11, | 3.5 | 17 |
| 20 | Rapid shape memory TEMPO-oxidized cellulose nanofibers/polyacrylamide/gelatin hydrogels with enhanced mechanical strength. <i>Carbohydrate Polymers</i> , 2017 , 171, 77-84 | 10.3 | 53 |
| 19 | 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 | 9.5 | 22 |

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| 18 | Multivalent cations-triggered rapid shape memory sodium carboxymethyl cellulose/polyacrylamide hydrogels with tunable mechanical strength. <i>Carbohydrate Polymers</i> , 2017 , 178, 159-165 | 10.3 | 51 |
| 17 | Patternable transparent and conductive elastomers towards flexible tactile/strain sensors. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 8475-8481 | 7.1 | 49 |
| 16 | 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 | 2.3 | 9 |
| 15 | 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 | 8.3 | 46 |
| 14 | Robust fabrication of fluorine-free superhydrophobic steel mesh for efficient oil/water separation. <i>Journal of Materials Science</i> , 2017 , 52, 2549-2559 | 4.3 | 40 |
| 13 | An Image Stitching Algorithm Based on Histogram Matching and SIFT Algorithm. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2017 , 31, 1754006 | 1.1 | 27 |
| 12 | Evaluation of image quality metrics for sharpness enhancement 2017 , | | 3 |
| 11 | Xylan-based temperature/pH sensitive hydrogels for drug controlled release. <i>Carbohydrate Polymers</i> , 2016 , 151, 189-197 | 10.3 | 73 |
| 10 | Microwave-assisted hydrothermal treatment of corncob using tin(IV) chloride as catalyst for furfural production. <i>Cellulose</i> , 2016 , 23, 1649-1661 | 5.5 | 14 |
| 9 | 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 | 3.7 | 7 |
| 8 | Comparative study on temperature/pH sensitive xylan-based hydrogels: their properties and drug controlled release. <i>RSC Advances</i> , 2015 , 5, 90671-90681 | 3.7 | 30 |
| 7 | Development and evaluation of a hybrid point-wise gamut mapping framework 2015 , | | 3 |
| 6 | N-Phthaloyltranexamic acid ammonium salt derivatives as photocaged superbase for redox free radical photopolymerization. <i>Polymer Chemistry</i> , 2014 , 5, 2951-2960 | 4.9 | 20 |
| 5 | 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 | 8 |
| 4 | Preparation and Characterization of Polyvinyl Alcohol-Chitosan/Cerium-Nanocellulose Hydrogel for Medical Dressing Application. <i>Starch/Staerke</i> , 2100197 | 2.3 | 0 |
| 3 | Straightforward fabrication of robust and healable superhydrophobic steel mesh based on polydimethylsiloxane. <i>Journal of Applied Polymer Science</i> , 52206 | 2.9 | |
| 2 | Reflectance model for filament yarn composed of different color monofilaments. <i>Journal of the Textile Institute</i> , 1-9 | 1.5 | 3 |
| 1 | Color Prediction Model of Gray Hybrid Multifilament Fabric. <i>Journal of Shanghai Jiaotong University (Science)</i> , 1 | 0.6 | |

