# Yonghao Ni

List of Publications by Year
in descending order

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| | | 20759 | 51492 |
|---|---|---|---|
| 278 | 11,565 | 60 | 86 |
| papers | citations | h-index | g-index |

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|---|---|---|---|
| 279 | 279 | 279 | 9437 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Screen printing fabricating patterned and customized full paper-based energy storage devices with excellent photothermal, self-healing, high energy density and good electromagnetic shielding performances. Journal of Materials Science and Technology, 2022, 97, 190-200. | 5.6 | 71 |
| 2 | Modification of PEDOT:PSS towards high-efficiency OLED electrode via synergistic effect of carboxy and phenol groups from biomass derivatives. Chemical Engineering Journal, 2022, 430, 133014. | 6.6 | 21 |
| 3 | Research progress of smart response composite hydrogels based on nanocellulose. Carbohydrate Polymers, 2022, 275, 118741. | 5.1 | 23 |
| 4 | Highly transparent RCF/PTFE humidity and IR light dual-driven actuator with high force density, sensitivity and stability. Applied Surface Science, 2022, 572, 151502. | 3.1 | 6 |
| 5 | Development of stable agar/carrageenan-Fe3O4-Klebsiella pneumoniae composite beads for efficient phenol degradation. Environmental Research, 2022, 205, 112454. | 3.7 | 8 |
| 6 | Tannic acid modified hemicellulose nanoparticle reinforced ionic hydrogels with multi-functions for human motion strain sensor applications. Industrial Crops and Products, 2022, 176, 114412. | 2.5 | 20 |
| 7 | Lignin reinforced hydrogels with fast self-recovery, multi-functionalities via calcium ion bridging for flexible smart sensing applications. International Journal of Biological Macromolecules, 2022, 200, 226-233. | 3.6 | 13 |
| 8 | Design of asymmetric-adhesion lignin reinforced hydrogels with anti-interference for strain sensing and moist air induced electricity generator. International Journal of Biological Macromolecules, 2022, 201, 104-110. | 3.6 | 21 |
| 9 | Design of Fe<sup>3+</sup>-Rich, High-Conductivity Lignin Hydrogels for Supercapacitor and Sensor Applications. Biomacromolecules, 2022, 23, 766-778. | 2.6 | 32 |
| 10 | Recent advances on cellulose-based nanofiltration membranes and their applications in drinking water purification: A review. Journal of Cleaner Production, 2022, 333, 130171. | 4.6 | 57 |
| 11 | Near-Infrared Shielding Performance of Tungsten-Doped Tin Dioxide Nanoparticles. Industrial & Engineering Chemistry Research, 2022, 61, 1578-1587. | 1.8 | 2 |
| 12 | Novel functionalization of ZIF-67 for an efficient broad-spectrum photocatalyst: formaldehyde degradation at room temperature. New Journal of Chemistry, 2022, 46, 2962-2970. | 1.4 | 14 |
| 13 | Adhesive, Antibacterial, Conductive, Anti-UV, Self-Healing, and Tough Collagen-Based Hydrogels from a Pyrogallol-Ag Self-Catalysis System. ACS Applied Materials & Interfaces, 2022, 14, 8728-8742. | 4.0 | 28 |
| 14 | Mussel-Inspired Magnetic Dissolving Pulp Fibers Toward the Adsorption and Degradation of Organic Dyes. Frontiers in Chemistry, 2022, 10, 840133. | 1.8 | 2 |
| 15 | An environmentally friendly and highly transparent ZnO/cellulose nanocomposite membrane for UV sensing and shielding. Cellulose, 2022, 29, 4439-4453. | 2.4 | 10 |
| 16 | Nanolignin filled conductive hydrogel with improved mechanical, anti-freezing, UV-shielding and transparent properties for strain sensing application. International Journal of Biological Macromolecules, 2022, 205, 442-451. | 3.6 | 43 |
| 17 | TEMPO-mediated oxidized cellulose nanofibers-Cd2+ derived hierarchically porous carbon aerogel for oxygen reduction electrocatalysis. Journal of Electroanalytical Chemistry, 2022, 910, 116168. | 1.9 | 5 |
| 18 | High lignin containing hydrogels with excellent conducting, self-healing, antibacterial, dye adsorbing, sensing, moist-induced power generating and supercapacitance properties. International Journal of Biological Macromolecules, 2022, 207, 48-61. | 3.6 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Role of nanocellulose in colored paper preparation. International Journal of Biological Macromolecules, 2022, 206, 355-362. | 3.6 | 3 |
| 20 | Towards sustainable oil/gas fracking by reusing its process water: A review on fundamentals, challenges, and opportunities. Journal of Petroleum Science and Engineering, 2022, 213, 110422. | 2.1 | 10 |
| 21 | Lignin-Reinforced Paper with Excellent Stability and Thermal Properties for an Efficient Heat Spreader. ACS Sustainable Chemistry and Engineering, 2022, 10, 5569-5581. | 3.2 | 2 |
| 22 | Plant-inspired conductive adhesive organohydrogel with extreme environmental tolerance as a wearable dressing for multifunctional sensors. Colloids and Surfaces B: Biointerfaces, 2022, 215, 112509. | 2.5 | 22 |
| 23 | Energy harvesting by vitrimer-based moist-electric generators. Journal of Materials Chemistry A, 2022, 10, 11524-11534. | 5.2 | 14 |
| 24 | A tough organohydrogel-based multiresponsive sensor for a triboelectric nanogenerator and supercapacitor toward wearable intelligent devices. Journal of Materials Chemistry A, 2022, 10, 12092-12103. | 5.2 | 35 |
| 25 | Preparation of Hemicellulose Nanoparticle-Containing Ionic Hydrogels with High Strength, Self-Healing, and UV Resistance and Their Applications as Strain Sensors and Asymmetric Pressure Sensors. Biomacromolecules, 2022, 23, 2272-2279. | 2.6 | 13 |
| 26 | High-Sensitivity Multiresponses Cellulose-Based Actuators with Configurable Amplitude. ACS Sustainable Chemistry and Engineering, 2022, 10, 6414-6425. | 3.2 | 15 |
| 27 | Achieving Higher Signal Response Than Splitless GC Injection by High-Pressure Headspace Sampling and Full Evaporation Technique. Chromatographia, 2022, 85, 507. | 0.7 | 1 |
| 28 | A multifunctional MXene-assembled anhydrous gel electronics. Journal of Colloid and Interface Science, 2022, 623, 1151-1159. | 5.0 | 9 |
| 29 | Nanofibrillated Cellulose-Derived Nanofibrous Co@N-C as Oxygen Reduction Reaction Catalysts in Znâ€“Air Batteries. ACS Applied Nano Materials, 2022, 5, 6438-6446. | 2.4 | 9 |
| 30 | Molded fiber and pulp products as green and sustainable alternatives to plastics: A mini review. Journal of Bioresources and Bioproducts, 2022, 7, 14-25. | 11.8 | 45 |
| 31 | Fruit Peel-Inspired Super-Stable Ionic Organohydrogel Electronics with Dense Hydrophobic Skin. ACS Applied Polymer Materials, 2022, 4, 4673-4680. | 2.0 | 2 |
| 32 | Cellulose Hollow Annular Nanoparticles Prepared from High-Intensity Ultrasonic Treatment. ACS Nano, 2022, 16, 8928-8938. | 7.3 | 13 |
| 33 | Lignin-containing hydrogels with anti-freezing, excellent water retention and super-flexibility for sensor and supercapacitor applications. International Journal of Biological Macromolecules, 2022, 214, 77-90. | 3.6 | 18 |
| 34 | Redispersion of dried plant nanocellulose: A review. Carbohydrate Polymers, 2022, 294, 119830. | 5.1 | 18 |
| 35 | Highly ordered asymmetric cellulose-based honeycomb membrane for moisture-electricity generation and humidity sensing. Carbohydrate Polymers, 2022, 294, 119809. | 5.1 | 5 |
| 36 | Ultra-low pressure cellulose-based nanofiltration membrane fabricated on layer-by-layer assembly for efficient sodium chloride removal. Carbohydrate Polymers, 2021, 255, 117352. | 5.1 | 33 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | A Synthetic Method for Siteâ€Specific Functionalized Polypeptides: Metalâ€Free, Highly Active, and Selective at Room Temperature. Angewandte Chemie, 2021, 133, 902-908. | 1.6 | 3 |
| 38 | Chitin nanofibers as versatile bio-templates of zeolitic imidazolate frameworks for N-doped hierarchically porous carbon electrodes for supercapacitor. Carbohydrate Polymers, 2021, 251, 117107. | 5.1 | 58 |
| 39 | Super-ductile, injectable, fast self-healing collagen-based hydrogels with multi-responsive and accelerated wound-repair properties. Chemical Engineering Journal, 2021, 405, 126756. | 6.6 | 49 |
| 40 | Integrating phosphotungstic acid-assisted prerefining with cellulase treatment for enhancing the reactivity of kraft-based dissolving pulp. Bioresource Technology, 2021, 320, 124283. | 4.8 | 29 |
| 41 | Fruit-battery-inspired self-powered stretchable hydrogel-based ionic skin that works effectively in extreme environments. Journal of Materials Chemistry A, 2021, 9, 3968-3975. | 5.2 | 42 |
| 42 | A bioinspired gallol-functionalized collagen as wet-tissue adhesive for biomedical applications. Chemical Engineering Journal, 2021, 417, 127962. | 6.6 | 37 |
| 43 | Alternative initiatives for nonâ€wood chemical pulping and integration with the biorefinery concept: A review. Biofuels, Bioproducts and Biorefining, 2021, 15, 100-118. | 1.9 | 24 |
| 44 | A Synthetic Method for Siteâ€Specific Functionalized Polypeptides: Metalâ€Free, Highly Active, and Selective at Room Temperature. Angewandte Chemie - International Edition, 2021, 60, 889-895. | 7.2 | 15 |
| 45 | Converting bleached hardwood kraft pulp to dissolving pulp by using organic electrolyte solutions. Cellulose, 2021, 28, 1311-1320. | 2.4 | 6 |
| 46 | Fabrication of high value cellulose nanofibers@Ni foam by non carbonization: various application developed during the preparation. Cellulose, 2021, 28, 1455-1468. | 2.4 | 29 |
| 47 | Breaking the lignin conversion bottleneck for multiple products: Co-production of aryl monomers and carbon nanospheres using one-step catalyst-free depolymerization. Fuel, 2021, 285, 119211. | 3.4 | 25 |
| 48 | Fabrication of reduced graphene oxide-cellulose nanofibers based hybrid film with good hydrophilicity and conductivity as electrodes of supercapacitor. Cellulose, 2021, 28, 3733-3743. | 2.4 | 44 |
| 49 | Novel melamine-based porous organic materials as metal-free catalysts for copolymerization of SO2 with epoxide. Polymer, 2021, 217, 123434. | 1.8 | 12 |
| 50 | Nano-SiO2 used with cationic polymer to improve the strength of sack paper. BioResources, 2021, 16, 3348-3359. | 0.5 | 0 |
| 51 | Pre-cryocrushing of natural carbon precursors to prepare nitrogen, sulfur co-doped porous microcellular carbon as an efficient ORR catalyst. Carbon, 2021, 173, 800-808. | 5.4 | 44 |
| 52 | Cellulose-based electrospun nanofiber membrane with core-sheath structure and robust photocatalytic activity for simultaneous and efficient oil emulsions separation, dye degradation and Cr(VI) reduction. Carbohydrate Polymers, 2021, 258, 117676. | 5.1 | 69 |
| 53 | A chitosan/dopamine-TiO2 composite nanofiltration membrane for antifouling in water purification. Cellulose, 2021, 28, 4959-4973. | 2.4 | 15 |
| 54 | Transparent, smooth, and sustainable cellulose-derived conductive film applied for the flexible electronic device. Carbohydrate Polymers, 2021, 260, 117820. | 5.1 | 16 |

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|---|---|---|---|
| 55 | A green all-polysaccharide hydrogel platform for sensing and electricity harvesting/storage. Journal of Power Sources, 2021, 493, 229711. | 4.0 | 18 |
| 56 | Lignin and cellulose derivatives-induced hydrogel with asymmetrical adhesion, strength, and electriferous properties for wearable bioelectrodes and self-powered sensors. Chemical Engineering Journal, 2021, 414, 128903. | 6.6 | 80 |
| 57 | Biocompatible Catecholâ€Functionalized Celluloseâ€Based Adhesives with Strong Water Resistance. Macromolecular Materials and Engineering, 2021, 306, 2100232. | 1.7 | 19 |
| 58 | Wearable lignin-based hydrogel electronics: A mini-review. International Journal of Biological Macromolecules, 2021, 181, 45-50. | 3.6 | 58 |
| 59 | High-Yield and High-Efficiency Conversion of HMF to Levulinic Acid in a Green and Facile Catalytic Process by a Dual-Function BrÃ¸nsted-Lewis Acid HScCl<sub>4</sub> Catalyst. ACS Omega, 2021, 6, 15940-15947. | 1.6 | 8 |
| 60 | New Kind of Lignin/Polyhydroxyurethane Composite: Green Synthesis, Smart Properties, Promising Applications, and Good Reprocessability and Recyclability. ACS Applied Materials & Interfaces, 2021, 13, 28938-28948. | 4.0 | 64 |
| 61 | An all-paper, scalable and flexible supercapacitor based on vertically aligned polyaniline (PANI) nano-dendrites@fibers. Journal of Power Sources, 2021, 498, 229886. | 4.0 | 65 |
| 62 | Improving the sensitivity of cellulose fiber-based lateral flow assay by incorporating a water-dissolvable polyvinyl alcohol dam. Cellulose, 2021, 28, 8641-8651. | 2.4 | 20 |
| 63 | Lignin sulfonate induced ultrafast polymerization of double network hydrogels with anti-freezing, high strength and conductivity and their sensing applications at extremely cold conditions. Composites Part B: Engineering, 2021, 217, 108879. | 5.9 | 52 |
| 64 | Nature-inspired self-powered cellulose nanofibrils hydrogels with high sensitivity and mechanical adaptability. Carbohydrate Polymers, 2021, 264, 117995. | 5.1 | 43 |
| 65 | An oriented Fe3+-regulated lignin-based hydrogel with desired softness, conductivity, stretchability, and asymmetric adhesiveness towards anti-interference pressure sensors. International Journal of Biological Macromolecules, 2021, 184, 282-288. | 3.6 | 31 |
| 66 | Tendon-inspired fibers from liquid crystalline collagen as the pre-oriented bioink. International Journal of Biological Macromolecules, 2021, 185, 739-749. | 3.6 | 10 |
| 67 | Non-Wood Fibers: Relationships of Fiber Properties with Pulp Properties. ACS Omega, 2021, 6, 21613-21622. | 1.6 | 38 |
| 68 | Mussel-inspired blue-light-activated cellulose-based adhesive hydrogel with fast gelation, rapid haemostasis and antibacterial property for wound healing. Chemical Engineering Journal, 2021, 417, 129329. | 6.6 | 157 |
| 69 | Carbonized wood cell chamber-reduced graphene oxide@PVA flexible conductive material for supercapacitor, strain sensing and moisture-electric generation applications. Chemical Engineering Journal, 2021, 418, 129518. | 6.6 | 72 |
| 70 | Preparation of lignosulfonate ionic hydrogels for supercapacitors, sensors and dye adsorbent applications. International Journal of Biological Macromolecules, 2021, 187, 189-199. | 3.6 | 27 |
| 71 | A multifunctional nanocellulose-based hydrogel for strain sensing and self-powering applications. Carbohydrate Polymers, 2021, 268, 118210. | 5.1 | 40 |
| 72 | Construction of flexible cellulose nanofiber fiber@graphene quantum dots hybrid film applied in supercapacitor and sensor. Cellulose, 2021, 28, 10359-10372. | 2.4 | 21 |

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|---|---|---|---|
| 73 | Carbonized porous wood as an effective scaffold for loading flower-like CoS, NiS nanofibers with Co, Ni nanoparticles served as electrode material for high-performance supercapacitors. Industrial Crops and Products, 2021, 167, 113545. | 2.5 | 21 |
| 74 | Green and sustainable cellulose-derived humidity sensors: A review. Carbohydrate Polymers, 2021, 270, 118385. | 5.1 | 66 |
| 75 | Lignin nanofiller-reinforced composites hydrogels with long-lasting adhesiveness, toughness, excellent self-healing, conducting, ultraviolet-blocking and antibacterial properties. Composites Part B: Engineering, 2021, 225, 109316. | 5.9 | 44 |
| 76 | Coordination-driven hierarchically structured composites with N-CNTs-grafted graphene-confined ultra-small Co nanoparticles as effective oxygen electrocatalyst in rechargeable Zn-air battery. Ceramics International, 2021, 47, 30091-30098. | 2.3 | 10 |
| 77 | Self-assembled all-polysaccharide hydrogel film for versatile paper-based food packaging. Carbohydrate Polymers, 2021, 271, 118425. | 5.1 | 47 |
| 78 | Biomaterials- and biostructures Inspired high-performance flexible stretchable strain sensors: A review. Chemical Engineering Journal, 2021, 425, 129949. | 6.6 | 65 |
| 79 | A thin and flexible solid electrolyte templated by controllable porous nanocomposites toward extremely high performance all-solid-state lithium-ion batteries. Chemical Engineering Journal, 2021, 425, 130632. | 6.6 | 30 |
| 80 | Cellulose-based flexible organic light-emitting diodes with enhanced stability and external quantum efficiency. Journal of Materials Chemistry C, 2021, 9, 4496-4504. | 2.7 | 15 |
| 81 | 3D hollow-structured hydrogels with editable macrostructure, function, and mechanical properties induced by segmented adjustments. RSC Advances, 2021, 11, 26876-26882. | 1.7 | 3 |
| 82 | Lignocellulose-derived hydrogel/aerogel-based flexible quasi-solid-state supercapacitors with high-performance: a review. Journal of Materials Chemistry A, 2021, 9, 14233-14264. | 5.2 | 55 |
| 83 | Lignin reinforced hydrogels with multi-functional sensing and moist-electric generating applications. International Journal of Biological Macromolecules, 2021, 193, 941-947. | 3.6 | 19 |
| 84 | Immobilization and Characterization of Pectinase onto the Cationic Polystyrene Resin. ACS Omega, 2021, 6, 31683-31688. | 1.6 | 9 |
| 85 | Co-N-Doped Directional Multichannel PAN/CA-Based Electrospun Carbon Nanofibers as High-Efficiency Bifunctional Oxygen Electrocatalysts for Znâ€“Air Batteries. ACS Sustainable Chemistry and Engineering, 2021, 9, 17068-17077. | 3.2 | 25 |
| 86 | A bionic tactile plastic hydrogel-based electronic skin constructed by a nerve-like nanonetwork combining stretchable, compliant, and self-healing properties. Chemical Engineering Journal, 2020, 379, 122271. | 6.6 | 171 |
| 87 | Stabilization of Pickering emulsions with cellulose nanofibers derived from oil palm fruit bunch. Cellulose, 2020, 27, 839-851. | 2.4 | 35 |
| 88 | Houttuynia-derived nitrogen-doped hierarchically porous carbon for high-performance supercapacitor. Carbon, 2020, 161, 62-70. | 5.4 | 282 |
| 89 | Anti-freezing and moisturizing conductive hydrogels for strain sensing and moist-electric generation applications. Journal of Materials Chemistry A, 2020, 8, 3109-3118. | 5.2 | 158 |
| 90 | Nanocellulose-assisted synthesis of ultrafine Co nanoparticles-loaded bimodal micro-mesoporous N-rich carbon as bifunctional oxygen electrode for Zn-air batteries. Journal of Power Sources, 2020, 450, 227640. | 4.0 | 42 |

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|---|---|---|---|
| 91 | Microwave-Assisted Catalytic Cleavage of Câ€“C Bond in Lignin Models by Bifunctional Pt/CDC-SiC. ACS Sustainable Chemistry and Engineering, 2020, 8, 38-43. | 3.2 | 20 |
| 92 | Effects of hemicellulose content on TEMPO-mediated selective oxidation, and the properties of films prepared from bleached chemical pulp. Cellulose, 2020, 27, 1043-1054. | 2.4 | 9 |
| 93 | Facile synthesis of Ag NPs@ MIL-100(Fe)/ guar gum hybrid hydrogel as a versatile photocatalyst for wastewater remediation: Photocatalytic degradation, water/oil separation and bacterial inactivation. Carbohydrate Polymers, 2020, 230, 115642. | 5.1 | 82 |
| 94 | Conductive Regenerated Cellulose Film and Its Electronic Devices â€“ A Review. Carbohydrate Polymers, 2020, 250, 116969. | 5.1 | 35 |
| 95 | Dialdehyde modified cellulose nanofibers enhanced the physical properties of decorative paper impregnated by aldehyde-free adhesive. Carbohydrate Polymers, 2020, 250, 116941. | 5.1 | 28 |
| 96 | Insight on adsorption of cellulase on wet ground corncob residues and its evaluation by multivariate linear analysis. Bioresource Technology, 2020, 318, 124107. | 4.8 | 6 |
| 97 | A three dimensional interconnected Li7La3Zr2O12 framework composite solid electrolyte utilizing lignosulfonate/ cellulose nanofiber bio-template for high performance lithium ion batteries. Journal of Power Sources, 2020, 477, 228752. | 4.0 | 26 |
| 98 | Super-stable, solvent-resistant and uniform lignin nanorods and nanospheres with a high yield in a mild and facile process. Green Chemistry, 2020, 22, 8734-8744. | 4.6 | 29 |
| 99 | Asymmetrically Patterned Cellulose Nanofibers/Graphene Oxide Composite Film for Humidity Sensing and Moist-Induced Electricity Generation. ACS Applied Materials & Interfaces, 2020, 12, 55205-55214. | 4.0 | 56 |
| 100 | A cellulose-based nanofiltration membrane with a stable three-layer structure for the treatment of drinking water. Cellulose, 2020, 27, 8237-8253. | 2.4 | 31 |
| 101 | Lignin-Directed Control of Silver Nanoparticles with Tunable Size in Porous Lignocellulose Hydrogels and Their Application in Catalytic Reduction. ACS Sustainable Chemistry and Engineering, 2020, 8, 12655-12663. | 3.2 | 69 |
| 102 | Improving enzymatic hydrolysis of mechanically refined poplar branches with assistance of hydrothermal and Fenton pretreatment. Bioresource Technology, 2020, 316, 123920. | 4.8 | 31 |
| 103 | An adaptive ionic skin with multiple stimulus responses and moist-electric generation ability. Journal of Materials Chemistry A, 2020, 8, 17498-17506. | 5.2 | 53 |
| 104 | Effect of Various Microwave Absorbents on the Microwave-Assisted Lignin Depolymerization Process. ACS Sustainable Chemistry and Engineering, 2020, 8, 16086-16090. | 3.2 | 15 |
| 105 | Photochromic nanocellulose composite films with excellent anti-UV capacity. Applied Physics A: Materials Science and Processing, 2020, 126, 1. | 1.1 | 4 |
| 106 | Using ionic liquid (EmimAc)-water mixture in selective removal of hemicelluloses from a paper-grade bleached hardwood kraft pulp. Cellulose, 2020, 27, 9653-9661. | 2.4 | 12 |
| 107 | Fabrication of lignin nanospheres by emulsification in a binary Î³-valerolactone/glycerol system and their application as a bifunctional reducer and carrier for Pd nanoparticles with enhanced catalytic activity. Green Chemistry, 2020, 22, 8594-8603. | 4.6 | 32 |
| 108 | Palladium nano-catalyst supported on cationic nanocelluloseâ€“alginate hydrogel for effective catalytic reactions. Cellulose, 2020, 27, 6995-7008. | 2.4 | 47 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | All-Lignin-Based Hydrogel with Fast pH-Stimuli Responsiveness for Mechanical Switching and Actuation. Chemistry of Materials, 2020, 32, 4324-4330. | 3.2 | 136 |
| 110 | A smart porous wood-supported flower-like NiS/Ni conjunction with vitrimer co-effect as a multifunctional material with reshaping, shape-memory, and self-healing properties for applications in high-performance supercapacitors, catalysts, and sensors. Journal of Materials Chemistry A, 2020, 8, 10898-10908. | 5.2 | 107 |
| 111 | A multifunctional self-crosslinked chitosan/cationic guar gum composite hydrogel and its versatile uses in phosphate-containing water treatment and energy storage. Carbohydrate Polymers, 2020, 244, 116472. | 5.1 | 58 |
| 112 | Water molecule â€œspinning cutterâ€•controllably improving the performance of cellulosic fibers. Cellulose, 2020, 27, 7297-7306. | 2.4 | 7 |
| 113 | Ultrafast gelling using sulfonated lignin-Fe3+ chelates to produce dynamic crosslinked hydrogel/coating with charming stretchable, conductive, self-healing, and ultraviolet-blocking properties. Chemical Engineering Journal, 2020, 396, 125341. | 6.6 | 130 |
| 114 | Quantification of N-methyl morpholine N-oxide in biorefinery process solution by headspace gas chromatography. Cellulose, 2020, 27, 6861-6870. | 2.4 | 4 |
| 115 | A self-healing, stretchable, and conductive Poly(N-vinylpyrrolidone)/gallic acid composite hydrogel formed via hydrogen bonding for wearable electronic sensors. Composites Science and Technology, 2020, 198, 108294. | 3.8 | 69 |
| 116 | Highly Selective Conversion of Furfural to Furfural Alcohol or Levulinate Ester in One Pot over ZrO<sub>2</sub>@SBA-15 and Its Kinetic Behavior. ACS Sustainable Chemistry and Engineering, 2020, 8, 5584-5594. | 3.2 | 53 |
| 117 | Conversion of Loblolly pine biomass residues to bio-oil in a two-step process: Fast pyrolysis in the presence of zeolite and catalytic hydrogenation. Industrial Crops and Products, 2020, 148, 112318. | 2.5 | 21 |
| 118 | Novel Modification of Collagen: Realizing Desired Water Solubility and Thermostability in a Conflict-Free Way. ACS Omega, 2020, 5, 5772-5780. | 1.6 | 14 |
| 119 | Biochars from Lignin-rich Residue of Furfural Manufacturing Process for Heavy Metal Ions Remediation. Materials, 2020, 13, 1037. | 1.3 | 8 |
| 120 | A smart paper@polyaniline nanofibers incorporated vitrimer bifunctional device with reshaping, shape-memory and self-healing properties applied in high-performance supercapacitors and sensors. Chemical Engineering Journal, 2020, 396, 125318. | 6.6 | 93 |
| 121 | A self-cleaning and photocatalytic cellulose-fiber- supported â€œAg@AgCl@MOF- clothâ€™â€™ membrane for complex wastewater remediation. Carbohydrate Polymers, 2020, 247, 116691. | 5.1 | 83 |
| 122 | Modified Ti3C2TX (MXene) nanosheet-catalyzed self-assembled, anti-aggregated, ultra-stretchable, conductive hydrogels for wearable bioelectronics. Chemical Engineering Journal, 2020, 401, 126129. | 6.6 | 92 |
| 123 | Mild potassium hydroxide-based alkaline integrated biorefinery process of Kash (Saccharum) Tj ETQq1 1 0.784314 rgBT /Overlock 10 | 2.5 | 7 |
| 124 | Preparation and Characterization of Various Kraft Lignins and Impact on Their Pyrolysis Behaviors. Industrial & Engineering Chemistry Research, 2020, 59, 3310-3320. | 1.8 | 20 |
| 125 | C-nanocoated ZnO by TEMPO-oxidized cellulose templating for improved photocatalytic performance. Carbohydrate Polymers, 2020, 235, 115958. | 5.1 | 27 |
| 126 | A New Kind of Nonconventional Luminogen Based on Aliphatic Polyhydroxyurethane and Its Potential Application in Ink-Free Anticounterfeiting Printing. ACS Applied Materials & Interfaces, 2020, 12, 11005-11015. | 4.0 | 38 |

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|---|---|---|---|
| 127 | High efficiency pyrolysis of used cigarette filters for ester-rich bio-oil through microwave-assisted heating. Journal of Cleaner Production, 2020, 257, 120596. | 4.6 | 26 |
| 128 | A simple and effective approach to fabricate lignin nanoparticles with tunable sizes based on lignin fractionation. Green Chemistry, 2020, 22, 2011-2017. | 4.6 | 140 |
| 129 | Comparison of single-stage and two-stage hydrothermal pretreatments for improving hemicellulose separation from bamboo chips. Wood Science and Technology, 2020, 54, 547-557. | 1.4 | 4 |
| 130 | A facile method for in situ fabrication of silica/cellulose aerogels and their application in CO2 capture. Carbohydrate Polymers, 2020, 236, 116079. | 5.1 | 35 |
| 131 | Efficient Fractionation of Corn Stover for Biorefinery Using a Sustainable Pathway. ACS Sustainable Chemistry and Engineering, 2020, 8, 3454-3464. | 3.2 | 28 |
| 132 | Organic solar cells based on cellulose nanopaper from agroforestry residues with an efficiency of over 16% and effectively wide-angle light capturing. Journal of Materials Chemistry A, 2020, 8, 5442-5448. | 5.2 | 44 |
| 133 | Mild One-Pot Lignocellulose Fractionation Based on Acid-Catalyzed Biphasic Water/Phenol System to Enhance Componentsâ€™ Processability. ACS Sustainable Chemistry and Engineering, 2020, 8, 2772-2782. | 3.2 | 34 |
| 134 | Sustainable and Biodegradable Copolymers from SO<sub>2</sub> and Renewable Eugenol: A Novel Urea Fertilizer Coating Material with Superio Slow Release Performance. Macromolecules, 2020, 53, 936-945. | 2.2 | 38 |
| 135 | Superhydrophobic wood grafted by poly(2-(perfluorooctyl)ethyl methacrylate) via ATRP with self-cleaning, abrasion resistance and anti-mold properties. Holzforschung, 2020, 74, 799-809. | 0.9 | 17 |
| 136 | Transparent and conductive cellulose film by controllably growing aluminum doped zinc oxide on regenerated cellulose film. Cellulose, 2020, 27, 4847-4855. | 2.4 | 16 |
| 137 | Flexible N-Doped reduced graphene oxide/carbon Nanotube-MnO2 film as a Multifunctional Material for High-Performance supercapacitors, catalysts and sensors. Journal of Materiomics, 2020, 6, 523-531. | 2.8 | 72 |
| 138 | Chemically modified self-doped biocarbon via novel sulfonation assisted sacrificial template method for high performance flexible all solid-state supercapacitor. Journal of Colloid and Interface Science, 2020, 574, 33-42. | 5.0 | 63 |
| 139 | Ultrasensitive Physical, Bio, and Chemical Sensors Derived from 1â€, 2â€, and 3â€Ð Nanocellulosic Materials. Small, 2020, 16, e1906567. | 5.2 | 122 |
| 140 | Spider web-inspired ultra-stable 3D Ti3C2TX (MXene) hydrogels constructed by temporary ultrasonic alignment and permanent in-situ self-assembly fixation. Composites Part B: Engineering, 2020, 197, 108187. | 5.9 | 41 |
| 141 | Separation of hemicellulose and cellulose from wood pulp using a Î³-valerolactone (GVL)/water mixture. Separation and Purification Technology, 2020, 248, 117071. | 3.9 | 25 |
| 142 | Chitosan-Nanocellulose Composites for Regenerative Medicine Applications. Current Medicinal Chemistry, 2020, 27, 4584-4592. | 1.2 | 29 |
| 143 | Study on the Anti-Biodegradation Property of Tunicate Cellulose. Polymers, 2020, 12, 3071. | 2.0 | 9 |
| 144 | Flexible and conductive cellulose substrate by layered growth of silver nanowires and indium-doped tin oxide. BioResources, 2020, 15, 4699-4710. | 0.5 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
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