

Jian Yu

List of Publications by Year in descending order

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64
papers

2,808
citations

147801

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175258

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docs citations

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times ranked

3146
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Application of ionic liquids for dissolving cellulose and fabricating cellulose-based materials: state of the art and future trends. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1273-1290. | 5.9 | 304 |
| 2 | Heterogeneous nucleation uniformizing cell size distribution in microcellular nanocomposites foams. <i>Polymer</i> , 2006, 47, 7580-7589. | 3.8 | 184 |
| 3 | Phototunable Full-Color Emission of Cellulose-Based Dynamic Fluorescent Materials. <i>Advanced Functional Materials</i> , 2018, 28, 1703548. | 14.9 | 163 |
| 4 | Thermoplastic Cellulose-graft-poly(lactide) Copolymers Homogeneously Synthesized in an Ionic Liquid with 4-Dimethylaminopyridine Catalyst. <i>Biomacromolecules</i> , 2009, 10, 2013-2018. | 5.4 | 145 |
| 5 | Cellulose Aerogel Membranes with a Tunable Nanoporous Network as a Matrix of Gel Polymer Electrolytes for Safer Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 24591-24599. | 8.0 | 103 |
| 6 | Flexible and Transparent Cellulose Aerogels with Uniform Nanoporous Structure by a Controlled Regeneration Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 656-660. | 6.7 | 99 |
| 7 | Cell coalescence suppressed by crosslinking structure in polypropylene microcellular foaming. <i>Polymer Engineering and Science</i> , 2008, 48, 1312-1321. | 3.1 | 91 |
| 8 | All-Cellulose Nanocomposites Reinforced with <i>In Situ</i> Retained Cellulose Nanocrystals during Selective Dissolution of Cellulose in an Ionic Liquid. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 4417-4423. | 6.7 | 87 |
| 9 | Foaming behavior of isotactic polypropylene in supercritical CO ₂ influenced by phase morphology via chain grafting. <i>Polymer</i> , 2008, 49, 3146-3156. | 3.8 | 82 |
| 10 | Cellulose-Based Solid Fluorescent Materials. <i>Advanced Optical Materials</i> , 2016, 4, 2044-2050. | 7.3 | 81 |
| 11 | Transparent Cellulose-Silica Composite Aerogels with Excellent Flame Retardancy via an <i>In Situ</i> Sol-Gel Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 11117-11123. | 6.7 | 81 |
| 12 | Crystallization kinetics of maleic anhydride grafted polypropylene ionomers. <i>Polymer</i> , 2000, 41, 891-898. | 3.8 | 79 |
| 13 | Transparent bionanocomposites with improved properties from poly(propylene carbonate) (PPC) and cellulose nanowhiskers (CNWs). <i>Composites Science and Technology</i> , 2013, 85, 83-89. | 7.8 | 78 |
| 14 | Foaming behavior of polypropylene/polystyrene blends enhanced by improved interfacial compatibility. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 1641-1651. | 2.1 | 63 |
| 15 | Understanding cellulose dissolution: effect of the cation and anion structure of ionic liquids on the solubility of cellulose. <i>Science China Chemistry</i> , 2016, 59, 1421-1429. | 8.2 | 62 |
| 16 | Thermal degradation studies of cyclic olefin copolymers. <i>Polymer Degradation and Stability</i> , 2003, 81, 197-205. | 5.8 | 57 |
| 17 | All-cellulose composites based on the self-reinforced effect. <i>Composites Communications</i> , 2018, 9, 42-53. | 6.3 | 51 |
| 18 | Facile access to photo-switchable, dynamic-optical, multi-colored and solid-state materials from carbon dots and cellulose for photo-rewritable paper and advanced anti-counterfeiting. <i>Chemical Engineering Journal</i> , 2021, 406, 126794. | 12.7 | 50 |

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|----|--|------|-----------|
| 19 | Empty β Crystal as an Intermediate Form for the β to β^3 Transition of Syndiotactic Polystyrene in Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2005, 38, 4755-4760. | 4.8 | 49 |
| 20 | Micron-size uniform poly(methyl methacrylate) particles by dispersion polymerization in polar media. <i>Chemical Engineering Journal</i> , 2000, 78, 211-215. | 12.7 | 47 |
| 21 | Influence of Long-Chain Branching on the Crystallization and Melting Behavior of Polycarbonates in Supercritical CO ₂ . <i>Macromolecules</i> , 2007, 40, 73-80. | 4.8 | 47 |
| 22 | Ultrasonic irradiation enhanced cell nucleation: An effective approach to microcellular foams of both high cell density and expansion ratio. <i>Polymer</i> , 2008, 49, 2430-2434. | 3.8 | 45 |
| 23 | Transparent and flame retardant cellulose/aluminum hydroxide nanocomposite aerogels. <i>Science China Chemistry</i> , 2016, 59, 1335-1341. | 8.2 | 45 |
| 24 | Facile Access to Solid-State Carbon Dots with High Luminescence Efficiency and Excellent Formability via Cellulose Derivative Coatings. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5937-5945. | 6.7 | 45 |
| 25 | Homogeneous esterification of cellulose in room temperature ionic liquids. <i>Polymer International</i> , 2015, 64, 963-970. | 3.1 | 39 |
| 26 | Direct Formation of β^3 Form Crystal of Syndiotactic Polystyrene from Amorphous State in Supercritical CO ₂ . <i>Macromolecules</i> , 2004, 37, 6912-6917. | 4.8 | 38 |
| 27 | Direct and complete utilization of agricultural straw to fabricate all-biomass films with high-strength, high-haze and UV-shielding properties. <i>Carbohydrate Polymers</i> , 2019, 223, 115057. | 10.2 | 38 |
| 28 | Visual and Precise Detection of pH Values under Extreme Acidic and Strong Basic Environments by Cellulose-Based Superior Sensor. <i>Analytical Chemistry</i> , 2019, 91, 3085-3092. | 6.5 | 37 |
| 29 | Cellulose nanosphere: Preparation and applications of the novel nanocellulose. <i>Carbohydrate Polymers</i> , 2022, 277, 118863. | 10.2 | 37 |
| 30 | Directly Converting Agricultural Straw into All-Biomass Nanocomposite Films Reinforced with Additional in Situ-Retained Cellulose Nanocrystals. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 5127-5133. | 6.7 | 36 |
| 31 | Enhanced Crystallization of Bisphenol A Polycarbonate in Thin and Ultrathin Films by Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2011, 44, 5743-5749. | 4.8 | 34 |
| 32 | Thermal Behavior of Poly(ϵ -lactide) Having Low β -Isomer Content of 94% after Compressed CO ₂ Treatment. <i>Macromolecules</i> , 2010, 43, 8602-8609. | 4.8 | 30 |
| 33 | Preparation and morphology of different types of cellulose spherulites from concentrated cellulose ionic liquid solutions. <i>Soft Matter</i> , 2013, 9, 3013. | 2.7 | 29 |
| 34 | User-centric social context information management: an ontology-based approach and platform. <i>Personal and Ubiquitous Computing</i> , 2014, 18, 1061-1083. | 2.8 | 29 |
| 35 | Transparent cellulose/Laponite nanocomposite films. <i>Journal of Materials Science</i> , 2016, 51, 4125-4133. | 3.7 | 27 |
| 36 | A Reexamination of β and β^3 Syndiotactic Polypropylenes with Metallocene Catalysts. <i>Macromolecules</i> , 2004, 37, 9279-9282. | 4.8 | 23 |

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|----|---|------|-----------|
| 37 | Molecular weight characterization of cellulose using ionic liquids. <i>Polymer Testing</i> , 2021, 93, 106985. | 4.8 | 20 |
| 38 | A one-pot method to prepare transparent poly(methyl methacrylate)/montmorillonite nanocomposites using imidazolium-based ionic liquids. <i>Polymer International</i> , 2012, 61, 1382-1388. | 3.1 | 18 |
| 39 | Process analysis of phase transformation of β to β' -form crystal of syndiotactic polystyrene investigated in supercritical CO ₂ . <i>Polymer</i> , 2005, 46, 5789-5796. | 3.8 | 17 |
| 40 | Supercritical Fluid Assisted Crystal Transition of β -Form Crystal in Syndiotactic Polystyrene. <i>Macromolecular Rapid Communications</i> , 2005, 26, 112-115. | 3.9 | 15 |
| 41 | Stability of crystal forms of syndiotactic polystyrene correlated with their formation in different media having different solubility parameters. <i>Polymer</i> , 2005, 46, 11104-11111. | 3.8 | 15 |
| 42 | Free volume and crystallinity of poly(ethylene naphthalate) treated in pressurized carbon dioxide. <i>Polymer</i> , 2010, 51, 146-152. | 3.8 | 15 |
| 43 | Effect of substituents on electronic properties, thin film structure and device performance of dithienothiophene-phenylene cooligomers. <i>Thin Solid Films</i> , 2009, 517, 2968-2973. | 1.8 | 14 |
| 44 | Cosolvent effect of water in supercritical carbon dioxide facilitating induced crystallization of polycarbonate. <i>Polymer Engineering and Science</i> , 2007, 47, 1338-1343. | 3.1 | 13 |
| 45 | A Novel Cellulose/Ionic Liquid Complex Crystal. <i>Crystal Growth and Design</i> , 2018, 18, 4260-4264. | 3.0 | 13 |
| 46 | Time-Dependent Elastic Tensor of Cellulose Nanocrystal Probed by Hydrostatic Pressure and Uniaxial Stretching. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3779-3785. | 4.6 | 12 |
| 47 | A biaxially stretched cellulose film prepared from ionic liquid solution. <i>Carbohydrate Polymers</i> , 2021, 260, 117816. | 10.2 | 12 |
| 48 | Preparation of conductive polypyrrole (PPy) composites under supercritical carbon dioxide conditions. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2007, 2, 118-122. | 0.4 | 11 |
| 49 | An unusual spherulite morphology induced by nano-fillers from a concentrated cellulose/ionic liquid solution. <i>RSC Advances</i> , 2015, 5, 44648-44651. | 3.6 | 11 |
| 50 | Plasticization of [C ₁₂ MIM][PF ₆] Ionic Liquid on Foaming Performance of Poly(methyl methacrylate) in Supercritical CO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 12329-12336. | 3.7 | 10 |
| 51 | Thermostable and Redispersible Cellulose Nanocrystals with Thixotropic Gelation Behavior by a Facile Desulfation Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 11737-11746. | 6.7 | 10 |
| 52 | Poly(propylene carbonate)/clay nanocomposites with enhanced mechanical property, thermal stability and oxygen barrier property. <i>Composites Communications</i> , 2020, 22, 100520. | 6.3 | 9 |
| 53 | Immobilization of Ionic Liquids with a New Cellulose Ester Containing Imidazolium Cation for High-Performance CO ₂ Separation Membranes. <i>Macromolecular Rapid Communications</i> , 2021, 42, 2000494. | 3.9 | 9 |
| 54 | Stability of form II of syndiotactic polypropylene confirmed by cold and melt crystallization in supercritical carbon dioxide. <i>Polymer</i> , 2007, 48, 1741-1748. | 3.8 | 7 |

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|----|--|-----|-----------|
| 55 | Competitive influence of atactic polystyrene and supercritical carbon dioxide on the conformation of syndiotactic polystyrene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 1755-1764. | 2.1 | 6 |
| 56 | Establishing a three-dimensional diagram with solubility parameter representing the general behavior of crystallization for amorphous poly(ethylene 2,6-naphthalate). <i>Polymer International</i> , 2007, 56, 1298-1304. | 3.1 | 6 |
| 57 | Synergistic Effect of 1-Dodecyl-3-methylimidazolium Hexafluorophosphate Ionic Liquid and Montmorillonite on Microcellular Foaming Behavior of Poly(methyl methacrylate) by Supercritical CO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 11988-11995. | 3.7 | 5 |
| 58 | Direct formation of banded spherulites in poly(l-lactide) from the glassy state: Unexpected synergistic role of chain structure and compressed CO ₂ . <i>Polymer</i> , 2016, 99, 662-670. | 3.8 | 5 |
| 59 | Re-dispersible 1D and 2D Nanoparticle Solid Powders without any Surfactant. <i>ChemNanoMat</i> , 2019, 5, 163-168. | 2.8 | 5 |
| 60 | Supercritical CO ₂ conditioning promotes β -crystal formation in amorphous syndiotactic polystyrene during further heating. <i>Polymer</i> , 2014, 55, 1108-1112. | 3.8 | 3 |
| 61 | Cellulose aerogels prepared from cellulose/AmimCl solutions. <i>Scientia Sinica Chimica</i> , 2011, 41, 1331-1337. | 0.4 | 3 |
| 62 | Supercritical carbon dioxide assisted preparation of conductive polypyrrole/cellulose diacetate composites. <i>Journal of Applied Polymer Science</i> , 2006, 100, 4575-4580. | 2.6 | 2 |
| 63 | Hydrothermal Oxidation of Industrial Alkali Lignin for Producing Small Molecular Organic Acids. <i>Advanced Materials Research</i> , 0, 608-609, 1399-1406. | 0.3 | 2 |
| 64 | Nucleation Enhancement in Stereodeficient Poly(l-lactide) by Free Volume Expansion Resulting from Low-Temperature Pressure CO ₂ Preconditioning. <i>Polymers</i> , 2018, 10, 120. | 4.5 | 1 |