

Tao Cai

List of Publications by Citations

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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.

51
papers

1,739
citations

26
h-index

41
g-index

51
ext. papers

1,921
ext. citations

7.2
avg, IF

4.97
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 51 | Flocculation of both anionic and cationic dyes in aqueous solutions by the amphoteric grafting flocculant carboxymethyl chitosan-graft-polyacrylamide. <i>Journal of Hazardous Materials</i> , 2013 , 254-255, 36-45 | 12.8 | 195 |
| 50 | Biomimetic anchors for antifouling and antibacterial polymer brushes on stainless steel. <i>Langmuir</i> , 2011 , 27, 7065-76 | 4 | 167 |
| 49 | Anti-fouling behavior of hyperbranched polyglycerol-grafted poly(ether sulfone) hollow fiber membranes for osmotic power generation. <i>Environmental Science & Technology</i> , 2014 , 48, 9898-907 | 10.3 | 134 |
| 48 | Zwitterionic polymers grafted poly(ether sulfone) hollow fiber membranes and their antifouling behaviors for osmotic power generation. <i>Journal of Membrane Science</i> , 2016 , 497, 142-152 | 9.6 | 100 |
| 47 | Barnacle cement as surface anchor for "clicking" of antifouling and antimicrobial polymer brushes on stainless steel. <i>Biomacromolecules</i> , 2013 , 14, 2041-51 | 6.9 | 86 |
| 46 | Poly(vinylidene fluoride) Graft Copolymer Membranes with Clickable Surfaces and Their Functionalization. <i>Macromolecules</i> , 2011 , 44, 4258-4268 | 5.5 | 64 |
| 45 | Negatively charged hyperbranched polyglycerol grafted membranes for osmotic power generation from municipal wastewater. <i>Water Research</i> , 2016 , 89, 50-8 | 12.5 | 47 |
| 44 | Preparation of stimuli responsive polycaprolactone membranes of controllable porous morphology via combined atom transfer radical polymerization, ring-opening polymerization and thiol-ene click chemistry. <i>Journal of Materials Chemistry</i> , 2012 , 22, 16248 | | 47 |
| 43 | Construction of antifouling lumen surface on a poly(vinylidene fluoride) hollow fiber membrane via a zwitterionic graft copolymerization strategy. <i>Separation and Purification Technology</i> , 2017 , 176, 294-305 | 8.3 | 45 |
| 42 | Surface-functionalized and surface-functionalizable poly(vinylidene fluoride) graft copolymer membranes via click chemistry and atom transfer radical polymerization. <i>Langmuir</i> , 2011 , 27, 2936-45 | 4 | 45 |
| 41 | Functional poly(vinylidene fluoride) copolymer membranes via surface-initiated thiol-ene click reactions. <i>Polymer Chemistry</i> , 2011 , 2, 1849 | 4.9 | 43 |
| 40 | Efficient flocculation of an anionic dye from aqueous solutions using a cellulose-based flocculant. <i>Cellulose</i> , 2015 , 22, 1439-1449 | 5.5 | 42 |
| 39 | Regime Transitions of Polymer Crystal Growth Rates: Molecular Simulations and Interpretation beyond Lauritzen-Hoffman Model. <i>Macromolecules</i> , 2008 , 41, 2049-2061 | 5.5 | 42 |
| 38 | Poly(vinylidene fluoride) Membranes with Hyperbranched Antifouling and Antibacterial Polymer Brushes. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 15962-15973 | 3.9 | 41 |
| 37 | Cleaning strategies and membrane flux recovery on anti-fouling membranes for pressure retarded osmosis. <i>Journal of Membrane Science</i> , 2017 , 522, 116-123 | 9.6 | 36 |
| 36 | Preparation of jellyfish-shaped amphiphilic block-graft copolymers consisting of a poly(ϵ -caprolactone)-block-poly(pentafluorostyrene) ring and poly(ethylene glycol) lateral brushes. <i>Polymer Chemistry</i> , 2012 , 3, 1061 | 4.9 | 36 |
| 35 | Surface-functionalizable membranes of polycaprolactone-click-hyperbranched polyglycerol copolymers from combined atom transfer radical polymerization, ring-opening polymerization and click chemistry. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 1304-1315 | 7.3 | 33 |

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| 34 | Construction of Hierarchical Fouling Resistance Surfaces onto Poly(vinylidene fluoride) Membranes for Combating Membrane Biofouling. <i>Langmuir</i> , 2017 , 33, 4477-4489 | 4 | 32 |
| 33 | Hyperbranched poly(ionic liquid) functionalized poly(ether sulfone) membranes as healable antifouling coatings for osmotic power generation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 8167-8176 ¹³ | 13 | 32 |
| 32 | Multi-functionalization of poly(vinylidene fluoride) membranes via combined grafting from and grafting to approaches. <i>Soft Matter</i> , 2011 , 7, 11133 | 3.6 | 31 |
| 31 | An Environmentally Benign and pH-Sensitive Photocatalyst with Surface-Bound Metalloporphyrin for Heterogeneous Catalysis of Controlled Radical Polymerization. <i>Macromolecules</i> , 2018 , 51, 7974-7982 ^{5.5} | 5.5 | 30 |
| 30 | Xanthene Dye-Functionalized Conjugated Porous Polymers as Robust and Reusable Photocatalysts for Controlled Radical Polymerization. <i>Macromolecules</i> , 2020 , 53, 1550-1556 | 5.5 | 29 |
| 29 | Hyperbranched polycaprolactone-click-poly(N-vinylcaprolactam) amphiphilic copolymers and their applications as temperature-responsive membranes. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 814-825 ^{7.3} | 7.3 | 29 |
| 28 | Preparation of stimuli-responsive hydrogel networks with threaded Cyclodextrin end-capped chains via combination of controlled radical polymerization and click chemistry. <i>Soft Matter</i> , 2012 , 8, 5612 | 3.6 | 28 |
| 27 | Sulfonated hyperbranched polyglycerol grafted membranes with antifouling properties for sustainable osmotic power generation using municipal wastewater. <i>Journal of Membrane Science</i> , 2018 , 563, 521-530 | 9.6 | 26 |
| 26 | Metalloporphyrin-bound Janus nanocomposites with dual stimuli responsiveness for nanocatalysis in living radical polymerization. <i>Nanoscale</i> , 2018 , 10, 19254-19261 | 7.7 | 26 |
| 25 | Polymer Crystallization Confined in Hard Spherical Microdomains of Diblock Copolymers. <i>Macromolecules</i> , 2009 , 42, 3381-3385 | 5.5 | 26 |
| 24 | Polymer crystallization under nano-confinement of droplets studied by molecular simulations. <i>Faraday Discussions</i> , 2009 , 143, 129-41; discussion 169-86 | 3.6 | 24 |
| 23 | Yolk-shell nanorattles encapsulating a movable Au nanocore in electroactive polyaniline shells for flexible memory device. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 5189 | 7.1 | 23 |
| 22 | Hairy Hybrid Nanorattles of Platinum Nanoclusters with Dual-Responsive Polymer Shells for Confined Nanocatalysis. <i>Macromolecules</i> , 2016 , 49, 5649-5659 | 5.5 | 20 |
| 21 | Breakout and Breakdown Induced by Crystallization in Cylinder-Forming Diblock Copolymers. <i>Macromolecules</i> , 2008 , 41, 7625-7629 | 5.5 | 19 |
| 20 | Robust hollow nanocomposites with ruthenium-bipyridine complexes for heterogeneous catalysis of logic-controlled RAFT polymerization. <i>Nanoscale</i> , 2019 , 11, 13502-13510 | 7.7 | 18 |
| 19 | Precise growth of polymer brushes on silica-based nanocomposites via visible-light-regulated controlled radical polymerization. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6173-6179 | 13 | 15 |
| 18 | Hydrophilic ultrafiltration membranes with surface-bound eosin Y for an integrated synthesis-separation system of aqueous RAFT photopolymerization. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 9825-9831 | 13 | 15 |
| 17 | Magnetic Janus nanocomposites with iridium(iii) complexes for heterogeneous catalysis of logic controlled RAFT polymerization using multiplexed external switching. <i>Nanoscale</i> , 2020 , 12, 7595-7603 | 7.7 | 15 |

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| 16 | Improvement of the Compatibilization of High-Impact Polystyrene/Magnesium Hydroxide Composites with Partially Sulfonated Polystyrene as Macromolecular Compatibilizers. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 9204-9212 | 3.9 | 14 |
| 15 | Understanding the growth rates of polymer cocrystallization in the binary mixtures of different chain lengths. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 7370-6 | 3.4 | 13 |
| 14 | Preparation and unique electrical behaviors of monodispersed hybrid nanorattles of metal nanocores with hairy electroactive polymer shells. <i>Chemistry - A European Journal</i> , 2014 , 20, 2723-31 | 4.8 | 12 |
| 13 | Yolk-Shell Nanocomposites of a Gold Nanocore Encapsulated in an Electroactive Polyaniline Shell for Catalytic Aerobic Oxidation. <i>ACS Omega</i> , 2016 , 1, 160-167 | 3.9 | 9 |
| 12 | Fabrication of Smart Hybrid Nanoreactors from Platinum Nanodendrites Encapsulating in Hyperbranched Polyglycerol Hollow Shells. <i>ACS Applied Nano Materials</i> , 2018 , 1, 2559-2566 | 5.6 | 9 |
| 11 | Role of block junctions in the interplay of phase transitions of two-component polymeric systems. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 8853-7 | 3.4 | 8 |
| 10 | Eosin Y functionalized tertiary amine-bearing interpenetrating polymer networks for heterogeneous catalysis of logic-controlled oxygen-tolerant radical polymerization. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 25363-25370 | 13 | 7 |
| 9 | Aqueous Protein-Polymer Bioconjugation via Photoinduced RAFT Polymerization Using High Loading Heterogeneous Catalyst. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 44488-44496 | 9.5 | 7 |
| 8 | "Button and Buttonhole" Supramolecular Structure Enables the Self-Healing Behaviors of Functionalized Poly(ether sulfone) Membranes for Osmotic Power Generation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 42322-42329 | 9.5 | 6 |
| 7 | Functionalized and Functionalizable Fluoropolymer Membranes 2014 , 149-181 | | 3 |
| 6 | Guiding the design of oxygen-tolerant and cascade syntheses of block copolymers in a metalloporphyrin-functionalized membrane reactor. <i>Chemical Engineering Journal</i> , 2021 , 424, 130395 | 14.7 | 3 |
| 5 | Exploiting nanofibrous chitin microspheres as heterogeneous photocatalysts for high throughput PET-RAFT polymerization and bioconjugation. <i>Chemical Engineering Journal</i> , 2022 , 429, 132120 | 14.7 | 3 |
| 4 | Surface-Functionalized and Surface-Functionalizable Poly(vinylidene fluoride) Membranes via Controlled/Living Radical Polymerization and Click Chemistry. <i>ACS Symposium Series</i> , 2012 , 211-229 | 0.4 | 2 |
| 3 | Metalloporphyrin-anchored 2D MOF nanosheets as highly accessible heterogeneous photocatalysts towards cytocompatible living radical polymerization. <i>Chemical Engineering Journal</i> , 2022 , 434, 134692 | 14.7 | 2 |
| 2 | Development of High Throughput Photopolymerizations Using Micron-Sized Ultrathin Metal-Organic Framework Nanosheets.. <i>Macromolecular Rapid Communications</i> , 2022 , e2200020 | 4.8 | 0 |
| 1 | Development of Antifouling Pressure Retarded Osmosis Membranes 2020 , 131-161 | | |