

Yuanli Cai

List of Publications by Year in descending order

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papers

4,002
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117453

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times ranked

3315
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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A brief review of "schizophrenic" block copolymers. <i>Reactive and Functional Polymers</i> , 2006, 66, 157-165. | 2.0 | 230 |
| 2 | Syntheses of Shell Cross-Linked Micelles Using Acidic ABC Triblock Copolymers and Their Application as pH-Responsive Particulate Emulsifiers. <i>Journal of the American Chemical Society</i> , 2005, 127, 7304-7305. | 6.6 | 218 |
| 3 | Mussel-Inspired Chemistry for Robust and Surface-Modifiable Multilayer Films. <i>Langmuir</i> , 2011, 27, 13684-13691. | 1.6 | 186 |
| 4 | Toward Rapid and Well-Controlled Ambient Temperature RAFT Polymerization under UV-Vis Radiation: Effect of Radiation Wave Range. <i>Macromolecules</i> , 2006, 39, 3770-3776. | 2.2 | 185 |
| 5 | Synthesis of Low-Dimensional Polyion Complex Nanomaterials via Polymerization-Induced Electrostatic Self-Assembly. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1053-1056. | 7.2 | 167 |
| 6 | Effect of Mild Visible Light on Rapid Aqueous RAFT Polymerization of Water-Soluble Acrylic Monomers at Ambient Temperature: Initiation and Activation. <i>Macromolecules</i> , 2009, 42, 3917-3926. | 2.2 | 139 |
| 7 | The direct synthesis of interface-decorated reactive block copolymer nanoparticles via polymerisation-induced self-assembly. <i>Polymer Chemistry</i> , 2015, 6, 4955-4965. | 1.9 | 133 |
| 8 | Direct Synthesis and Stimulus-Responsive Micellization of Y-Shaped Hydrophilic Block Copolymers. <i>Macromolecules</i> , 2004, 37, 9728-9737. | 2.2 | 118 |
| 9 | A Zwitterionic ABC Triblock Copolymer That Forms a "Trinity" of Micellar Aggregates in Aqueous Solution. <i>Macromolecules</i> , 2004, 37, 7116-7122. | 2.2 | 117 |
| 10 | Synthesis and "Schizophrenic" Micellization of Double Hydrophilic AB ₄ Miktoarm Star and AB Diblock Copolymers: Structure and Kinetics of Micellization. <i>Langmuir</i> , 2007, 23, 1114-1122. | 1.6 | 116 |
| 11 | Well-controlled reversible addition-fragmentation chain transfer radical polymerisation under ultraviolet radiation at ambient temperature. <i>Chemical Communications</i> , 2005, , 5287. | 2.2 | 115 |
| 12 | Use of Polyion Complexation for Polymerization-Induced Self-Assembly in Water under Visible Light Irradiation at 25 °C. <i>ACS Macro Letters</i> , 2015, 4, 1293-1296. | 2.3 | 114 |
| 13 | Synthesis of Hydrogen-Bonded Pore-Switchable Cylindrical Vesicles via Visible-Light-Mediated RAFT Room-Temperature Aqueous Dispersion Polymerization. <i>ACS Macro Letters</i> , 2016, 5, 1327-1331. | 2.3 | 111 |
| 14 | Synthesis of Well-Defined Y-Shaped Zwitterionic Block Copolymers via Atom-Transfer Radical Polymerization. <i>Macromolecules</i> , 2005, 38, 271-279. | 2.2 | 101 |
| 15 | Janus Nanosheets of Polymer-Inorganic Layered Composites. <i>Macromolecules</i> , 2012, 45, 1460-1467. | 2.2 | 86 |
| 16 | Ambient-Temperature RAFT Polymerization of Styrene and Its Functional Derivatives under Mild Long-Wave UV-Vis Radiation. <i>Macromolecules</i> , 2007, 40, 9252-9261. | 2.2 | 80 |
| 17 | Ultra-fast RAFT polymerisation of poly(ethylene glycol) acrylate in aqueous media under mild visible light radiation at 25 °C. <i>Chemical Communications</i> , 2009, , 1368. | 2.2 | 76 |
| 18 | Facile Synthesis and Thermoresponsive Behaviors of a Well-Defined Pyrrolidone Based Hydrophilic Polymer. <i>Macromolecules</i> , 2008, 41, 3007-3014. | 2.2 | 73 |

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|----|--|-----|-----------|
| 19 | Toward rapid aqueous RAFT polymerization of primary amine functional monomer under visible light irradiation at 25 °C. <i>Polymer Chemistry</i> , 2013, 4, 1176-1182. | 1.9 | 66 |
| 20 | Synthesis of One-Component Nanostructured Polyion Complexes via Polymerization-Induced Electrostatic Self-Assembly. <i>ACS Macro Letters</i> , 2018, 7, 208-212. | 2.3 | 64 |
| 21 | Synthesis, characterization and thermal sensitivity of chitosan-based graft copolymers. <i>Carbohydrate Research</i> , 2006, 341, 2851-2857. | 1.1 | 62 |
| 22 | Synthesis of Amphiphilic Graft Copolymers of n-Butyl Acrylate and Acrylic Acid by Atom Transfer Radical Copolymerization of Macromonomers. <i>Macromolecules</i> , 2004, 37, 7484-7490. | 2.2 | 58 |
| 23 | Colloidal Stable PIC Vesicles and Lamellae Enabled by Wavelength-Orthogonal Disulfide Exchange and Polymerization-Induced Electrostatic Self-Assembly. <i>Macromolecules</i> , 2019, 52, 4703-4712. | 2.2 | 58 |
| 24 | One-Pot Electrochemical Synthesis of Fused Indole Derivatives Containing Active Hydroxyl Groups in Aqueous Medium. <i>Journal of Organic Chemistry</i> , 2009, 74, 6386-6389. | 1.7 | 57 |
| 25 | Syntheses and micellar properties of well-defined amphiphilic AB ₂ and A ₂ B Y-shaped miktoarm star copolymers of ε-caprolactone and 2-(dimethylamino)ethyl methacrylate. <i>Journal of Polymer Science Part A</i> , 2007, 45, 1446-1462. | 2.5 | 55 |
| 26 | Structure and properties of cellulose/chitin blended hydrogel membranes fabricated via a solution pre-gelation technique. <i>Carbohydrate Polymers</i> , 2010, 79, 677-684. | 5.1 | 53 |
| 27 | Highly Efficient and Well-Controlled Ambient Temperature RAFT Polymerization under Solar Radiation. <i>Macromolecular Rapid Communications</i> , 2007, 28, 725-728. | 2.0 | 52 |
| 28 | Visible Light Initiated Thermoresponsive Aqueous Dispersion Polymerization-Induced Self-Assembly. <i>Macromolecules</i> , 2019, 52, 1033-1041. | 2.2 | 52 |
| 29 | Effect of Molecular Structure on Thermoresponsive Behaviors of Pyrrolidone-Based Water-Soluble Polymers. <i>Macromolecules</i> , 2010, 43, 4041-4049. | 2.2 | 49 |
| 30 | Sequence-Controlled Polymerization-Induced Self-Assembly. <i>ACS Macro Letters</i> , 2019, 8, 623-628. | 2.3 | 48 |
| 31 | Highly efficient and well-controlled ambient temperature RAFT polymerization of glycidyl methacrylate under visible light radiation. <i>Journal of Polymer Science Part A</i> , 2007, 45, 5091-5102. | 2.5 | 45 |
| 32 | Visible Light Mediated Fast Iterative RAFT Synthesis of Amino-Based Reactive Copolymers in Water at 20 °C. <i>Macromolecular Rapid Communications</i> , 2013, 34, 1827-1832. | 2.0 | 44 |
| 33 | Effect of microphase-separation promoters on the shape-memory behavior of polyurethane. <i>Journal of Applied Polymer Science</i> , 2006, 102, 5224-5231. | 1.3 | 37 |
| 34 | Structure and mechanical properties of thermoplastic polyurethane, based on hyperbranched polyesters. <i>Journal of Applied Polymer Science</i> , 2006, 102, 5266-5273. | 1.3 | 36 |
| 35 | Polymerization-Induced Self-Assembly Promoted by Liquid-Liquid Phase Separation. <i>ACS Macro Letters</i> , 2019, 8, 943-946. | 2.3 | 28 |
| 36 | Direct synthesis and aqueous solution properties of Y-shaped, stimulus-responsive block copolymer surfactants. Electronic Supplementary Information (ESI) available: synthesis and characterisation of diblock copolymers. See http://www.rsc.org/suppdata/cc/b4/b400161c/ . <i>Chemical Communications</i> , 2004, 802. | 2.2 | 26 |

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|----|--|-----|-----------|
| 37 | Azoreductase-triggered fluorescent nanoprobe synthesized by RAFT-mediated polymerization-induced self-assembly for drug release. <i>Polymer Chemistry</i> , 2020, 11, 5619-5629. | 1.9 | 26 |
| 38 | Supramolecular complexes: lamellar structure and crystalline transformation. <i>Polymer</i> , 2004, 45, 6261-6268. | 1.8 | 25 |
| 39 | Electrochemical oxidation of catechols in the presence of 4-amino-3-methyl-5-mercapto-1,2,4-triazole bearing two nucleophilic groups. <i>Journal of Electroanalytical Chemistry</i> , 2009, 625, 131-137. | 1.9 | 25 |
| 40 | Polymerization-Induced Hierarchical Electrostatic Self-Assembly: Scalable Synthesis of Multicompartment Polyion Complex Micelles and Their Monolayer Colloidal Nanosheets and Nanocages. <i>ACS Macro Letters</i> , 2020, 9, 454-458. | 2.3 | 25 |
| 41 | Temperature-responsive amperometric H ₂ O ₂ biosensor using a composite film consisting of poly(N-isopropylacrylamide)-b-poly(2-acrylamidoethyl benzoate), graphene oxide and hemoglobin. <i>Mikrochimica Acta</i> , 2016, 183, 2501-2508. | 2.5 | 24 |
| 42 | Compartmentalization of an ABC triblock copolymer single-chain nanoparticle via coordination-driven orthogonal self-assembly. <i>Polymer Chemistry</i> , 2017, 8, 3755-3763. | 1.9 | 24 |
| 43 | Synthesis of well-defined glycidyl methacrylate based block copolymers with self-activation and self-initiation behaviors via ambient temperature atom transfer radical polymerization. <i>Journal of Polymer Science Part A</i> , 2007, 45, 2947-2958. | 2.5 | 23 |
| 44 | Noncovalent structural locking of thermoresponsive polyion complex micelles, nanowires, and vesicles via polymerization-induced electrostatic self-assembly using an arginine-like monomer. <i>Chemical Communications</i> , 2020, 56, 4954-4957. | 2.2 | 23 |
| 45 | Synthesis and aqueous solution behavior of phosphonate-functionalized chitosans. <i>European Polymer Journal</i> , 2006, 42, 2678-2685. | 2.6 | 22 |
| 46 | Direct electrochemistry and electrocatalysis of hemoglobin immobilized in an amphiphilic diblock copolymer film. <i>Sensors and Actuators B: Chemical</i> , 2009, 138, 244-250. | 4.0 | 22 |
| 47 | Construction and Self-Assembly of Single-Chain Polymer Nanoparticles via Coordination Association and Electrostatic Repulsion in Water. <i>Macromolecular Rapid Communications</i> , 2015, 36, 1521-1527. | 2.0 | 22 |
| 48 | Thermally Induced Swellability and Acid-Liable Dynamic Properties of Microgels of Copolymers Based on PEGMA and Aldehyde-Functionalized Monomer. <i>Macromolecules</i> , 2010, 43, 9511-9521. | 2.2 | 21 |
| 49 | Reversible Switched Detection of Dihydroxybenzenes Using a Temperature-sensitive Electrochemical Sensing Film. <i>Electrochimica Acta</i> , 2016, 192, 158-166. | 2.6 | 21 |
| 50 | Facile synthesis, sequence-tuned thermoresponsive behaviours and reaction-induced reorganization of water-soluble keto-polymers. <i>Polymer Chemistry</i> , 2014, 5, 4115-4123. | 1.9 | 20 |
| 51 | Different states in orthorhombic crystalline phase of high-density polyethylene. <i>Journal of Molecular Structure</i> , 2001, 562, 19-24. | 1.8 | 19 |
| 52 | Facile and controllable synthesis of hybrid silica nanoparticles densely grafted with poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 1.6 | 19 |
| 53 | Lamellar architecture and crystalline transformation in supramolecular complexes of highly-branched polyethyleneimine-octadecanoic acid Electronic supplementary information (ESI) available: Experimental section. See http://www.rsc.org/suppdata/cc/b3/b303548d/ . <i>Chemical Communications</i> , 2003, , 1932. | 2.2 | 18 |
| 54 | Crystalline Polymorphism of Alkyl Chains in Supramolecular Complexes of Polyethyleneimine with Octadecanoic Acid. <i>Macromolecular Chemistry and Physics</i> , 2001, 202, 2434-2439. | 1.1 | 17 |

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|----|--|-----|-----------|
| 55 | Mesogen-Free Supramolecular Liquid Crystalline State Formed by a Polyelectrolyte/Amphiphile Complex. <i>Macromolecular Rapid Communications</i> , 2005, 26, 226-231. | 2.0 | 17 |
| 56 | Subcomponent self-assembly of polymer chains based on dynamic and geometrical coordination diversity of the first row transition metal ions. <i>Polymer Chemistry</i> , 2014, 5, 1202-1209. | 1.9 | 17 |
| 57 | Interfacial Liquid-Liquid Phase Separation-Driven Polymerization-Induced Electrostatic Self-Assembly. <i>Macromolecules</i> , 2021, 54, 5577-5585. | 2.2 | 17 |
| 58 | Facile Synthesis and Photo-Tunable Properties of a Photosensitive Polymer Whose Chromophores Bound with pH-Labile Cyclic Acetal Linkages. <i>Macromolecules</i> , 2008, 41, 4597-4606. | 2.2 | 16 |
| 59 | Electrochemical synthesis of 1,3,4-thiadiazol-2-ylthio-substituted catechols in aqueous medium. <i>Tetrahedron</i> , 2009, 65, 4505-4512. | 1.0 | 16 |
| 60 | Media-Modulated Interchain or Intrachain Coordination of Amphiphilic Block Copolymer Micelles. <i>Macromolecules</i> , 2010, 43, 6156-6165. | 2.2 | 16 |
| 61 | Controlled Mineralization of Calcium Carbonate on the Surface of Nonpolar Organic Fibers. <i>Crystal Growth and Design</i> , 2012, 12, 29-32. | 1.4 | 16 |
| 62 | Synthesis of Low-Dimensional Polyion Complex Nanomaterials via Polymerization-Induced Electrostatic Self-Assembly. <i>Angewandte Chemie</i> , 2018, 130, 1065-1068. | 1.6 | 16 |
| 63 | Programmable selectivity of metal-imine bond coordination in subcomponent self-assembly of a primary amine based block copolymer. <i>Soft Matter</i> , 2013, 9, 1885-1894. | 1.2 | 15 |
| 64 | Acceleration and Selective Monomer Addition during Aqueous RAFT Copolymerization of Ionic Monomers at 25 °C. <i>Macromolecular Rapid Communications</i> , 2014, 35, 1430-1435. | 2.0 | 15 |
| 65 | Compartmentalization and Unidirectional Cross-Domain Molecule Shuttling of Organometallic Single-Chain Nanoparticles. <i>ACS Macro Letters</i> , 2018, 7, 572-575. | 2.3 | 15 |
| 66 | Synthesis and Solution Self-Assembly Properties of Cyclic Rod-Coil Diblock Copolymers. <i>ACS Macro Letters</i> , 2019, 8, 1564-1569. | 2.3 | 15 |
| 67 | Self-Assembled Mesomorphic Structure in Complexes of Branched Poly(ethyleneimine) with Octadecanoic Acid. <i>Macromolecular Rapid Communications</i> , 2001, 22, 504-507. | 2.0 | 14 |
| 68 | Facile synthesis of well-defined pH-labile Schiff-base-type photosensitive polymers via visible-light-activated ambient temperature RAFT polymerization. <i>Journal of Polymer Science Part A</i> , 2009, 47, 6668-6681. | 2.5 | 13 |
| 69 | Electrostatic Manipulation of Triblock Terpolymer Nanofilm Compartmentalization during Aqueous Photoinitiated Polymerization-Induced Self-Assembly. <i>Macromolecules</i> , 2020, 53, 2220-2227. | 2.2 | 12 |
| 70 | Switching preorganization and thermoresponsive behavior of a water-soluble polymer via light-tunable hydrogen bonding. <i>Soft Matter</i> , 2013, 9, 4036. | 1.2 | 11 |
| 71 | Directional supracolloidal self-assembly via dynamic covalent bonds and metal coordination. <i>Soft Matter</i> , 2015, 11, 5546-5553. | 1.2 | 11 |
| 72 | Nanostructured Multiphase Condensation of Complex Coacervates in Polymerization-Induced Electrostatic Self-Assembly. <i>ACS Macro Letters</i> , 2021, 10, 780-785. | 2.3 | 10 |

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|----|---|-----|-----------|
| 73 | Sequence control over thermo-triggered micellization and smart nanogels of copolymers based on PEGMA and aldehyde-functionalized monomer. <i>Soft Matter</i> , 2011, 7, 5861. | 1.2 | 9 |
| 74 | Thermoresponsive Synergistic Hydrogen Bonding Switched by Several Guest Units in a Water-Soluble Polymer. <i>Macromolecular Rapid Communications</i> , 2013, 34, 411-416. | 2.0 | 9 |
| 75 | Microstructure-tensile properties relationships of polyurethane/poly(urethane-modified) Tj ETQq1 1 0.784314 rgBT/Overlock_10 Tf 50 | 1.8 | 8 |
| 76 | The use of electrostatic association for rapid RAFT synthesis of histamine polyelectrolyte in aqueous solutions at and below 25 Å°C. <i>Polymer Chemistry</i> , 2016, 7, 176-183. | 1.9 | 8 |
| 77 | Structure and thermal properties of PU/P(BMI-UBMI) IPNs. <i>Journal of Applied Polymer Science</i> , 1998, 68, 1689-1694. | 1.3 | 7 |
| 78 | Metal-Folded Single-Chain Nanoparticle: Nanoclusters and Self-Assembled Reduction-Responsive Sub-50nm Discrete Subdomains. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700269. | 2.0 | 7 |
| 79 | Electrochemical Synthesis of 5-Purin-6-ylthiocatechols in Aqueous Medium. <i>Chinese Journal of Chemistry</i> , 2008, 26, 1651-1655. | 2.6 | 6 |
| 80 | Two-dimensional polymerization-induced electrostatic self-assembly via a C12-polyelectrolyte lamellar template. <i>Chemical Communications</i> , 2022, 58, 6793-6796. | 2.2 | 6 |
| 81 | Programmable self-assembly of a cystamine-block copolymer in response to pH and progressive reduction-ionization-oxidation. <i>Polymer Chemistry</i> , 2015, 6, 7455-7463. | 1.9 | 5 |
| 82 | Liquid-Phase Condensation via Macromolecular Crowding in Polymerization-Induced Electrostatic Self-Assembly. <i>ACS Macro Letters</i> , 2021, 10, 1410-1415. | 2.3 | 5 |
| 83 | Reconstruction of Block Copolymer Micelles to Long-Range Ordered Dense Nanopatterns Via Light-Tunable Hydrogen-Bonding Association. <i>Macromolecular Rapid Communications</i> , 2015, 36, 1505-1510. | 2.0 | 4 |
| 84 | Superconcentrated Hydrochloric Acid. <i>Journal of Physical Chemistry B</i> , 2011, 115, 7823-7829. | 1.2 | 3 |
| 85 | Modulating light-tunable acid sensitivity of a bioinspired polymer simply by adjusting the position of a single methoxy substituent. <i>Journal of Polymer Science Part A</i> , 2012, 50, 495-508. | 2.5 | 3 |
| 86 | Botryoid-Shaped Reactive Nanoparticles through Spontaneous Structural Reorganization of Terpolymer Micelles. <i>Macromolecular Rapid Communications</i> , 2013, 34, 1459-1463. | 2.0 | 3 |
| 87 | Autocatalytic Self-Sorting in Biomimetic Polymer. <i>Macromolecules</i> , 2016, 49, 2189-2196. | 2.2 | 3 |
| 88 | Modulating structural stability and acid sensitivity of photosensitive polymer micelles simply via one-batch UV irradiation. <i>Journal of Polymer Science Part A</i> , 2012, 50, 2878-2888. | 2.5 | 2 |
| 89 | Chelation-Induced Polymer Structural Hierarchy/Complexity in Water. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1275-1281. | 2.0 | 1 |
| 90 | Correction to Controlled Mineralization of Calcium Carbonate on the Surface of Nonpolar Organic Fibers. <i>Crystal Growth and Design</i> , 2015, 15, 3546-3546. | 1.4 | 0 |