# Si-Chong Chen

List of Publications by Year
in descending order

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Version: 2024-02-01

| 70 | 1,870 | 257450 24 | 289244 40 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 70 | 70 | 70 | 2253 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Synthesis and characterization of poly(p-dioxanone)-based degradable copolymers with enhanced thermal and hydrolytic stabilities. Chinese Chemical Letters, 2022, 33, 2151-2154. | 9.0 | 13 |
| 2 | Simultaneous toughening and strengthening of chitin-based composites via tensile-induced orientation and hydrogen bond reconstruction. Carbohydrate Polymers, 2022, 275, 118713. | 10.2 | 5 |
| 3 | Controlled synthesis and closed-loop chemical recycling of biodegradable copolymers with composition-dependent properties. Science China Chemistry, 2022, 65, 943-953. | 8.2 | 17 |
| 4 | Integration of upcycling and closed-loop recycling through alternative cyclizationâ€“depolymerization. Green Chemistry, 2022, 24, 4490-4497. | 9.0 | 16 |
| 5 | Structural and electronic engineering towards high-efficiency metal-free electrocatalysts for boosting oxygen evolution. Chemical Engineering Journal, 2022, 450, 138063. | 12.7 | 7 |
| 6 | A Self-supporting, Surface Carbonized Filter Paper Membrane for Efficient Water-in-Oil Emulsion Separation. Chinese Journal of Polymer Science (English Edition), 2021, 39, 181-188. | 3.8 | 5 |
| 7 | Superhydrophobic magnetic hollow carbon microspheres with hierarchical micro/nano-structure for ultrafast and highly-efficient multitasking oil-water separation. Carbon, 2021, 174, 70-78. | 10.3 | 23 |
| 8 | A solar evaporator based on hollow polydopamine nanotubes with all-in-one synergic design for highly-efficient water purification. Journal of Materials Chemistry A, 2021, 9, 15776-15786. | 10.3 | 39 |
| 9 | Effects of curing temperature on the structure and properties of epoxy resin-poly(Îµ-caprolactam) blends. Polymer, 2021, 228, 123940. | 3.8 | 15 |
| 10 | Toughening of Polylactide with High Tensile Strength via Constructing an Integrative Physical Crosslinking Network Based on Ionic Interactions. Macromolecules, 2021, 54, 291-301. | 4.8 | 38 |
| 11 | Low Loading of Tannic Acid-Functionalized WS<sub>2</sub> Nanosheets for Robust Epoxy Nanocomposites. ACS Applied Nano Materials, 2021, 4, 10419-10429. | 5.0 | 15 |
| 12 | â€œHot-pressing weldedâ€•composite membrane for separating oil-in-water emulsion with high structural stability. Composites Part B: Engineering, 2020, 202, 108449. | 12.0 | 11 |
| 13 | Green Fabrication of High-Performance Chitin Nanowhiskers/PVA Composite Films with a â€œBrick-and-Mortarâ€•Structure. ACS Sustainable Chemistry and Engineering, 2020, 8, 17807-17815. | 6.7 | 18 |
| 14 | Highly-efficient, Rapid and continuous separation of surfactant-stabilized Oil/Water emulsions by selective under-liquid adhering emulsified droplets. Journal of Hazardous Materials, 2020, 400, 123132. | 12.4 | 28 |
| 15 | Fe<sub>3</sub>O<sub>4</sub> Nanoparticle/N-Doped Carbon Hierarchically Hollow Microspheres for Broadband and High-Performance Microwave Absorption at an Ultralow Filler Loading. ACS Applied Materials & Interfaces, 2020, 12, 18952-18963. | 8.0 | 79 |
| 16 | Multifunctional interlayer with simultaneously capturing and catalytically converting polysulfides for boosting safety and performance of lithium-sulfur batteries at high-low temperatures. Journal of Energy Chemistry, 2020, 50, 248-259. | 12.9 | 35 |
| 17 | Thiazolium as Singleâ€Group Bifunctional Catalyst for Selectively Bulk Melt ROP of Cyclic Esters. ChemCatChem, 2019, 11, 3388-3392. | 3.7 | 6 |
| 18 | NIR light manipulated â€œpaper artâ€•for customizing devices with sophisticated structure from DA-epoxy/graphene composites. Composites Part B: Engineering, 2019, 177, 107369. | 12.0 | 6 |

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|---|---|---|---|
| 19 | Ultralight Three-Dimensional Hierarchical Cobalt Nanocrystals/N-Doped CNTs/Carbon Sponge Composites with a Hollow Skeleton toward Superior Microwave Absorption. ACS Applied Materials & Interfaces, 2019, 11, 35987-35998. | 8.0 | 140 |
| 20 | Heterogeneous catalysts based on built-in N-heterocyclic carbenes with high removability, recoverability and reusability for ring-opening polymerization of cyclic esters. Polymer Chemistry, 2019, 10, 1526-1536. | 3.9 | 9 |
| 21 | Reusable and Recyclable Superhydrophilic Electrospun Nanofibrous Membranes with In Situ Co-cross-linked Polymerâ€“Chitin Nanowhisker Network for Robust Oil-in-Water Emulsion Separation. ACS Sustainable Chemistry and Engineering, 2018, 6, 1753-1762. | 6.7 | 62 |
| 22 | Regulating the crystallizing and rheological behaviors of poly(butylene succinate) by incorporating novel macromolecular ionomers. Journal of Applied Polymer Science, 2018, 135, 45545. | 2.6 | 2 |
| 23 | Simultaneously Porous Structure and Chemical Anchor: A Multifunctional Composite by One-Step Mechanochemical Strategy toward High-Performance and Safe Lithiumâ€“Sulfur Battery. ACS Applied Materials & Interfaces, 2018, 10, 41359-41369. | 8.0 | 12 |
| 24 | Polymeric Microcapsules with Sustainable Core and Hierarchical Shell toward Superhydrophobicity and Sunlight-Induced Self-Healing Performance. Industrial & Engineering Chemistry Research, 2018, 57, 14517-14526. | 3.7 | 10 |
| 25 | Toward Super-Tough Poly(<scp>l</scp>-lactide) via Constructing Pseudo-Cross-link Network in Toughening Phase Anchored by Stereocomplex Crystallites at the Interface. ACS Applied Materials & Interfaces, 2018, 10, 26594-26603. | 8.0 | 41 |
| 26 | Full-Biobased Nanofiber Membranes toward Decontamination of Wastewater Containing Multiple Pollutants. ACS Sustainable Chemistry and Engineering, 2018, 6, 11783-11792. | 6.7 | 59 |
| 27 | Photothermal Conversion Triggered Precisely Targeted Healing of Epoxy Resin Based on Thermoreversible Dielsâ€“Alder Network and Amino-Functionalized Carbon Nanotubes. ACS Applied Materials & Interfaces, 2017, 9, 20797-20807. | 8.0 | 95 |
| 28 | Concurrent Superhydrophobicity and Thermal Energy Storage of Microcapsule with Superior Thermal Stability and Durability. ACS Sustainable Chemistry and Engineering, 2017, 5, 7759-7767. | 6.7 | 23 |
| 29 | Preparation of polymer nanocomposites with enhanced mechanical properties using hybrid of graphene and partially wrapped multi-wall carbon nanotube as nanofiller. Chinese Chemical Letters, 2017, 28, 201-205. | 9.0 | 13 |
| 30 | Poly(ethylene imine)â€Triggered Morphological Change of Anisotropic Micelles from Direct Aqueous Selfâ€Assembly of an Amphiphilic Diblock Copolymer. Macromolecular Chemistry and Physics, 2016, 217, 2165-2171. | 2.2 | 0 |
| 31 | Construction of conductive percolation network with high efficiency in composite film via a novel sparsely partial wrapping strategy. Composites Science and Technology, 2016, 136, 39-45. | 7.8 | 6 |
| 32 | Preparation and characterization of Poly(vinyl alcohol)/graphene nanocomposite with enhanced thermal stability using PEtVIm-Br as stabilizer and compatibilizer. Polymer Degradation and Stability, 2016, 131, 42-52. | 5.8 | 15 |
| 33 | Biodegradable polylactide based materials with improved crystallinity, mechanical properties and rheological behaviour by introducing a long-chain branched copolymer. RSC Advances, 2015, 5, 42162-42173. | 3.6 | 38 |
| 34 | Synthesis and characterization of a polyurethane ionene/zinc chloride complex with antibacterial properties. RSC Advances, 2015, 5, 12423-12433. | 3.6 | 9 |
| 35 | Morphological Control of Anisotropic Self-Assemblies from Alternating Poly(<i>p</i>-dioxanone)-poly(ethylene glycol) Multiblock Copolymer Depending on the Combination Effect of Crystallization and Micellization. Langmuir, 2015, 31, 6971-6980. | 3.5 | 18 |
| 36 | Preparation and characterization of nanocomposites of polyvinyl alcohol/cellulose nanowhiskers/chitosan. Composites Science and Technology, 2015, 115, 60-65. | 7.8 | 80 |

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|---|---|---|---|
| 37 | Direct Aqueous Self-Assembly of an Amphiphilic Diblock Copolymer toward Multistimuli-Responsive Fluorescent Anisotropic Micelles. ACS Nano, 2015, 9, 4649-4659. | 14.6 | 53 |
| 38 | Preparation of Coreâ€“Shell Nanofibers with Selectively Localized CNTs from Shish Kebabâ€like Hierarchical Composite Micelles. Macromolecular Rapid Communications, 2014, 35, 1450-1457. | 3.9 | 7 |
| 39 | Reversible photoswitching aggregation and dissolution of spiropyran-functionalized copolymer and light-responsive FRET process. Chinese Chemical Letters, 2014, 25, 389-396. | 9.0 | 27 |
| 40 | Thermoplastic PVA/PLA Blends with Improved Processability and Hydrophobicity. Industrial & Engineering Chemistry Research, 2014, 53, 17355-17361. | 3.7 | 65 |
| 41 | Phase separation in electrospun nanofibers controlled by crystallization induced self-assembly. Journal of Materials Chemistry A, 2014, 2, 8416. | 10.3 | 42 |
| 42 | Multi-stimuli sensitive supramolecular hydrogel formed by hostâ€“guest interaction between PNIPAM-Azo and cyclodextrin dimers. RSC Advances, 2014, 4, 4955. | 3.6 | 66 |
| 43 | Fennel-like nanoaggregates based on polysaccharide derivatives and their application in drug delivery. Colloids and Surfaces B: Biointerfaces, 2014, 113, 501-504. | 5.0 | 9 |
| 44 | Crystallization induced micellization of poly(p-dioxanone)-block-polyethylene glycol diblock copolymer functionalized with pyrene moiety. Chinese Chemical Letters, 2014, 25, 1311-1317. | 9.0 | 8 |
| 45 | Temperature dependent morphological evolution and the formation mechanism of anisotropic nano-aggregates from a crystalline-coil block copolymer of poly(p-dioxanone) and poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 1 | 3.7 | 21 |
| 46 | Nanofibers with Very Fine Coreâ€“Shell Morphology from Anisotropic Micelle of Amphiphilic Crystalline-Coil Block Copolymer. ACS Nano, 2013, 7, 4892-4901. | 14.6 | 20 |
| 47 | SYNTHESIS AND PHOTO-RESPONSIVE BEHAVIOR OF AN AZOBENZENE-CONTAINING AMPHIPHILIC TIRBLOCK COPOLYMER. Acta Polymerica Sinica, 2013, 013, 788-793. | 0.0 | 1 |
| 48 | Crystallization and morphology of a polymer blend based on linear PPDO and branched poly(p-dioxanone)â€“poly(lactic acid) block copolymer with immiscible blocks. Polymer Chemistry, 2012, 3, 2537. | 3.9 | 11 |
| 49 | Dynamic Origin and Thermally Induced Evolution of New Selfâ€Assembled Aggregates from an Amphiphilic Combâ€Like Graft Copolymer: A Multiscale and Multimorphological Procedure. Chemistry - A European Journal, 2012, 18, 12237-12241. | 3.3 | 22 |
| 50 | Synthesis and micellization of amphiphilic multi-branched poly(p-dioxanone)-block-poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2 | 3.9 | 21 |
| 51 | Electrospinning fabrication and characterization of poly(vinyl alcohol)/layered double hydroxides composite fibers. Journal of Applied Polymer Science, 2012, 126, 1556-1563. | 2.6 | 16 |
| 52 | Novel â€œstar aniseâ€•like nano aggregate prepared by self-assembling of preformed microcrystals from branched crystalline-coil alternating multi-block copolymer. Chemical Communications, 2011, 47, 4198. | 4.1 | 32 |
| 53 | Preparation and Rheological Behaviors of Thermoplastic Poly(vinyl alcohol) Modified by Lactic Acid. Industrial & Engineering Chemistry Research, 2011, 50, 9123-9130. | 3.7 | 22 |
| 54 | Well-Defined Amphiphilic Biodegradable Comb-Like Graft Copolymers: Their Unique Architecture-Determined LCST and UCST Thermoresponsivity. Macromolecules, 2011, 44, 999-1008. | 4.8 | 65 |

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|---|---|---|---|
| 55 | A facile approach to preparation of long-chain-branched poly(p-dioxanone). European Polymer Journal, 2010, 46, 24-33. | 5.4 | 10 |
| 56 | Wellâ€defined amphiphilic poly(pâ€dioxanone)â€grafted poly(vinyl alcohol) copolymers: Synthesis and micellization. Journal of Polymer Science Part A, 2010, 48, 4811-4822. | 2.3 | 16 |
| 57 | Notice of Retraction: How to learn polymer science well for university students whose major is not polymer science. , 2010, , . | | 0 |
| 58 | An efficient approach to synthesize polysaccharidesâ€graftâ€poly(pâ€dioxanone) copolymers as potential drug carriers. Journal of Polymer Science Part A, 2009, 47, 5344-5353. | 2.3 | 14 |
| 59 | A water-soluble PPDO/PEG alternating multiblock copolymer: Synthesis, characterization, and its gelâ€“sol transition behavior. European Polymer Journal, 2009, 45, 1190-1197. | 5.4 | 16 |
| 60 | Synthesis and Properties of Thermoplastic Poly(vinyl Alcohol)-Graft-Lactic Acid Copolymers. Industrial & Engineering Chemistry Research, 2009, 48, 788-793. | 3.7 | 48 |
| 61 | A biodegradable copolymer from coupling poly(pdioxanone) with poly(ethylene succinate) via toluene-2,4- diisocyanate. E-Polymers, 2009, 9, . | 3.0 | 0 |
| 62 | Synthesis of poly(lactic acid-b-p-dioxanone) block copolymers from ring opening polymerization of p-dioxanone by poly(L-lactic acid) macroinitiators. Polymer Bulletin, 2008, 61, 139-146. | 3.3 | 25 |
| 63 | A new approach to prepare high molecular weight poly(p-dioxanone) by chain-extending from dihydroxyl terminated propolymers. European Polymer Journal, 2008, 44, 465-474. | 5.4 | 20 |
| 64 | Novel Biodegradable Poly(1,4-dioxan-2-one) Grafted Soy Protein Copolymer: Synthesis and Characterization. Industrial & Engineering Chemistry Research, 2008, 47, 8233-8238. | 3.7 | 21 |
| 65 | In vitro degradation of biodegradable blending materials based on poly(p-dioxanone) and poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlo<br>Research - Part A, 2007, 80A, 453-465. | 4.0 | 24 |
| 66 | Copolymerization of poly(vinyl alcohol)-graft-poly(1,4-dioxan-2-one) with designed molecular structure by a solid-state polymerization method. Journal of Polymer Science Part A, 2006, 44, 3083-3091. | 2.3 | 15 |
| 67 | Thermal properties and non-isothermal crystallization behavior of biodegradable poly(p-dioxanone)/poly(vinyl alcohol) blends. Polymer International, 2006, 55, 383-390. | 3.1 | 29 |
| 68 | A novel biodegradable poly(p-dioxanone)-grafted poly(vinyl alcohol) copolymer with a controllable in vitro degradation. Polymer, 2006, 47, 32-36. | 3.8 | 42 |
| 69 | ABA triblock copolymers from poly(p-dioxanone) and poly(ethylene glycol). Journal of Applied Polymer Science, 2006, 102, 1092-1097. | 2.6 | 16 |
| 70 | Effect of PEG on the crystallization of PPDO/PEG blends. European Polymer Journal, 2005, 41, 1243-1250. | 5.4 | 58 |