

Advances in the use of CO₂ as a renewable polymers

Chemical Society Reviews

48, 4466-4514

DOI: 10.1039/c9cs00047j

Citation Report

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Nonmetal Schiff-Base Complex-Anchored Cellulose as a Novel and Reusable Catalyst for the Solvent-Free Ring-Opening Addition of CO ₂ with Epoxides. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 17255-17265. | 1.8 | 23 |
| 2 | Highly elastic and degradable thermoset elastomers from CO ₂ -based polycarbonates and bioderived polyesters. <i>Polymer Chemistry</i> , 2019, 10, 5265-5270. | 1.9 | 8 |
| 3 | Mechanism investigation of thermal degradation of CO ₂ -based poly(cyclohexene carbonate) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 662 T | 2.7 | 4 |
| 4 | Highly regio- and stereoselective synthesis of cyclic carbonates from biomass-derived polyols via organocatalytic cascade reaction. <i>Green Chemistry</i> , 2019, 21, 6335-6341. | 4.6 | 42 |
| 5 | Synthesis of well-defined yttrium-based Lewis acids by capturing a reaction intermediate and catalytic application for cycloaddition of CO ₂ to epoxides under atmospheric pressure. <i>Catalysis Science and Technology</i> , 2019, 9, 6152-6165. | 2.1 | 51 |
| 6 | Rebuilding supramolecular aggregates to porous hollow N-doped carbon tube inlaid with ultrasmall Ag nanoparticles: A highly efficient catalyst for CO ₂ conversion. <i>Applied Surface Science</i> , 2020, 508, 145220. | 3.1 | 15 |
| 7 | Heterodinuclear complexes featuring Zn(II) and M = Al(III), Ga(III) or In(III) for cyclohexene oxide and CO ₂ copolymerisation. <i>Dalton Transactions</i> , 2020, 49, 223-231. | 1.6 | 41 |
| 8 | Ether-functionalization of monoethanolamine (MEA) for reversible CO ₂ capture under solvent-free conditions with high-capacity and low-viscosity. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1276-1284. | 2.5 | 6 |
| 9 | Access to 1,3-oxazine-2,4-diones/1,3-thiazine-2,4-diones via organocatalytic CO ₂ /COS incorporation into allenamides. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 905-911. | 1.5 | 9 |
| 10 | Catalytic Systems for the Synthesis of Biscarbonates and Their Impact on the Sequential Preparation of Non-Isocyanate Polyurethanes. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 1651-1658. | 3.2 | 27 |
| 11 | Direct copolymerization of carbon dioxide and 1,4-butanediol enhanced by ceria nanorod catalyst. <i>Applied Catalysis B: Environmental</i> , 2020, 265, 118524. | 10.8 | 46 |
| 12 | Atmospheric CO ₂ mitigation technologies: carbon capture utilization and storage. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2020, 21, 34-43. | 3.2 | 170 |
| 13 | Changes in Phase Behavior from the Substitution of Ethylene Oxide with Carbon Dioxide in the Head Group of Nonionic Surfactants. <i>ChemSusChem</i> , 2020, 13, 601-607. | 3.6 | 8 |
| 14 | Efficient Production of Poly(Cyclohexene Carbonate) via ROCOP of Cyclohexene Oxide and CO ₂ Mediated by NNO-Scorpionate Zinc Complexes. <i>Polymers</i> , 2020, 12, 2148. | 2.0 | 8 |
| 15 | Integration of metalloporphyrin into cationic covalent triazine frameworks for the synergistically enhanced chemical fixation of CO ₂ . <i>Catalysis Science and Technology</i> , 2020, 10, 8026-8033. | 2.1 | 34 |
| 16 | Facile one-pot synthesis of ZnBr ₂ immobilized ion exchange resin for the coupling reaction of CO ₂ with propylene oxide. <i>Journal of CO₂ Utilization</i> , 2020, 42, 101324. | 3.3 | 8 |
| 17 | Unlocking the Potential of Substrate-Directed CO ₂ Activation and Conversion: Pushing the Boundaries of Catalytic Cyclic Carbonate and Carbamate Formation. <i>ChemSusChem</i> , 2020, 13, 6056-6065. | 3.6 | 31 |
| 18 | Highly effective capture and subsequent catalytic transformation of low-concentration CO ₂ by superbasic guanidines. <i>Green Chemistry</i> , 2020, 22, 7832-7838. | 4.6 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Visibleâ€Light Photoredoxâ€Catalyzed Ringâ€Opening Carboxylation of Cyclic Oxime Esters with CO ₂ . ChemSusChem, 2020, 13, 6312-6317. | 3.6 | 28 |
| 20 | Kinetic Study and Nonlinear Phenomenon during the Copolymerization of CO ₂ with meso â€Epoxides Catalyzed by Various Bimetallic Co III Complexes. Macromolecular Chemistry and Physics, 2020, 221, 2000247. | 1.1 | 7 |
| 21 | Chromium Diamino-bis(phenolate) Complexes as Catalysts for the Ring-Opening Copolymerization of Cyclohexene Oxide and Carbon Dioxide. Inorganic Chemistry, 2020, 59, 15375-15383. | 1.9 | 11 |
| 22 | Photocarboxylation with CO ₂ : an appealing and sustainable strategy for CO ₂ fixation. Green Chemistry, 2020, 22, 7301-7320. | 4.6 | 115 |
| 23 | The Effect of Oxygen to Salen-Co Complexes for the Copolymerization of PO/CO ₂ . Chinese Journal of Polymer Science (English Edition), 2020, 38, 1124-1130. | 2.0 | 15 |
| 24 | A graft copolymer composed of continuously linked carbon dioxide units and poly(vinyl alcohol). Materials Letters, 2020, 277, 128345. | 1.3 | 2 |
| 25 | Synthesis of CO ₂ -based polycarbonate- <i>g</i> -polystyrene copolymers <i>via</i> NMRP. Chemical Communications, 2020, 56, 9493-9496. | 2.2 | 7 |
| 26 | Conceptual design, environmental, and economic evaluation of direct copolymerization process of carbon dioxide and 1,4-butanediol. Journal of the Taiwan Institute of Chemical Engineers, 2020, 116, 36-42. | 2.7 | 9 |
| 27 | Visibleâ€Light Photoredoxâ€Catalyzed Remote Difunctionalizing Carboxylation of Unactivated Alkenes with CO ₂ . Angewandte Chemie, 2020, 132, 21307-21314. | 1.6 | 21 |
| 28 | Iridium-Catalyzed Homogeneous Hydrogenation and Hydrosilylation of Carbon Dioxide. Topics in Organometallic Chemistry, 2020, , 303-324. | 0.7 | 1 |
| 29 | Hybrid polyhydroxyurethanes: How to overcome limitations and reach cutting edge properties?. European Polymer Journal, 2020, 137, 109915. | 2.6 | 60 |
| 30 | Visibleâ€Light Photoredoxâ€Catalyzed Remote Difunctionalizing Carboxylation of Unactivated Alkenes with CO ₂ . Angewandte Chemie - International Edition, 2020, 59, 21121-21128. | 7.2 | 102 |
| 31 | Progress Toward Sustainable Reversible Deactivation Radical Polymerization. Macromolecular Rapid Communications, 2020, 41, e2000266. | 2.0 | 33 |
| 32 | Evaluating the direct CO ₂ to diethyl carbonate (DEC) process: Rigorous simulation, techno-economical and environmental evaluation. Journal of CO ₂ Utilization, 2020, 41, 101254. | 3.3 | 27 |
| 33 | Advancing the Synthesis of Isocyanate-Free Poly(oxazolidones)s: Scope and Limitations. Macromolecules, 2020, 53, 6396-6408. | 2.2 | 20 |
| 34 | Exploring the Sequence of Comonomer Insertion into Growing Poly(ether carbonate) Chains with Monte Carlo Methods. Macromolecules, 2020, 53, 6861-6865. | 2.2 | 6 |
| 35 | New Kind of Thermoplastic Polyurea Elastomers Synthesized from CO ₂ and with Self-Healing Properties. ACS Sustainable Chemistry and Engineering, 2020, 8, 12677-12685. | 3.2 | 18 |
| 36 | Recent advances in asymmetric synthesis with CO ₂ . Science China Chemistry, 2020, 63, 1336-1351. | 4.2 | 74 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | From terpenes to sustainable and functional polymers. <i>Polymer Chemistry</i> , 2020, 11, 5109-5127. | 1.9 | 117 |
| 38 | Lewis Base Catalysis Enables the Activation of Alcohols by means of Chloroformates as Phosgene Substitutes. <i>ChemCatChem</i> , 2020, 12, 5637-5643. | 1.8 | 5 |
| 39 | Transition Metal-Free Synthesis of Carbamates Using CO ₂ as the Carbon Source. <i>ChemSusChem</i> , 2020, 13, 6246-6258. | 3.6 | 46 |
| 40 | Cu(II)-Catalyzed Phosphonocarboxylative Cyclization Reaction of Propargylic Amines and Phosphine Oxide with CO ₂ . <i>Journal of Organic Chemistry</i> , 2020, 85, 14109-14120. | 1.7 | 25 |
| 41 | B-Doped and NH ₂ -functionalized SBA-15 with hydrogen bond donor groups for effective catalysis of CO ₂ cycloaddition to epoxides. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 3636-3645. | 3.0 | 23 |
| 42 | Organocatalytic Trapping of Elusive Carbon Dioxide Based Heterocycles by a Kinetically Controlled Cascade Process. <i>Angewandte Chemie</i> , 2020, 132, 18604-18609. | 1.6 | 7 |
| 43 | Recycling Carbon Dioxide through Catalytic Hydrogenation: Recent Key Developments and Perspectives. <i>ACS Catalysis</i> , 2020, 10, 11318-11345. | 5.5 | 215 |
| 44 | Cyclic oligourea synthesized from CO ₂ : Purification, characterization and properties. <i>Green Energy and Environment</i> , 2022, 7, 477-484. | 4.7 | 3 |
| 45 | Synthesis of Polyurea Thermoplastics through a Nonisocyanate Route Using CO ₂ and Aliphatic Diamines. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 18626-18635. | 3.2 | 14 |
| 46 | Calcium carbide as a dehydrating agent for the synthesis of carbamates, glycerol carbonate, and cyclic carbonates from carbon dioxide. <i>Green Chemistry</i> , 2020, 22, 4231-4239. | 4.6 | 47 |
| 47 | Alternating Copolymerization of CO ₂ and Cyclohexene Oxide Catalyzed by Cobalt-Lanthanide Mixed Multinuclear Complexes. <i>Inorganic Chemistry</i> , 2020, 59, 7928-7933. | 1.9 | 45 |
| 48 | Chemo- and Regioselective Additions of Nucleophiles to Cyclic Carbonates for the Preparation of Self-Blowing Nonisocyanate Polyurethane Foams. <i>Angewandte Chemie</i> , 2020, 132, 17181-17189. | 1.6 | 20 |
| 49 | A Catalytic Domino Approach toward Oxo-Alkyl Carbonates and Polycarbonates from CO ₂ , Propargylic Alcohols, and (Mono- and Di-)Alcohols. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9698-9710. | 3.2 | 21 |
| 50 | Chemo- and Regioselective Additions of Nucleophiles to Cyclic Carbonates for the Preparation of Self-Blowing Nonisocyanate Polyurethane Foams. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17033-17041. | 7.2 | 60 |
| 51 | Synthesis of Bio-Based Cyclic Carbonates Using a Bio-Based Hydrogen Bond Donor: Application of Ascorbic Acid to the Cycloaddition of CO ₂ to Oleochemicals. <i>Asian Journal of Organic Chemistry</i> , 2020, 9, 801-810. | 1.3 | 35 |
| 52 | Monocomponent Non-isocyanate Polyurethane Adhesives Based on a Sol-Gel Process. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1839-1847. | 2.0 | 35 |
| 53 | Terminal Hydrophilicity-Induced Dispersion of Cationic Waterborne Polyurethane from CO ₂ -Based Polyol. <i>Macromolecules</i> , 2020, 53, 6322-6330. | 2.2 | 30 |
| 54 | Light Runs Across Iron Catalysts in Organic Transformations. <i>Chemistry - A European Journal</i> , 2020, 26, 15052-15064. | 1.7 | 47 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 55 | Cross-Linked Networks in Poly(propylene carbonate) by Incorporating (Maleic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 752 Td (Anhydride/ Oxide Copolymerization: Improving and Tailoring Thermal, Mechanical, and Dimensional Properties. ACS Omega, 2020, 5, 17808-17817. | 1.6 | 13 |
| 56 | Organocatalytic Trapping of Elusive Carbon Dioxide Based Heterocycles by a Kinetically Controlled Cascade Process. Angewandte Chemie - International Edition, 2020, 59, 18446-18451. | 7.2 | 26 |
| 57 | Synthesis and polymerisation of Î±-alkylidene cyclic carbonates from carbon dioxide, epoxides and the primary propargylic alcohol 1,4-butyndiol. Green Chemistry, 2020, 22, 1553-1558. | 4.6 | 32 |
| 58 | Carboxylative cyclization of propargylic alcohols with carbon dioxide: A facile and Green route to Î±-methylene cyclic carbonates. Journal of CO2 Utilization, 2020, 38, 220-231. | 3.3 | 52 |
| 59 | Oxidative carboxylation of olefins with CO ₂ : environmentally benign access to five-membered cyclic carbonates. RSC Advances, 2020, 10, 9103-9115. | 1.7 | 27 |
| 60 | Catalytic transformation of CO ₂ into C1 chemicals using hydrosilanes as a reducing agent. Green Chemistry, 2020, 22, 1800-1820. | 4.6 | 111 |
| 61 | A Thermomorphic Polyethyleneâ€”Supported Imidazolium Salt for the Fixation of CO ₂ into Cyclic Carbonates. Advanced Synthesis and Catalysis, 2020, 362, 1696-1705. | 2.1 | 15 |
| 62 | The coupling of CO2 with diols promoted by organic dual systems: Towards products divergence via benchmarking of the performance metrics. Journal of CO2 Utilization, 2020, 38, 88-98. | 3.3 | 15 |
| 63 | Influence of the Cyclic versus Linear Carbonate Segments in the Properties and Performance of CO ₂ -Sourced Polymer Electrolytes for Lithium Batteries. ACS Applied Polymer Materials, 2020, 2, 922-931. | 2.0 | 36 |
| 64 | Effect of an Al(III) Complex on the Regio- and Stereoisomeric Formation of Bicyclic Organic Carbonates. Organometallics, 2020, 39, 1642-1651. | 1.1 | 25 |
| 65 | Fully bio-derived CO ₂ polymers for non-isocyanate based polyurethane synthesis. Green Chemistry, 2020, 22, 969-978. | 4.6 | 41 |
| 66 | Electrochemical Reactors for CO2 Conversion. Catalysts, 2020, 10, 473. | 1.6 | 72 |
| 67 | Construction of 3D lanthanide based MOFs with pores decorated with basic imidazole groups for selective capture and chemical fixation of CO ₂ . New Journal of Chemistry, 2020, 44, 9090-9096. | 1.4 | 15 |
| 68 | Asymmetric Alternating Copolymerization of CO ₂ with <i>meso</i> -Epoxides: Ring Size Effects of Epoxides on Reactivity, Enantioselectivity, Crystallization, and Degradation. Macromolecules, 2020, 53, 2912-2918. | 2.2 | 23 |
| 69 | Advancing halide-free catalytic synthesis of CO2-based heterocycles. Current Opinion in Green and Sustainable Chemistry, 2020, 24, 72-81. | 3.2 | 28 |
| 70 | C3-symmetric zinc complexes as sustainable catalysts for transforming carbon dioxide into mono- and multi-cyclic carbonates. Applied Catalysis B: Environmental, 2021, 280, 119395. | 10.8 | 39 |
| 71 | Catalytic conversions of CO2 to help mitigate climate change: Recent process developments. Chemical Engineering Research and Design, 2021, 145, 172-194. | 2.7 | 57 |
| 72 | Copolymerization of propylene oxide and ¹³ C ₂ O ₂ to afford completely alternating regioregular ¹³ C-labeled Poly(propylene carbonate). Polymer Journal, 2021, 53, 215-218. | 1.3 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 73 | Water-Borne Isocyanate-Free Polyurethane Hydrogels with Adaptable Functionality and Behavior. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2000482. | 2.0 | 17 |
| 74 | A self-healing and recyclable polyurethane-urea Diels-Alder adduct synthesized from carbon dioxide and furfuryl amine. <i>Green Chemistry</i> , 2021, 23, 552-560. | 4.6 | 76 |
| 75 | Sustainable Catalytic Synthesis of Diethyl Carbonate. <i>ChemSusChem</i> , 2021, 14, 842-846. | 3.6 | 20 |
| 76 | Synergetic Effect of Dopamine and Alkoxysilanes in Sustainable Non-isocyanate Polyurethane Adhesives. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2000538. | 2.0 | 18 |
| 77 | Enhancing surface interactions between humic surfactants and cupric ion: DFT computations coupled with MD simulations study. <i>Journal of Molecular Liquids</i> , 2021, 324, 114781. | 2.3 | 13 |
| 78 | Understanding the CO ₂ valorization to propylene carbonate catalyzed by 1-butyl-3-methylimidazolium amino acid ionic liquids. <i>Journal of Molecular Liquids</i> , 2021, 324, 114782. | 2.3 | 15 |
| 79 | Hydroxylamino-Anchored Poly(Ionic Liquid)s for CO ₂ Fixation into Cyclic Carbonates at Mild Conditions. <i>Advanced Sustainable Systems</i> , 2021, 5, . | 2.7 | 40 |
| 80 | Thermomorphic Polyethylene-Supported Organocatalysts for the Valorization of Vegetable Oils and CO ₂ . <i>Advanced Sustainable Systems</i> , 2021, 5, 2000218. | 2.7 | 11 |
| 81 | Zero-to-one (or more) nanoarchitectonics: how to produce functional materials from zero-dimensional single-element unit, fullerene. <i>Materials Advances</i> , 2021, 2, 582-597. | 2.6 | 30 |
| 82 | Copper-catalysed synthesis of α -alkylidene cyclic carbonates from propargylic alcohols and CO ₂ . <i>Green Chemistry</i> , 2021, 23, 889-897. | 4.6 | 28 |
| 83 | Multicomponent Polymerizations Involving Green Monomers. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2000547. | 2.0 | 12 |
| 84 | Cycloaddition of CO ₂ to epoxides by highly nucleophilic 4-aminopyridines: establishing a relationship between carbon basicity and catalytic performance by experimental and DFT investigations. <i>Organic Chemistry Frontiers</i> , 2021, 8, 613-627. | 2.3 | 50 |
| 85 | Catalyst-free fixation of carbon dioxide into value-added chemicals: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 911-940. | 8.3 | 21 |
| 86 | Towards the development of the emerging process of CO ₂ heterogenous hydrogenation into high-value unsaturated heavy hydrocarbons. <i>Chemical Society Reviews</i> , 2021, 50, 10764-10805. | 18.7 | 161 |
| 87 | A mathematical analysis of carbon fixing materials that grow, reinforce, and self-heal from atmospheric carbon dioxide. <i>Green Chemistry</i> , 2021, 23, 5556-5570. | 4.6 | 2 |
| 88 | Conversion of carbon dioxide to valuable compounds. , 2021, , 307-352. | | 0 |
| 89 | Synthesis of α -alkylidene cyclic carbonates via CO ₂ fixation under ambient conditions promoted by an easily available silver carbamate. <i>New Journal of Chemistry</i> , 2021, 45, 4340-4346. | 1.4 | 15 |
| 90 | Simultaneous Presence of Open Metal Sites and Amine Groups on a 3D Dy(III)-Metal-Organic Framework Catalyst for Mild and Solvent-Free Conversion of CO ₂ to Cyclic Carbonates. <i>Inorganic Chemistry</i> , 2021, 60, 2056-2067. | 1.9 | 105 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | Co ^{II} polymerization of propylene oxide and CO ₂ using early transition metal (groups IV and V) metallocalix[n]arenes (n = 4, 6, 8). Journal of Applied Polymer Science, 2021, 138, 50513. | 1.3 | 4 |
| 92 | Introduction to the Organometallic Chemistry of Carbon Dioxide. , 2021, , . | | 0 |
| 93 | Efficient chemical fixation of CO ₂ from direct air under environment-friendly co-catalyst and solvent-free ambient conditions. Journal of Materials Chemistry A, 2021, 9, 23127-23139. | 5.2 | 51 |
| 94 | Hybridization of MOFs and ionic POFs: a new strategy for the construction of bifunctional catalysts for CO ₂ cycloaddition. Green Chemistry, 2021, 23, 1766-1771. | 4.6 | 26 |
| 95 | Spiers Memorial Lecture: CO ₂ utilization: why, why now, and how?. Faraday Discussions, 2021, 230, 9-29. | 1.6 | 10 |
| 96 | Porous organic polymers as metal free heterogeneous organocatalysts. Green Chemistry, 2021, 23, 7361-7434. | 4.6 | 54 |
| 97 | Renewable carbon feedstock for polymers: environmental benefits from synergistic use of biomass and CO ₂ . Faraday Discussions, 2021, 230, 227-246. | 1.6 | 25 |
| 98 | Formation of α -cyano-ketones through cyanide-promoted ring-opening of cyclic organic carbonates. Organic Chemistry Frontiers, 2021, 8, 4520-4526. | 2.3 | 5 |
| 99 | Access to Biorenewable and CO ₂ -Based Polycarbonates from Exovinylene Cyclic Carbonates. ACS Sustainable Chemistry and Engineering, 2021, 9, 1714-1728. | 3.2 | 22 |
| 100 | Mg(^{II}) heterodinuclear catalysts delivering carbon dioxide derived multi-block polymers. Chemical Science, 2021, 12, 12315-12325. | 3.7 | 27 |
| 101 | Pinwheel-Shaped Tetranuclear Organoboron Catalysts for Perfectly Alternating Copolymerization of CO ₂ and Epichlorohydrin. Journal of the American Chemical Society, 2021, 143, 3455-3465. | 6.6 | 105 |
| 102 | Functional Polyethylenes by Organometallic-Mediated Radical Polymerization of Biobased Carbonates. ACS Macro Letters, 2021, 10, 313-320. | 2.3 | 14 |
| 103 | New Polymers Made from Carbon Dioxide and Alkenes. Bulletin of the Chemical Society of Japan, 2021, 94, 984-988. | 2.0 | 18 |
| 104 | Organocatalytic and Halide-Free Synthesis of Glycerol Carbonate under Continuous Flow. ACS Sustainable Chemistry and Engineering, 2021, 9, 4391-4397. | 3.2 | 29 |
| 105 | Efficient Synthesis of Cyclic Carbonates from Unsaturated Acids and Carbon Dioxide and their Application in the Synthesis of Biobased Polyurethanes. ChemPlusChem, 2021, 86, 460-468. | 1.3 | 11 |
| 106 | Carbon dioxide copolymers: Emerging sustainable materials for versatile applications. SusMat, 2021, 1, 88-104. | 7.8 | 44 |
| 107 | CO ₂ -Involved and Isocyanide-Based Three-Component Polymerization toward Functional Heterocyclic Polymers with Self-Assembly and Sensing Properties. Macromolecules, 2021, 54, 4112-4119. | 2.2 | 9 |
| 108 | A Bespoke Computational Procedure to Incorporate CO ₂ as a Renewable Feedstock into Polycarbonates. ACS Applied Polymer Materials, 2021, 3, 2722-2731. | 2.0 | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 109 | Heterotrimetallic Carbon Dioxide Copolymerization and Switchable Catalysts: Sodium is the Key to High Activity and Unusual Selectivity. <i>Angewandte Chemie</i> , 2021, 133, 13484-13491. | 1.6 | 9 |
| 110 | Expanded Ring NHC Silver Carboxylate Complexes as Efficient and Reusable Catalysts for the Carboxylative Cyclization of Unsubstituted Propargylic Derivatives. <i>ChemSusChem</i> , 2021, 14, 2367-2374. | 3.6 | 19 |
| 111 | Nickel-Catalyzed Asymmetric Reductive Carbo-Carboxylation of Alkenes with CO ₂ . <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14068-14075. | 7.2 | 77 |
| 112 | Heterotrimetallic Carbon Dioxide Copolymerization and Switchable Catalysts: Sodium is the Key to High Activity and Unusual Selectivity. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13372-13379. | 7.2 | 49 |
| 113 | Synthesis of CO ₂ -based functional poly(carbonate-co-lactide). <i>Journal of Polymer Science</i> , 2021, 59, 1528-1539. | 2.0 | 1 |
| 114 | Heteroscorpionate Rare-Earth Catalysts for the Low-Pressure Coupling Reaction of CO ₂ and Cyclohexene Oxide. <i>Organometallics</i> , 2021, 40, 1503-1514. | 1.1 | 11 |
| 115 | Nickel-Catalyzed Asymmetric Reductive Carbo-Carboxylation of Alkenes with CO ₂ . <i>Angewandte Chemie</i> , 2021, 133, 14187-14194. | 1.6 | 11 |
| 116 | Visible-light-driven external-photocatalyst-free alkylative carboxylation of alkenes with CO ₂ . <i>Science China Chemistry</i> , 2021, 64, 1164-1169. | 4.2 | 20 |
| 117 | Chemoselective Polymerizations. <i>Progress in Polymer Science</i> , 2021, 117, 101397. | 11.8 | 16 |
| 118 | Visible-light photoredox-catalyzed umpolung carboxylation of carbonyl compounds with CO ₂ . <i>Nature Communications</i> , 2021, 12, 3306. | 5.8 | 37 |
| 119 | Chemical Synthesis of CO ₂ -Based Polymers with Enhanced Thermal Stability and Unexpected Recyclability from Biosourced Monomers. <i>ACS Catalysis</i> , 2021, 11, 8349-8357. | 5.5 | 50 |
| 120 | Net Zero and Catalysis: How Neutrons Can Help. <i>Physchem</i> , 2021, 1, 95-120. | 0.5 | 3 |
| 121 | Bibliographic mapping of post-consumer plastic waste based on hierarchical circular principles across the system perspective. <i>Heliyon</i> , 2021, 7, e07154. | 1.4 | 9 |
| 122 | Sequence Control from Mixtures: Switchable Polymerization Catalysis and Future Materials Applications. <i>Journal of the American Chemical Society</i> , 2021, 143, 10021-10040. | 6.6 | 124 |
| 123 | Improving the thermal stability of poly(cyclohexylene carbonate) by in situ end-capping. <i>Polymer Bulletin</i> , 2022, 79, 6073-6086. | 1.7 | 3 |
| 124 | Organocatalytic Cascade Synthesis of Peroxy-Substituted Cyclic Carbonates from CO ₂ -Sourced <i>Alkylidene Cyclic Carbonates and Hydroperoxides</i> . <i>Asian Journal of Organic Chemistry</i> , 2022, 11, . | 1.3 | 4 |
| 125 | All-Polycarbonate Graft Copolymers with Tunable Morphologies by Metal-Free Copolymerization of CO ₂ with Epoxides. <i>Macromolecules</i> , 2021, 54, 6144-6152. | 2.2 | 21 |
| 126 | Alternating copolymerization of CO ₂ and cyclohexene oxide initiated by rare-earth metal complexes stabilized by <i>o</i> -phenylenediamine-bridged tris(phenolate) ligand. <i>Journal of Rare Earths</i> , 2021, , . | 2.5 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 127 | Poly(hydroxyurethane) Adhesives and Coatings: State-of-the-Art and Future Directions. ACS Sustainable Chemistry and Engineering, 2021, 9, 9541-9562. | 3.2 | 60 |
| 128 | Self-foaming polymers: Opportunities for the next generation of personal protective equipment. Materials Science and Engineering Reports, 2021, 145, 100628. | 14.8 | 42 |
| 129 | Photocatalytic Synthesis of Substituted Cyclic Carbonate Monomers for Ring-Opening Polymerization. Advanced Synthesis and Catalysis, 2021, 363, 4033-4040. | 2.1 | 9 |
| 130 | Theoretical investigation on conversion of CO ₂ with epoxides to cyclic carbonates by bifunctional metal-salen complexes bearing ionic liquid substituents. Molecular Catalysis, 2021, 511, 111733. | 1.0 | 5 |
| 131 | Nickel Nanoparticles Encapsulated in SSZ-13 Cage for Highly Efficient CO ₂ Hydrogenation. Energy & Fuels, 2021, 35, 13240-13248. | 2.5 | 19 |
| 132 | Terpolymerization of CO ₂ with Epoxides and Cyclic Organic Anhydrides or Cyclic Esters. Catalysts, 2021, 11, 961. | 1.6 | 12 |
| 133 | Ru complex and N, P-containing polymers confined within mesoporous hollow carbon spheres for hydrogenation of CO ₂ to formate. Nano Research, 2023, 16, 4515-4523. | 5.8 | 8 |
| 134 | Transesterification of dimethyl carbonate with glycerol by perovskite-based mixed metal oxide nanoparticles for the atom-efficient production of glycerol carbonate. Journal of Industrial and Engineering Chemistry, 2021, 104, 43-60. | 2.9 | 25 |
| 135 | Organocatalytic Synthesis of Substituted Vinylene Carbonates. Advanced Synthesis and Catalysis, 2021, 363, 5129-5137. | 2.1 | 5 |
| 136 | Bioinspired synthesis and green ecological applications of reduced graphene oxide based ternary nanocomposites. Sustainable Materials and Technologies, 2021, 29, e00315. | 1.7 | 5 |
| 137 | Construction of Self-Reporting Biodegradable CO ₂ -Based Polycarbonates for the Visualization of Thermoresponsive Behavior with Aggregation-Induced Emission Technology. Chinese Journal of Chemistry, 2021, 39, 3037. | 2.6 | 4 |
| 138 | The Food-Materials Nexus: Next Generation Bioplastics and Advanced Materials from Agri-Food Residues. Advanced Materials, 2021, 33, e2102520. | 11.1 | 50 |
| 139 | CO ₂ Ionized Poly(vinyl alcohol) Electrolyte for CO ₂ -Tolerant Zn-Air Batteries. Advanced Energy Materials, 2021, 11, 2102047. | 10.2 | 32 |
| 140 | The transformation of plastics production from net positive greenhouse gas emissions to net negative: An environmental sustainability assessment of CO ₂ -based polypropylene. Journal of CO ₂ Utilization, 2021, 52, 101672. | 3.3 | 11 |
| 141 | Rational engineering of single-component heterogeneous catalysts based on abundant metal centers for the mild conversion of pure and impure CO ₂ to cyclic carbonates. Chemical Engineering Journal, 2021, 422, 129930. | 6.6 | 51 |
| 142 | Al(III) phthalocyanine catalysts for CO ₂ addition to epoxides: Fine-tunable selectivity for cyclic carbonates versus polycarbonates. Journal of Organometallic Chemistry, 2021, 950, 121979. | 0.8 | 4 |
| 143 | Screening of CO ₂ utilization routes from process simulation: Design, optimization, environmental and techno-economic analysis. Journal of CO ₂ Utilization, 2021, 53, 101722. | 3.3 | 22 |
| 144 | Ionic liquid [DBUH][BO ₂]: an excellent catalyst for chemical fixation of CO ₂ under mild conditions. New Journal of Chemistry, 2021, 45, 4611-4616. | 1.4 | 6 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | Catalytic Technologies for the Conversion and Reuse of CO ₂ . , 2021, , 1-50. | | 0 |
| 146 | Carbon dioxide-promoted palladium-catalyzed dehydration of primary allylic alcohols: access to substituted 1,3-dienes. <i>Organic Chemistry Frontiers</i> , 2021, 8, 941-946. | 2.3 | 11 |
| 147 | Recent progress in the catalytic transformation of carbon dioxide into biosourced organic carbonates. <i>Green Chemistry</i> , 2021, 23, 1077-1113. | 4.6 | 150 |
| 148 | Propylene Oxide Cycloaddition with Carbon Dioxide and Homopolymerization: Application of Commercial Beta Zeolites. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 1210-1218. | 1.8 | 13 |
| 149 | Direct synthesis of polycarbonate diols from atmospheric flow CO ₂ and diols without using dehydrating agents. <i>Green Chemistry</i> , 2021, 23, 5786-5796. | 4.6 | 21 |
| 150 | A Lewis Pair as Organocatalyst for One-Pot Synthesis of Block Copolymers from a Mixture of Epoxide, Anhydride, and CO ₂ . <i>Macromolecules</i> , 2021, 54, 763-772. | 2.2 | 61 |
| 151 | A Strained Ion Pair Permits Carbon Dioxide Fixation at Atmospheric Pressure by C-H H-Bonding Organocatalysis. <i>Journal of Organic Chemistry</i> , 2021, 86, 3422-3432. | 1.7 | 22 |
| 152 | Nanoparticles of aromatic biopolymers catalyze CO ₂ cycloaddition to epoxides under atmospheric conditions. <i>Sustainable Energy and Fuels</i> , 2021, 5, 5431-5444. | 2.5 | 19 |
| 153 | A Novel [OSSO]-Type Chromium(III) Complex as a Versatile Catalyst for Copolymerization of Carbon Dioxide with Epoxides. <i>Chemistry - A European Journal</i> , 2020, 26, 5347-5353. | 1.7 | 16 |
| 154 | A non-metal Acen-H catalyst for the chemical fixation of CO ₂ into cyclic carbonates under solvent- and halide-free mild reaction conditions. <i>Applied Catalysis A: General</i> , 2020, 601, 117646. | 2.2 | 26 |
| 155 | Bimetallic Zinc Catalysts for Ring-Opening Copolymerization Processes. <i>Inorganic Chemistry</i> , 2020, 59, 8412-8423. | 1.9 | 21 |
| 156 | Ti(IV)-Tris(phenolate) Catalyst Systems for the Ring-Opening Copolymerization of Cyclohexene Oxide and Carbon Dioxide. <i>Organometallics</i> , 2020, 39, 1619-1627. | 1.1 | 19 |
| 157 | Numerical study on the reaction mechanism of CO ₂ hydrogenation in atmospheric-pressure dielectric barrier discharge. <i>Journal of Applied Physics</i> , 2020, 128, . | 1.1 | 6 |
| 158 | Emerging Ionic Polymers for CO ₂ . <i>Australian Journal of Chemistry</i> , 2021, 74, 767-777. | 0.5 | 11 |
| 159 | One-Pot, Room-Temperature Conversion of CO ₂ into Porous Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2021, 143, 16750-16757. | 6.6 | 14 |
| 160 | Degradable Polymer Structures from Carbon Dioxide and Butadiene. <i>ACS Macro Letters</i> , 2021, 10, 1254-1259. | 2.3 | 20 |
| 161 | Plasma assisted CO ₂ splitting to carbon and oxygen: A concept review analysis. <i>Journal of CO₂ Utilization</i> , 2021, 54, 101775. | 3.3 | 13 |
| 162 | An unusual amphiphilic brush polymer containing oligo(carbon dioxide) side chains. <i>Materials Today Communications</i> , 2021, 29, 102867. | 0.9 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 163 | Plastics and Sustainability. , 2021, , 489-504. | | 1 |
| 164 | Accessing Divergent Main-Chain-Functionalized Polyethylenes via Copolymerization of Ethylene with a CO ₂ /Butadiene-Derived Lactone. Journal of the American Chemical Society, 2021, 143, 17953-17957. | 6.6 | 23 |
| 165 | Synthesis of Diverse Polycarbonates by Organocatalytic Copolymerization of CO ₂ and Epoxides: From High Pressure and Temperature to Ambient Conditions. Angewandte Chemie, 0, , . | 1.6 | 6 |
| 166 | Synthesis of Diverse Polycarbonates by Organocatalytic Copolymerization of CO ₂ and Epoxides: From High Pressure and Temperature to Ambient Conditions. Angewandte Chemie - International Edition, 2022, 61, . | 7.2 | 39 |
| 167 | Light-induced synthesis of unsymmetrical organic carbonates from alcohols, methanol and CO ₂ under ambient conditions. Chemical Communications, 2021, 57, 12800-12803. | 2.2 | 1 |
| 168 | Properties of poly(methacrylate)s bearing hydroxyurethane structures synthesized by various amines with poly(methacrylate)s containing five-membered cyclic carbonates obtained from poly(glycidyl) Tj ETQq1 1 0.784314 rgBT4/Overlo | | |
| 169 | State-Of-The-Art Overview of CO ₂ Conversions. Advances in Science, Technology and Innovation, 2022, , 335-353. | 0.2 | 1 |
| 170 | Facile Access to Functionalized Poly(thioether)s via Anionic Ring-Opening Decarboxylative Polymerization of COS-Sourced \pm -Alkyldiene Cyclic Thiocarbonates. Macromolecules, 2021, 54, 10395-10404. | 2.2 | 5 |
| 171 | Facile synthesis, structure and properties of CO ₂ -sourced poly(thioether-co-carbonate)s containing acetyl pendants via thio-ene click polymerization. Polymer Chemistry, 2022, 13, 201-208. | 1.9 | 4 |
| 172 | Syntheses, properties, and applications of CO ₂ -based functional polymers. Cell Reports Physical Science, 2022, 3, 100719. | 2.8 | 39 |
| 173 | Simple Approach to Macrocyclic Carbonates with Fast Polymerization Rates and Their Polymer-to-Monomer Regeneration. Macromolecules, 2022, 55, 608-614. | 2.2 | 28 |
| 174 | A self-healing and recyclable poly(urea-imine) thermoset synthesized from CO ₂ . Green Chemistry, 2022, 24, 1561-1569. | 4.6 | 21 |
| 175 | Anionic ring-opening polymerization behavior of <i>trans</i> -cyclohexene carbonate using metal <i>tert</i> -butoxides: Construction of living anionic ring-opening polymerization by lithium <i>tert</i> -butoxide. Journal of Polymer Science, 2022, 60, 1416-1421. | 2.0 | 4 |
| 176 | Enhancing the Catalytic Performance of Group I, II Metal Halides in the Cycloaddition of CO ₂ to Epoxides under Atmospheric Conditions by Cooperation with Homogeneous and Heterogeneous Highly Nucleophilic Aminopyridines: Experimental and Theoretical Study. Journal of Organic Chemistry, 2022, 87, 2873-2886. | 1.7 | 25 |
| 177 | Polyamine-functionalized imidazolyl poly(ionic liquid)s for the efficient conversion of CO ₂ into cyclic carbonates. Catalysis Science and Technology, 2022, 12, 273-281. | 2.1 | 17 |
| 178 | A Zn(II)-functionalized COF as a recyclable catalyst for the sustainable synthesis of cyclic carbonates and cyclic carbamates from atmospheric CO ₂ . Organic and Biomolecular Chemistry, 2022, 20, 1707-1722. | 1.5 | 18 |
| 179 | Bioplastics for a circular economy. Nature Reviews Materials, 2022, 7, 117-137. | 23.3 | 550 |
| 181 | Spontaneous self-healing ionogels for efficient and reliable carbon dioxide separation. Journal of Materials Chemistry A, 2022, 10, 4695-4702. | 5.2 | 12 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 182 | Valuing CO ₂ in the development of polymer materials. , 2022, 77, 1. | | 4 |
| 183 | Trends in dark biohydrogen production strategy and linkages with transition towards low carbon economy: An outlook, cost-effectiveness, bottlenecks and future scope. International Journal of Hydrogen Energy, 2022, 47, 15309-15332. | 3.8 | 26 |
| 184 | Divergent Aminolysis Approach for Constructing Recyclable Self-Blown Nonisocyanate Polyurethane Foams. ACS Macro Letters, 2022, 11, 236-242. | 2.3 | 33 |
| 185 | One-Pot Precision Synthesis of AB, ABA and ABC Block Copolymers via Switchable Catalysis. Angewandte Chemie - International Edition, 2022, 61, . | 7.2 | 24 |
| 186 | One-Pot Precision Synthesis of AB, ABA and ABC Block Copolymers via Switchable Catalysis. Angewandte Chemie, 0, , . | 1.6 | 2 |
| 187 | Electrochemical Ring-Opening Dicarboxylation of Strained Carbon-Carbon Single Bonds with CO ₂ : Facile Synthesis of Diacids and Derivatization into Polyesters. Journal of the American Chemical Society, 2022, 144, 2062-2068. | 6.6 | 75 |
| 188 | Hybrid Nonisocyanate Polyurethanes (H-NIPUs): A Pathway towards a Broad Range of Novel Materials. Macromolecular Chemistry and Physics, 2022, 223, . | 1.1 | 17 |
| 189 | Recent Advances in Aluminum Compounds for Catalysis. European Journal of Inorganic Chemistry, 2022, 2022, . | 1.0 | 24 |
| 190 | 2D NMR study on chemical structure of the co-oligomers from carbon dioxide/propylene oxide/diol synthesized by a metal-free catalyst. Polymer Testing, 2022, 107, 107485. | 2.3 | 5 |
| 191 | Cu(II)/Triazine-Based Dendrimer as an Efficacious Recoverable Nano-catalyst for CO ₂ Fixation Under Solvent-Free Conditions. Catalysis Letters, 2022, 152, 3679-3690. | 1.4 | 7 |
| 192 | Green Carbon Science: Efficient Carbon Resource Processing, Utilization, and Recycling towards Carbon Neutrality. Angewandte Chemie, 2022, 134, . | 1.6 | 11 |
| 193 | Green Carbon Science: Efficient Carbon Resource Processing, Utilization, and Recycling towards Carbon Neutrality. Angewandte Chemie - International Edition, 2022, 61, . | 7.2 | 146 |
| 194 | Surface science approach to the heterogeneous cycloaddition of CO ₂ to epoxides catalyzed by site-isolated metal complexes and single atoms: a review. Green Chemical Engineering, 2022, 3, 210-227. | 3.3 | 26 |
| 195 | CO ₂ -sourced anti-freezing hydrogel electrolyte for sustainable Zn-ion batteries. Chemical Engineering Journal, 2022, 435, 135051. | 6.6 | 30 |
| 196 | Facile Aluminum Porphyrin Complexes Enable Flexible Terminal Epoxides to Boost Properties of CO ₂ -Polycarbonate. Macromolecular Chemistry and Physics, 2022, 223, . | 1.1 | 6 |
| 197 | Development of Heterometallic Neodymium-Zinc Complexes for Copolymerization of CO ₂ and Cyclohexene Oxide (CHO): A Structure-Activity Relationship Study. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 198 | Explorations into the sustainable synthesis of cyclic and polymeric carbonates and thiocarbonates from eugenol-derived monomers and their reactions with CO ₂ , COS, or CS ₂ . Green Chemistry, 2022, 24, 2535-2541. | 4.6 | 11 |
| 199 | Aldehyde end-capped CO ₂ -based polycarbonates: a green synthetic platform for site-specific functionalization. Polymer Chemistry, 2022, 13, 1731-1738. | 1.9 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 200 | Different Types of Pre-Treatments for Renewable Bioresources. <i>Green Energy and Technology</i> , 2022, , 45-78. | 0.4 | 0 |
| 201 | Porous organic polymer (POP) nanosheets: an efficient photo-catalyst for visible-light assisted CO ₂ reduction. <i>Materials Advances</i> , 2022, 3, 3165-3173. | 2.6 | 17 |
| 202 | Cascade Transformation of Carbon Dioxide and Alkyne-1, <i>n</i> -diols into Densely Substituted Cyclic Carbonates. <i>ACS Catalysis</i> , 2022, 12, 2854-2860. | 5.5 | 7 |
| 203 | Simple and Efficient Synthesis of Functionalized Cyclic Carbonate Monomers Using Carbon Dioxide. <i>ACS Macro Letters</i> , 2022, 11, 368-375. | 2.3 | 12 |
| 204 | Biomass-Based Polyureas Derived from Rigid Furfurylamine and Isomannide. <i>ACS Applied Polymer Materials</i> , 2022, 4, 2197-2204. | 2.0 | 5 |
| 205 | CO ₂ —A Crisis or Novel Functionalization Opportunity?. <i>Energies</i> , 2022, 15, 1617. | 1.6 | 6 |
| 206 | Halide-free pyridinium saccharinate binary organocatalyst for the cycloaddition of CO ₂ into epoxides. <i>Chemical Engineering Journal</i> , 2022, 444, 135478. | 6.6 | 22 |
| 207 | Carbon dioxide fixation into cyclic carbonates at room temperature catalyzed by heteroscorpionate aluminum complexes. <i>Green Chemical Engineering</i> , 2022, 3, 280-287. | 3.3 | 4 |
| 208 | Direct Synthesis of Vinylene Carbonates from Aromatic Aldehydes**. <i>European Journal of Organic Chemistry</i> , 2022, 2022, . | 1.2 | 3 |
| 209 | Effect of flue gas impurities in carbon dioxide from power plants in the synthesis of isopropyl N-phenylcarbamate from CO ₂ , aniline, and 2-propanol using CeO ₂ and 2-cyanopyridine. <i>Catalysis Today</i> , 2023, 410, 19-35. | 2.2 | 7 |
| 210 | Exovinylene Cyclic Carbonates: Multifaceted CO ₂ -Based Building Blocks for Modern Chemistry and Polymer Science. <i>Angewandte Chemie - International Edition</i> , 2022, 61, . | 7.2 | 39 |
| 211 | Supported PdZn nanoparticles for selective CO ₂ conversion, through the grafting of a heterobimetallic complex on CeZrOx. <i>Applied Catalysis A: General</i> , 2022, 635, 118568. | 2.2 | 4 |
| 212 | Bimetallic zeolitic imidazolate framework derived magnetic catalyst for high-efficiency CO ₂ chemical fixation. <i>Chemical Engineering Science</i> , 2022, 252, 117530. | 1.9 | 12 |
| 213 | Exovinylene Cyclic Carbonates: Multifaceted CO ₂ -Based Building Blocks for Modern Chemistry and Polymer Science. <i>Angewandte Chemie</i> , 2022, 134, . | 1.6 | 4 |
| 214 | Mechanism and Design Principles for Controlling Stereoselectivity in the Copolymerization of CO ₂ /Cyclohexene Oxide by Indium(III) Phosphasalen Catalysts. <i>ACS Catalysis</i> , 2021, 11, 15244-15251. | 5.5 | 7 |
| 215 | Environmentally benign metal catalyst for the ring-opening copolymerization of epoxide and CO ₂ : state-of-the-art, opportunities, and challenges. <i>Green Chemical Engineering</i> , 2022, 3, 111-124. | 3.3 | 14 |
| 216 | Anthracene-triazole-dicarboxylate-Based Zn(II) 2D Metal Organic Frameworks for Efficient Catalytic Carbon Dioxide Fixation into Cyclic Carbonates under Solvent-Free Condition and Theoretical Study for the Reaction Mechanism. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 175-186. | 1.8 | 18 |
| 217 | Indium-Catalyzed CO ₂ /Epoxide Copolymerization: Enhancing Reactivity with a Hemilabile Phosphine Donor. <i>Inorganic Chemistry</i> , 2021, 60, 19304-19314. | 1.9 | 9 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 218 | Self-Healable and Recyclable Biomass-Derived Polyurethane Networks through Carbon Dioxide Immobilization. <i>Polymers</i> , 2021, 13, 4381. | 2.0 | 4 |
| 219 | Design of Bifunctional Zinc(II)-Organic Framework for Efficient Coupling of CO ₂ with Terminal/Internal Epoxides under Mild Conditions. <i>Crystal Growth and Design</i> , 2022, 22, 598-607. | 1.4 | 28 |
| 220 | A Novel Catalytic Route to Polymerizable Bicyclic Cyclic Carbonate Monomers from Carbon Dioxide. <i>Angewandte Chemie</i> , 2022, 134, . | 1.6 | 2 |
| 221 | A Novel Catalytic Route to Polymerizable Bicyclic Cyclic Carbonate Monomers from Carbon Dioxide. <i>Angewandte Chemie - International Edition</i> , 2022, 61, . | 7.2 | 14 |
| 222 | Incorporation of CO ₂ -Derived Bicyclic Lactone into Conventional Vinyl Polymers. <i>Macromolecules</i> , 2022, 55, 3311-3316. | 2.2 | 13 |
| 223 | Facile construction of functional poly(monothiocarbonate) copolymers under mild operating conditions. <i>Polymer Chemistry</i> , 2022, 13, 3076-3090. | 1.9 | 7 |
| 224 | CO ₂ fixation into cyclic carbonates catalyzed by single-site aprotic organocatalysts. <i>Reaction Chemistry and Engineering</i> , 2022, 7, 1807-1817. | 1.9 | 7 |
| 225 | Chemical recycling to monomers: Industrial Bisphenol-A Polycarbonates to novel aliphatic polycarbonate materials. <i>Journal of Polymer Science</i> , 2022, 60, 3256-3268. | 2.0 | 24 |
| 226 | Efficient cycloaddition of CO ₂ and epoxides to cyclic carbonates using salen-based covalent organic framework as a heterogeneous catalyst. <i>Journal of Porous Materials</i> , 2022, 29, 1253-1263. | 1.3 | 7 |
| 227 | Dynamic Metal-Iodide Bonds in a Tetracoordinated Cadmium-Based Metal-Organic Framework Boosting Efficient CO ₂ Cycloaddition under Solvent- and Cocatalyst-Free Conditions. <i>Inorganic Chemistry</i> , 2022, 61, 7484-7496. | 1.9 | 11 |
| 228 | Pyridinylideneaminophosphines as Versatile Organocatalysts for CO ₂ Transformations into Value-Added Chemicals. <i>Asian Journal of Organic Chemistry</i> , 0, , . | 1.3 | 0 |
| 229 | Water as a monomer: synthesis of an aliphatic polyethersulfone from divinyl sulfone and water. <i>Chemical Science</i> , 2022, 13, 6920-6928. | 3.7 | 8 |
| 230 | Next steps for solvent-based CO ₂ capture; integration of capture, conversion, and mineralisation. <i>Chemical Science</i> , 2022, 13, 6445-6456. | 3.7 | 27 |
| 231 | Advances in the Synthesis of Copolymers from Carbon Dioxide, Dienes, and Olefins. <i>Accounts of Chemical Research</i> , 2022, 55, 1524-1532. | 7.6 | 23 |
| 232 | Controllable synthesis of CO ₂ -based poly(carbonate-ether)diols catalyzed by Salen-cobalt complex. <i>Journal of Polymer Science</i> , 0, , . | 2.0 | 1 |
| 233 | Recent advances in fixation of CO ₂ into organic carbamates through multicomponent reaction strategies. <i>Chinese Journal of Catalysis</i> , 2022, 43, 1598-1617. | 6.9 | 35 |
| 234 | The Terpenes Limonene, Pinene(s), and Related Compounds: Advances in Their Utilization for Sustainable Polymers and Materials. <i>Advances in Polymer Science</i> , 2022, , 35-64. | 0.4 | 2 |
| 235 | Catalytic Technologies for the Conversion and Reuse of CO ₂ . , 2022, , 1803-1852. | | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 236 | Closing the Carbon Loop in the Circular Plastics Economy. <i>Macromolecular Rapid Communications</i> , 2022, 43, . | 2.0 | 21 |
| 237 | Construction of Hierarchical Porous Polycyanurate Networks with Cobaltoporphyrin for CO ₂ Adsorption and Efficient Conversion to Cyclic Di- and Tri-Carbonates. <i>Macromolecules</i> , 2022, 55, 4832-4840. | 2.2 | 5 |
| 238 | Unifying Step-Growth Polymerization and On-Demand Cascade Ring-Closure Depolymerization via Polymer Skeletal Editing. <i>Macromolecules</i> , 2022, 55, 4637-4646. | 2.2 | 4 |
| 239 | MOF-Based Chemical Fixation of Carbon Dioxide into Value-Added Fine Chemicals. <i>ACS Symposium Series</i> , 0, , 239-267. | 0.5 | 0 |
| 240 | Thioanhydride/isothiocyanate/epoxide ring-opening terpolymerisation: sequence selective enchainment of monomer mixtures and switchable catalysis. <i>Polymer Chemistry</i> , 2022, 13, 3981-3985. | 1.9 | 8 |
| 241 | Sustainable polymers. <i>Nature Reviews Methods Primers</i> , 2022, 2, . | 11.8 | 78 |
| 242 | Simple Halogen-Free, Biobased Organic Salts Convert Glycidol to Glycerol Carbonate under Atmospheric CO ₂ Pressure. <i>ChemSusChem</i> , 2022, 15, . | 3.6 | 12 |
| 243 | Metal-free terpolymerization of propylene oxide, carbon dioxide, and carbonyl sulfide: A facile route to sulfur-containing polycarbonates with gradient sequences. <i>Journal of Polymer Science</i> , 2022, 60, 3414-3419. | 2.0 | 5 |
| 244 | Drug delivery systems based on renewable polymers: A conceptual short review. <i>Polymers From Renewable Resources</i> , 2022, 13, 44-54. | 0.8 | 5 |
| 245 | Materials from waste plastics for CO ₂ capture and utilisation. <i>Green Chemistry</i> , 2022, 24, 6086-6099. | 4.6 | 27 |
| 246 | Electronic structure analysis of electrochemical CO ₂ reduction by iron-porphyrins reveals basic requirements for design of catalysts bearing non-innocent ligands. <i>Chemical Science</i> , 2022, 13, 10029-10047. | 3.7 | 15 |
| 247 | Photocatalytic carboxylation with CO ₂ . <i>Advances in Catalysis</i> , 2022, , . | 0.1 | 0 |
| 248 | Syntheses of Heterometallic Neodymium-Zinc Complexes and Their Performance in the Copolymerization of CO ₂ and Cyclohexene Oxide. <i>Inorganic Chemistry</i> , 2022, 61, 10373-10382. | 1.9 | 7 |
| 249 | Tunable and recyclable polyesters from CO ₂ and butadiene. <i>Nature Chemistry</i> , 2022, 14, 877-883. | 6.6 | 38 |
| 250 | Synthesis of Bifunctional Phosphonium Salts Bearing Perfluorinated Side Chains and Their Application in the Synthesis of Cyclic Carbonates from Epoxides and CO ₂ . <i>Asian Journal of Organic Chemistry</i> , 2022, 11, . | 1.3 | 3 |
| 251 | A Stereoselective Route to R-(+)-Limonene-Based Non-isocyanate Poly(hydroxyurethanes). <i>Journal of Polymers and the Environment</i> , 2022, 30, 4452-4462. | 2.4 | 3 |
| 252 | Strategic Design of Mg-Centered Porphyrin Metal-Organic Framework for Efficient Visible Light-Promoted Fixation of CO ₂ under Ambient Conditions: Combined Experimental and Theoretical Investigation. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33285-33296. | 4.0 | 39 |
| 253 | Exceptional energy absorption characteristics and compressive resilience of functional carbon foams scalably and sustainably derived from additively manufactured kraft paper. <i>Additive Manufacturing</i> , 2022, 58, 102992. | 1.7 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 254 | Nitrogen-doped mesoporous carbon single crystal-based Ag nanoparticles for boosting mild CO ₂ conversion with terminal alkynes. <i>Journal of Colloid and Interface Science</i> , 2022, 627, 81-89. | 5.0 | 2 |
| 255 | Microscopic principles of chemical engineering after fossil fuels. , 2022, 1, 222-229. | | 1 |
| 256 | The Divergent Reactivity of Lactones Derived from Butadiene and Carbon Dioxide in Macromolecular Synthesis. <i>Macromolecular Rapid Communications</i> , 2023, 44, . | 2.0 | 6 |
| 257 | Direct and Selective Electrocarboxylation of Styrene Oxides with CO ₂ for Accessing <i>Hydroxy Acids</i> . <i>Angewandte Chemie</i> , 2022, 134, . | 1.6 | 4 |
| 258 | New Dinuclear Chromium Complexes Supported by Thioether-Triphenolate Ligands as Active Catalysts for the Cycloaddition of CO ₂ to Epoxides. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 0 |
| 259 | Organic base-mediated fixation of CO ₂ into value-added chemicals. , 2022, , 93-127. | | 0 |
| 260 | 3-Ethyl-6-vinyltetrahydro-2 <i>H</i> -pyran-2-one (EVP): a versatile CO ₂ -derived lactone platform for polymer synthesis. <i>Chemical Communications</i> , 2022, 58, 9586-9593. | 2.2 | 7 |
| 261 | A practical concept for catalytic carbonylations using carbon dioxide. <i>Nature Communications</i> , 2022, 13, . | 5.8 | 24 |
| 262 | Direct and Selective Electrocarboxylation of Styrene Oxides with CO ₂ for Accessing <i>Hydroxy Acids</i> . <i>Angewandte Chemie - International Edition</i> , 2022, 61, . | 7.2 | 32 |
| 263 | Toward Sustainable Photoelectrocatalytic Carboxylation of Organic Substrates with CO ₂ . <i>Asian Journal of Organic Chemistry</i> , 2022, 11, . | 1.3 | 12 |
| 264 | A Review on CO ₂ -Based Polyureas and Polyurea Hybrids. <i>Asian Journal of Organic Chemistry</i> , 2022, 11, . | 1.3 | 4 |
| 265 | Sequence-Controlled Polyhydroxyurethanes with Tunable Regioregularity Obtained from Sugar-Based Vicinal Bis-cyclic Carbonates. <i>Macromolecules</i> , 2022, 55, 7249-7264. | 2.2 | 8 |
| 266 | CO ₂ capture and conversion to di-functional cyclic carbonates in metalloporphyrin-based porous polyaminals with large surface area. <i>Microporous and Mesoporous Materials</i> , 2022, 343, 112119. | 2.2 | 4 |
| 267 | Bis-benzimidazolium salts as bifunctional organocatalysts for the cycloaddition of CO ₂ with epoxides. <i>Molecular Catalysis</i> , 2022, 530, 112632. | 1.0 | 7 |
| 268 | Direct CO ₂ Transformation to Aliphatic Polycarbonates. <i>Asian Journal of Organic Chemistry</i> , 2022, 11, . | 1.3 | 13 |
| 269 | The tandem reaction of propargylamine/propargyl alcohol with CO ₂ : Reaction mechanism, catalyst activity and product diversity. <i>Journal of CO₂ Utilization</i> , 2022, 65, 102192. | 3.3 | 4 |
| 270 | Understanding the effect of the divalent cations (Ni, Cu, and Zn) exchanged FAU zeolite on the kinetic of CO ₂ cycloaddition with ethylene oxide: A DFT study. <i>Journal of Molecular Graphics and Modelling</i> , 2022, 117, 108321. | 1.3 | 4 |
| 271 | Untangling the effect of solids content on thermal-alkali pre-treatment and anaerobic digestion of sludge. <i>Science of the Total Environment</i> , 2023, 855, 158720. | 3.9 | 6 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 272 | Plant oil-based non-isocyanate waterborne poly(hydroxyl urethane)s. <i>Chemical Engineering Journal</i> , 2023, 452, 138965. | 6.6 | 13 |
| 273 | Advances in carbon dioxide and propylene oxide copolymerization to form poly(propylene carbonate) over heterogeneous catalysts. <i>Results in Chemistry</i> , 2022, 4, 100542. | 0.9 | 4 |
| 274 | Recent Advances in Monomer Design for Recyclable Polymers. <i>Acta Chimica Sinica</i> , 2022, 80, 1165. | 0.5 | 10 |
| 275 | Intramolecular Ternary Active Sites of Imidazole Ionic-Liquid Polymer Immobilized on Magnetic Nanoparticles for Synergistic Catalysis of CO ₂ Cycloaddition. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 0 |
| 276 | Catalytic synthesis of bio-sourced organic carbonates and sustainable hybrid materials from CO ₂ . <i>Advances in Catalysis</i> , 2022, , 189-236. | 0.1 | 0 |
| 277 | Perfluoroaryl Zinc Catalysts Active in Cyclohexene Oxide Homopolymerization and Alternating Copolymerization with Carbon Dioxide. <i>Catalysts</i> , 2022, 12, 970. | 1.6 | 2 |
| 278 | Plastics from Carbon Dioxide: Synthesis, Properties, and End-of-Life Considerations for Epoxide Copolymers. <i>ACS Symposium Series</i> , 0, , 469-506. | 0.5 | 0 |
| 279 | A Topology-Defined Polyester Elastomer from CO ₂ and 1,3-Butadiene: A One-Pot One-Step α -Scrambling Polymerizations Strategy. <i>Angewandte Chemie</i> , 0, , . | 1.6 | 1 |
| 280 | A Topology-Defined Polyester Elastomer from CO ₂ and 1,3-Butadiene: A One-Pot One-Step α -Scrambling Polymerizations Strategy. <i>Angewandte Chemie - International Edition</i> , 2022, 61, , . | 7.2 | 8 |
| 281 | Visible-light photocatalytic di- and hydro-carboxylation of unactivated alkenes with CO ₂ . <i>Nature Catalysis</i> , 2022, 5, 832-838. | 16.1 | 71 |
| 282 | Highly Selective Preparation and Depolymerization of Chemically Recyclable Poly(cyclopentene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 34 | 1.6 | 2 |
| 283 | Thermal and UV Curable Formulations of Poly(propylene glycol)-Poly(hydroxyurethane) Elastomers toward Nozzle-Based 3D Photoprinting. <i>Biomacromolecules</i> , 2023, 24, 4375-4384. | 2.6 | 5 |
| 284 | Highly Selective Preparation and Depolymerization of Chemically Recyclable Poly(cyclopentene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 26 | 7.2 | 25 |
| 285 | Surface activated zinc-glutarate for the copolymerization of CO ₂ and epoxides. <i>Dalton Transactions</i> , 2022, 51, 16620-16627. | 1.6 | 5 |
| 286 | Challenges and recent advancements in the transformation of CO ₂ into carboxylic acids: straightforward assembly with homogeneous 3d metals. <i>Chemical Society Reviews</i> , 2022, 51, 9371-9423. | 18.7 | 38 |
| 287 | A sustainability strategy: Convert methanol into valuable chemicals via multi-enzyme cascades. <i>Chem Catalysis</i> , 2022, 2, 2411-2413. | 2.9 | 1 |
| 288 | Selective CO ₂ /CH ₄ Separation by Fixed-Bed Technology Using Encapsulated Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 13917-13926. | 3.2 | 5 |
| 289 | Chain Transfer Approach for Terminal Functionalization of Alternating Copolymerization of CO ₂ and Epoxide by Using Active Methylene Compounds as Chain Transfer Agents. <i>Macromolecules</i> , 2022, 55, 9066-9073. | 2.2 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 290 | Water-Induced Self-Blown Non-Isocyanate Polyurethane Foams. <i>Angewandte Chemie - International Edition</i> , 2022, 61, . | 7.2 | 28 |
| 291 | Water-Induced Self-Blown Non-Isocyanate Polyurethane Foams. <i>Angewandte Chemie</i> , 2022, 134, . | 1.6 | 2 |
| 292 | New dinuclear chromium complexes supported by thioether-triphenolate ligands as active catalysts for the cycloaddition of CO ₂ to epoxides. <i>Journal of CO₂ Utilization</i> , 2022, 66, 102276. | 3.3 | 4 |
| 293 | Functional regioregular (poly)urethanes from soft nucleophiles and cyclic iminocarbonates. <i>Polymer Chemistry</i> , 2022, 13, 6599-6605. | 1.9 | 1 |
| 294 | Triazole Appended Metal-Organic Framework for CO ₂ Fixation as Cyclic Carbonates Under Solvent-Free Ambient Conditions. <i>Catalysis Letters</i> , 2023, 153, 2883-2891. | 1.4 | 2 |
| 295 | Advancements and Challenges in Reductive Conversion of Carbon Dioxide via Thermo-/Photocatalysis. <i>Journal of Organic Chemistry</i> , 2023, 88, 4942-4964. | 1.7 | 16 |
| 296 | Rational design of AIE-active biodegradable polycarbonates for high-performance WLED and selective detection of nitroaromatic explosives. <i>Chinese Chemical Letters</i> , 2023, 34, 108008. | 4.8 | 1 |
| 297 | Photoredox-catalyzed coupling of aryl sulfonium salts with CO ₂ and amines to access <i>ortho</i> -aryl carbamates. <i>Chemical Communications</i> , 2023, 59, 764-767. | 2.2 | 6 |
| 298 | Mononuclear Zn(II) compounds supported by iminophenolate proligands binding in the bidentate (N, O) and tridentate (N, O, S) coordination mode: synthesis, characterization and polymerization studies. <i>New Journal of Chemistry</i> , 2023, 47, 635-652. | 1.4 | 2 |
| 299 | Homogeneous CO ₂ Copolymerization and Coupling. <i>RSC Green Chemistry</i> , 2022, , 128-149. | 0.0 | 0 |
| 300 | Cooperativity in Shape-Persistent Bis-(Zn-salphen) Catalysts for Efficient Cyclic Carbonate Synthesis under Mild Conditions. <i>Inorganic Chemistry</i> , 2022, 61, 19543-19551. | 1.9 | 2 |
| 301 | Mechanically Robust and Chemically Recyclable Polyhydroxyurethanes from CO ₂ -Derived Six-Membered Cyclic Carbonates. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 2246-2255. | 4.0 | 11 |
| 302 | Mechanism Insights into the Iridium(III)- and B(C ₆ F ₅) ₃ -Catalyzed Reduction of CO ₂ to the Formaldehyde Level with Tertiary Silanes. <i>Inorganic Chemistry</i> , 2022, 61, 20216-20221. | 1.9 | 6 |
| 303 | Development of CO ₂ -philic Blended Membranes Using PIM-PI and PIM-PEG/PPG. <i>Macromolecular Materials and Engineering</i> , 2023, 308, . | 1.7 | 2 |
| 304 | Carbon neutral via catalytic transformation of CO ₂ into cyclic carbonates by an imidazolium-based ionic zeolitic imidazolate frameworks. <i>Applied Surface Science</i> , 2023, 614, 156250. | 3.1 | 7 |
| 305 | Synthesis of Heterometallic Rare Earth(III)-Cobalt(II) Complexes and Their Application in Alternating Copolymerization of Cyclohexene Oxide and Carbon Dioxide. <i>Chinese Journal of Chemistry</i> , 2023, 41, 805-813. | 2.6 | 3 |
| 306 | Improved Characterization of Polyoxazolidinones by Incorporating Solubilizing Side Chains. <i>Macromolecules</i> , 2022, 55, 11006-11012. | 2.2 | 4 |
| 307 | Cycloaddition of CO ₂ to Epichlorohydrin over Pyridine, Vinylpyridine, and Poly(vinylpyridine): The Influence of Steric Crowding on the Reaction Mechanism. <i>Journal of Physical Chemistry C</i> , 2023, 127, 1441-1454. | 1.5 | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 308 | Recyclable, Fire-Resistant, Superstrong, and Reversible Ionic Polyurea-Based Adhesives. <i>Chemistry of Materials</i> , 2023, 35, 1218-1228. | 3.2 | 15 |
| 309 | Synthesis and characterization of siloxane functionalized CO ₂ -based polycarbonate. <i>Polymer</i> , 2023, 266, 125623. | 1.8 | 3 |
| 310 | CO ₂ Fixation by Dimeric Tb(III) Complexes: Synthesis, Structure, and Magnetism. <i>Crystal Growth and Design</i> , 0, , . | 1.4 | 0 |
| 311 | Advances in the Synthesis of Chemically Recyclable Polymers. <i>Chemistry - an Asian Journal</i> , 2023, 18, . | 1.7 | 8 |
| 312 | Epoxy-free synthesis of aromatic dicyclocarbonates and the related strong epoxy hybrid non-isocyanate polyurethanes. <i>Materials Today Communications</i> , 2023, 34, 105263. | 0.9 | 4 |
| 313 | Zr _{0.1} (Fe Ce) as highly efficient catalyst for direct synthesis of diethyl carbonate from ethanol with fermentation tail gas as CO ₂ raw material. <i>Fuel Processing Technology</i> , 2023, 242, 107632. | 3.7 | 3 |
| 314 | Pakistan toward Achieving Net-Zero Emissions: Policy and Roadmap. <i>ACS Sustainable Chemistry and Engineering</i> , 2023, 11, 368-380. | 3.2 | 4 |
| 315 | Spontaneous Reduction by One Electron on Water Microdroplets Facilitates Direct Carboxylation with CO ₂ . <i>Journal of the American Chemical Society</i> , 2023, 145, 2647-2652. | 6.6 | 28 |
| 316 | Organocatalytic Polymers from Affordable and Readily Available Building Blocks for the Cycloaddition of CO ₂ to Epoxides. <i>Journal of Organic Chemistry</i> , 2023, 88, 4894-4924. | 1.7 | 9 |
| 317 | CO ₂ -based amphiphilic block copolymers: Facile one-step synthesis and aqueous self-assembly. <i>Journal of Polymer Science</i> , 2023, 61, 777-786. | 2.0 | 1 |
| 318 | Insight into the Varying Reactivity of Different Catalysts for CO ₂ Cycloaddition into Styrene Oxide: An Experimental and DFT Study. <i>International Journal of Molecular Sciences</i> , 2023, 24, 2123. | 1.8 | 1 |
| 319 | The promise of N-heterocyclic carbenes to capture and valorize carbon dioxide.. , 2023, 2, 100018. | | 1 |
| 320 | Electroreductive Dicarboxylation of Unactivated Skipped Dienes with CO ₂ . <i>Angewandte Chemie - International Edition</i> , 2023, 62, . | 7.2 | 10 |
| 321 | Carbamoyl manganese complexes for epoxidation of alkenes and cycloaddition of epoxides to carbon dioxide. <i>Journal of Catalysis</i> , 2023, 421, 45-54. | 3.1 | 4 |
| 322 | Roadmap to the sustainable synthesis of polymers: From the perspective of CO ₂ upcycling. <i>Progress in Materials Science</i> , 2023, 135, 101103. | 16.0 | 5 |
| 323 | Reducing the carbon footprint of polyurethanes by chemical and biological depolymerization: Fact or fiction?. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2023, 41, 100802. | 3.2 | 8 |
| 324 | Intramolecular synergistic catalysis of ternary active sites of imidazole ionic-liquid polymers immobilized on nanosized CoFe ₂ O ₄ @polystyrene composites for CO ₂ cycloaddition. <i>Separation and Purification Technology</i> , 2023, 315, 123758. | 3.9 | 5 |
| 325 | Ring-opening copolymerization of CO ₂ with epoxides catalyzed by binary catalysts containing half salen aluminum compounds and quaternary phosphonium salt. <i>Molecular Catalysis</i> , 2023, 540, 113053. | 1.0 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 326 | Exploring the potential of nanosized oxides of zinc and tin as recyclable catalytic components for the synthesis of cyclic organic carbonates under atmospheric CO ₂ pressure. <i>Chemical Engineering Research and Design</i> , 2023, 191, 630-645. | 2.7 | 7 |
| 327 | LDH as a heterogeneous bifunctional catalyst for the conversion of CO ₂ into cyclic organic carbonates. <i>Molecular Catalysis</i> , 2023, 538, 112994. | 1.0 | 1 |
| 328 | Visible Light-Induced Synthesis of 2-Oxazolidinones through One-Pot Coupling of Benzylamines, Epoxides and CO ₂ . <i>European Journal of Organic Chemistry</i> , 2023, 26, . | 1.2 | 0 |
| 329 | Synthesis and characterization of original fluorinated bis-cyclic carbonates and xanthates from a fluorinated epoxide. <i>Comptes Rendus Chimie</i> , 2023, 26, 19-28. | 0.2 | 0 |
| 330 | The advent of recyclable CO ₂ -based polycarbonates. <i>Polymer Chemistry</i> , 2023, 14, 1164-1183. | 1.9 | 6 |
| 331 | Original Fluorinated Non-Isocyanate Polyhydroxyurethanes. <i>Molecules</i> , 2023, 28, 1795. | 1.7 | 2 |
| 332 | Construction and arm evolution of trifunctional phenolic initiator-mediated polycarbonate polyols produced by using a double metal cyanide catalyst. <i>Polymer Chemistry</i> , 2023, 14, 1263-1274. | 1.9 | 6 |
| 333 | One-pot terpolymerization of CHO, CO ₂ and lactide using chloride indium catalysts. <i>Dalton Transactions</i> , 2023, 52, 3482-3492. | 1.6 | 3 |
| 334 | [HDBU]Br@P-DD as Porous Organic Polymer-Supported Ionic Liquid Catalysts for Chemical Fixation of CO ₂ into Cyclic Carbonates. <i>ACS Sustainable Chemistry and Engineering</i> , 2023, 11, 4248-4257. | 3.2 | 9 |
| 335 | Ionic Fe(III)-porphyrin frameworks for the one-pot synthesis of cyclic carbonates from olefins and CO ₂ . <i>Inorganic Chemistry Frontiers</i> , 2023, 10, 2088-2099. | 3.0 | 9 |
| 336 | Current Challenges and Perspectives in CO ₂ -Based Polymers. <i>Macromolecules</i> , 2023, 56, 1759-1777. | 2.2 | 15 |
| 337 | Rational development of a unique family of renewable polymers. <i>Frontiers of Materials Science</i> , 2023, 17, . | 1.1 | 1 |
| 338 | Functional polymers from CO ₂ as feedstock. , 2023, , 129-171. | | 0 |
| 339 | How to Open the Ring of a Di-Substituted Valerolactone: From Carbon Dioxide and 1,3-Butadiene to Functional Polyesters. <i>ChemPlusChem</i> , 2023, 88, . | 1.3 | 4 |
| 340 | Polyketones from Carbon Dioxide and Ethylene by Integrating Electrochemical and Organometallic Catalysis. <i>ACS Catalysis</i> , 2023, 13, 4053-4059. | 5.5 | 6 |
| 341 | Electrospun Environment-Friendly Poly (L-Lactic Acid)/CO ₂ -Based Polyurea Nanofiber Film for Piezoelectric Sensor. <i>Advanced Sustainable Systems</i> , 2023, 7, . | 2.7 | 6 |
| 342 | Facile Access to CO ₂ -Sourced Polythiocarbonate Dynamic Networks And Their Potential As Solid-State Electrolytes For Lithium Metal Batteries. <i>ChemSusChem</i> , 2023, 16, . | 3.6 | 2 |
| 343 | Simultaneous Activation of Carbon Dioxide and Epoxides to Produce Cyclic Carbonates by Cross-Linked Epoxy Resin Organocatalysts. <i>ChemCatChem</i> , 0, , . | 1.8 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 344 | Electroreductive Dicarboxylation of Unactivated Skipped Dienes with CO ₂ . <i>Angewandte Chemie</i> , 0, , . | 1.6 | 0 |
| 345 | Plastics to fertilizer: guiding principles for functionable and fertilizable fully bio-based polycarbonates. <i>Polymer Chemistry</i> , 2023, 14, 2469-2477. | 1.9 | 3 |
| 346 | Heteroditopic Chelating NHC Ligand-Supported Co ^{III} Complexes: Catalysts for the Reductive Functionalization of Carbon Dioxide under Ambient Conditions. <i>Organometallics</i> , 2023, 42, 1395-1403. | 1.1 | 3 |
| 347 | Visible-light-driven thio-carboxylation of alkynes with CO ₂ : facile synthesis of thiochromones. <i>Science China Chemistry</i> , 2023, 66, 1457-1466. | 4.2 | 4 |
| 348 | Chromium Complexes Supported by Salen-Type Ligands for the Synthesis of Polyesters, Polycarbonates, and Their Copolymers through Chemoselective Catalysis. <i>International Journal of Molecular Sciences</i> , 2023, 24, 7642. | 1.8 | 6 |
| 360 | Supercritical CO ₂ as an Efficient Medium for Macromolecular Carbonate Synthesis through Ring-Opening Co- and Teroligomerization. <i>ACS Sustainable Chemistry and Engineering</i> , 2023, 11, 8193-8198. | 3.2 | 7 |
| 365 | Green and Sustainable Natural Derived Polysulfides for a Broad Range of Applications. <i>Green Chemistry</i> , 0, , . | 4.6 | 0 |
| 392 | Use of renewable feedstocks for chemical synthesis. , 2024, , 219-237. | | 0 |
| 415 | One-pot multicomponent polymerization towards heterocyclic polymers: a mini review. <i>RSC Advances</i> , 2024, 14, 1757-1781. | 1.7 | 0 |
| 423 | Designing a circular carbon and plastics economy for a sustainable future. <i>Nature</i> , 2024, 626, 45-57. | 13.7 | 2 |
| 426 | Hierarchical surface-modification of nano-Cu toward one pot H-transfer-couplingâ€“cyclizationâ€“CO ₂ fixation tandem reactions. <i>Materials Horizons</i> , 0, , . | 6.4 | 0 |