# Liang-Nian He

List of Publications by Year
in descending order

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| | | 15504 | 26613 |
|---|---|---|---|
| 226 | 13,448 | 65 | 107 |
| papers | citations | h-index | g-index |

| | | | |
|---|---|---|---|
| 249 | 249 | 249 | 8167 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Efficient, selective and sustainable catalysis of carbon dioxide. Green Chemistry, 2017, 19, 3707-3728. | 9.0 | 797 |
| 2 | Carbon dioxide utilization with Câ€“N bond formation: carbon dioxide capture and subsequent conversion. Energy and Environmental Science, 2012, 5, 6602. | 30.8 | 446 |
| 3 | CO2 chemistry: task-specific ionic liquids for CO2 capture/activation and subsequent conversion. RSC Advances, 2011, 1, 545. | 3.6 | 335 |
| 4 | Upgrading Carbon Dioxide by Incorporation into Heterocycles. ChemSusChem, 2015, 8, 52-62. | 6.8 | 320 |
| 5 | Lewis Basic Ionic Liquidsâ€Catalyzed Conversion of Carbon Dioxide to Cyclic Carbonates. Advanced Synthesis and Catalysis, 2010, 352, 2233-2240. | 4.3 | 252 |
| 6 | Organic solvent-free process for the synthesis of propylene carbonate from supercritical carbon dioxide and propylene oxide catalyzed by insoluble ion exchange resins. Green Chemistry, 2005, 7, 518. | 9.0 | 248 |
| 7 | Cyclic Carbonate Synthesis from Supercritical Carbon Dioxide and Epoxide over Lanthanide Oxychloride. Journal of Catalysis, 2002, 209, 547-550. | 6.2 | 238 |
| 8 | Homogeneous hydrogenation of carbon dioxide to methanol. Catalysis Science and Technology, 2014, 4, 1498-1512. | 4.1 | 236 |
| 9 | Synthesis of cyclic carbonates from epoxides and carbon dioxide over silica-supported quaternary ammonium salts under supercritical conditions. Journal of Molecular Catalysis A, 2006, 249, 143-148. | 4.8 | 221 |
| 10 | Selective and high yield synthesis of dimethyl carbonate directly from carbon dioxide and methanol. Green Chemistry, 2002, 4, 230-234. | 9.0 | 217 |
| 11 | Equimolar CO<sub>2</sub> Capture by Nâ€Substituted Amino Acid Salts and Subsequent Conversion. Angewandte Chemie - International Edition, 2012, 51, 11306-11310. | 13.8 | 206 |
| 12 | CO2 capture and activation by superbase/polyethylene glycol and its subsequent conversion. Energy and Environmental Science, 2011, 4, 3971. | 30.8 | 205 |
| 13 | Efficient synthesis of cyclic carbonate from carbon dioxide catalyzed by polyoxometalate: the remarkable effects of metal substitution. Journal of Catalysis, 2005, 233, 119-122. | 6.2 | 200 |
| 14 | Solventless synthesis of cyclic carbonates from carbon dioxide and epoxides catalyzed by silica-supported ionic liquids under supercritical conditions. Catalysis Communications, 2007, 8, 167-172. | 3.3 | 196 |
| 15 | Highly efficient conversion of carbon dioxide catalyzed by polyethylene glycol-functionalized basic ionic liquids. Green Chemistry, 2012, 14, 519. | 9.0 | 186 |
| 16 | Efficient chemical fixation of CO2 promoted by a bifunctional Ag2WO4/Ph3P system. Green Chemistry, 2014, 16, 1633. | 9.0 | 185 |
| 17 | Bifunctional Metalâ€Salen Complexes as Efficient Catalysts for the Fixation of CO<sub>2</sub> with Epoxides under Solventâ€Free Conditions. ChemSusChem, 2008, 1, 236-241. | 6.8 | 180 |
| 18 | Betaine Catalysis for Hierarchical Reduction of CO<sub>2</sub> with Amines and Hydrosilane To Form Formamides, Aminals, and Methylamines. Angewandte Chemie - International Edition, 2017, 56, 7425-7429. | 13.8 | 176 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Bio-aviation fuel production from hydroprocessing castor oil promoted by the nickel-based bifunctional catalysts. Bioresource Technology, 2015, 183, 93-100. | 9.6 | 174 |
| 20 | Quaternary ammonium salt-functionalized chitosan: An easily recyclable catalyst for efficient synthesis of cyclic carbonates from epoxides and carbon dioxide. Journal of Molecular Catalysis A, 2007, 271, 284-289. | 4.8 | 166 |
| 21 | Quaternary Ammonium Bromide Functionalized Polyethylene Glycol: A Highly Efficient and Recyclable Catalyst for Selective Synthesis of 5-Aryl-2-oxazolidinones from Carbon Dioxide and Aziridines Under Solvent-Free Conditions. Journal of Organic Chemistry, 2008, 73, 4709-4712. | 3.2 | 164 |
| 22 | Photochemical and Electrochemical Carbon Dioxide Utilization with Organic Compounds. Chinese Journal of Chemistry, 2018, 36, 644-659. | 4.9 | 161 |
| 23 | An efficient and recyclable tetraoxo-coordinated zinc catalyst for the cycloaddition of epoxides with carbon dioxide at atmospheric pressure. Green Chemistry, 2016, 18, 226-231. | 9.0 | 156 |
| 24 | New procedure for recycling homogeneous catalyst: propylene carbonate synthesis under supercritical CO2 conditions. Green Chemistry, 2003, 5, 92-94. | 9.0 | 146 |
| 25 | Catalyst-free approach for solvent-dependent selective oxidation of organic sulfides with oxone. Green Chemistry, 2012, 14, 957. | 9.0 | 146 |
| 26 | Bifunctional Silver(I) Complexâ€Catalyzed CO<sub>2</sub> Conversion at Ambient Conditions: Synthesis of Î±â€Methylene Cyclic Carbonates and Derivatives. ChemSusChem, 2015, 8, 821-827. | 6.8 | 135 |
| 27 | Efficient conversion of carbon dioxide at atmospheric pressure to 2-oxazolidinones promoted by bifunctional Cu(<scp>ii</scp>)-substituted polyoxometalate-based ionic liquids. Green Chemistry, 2016, 18, 282-287. | 9.0 | 129 |
| 28 | A poly(ethylene glycol)-supported quaternary ammonium salt for highly efficient and environmentally friendly chemical fixation of CO2 with epoxides under supercritical conditions. Tetrahedron Letters, 2006, 47, 1271-1275. | 1.4 | 128 |
| 29 | Efficient synthesis of dimethyl carbonate from methanol, propylene oxide and CO2catalyzed by recyclable inorganic base/phosphonium halide-functionalized polyethylene glycol. Green Chemistry, 2007, 9, 566-571. | 9.0 | 127 |
| 30 | Lewis basic ionic liquids-catalyzed synthesis of 5-aryl-2-oxazolidinones from aziridines and CO2 under solvent-free conditions. Green Chemistry, 2010, 12, 1850. | 9.0 | 126 |
| 31 | Photocarboxylation with CO<sub>2</sub>: an appealing and sustainable strategy for CO<sub>2</sub> fixation. Green Chemistry, 2020, 22, 7301-7320. | 9.0 | 115 |
| 32 | Catalytic fixation of CO<sub>2</sub>to cyclic carbonates by phosphonium chlorides immobilized on fluorous polymer. Green Chemistry, 2013, 15, 110-115. | 9.0 | 114 |
| 33 | Iron-catalyzed selective oxidation of sulfides to sulfoxides with the polyethylene glycol/O<sub>2</sub>system. Green Chemistry, 2012, 14, 130-135. | 9.0 | 113 |
| 34 | In situ hydrogenation of captured CO2 to formate with polyethyleneimine and Rh/monophosphine system. Green Chemistry, 2013, 15, 2825. | 9.0 | 112 |
| 35 | Fluorideâ€Catalyzed Methylation of Amines by Reductive Functionalization of CO<sub>2</sub> with Hydrosilanes. Chemistry - A European Journal, 2016, 22, 16489-16493. | 3.3 | 105 |
| 36 | TEMPO and Carboxylic Acid Functionalized Imidazolium Salts/Sodium Nitrite: An Efficient, Reusable, Transition Metalâ€Free Catalytic System for Aerobic Oxidation of Alcohols. Advanced Synthesis and Catalysis, 2009, 351, 2209-2216. | 4.3 | 103 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Copper(I)@Carbon-Catalyzed Carboxylation of Terminal Alkynes with CO<sub>2</sub> at Atmospheric Pressure. ACS Catalysis, 2015, 5, 3940-3944. | 11.2 | 101 |
| 38 | Chemical fixation of CO2: efficient synthesis of quinazoline-2,4(1H, 3H)-diones catalyzed by guanidines under solvent-free conditions. Tetrahedron, 2010, 66, 4063-4067. | 1.9 | 100 |
| 39 | Synthesis of bimagnetic ionic liquid and application for selective aerobic oxidation of aromatic alcohols under mild conditions. Chemical Communications, 2011, 47, 2697. | 4.1 | 100 |
| 40 | Carboxylation of olefins/alkynes with CO2 to industrially relevant acrylic acid derivatives. Journal of CO2 Utilization, 2013, 1, 60-68. | 6.8 | 99 |
| 41 | Silver tungstate: a single-component bifunctional catalyst for carboxylation of terminal alkynes with CO<sub>2</sub> in ambient conditions. Green Chemistry, 2015, 17, 474-479. | 9.0 | 98 |
| 42 | A Porous Metalâ€“Organic Framework Assembled by [Cu<sub>30</sub>] Nanocages: Serving as Recyclable Catalysts for CO<sub>2</sub> Fixation with Aziridines. Advanced Science, 2016, 3, 1600048. | 11.2 | 96 |
| 43 | Robust Silver(I) Catalyst for the Carboxylative Cyclization of Propargylic Alcohols with Carbon Dioxide under Ambient Conditions. Advanced Synthesis and Catalysis, 2016, 358, 1251-1258. | 4.3 | 95 |
| 44 | Green Catalytic Process for Cyclic Carbonate Synthesis from Carbon Dioxide under Mild Conditions. Chemical Record, 2016, 16, 1337-1352. | 5.8 | 93 |
| 45 | Carbon dioxide chemistry: Examples and challenges in chemical utilization of carbon dioxide. Pure and Applied Chemistry, 2009, 81, 2069-2080. | 1.9 | 92 |
| 46 | Cooperative calcium-based catalysis with 1,8-diazabicyclo[5.4.0]-undec-7-ene for the cycloaddition of epoxides with CO<sub>2</sub> at atmospheric pressure. Green Chemistry, 2016, 18, 2871-2876. | 9.0 | 91 |
| 47 | Photoinduced radical-initiated carboxylative cyclization of allyl amines with carbon dioxide. Green Chemistry, 2017, 19, 1240-1244. | 9.0 | 89 |
| 48 | Cluster-based MOFs with accelerated chemical conversion of CO<sub>2</sub> through Câ€“C bond formation. Chemical Communications, 2017, 53, 6013-6016. | 4.1 | 89 |
| 49 | Supercritical carbon dioxide and poly(ethylene glycol): an environmentally benign biphasic solvent system for aerobic oxidation of styrene. Green Chemistry, 2007, 9, 882. | 9.0 | 87 |
| 50 | Protic onium salts-catalyzed synthesis of 5-aryl-2-oxazolidinones from aziridines and CO2 under mild conditions. Green Chemistry, 2011, 13, 2351. | 9.0 | 87 |
| 51 | Dimethyl carbonate synthesis catalyzed by DABCO-derived basic ionic liquids via transesterification of ethylene carbonate with methanol. Tetrahedron Letters, 2010, 51, 2931-2934. | 1.4 | 85 |
| 52 | Zirconyl chloride: an efficient recyclable catalyst for synthesis of 5-aryl-2-oxazolidinones from aziridines and CO2 under solvent-free conditions. Tetrahedron, 2009, 65, 6204-6210. | 1.9 | 81 |
| 53 | Carboxylate-promoted reductive functionalization of CO<sub>2</sub> with amines and hydrosilanes under mild conditions. Green Chemistry, 2017, 19, 1726-1731. | 9.0 | 79 |
| 54 | Carboxylation of terminal alkynes at ambient CO2 pressure in ethylene carbonate. Green Chemistry, 2013, 15, 2401. | 9.0 | 78 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Sn-catalyzed synthesis of propylene carbonate from propylene glycol and CO2 under supercritical conditions. Journal of Molecular Catalysis A, 2005, 241, 233-237. | 4.8 | 77 |
| 56 | Experimental and theoretical studies on imidazolium ionic liquid-promoted conversion of fructose to 5-hydroxymethylfurfural. Green Chemistry, 2012, 14, 2752. | 9.0 | 77 |
| 57 | Tungstate catalysis: pressure-switched 2- and 6-electron reductive functionalization of CO<sub>2</sub> with amines and phenylsilane. Green Chemistry, 2018, 20, 1564-1570. | 9.0 | 75 |
| 58 | Hydrogen bonding-inspired organocatalysts for CO2 fixation with epoxides to cyclic carbonates. Catalysis Today, 2016, 263, 69-74. | 4.4 | 74 |
| 59 | Highly Efficient Conversion of Propargylic Amines and CO<sub>2</sub> Catalyzed by Nobleâ€Metalâ€Free [Zn<sub>116</sub>] Nanocages. Angewandte Chemie - International Edition, 2020, 59, 8586-8593. | 13.8 | 74 |
| 60 | A CO2/H2O2-tunable reaction: direct conversion of styrene into styrene carbonate catalyzed by sodium phosphotungstate/n-Bu4NBr. Green Chemistry, 2008, 10, 1218. | 9.0 | 73 |
| 61 | Inâ€...Situ Generated Zinc(II) Catalyst for Incorporation of CO<sub>2</sub> into 2â€Oxazolidinones with Propargylic Amines at Atmospheric Pressure. ChemSusChem, 2017, 10, 1210-1216. | 6.8 | 73 |
| 62 | Copper(II)-Catalyzed Selective Reductive Methylation of Amines with Formic Acid: An Option for Indirect Utilization of CO<sub>2</sub>. Organic Letters, 2017, 19, 1490-1493. | 4.6 | 70 |
| 63 | Self-Neutralizing in Situ Acidic CO<sub>2</sub>/H<sub>2</sub>O System for Aerobic Oxidation of Alcohols Catalyzed by TEMPO Functionalized Imidazolium Salt/NaNO<sub>2</sub>. Journal of Organic Chemistry, 2010, 75, 257-260. | 3.2 | 69 |
| 64 | Preparation of polystyrene-supported Lewis acidic Fe(III) ionic liquid and its application in catalytic conversion of carbon dioxide. Tetrahedron, 2012, 68, 3835-3842. | 1.9 | 68 |
| 65 | Highly efficient SO2 absorption/activation and subsequent utilization by polyethylene glycol-functionalized Lewis basic ionic liquids. Physical Chemistry Chemical Physics, 2012, 14, 15832. | 2.8 | 66 |
| 66 | Highly Efficient SO<sub>2</sub>Absorption and Its Subsequent Utilization by Weak Base/Polyethylene Glycol Binary System. Environmental Science & Technology, 2013, 47, 1598-1605. | 10.0 | 64 |
| 67 | Zn-salen complexes with multiple hydrogen bonding donor and protic ammonium bromide: Bifunctional catalysts for CO2 fixation with epoxides at atmospheric pressure. Journal of Molecular Catalysis A, 2016, 420, 208-215. | 4.8 | 64 |
| 68 | Enhanced cycloaddition of CO2 to epichlorohydrin over zeolitic imidazolate frameworks with mixed linkers under solventless and co-catalyst-free condition. Catalysis Today, 2020, 339, 337-343. | 4.4 | 62 |
| 69 | Magnesium-catalyzed synthesis of organic carbonate from 1,2-diol/alcohol and carbon dioxide. Catalysis Communications, 2008, 9, 1754-1758. | 3.3 | 61 |
| 70 | Ethylene carbonate as a unique solvent for palladium-catalyzed Wacker oxidation using oxygen as the sole oxidant. Green Chemistry, 2009, 11, 1317. | 9.0 | 61 |
| 71 | Carbon Dioxide in Heterocyclic Synthesis. Current Organic Chemistry, 2011, 15, 621-646. | 1.6 | 61 |
| 72 | Design of task-specific ionic liquids for catalytic conversion of CO2 with aziridines under mild conditions. Catalysis Today, 2013, 200, 2-8. | 4.4 | 57 |

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|---|---|---|---|
| 73 | Copper(II) chloride-catalyzed Glaser oxidative coupling reaction in polyethylene glycol. Tetrahedron Letters, 2011, 52, 3485-3488. | 1.4 | 56 |
| 74 | Copper catalysis: ligand-controlled selective N-methylation or N-formylation of amines with CO<sub>2</sub> and phenylsilane. Green Chemistry, 2018, 20, 4853-4858. | 9.0 | 56 |
| 75 | Waste Recycling: Ionic Liquid-Catalyzed 4-Electron Reduction of CO<sub>2</sub> with Amines and Polymethylhydrosiloxane Combining Experimental and Theoretical Study. ACS Sustainable Chemistry and Engineering, 2018, 6, 8130-8135. | 6.7 | 55 |
| 76 | Catalytic conversion of carbon dioxide to carboxylic acid derivatives. , 2015, 5, 17-33. | | 54 |
| 77 | Tert-butyl nitrite: a metal-free radical initiator for aerobic cleavage of benzylic Cî€€ bonds in compressed carbon dioxide. Green Chemistry, 2011, 13, 541. | 9.0 | 53 |
| 78 | Iron(iii)-based ionic liquid-catalyzed regioselective benzylation of arenes and heteroarenes. Green Chemistry, 2011, 13, 1182. | 9.0 | 53 |
| 79 | CO2 Capture and in situ Catalytic Transformation. Frontiers in Chemistry, 2019, 7, 525. | 3.6 | 53 |
| 80 | One-pot synthesis of dimethyl carbonate catalyzed by n-Bu4NBr/n-Bu3N from methanol, epoxides, and supercritical CO2. Applied Catalysis A: General, 2006, 301, 215-221. | 4.3 | 52 |
| 81 | Natural Amino Acid-Based Ionic Liquids as Efficient Catalysts for the Synthesis of Cyclic Carbonates from CO2 and Epoxides under Solvent- Free Conditions. Letters in Organic Chemistry, 2010, 7, 73-78. | 0.5 | 52 |
| 82 | Transition-Metal-Free Catalysis for the Reductive ÂFunctionalization of CO2 with Amines. Synlett, 2018, 29, 548-555. | 1.8 | 51 |
| 83 | Protic ionic liquids-promoted efficient synthesis of quinazolines from 2-aminobenzonitriles and CO2 at ambient conditions. Journal of CO2 Utilization, 2016, 15, 115-122. | 6.8 | 50 |
| 84 | Efficient iron(iii)-catalyzed three-component coupling reaction of alkynes, CH2Cl2 and amines to propargylamines. Chemical Communications, 2012, 48, 2024. | 4.1 | 49 |
| 85 | Reduction of sulfoxides and pyridine-N-oxides over iron powder with water as hydrogen source promoted by carbon dioxide. Green Chemistry, 2013, 15, 1274. | 9.0 | 49 |
| 86 | Metal-free chemoselective oxidation of sulfides by in situ generated Koserâ€™s reagent in aqueous media. Tetrahedron Letters, 2014, 55, 1818-1821. | 1.4 | 49 |
| 87 | Mesoporous zirconium phosphonates as efficient catalysts for chemical CO<sub>2</sub> fixation. Green Chemistry, 2015, 17, 795-798. | 9.0 | 49 |
| 88 | Thermodynamically Favorable Synthesis of 2â€Oxazolidinones through Silverâ€Catalyzed Reaction of Propargylic Alcohols, CO<sub>2,</sub> and 2â€Aminoethanols. ChemSusChem, 2016, 9, 2054-2058. | 6.8 | 48 |
| 89 | Organic synthesis using carbon dioxide as phosgene-free carbonyl reagent. Pure and Applied Chemistry, 2011, 84, 581-602. | 1.9 | 47 |
| 90 | Palladiumâ€Catalyzed Carboxylation of Benzyl Chlorides with Atmospheric Carbon Dioxide in Combination with Manganese/Magnesium Chloride. ChemCatChem, 2015, 7, 3972-3977. | 3.7 | 47 |

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|---|---|---|---|
| 91 | Photocatalytic Oxidation and Subsequent Hydrogenolysis of Lignin Î²-O-4 Models to Aromatics Promoted by In Situ Carbonic Acid. ACS Sustainable Chemistry and Engineering, 2018, 6, 15032-15039. | 6.7 | 47 |
| 92 | Transition Metalâ€Catalyzed Reductive Functionalization of CO<sub>2</sub>. European Journal of Organic Chemistry, 2019, 2019, 2437-2447. | 2.4 | 46 |
| 93 | Equimolar Carbon Absorption by Potassium Phthalimide and In Situ Catalytic Conversion Under Mild Conditions. ChemSusChem, 2014, 7, 1484-1489. | 6.8 | 45 |
| 94 | Sustainable Solid Catalysts for Cyclic Carbonate Synthesis from CO<sub>2</sub> and Epoxide. Current Organic Chemistry, 2015, 19, 681-694. | 1.6 | 45 |
| 95 | Silver(I)-Promoted Cascade Reaction of Propargylic Alcohols, Carbon Dioxide, and Vicinal Diols: Thermodynamically Favorable Route to Cyclic Carbonates. ACS Omega, 2017, 2, 337-345. | 3.5 | 44 |
| 96 | Copper(I)-based ionic liquid-catalyzed carboxylation of terminal alkynes with CO2 at atmospheric pressure. Tetrahedron Letters, 2015, 56, 7059-7062. | 1.4 | 41 |
| 97 | Integrative Photoreduction of CO<sub>2</sub> with Subsequent Carbonylation: Photocatalysis for Reductive Functionalization of CO<sub>2</sub>. ChemSusChem, 2018, 11, 3382-3387. | 6.8 | 40 |
| 98 | Introduction to CO<sub>2</sub> utilisation. Green Chemistry, 2021, 23, 3499-3501. | 9.0 | 40 |
| 99 | Coordination effect-regulated CO<sub>2</sub>capture with an alkali metal onium salts/crown ether system. Green Chemistry, 2014, 16, 253-258. | 9.0 | 39 |
| 100 | Ferric Porphyrin-Based Porous Organic Polymers for CO<sub>2</sub> Photocatalytic Reduction to Syngas with Selectivity Control. Chemistry of Materials, 2021, 33, 8863-8872. | 6.7 | 39 |
| 101 | Silver(I)â€Catalyzed Synthesis of Î²â€Oxopropylcarbamates from Propargylic Alcohols and CO<sub>2</sub> Surrogate: A Gasâ€Free Process. ChemSusChem, 2015, 8, 3967-3972. | 6.8 | 38 |
| 102 | Ionic Liquids Catalysis for Carbon Dioxide Conversion With Nucleophiles. Frontiers in Chemistry, 2018, 6, 462. | 3.6 | 38 |
| 103 | Copper(<scp>i</scp>)/phosphine-catalyzed tandem carboxylation/annulation of terminal alkynes under ambient pressure of CO<sub>2</sub>: one-pot access to 3a-hydroxyisoxazolo[3,2-a]isoindol-8(3aH)-ones. Green Chemistry, 2015, 17, 4061-4067. | 9.0 | 37 |
| 104 | Polyoxometalate-based ionic liquids-promoted CO2 conversion. Science China Chemistry, 2016, 59, 507-516. | 8.2 | 37 |
| 105 | Chiral Tertiary Amine/<scp>L</scp>â€Proline Cocatalyzed Enantioselective Moritaâ€“Baylisâ€“Hillman (MBH) Reaction. European Journal of Organic Chemistry, 2008, 2008, 126-135. | 2.4 | 36 |
| 106 | Magnetic base catalysts for the chemical fixation of carbon dioxide to quinazoline-2,4(1H,3H)-diones. RSC Advances, 2014, 4, 28941-28946. | 3.6 | 36 |
| 107 | Construction of Câ€“Cu Bond: A Useful Strategy in CO<sub>2</sub> Conversion. Organometallics, 2020, 39, 1461-1475. | 2.3 | 36 |
| 108 | A novel method to synthesize diphenyl carbonate from carbon dioxide and phenol in the presence of methanol. Catalysis Science and Technology, 2011, 1, 1138. | 4.1 | 34 |

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|---|---|---|---|
| 109 | Tetra-butylphosphonium arginine-based ionic liquid-promoted cyclization of 2-aminobenzonitrile with carbon dioxide. RSC Advances, 2015, 5, 15668-15673. | 3.6 | 34 |
| 110 | A rhenium catalyst with bifunctional pyrene groups boosts natural light-driven CO<sub>2</sub> reduction. Green Chemistry, 2020, 22, 8614-8622. | 9.0 | 34 |
| 111 | An integrated process of CO<sub>2</sub>capture and in situ hydrogenation to formate using a tunable ethoxyl-functionalized amidine and Rh/bisphosphine system. RSC Advances, 2014, 4, 49995-50002. | 3.6 | 33 |
| 112 | Betaine Catalysis for Hierarchical Reduction of CO<sub>2</sub> with Amines and Hydrosilane To Form Formamides, Aminals, and Methylamines. Angewandte Chemie, 2017, 129, 7533-7537. | 2.0 | 31 |
| 113 | Capture and Fixation of CO2 Promoted by Guanidine Derivatives. Australian Journal of Chemistry, 2014, 67, 980. | 0.9 | 30 |
| 114 | Protic ionic liquid-promoted synthesis of dimethyl carbonate from ethylene carbonate and methanol. Chinese Chemical Letters, 2020, 31, 667-672. | 9.0 | 30 |
| 115 | Tuning of Ionic Second Coordination Sphere in Evolved Rhenium Catalyst for Efficient Visibleâ€Lightâ€Driven CO<sub>2</sub> Reduction. ChemSusChem, 2020, 13, 6284-6289. | 6.8 | 30 |
| 116 | Silver(I)â€Catalyzed Threeâ€Component Reaction of Propargylic Alcohols, Carbon Dioxide and Monohydric Alcohols: Thermodynamically Feasible Access to Î²â€Oxopropyl Carbonates. Chemistry - an Asian Journal, 2016, 11, 2065-2071. | 3.3 | 29 |
| 117 | Design of Lewis base functionalized ionic liquids for the N-formylation of amines with CO2 and hydrosilane: The cation effects. Catalysis Today, 2020, 356, 563-569. | 4.4 | 29 |
| 118 | Poly(ethylene glycol): an Alternative Solvent for the Synthesis of Cyclic Carbonate from Vicinal Halohydrin and Carbon Dioxide. Australian Journal of Chemistry, 2009, 62, 917. | 0.9 | 28 |
| 119 | Upgrading CO<sub>2</sub> by Incorporation into Urethanes through Silverâ€Catalyzed Oneâ€Pot Stepwise Amidation Reaction. Chinese Journal of Chemistry, 2018, 36, 147-152. | 4.9 | 28 |
| 120 | Copperâ€Catalyzed and Protonâ€Directed Selective Hydroxymethylation of Alkynes with CO<sub>2</sub>. Angewandte Chemie - International Edition, 2021, 60, 3984-3988. | 13.8 | 28 |
| 121 | Efficient CO<sub>2</sub> capture by tertiary amine-functionalized ionic liquids through Li<sup>+</sup>-stabilized zwitterionic adduct formation. Beilstein Journal of Organic Chemistry, 2014, 10, 1959-1966. | 2.2 | 27 |
| 122 | Ag<sup>I</sup>/TMGâ€Promoted Cascade Reaction of Propargyl Alcohols, Carbon Dioxide, and 2â€Aminoethanols to 2â€Oxazolidinones. ChemPhysChem, 2017, 18, 3182-3188. | 2.1 | 26 |
| 123 | Synthesis of Urea Derivatives from CO2 and Amines Catalyzed by Polyethylene Glycol Supported Potassium Hydroxide without Dehydrating Agents. Synlett, 2010, 2010, 1276-1280. | 1.8 | 25 |
| 124 | Polyethylene Glycolâ€“Enhanced Chemoselective Synthesis of Organic Carbamates from Amines, CO<sub>2</sub>, and Alkyl Halides. Synthetic Communications, 2011, 41, 3298-3307. | 2.1 | 25 |
| 125 | Proline-Catalyzed Synthesis of 5-Aryl-2-oxazolidinones from Carbon Dioxide and Aziridines Under Solvent-Free Conditions. Synthetic Communications, 2012, 42, 62-74. | 2.1 | 25 |
| 126 | DBU as activator for the N -iodosuccinimide promoted chemical fixation of carbon dioxide with epoxides. Journal of CO2 Utilization, 2017, 19, 28-32. | 6.8 | 25 |

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|---|---|---|---|
| 127 | Integration of CO<sub>2</sub> Reduction with Subsequent Carbonylation: Towards Extending Chemical Utilization ofâ€‰CO<sub>2</sub>. ChemSusChem, 2018, 11, 2062-2067. | 6.8 | 25 |
| 128 | Cu(II)-Catalyzed Phosphonocarboxylative Cyclization Reaction of Propargylic Amines and Phosphine Oxide with CO<sub>2</sub>. Journal of Organic Chemistry, 2020, 85, 14109-14120. | 3.2 | 25 |
| 129 | CO2 capture and utilization with solid waste. Green Chemical Engineering, 2022, 3, 199-209. | 6.3 | 25 |
| 130 | Amphiphilic Polycarbonate Micellar Rhenium Catalysts for Efficient Photocatalytic CO<sub>2</sub> Reduction in Aqueous Media. Angewandte Chemie - International Edition, 2022, 61, . | 13.8 | 25 |
| 131 | Polyethylene glycol radical-initiated oxidation of benzylic alcohols in compressed carbon dioxide. Green Chemistry, 2009, 11, 1013. | 9.0 | 24 |
| 132 | Environmentally benign chemical fixation of CO2 catalyzed by the functionalized ion-exchange resins. Science China Chemistry, 2010, 53, 1578-1585. | 8.2 | 23 |
| 133 | Thermodynamically favorable protocol for the synthesis of 2-oxazolidinones via Cu(I)-catalyzed three-component reaction of propargylic alcohols, CO2 and 2-aminoethanols. Journal of CO2 Utilization, 2018, 25, 338-345. | 6.8 | 23 |
| 134 | Rhodium(<scp>i</scp>)-catalyzed Pausonâ€“Khand-type reaction using formic acid as a CO surrogate: an alternative approach for indirect CO<sub>2</sub> utilization. Green Chemistry, 2019, 21, 509-514. | 9.0 | 23 |
| 135 | Bifunctionalization of unsaturated bonds via carboxylative cyclization with CO<sub>2</sub>: a sustainable access to heterocyclic compounds. Green Chemistry, 2021, 23, 9334-9347. | 9.0 | 23 |
| 136 | Adsorption of Hg<sup>2+</sup>from aqueous solution on functionalized MCM-41. RSC Advances, 2012, 2, 1088-1095. | 3.6 | 22 |
| 137 | Reduced Graphene Oxide Supported Ag Nanoparticles: An Efficient Catalyst for CO<sub>2</sub> Conversion at Ambient Conditions. ChemCatChem, 2020, 12, 4825-4830. | 3.7 | 22 |
| 138 | Synthesis of Oxazolidinones/Polyurethanes from Aziridines and CO2. Current Catalysis, 2012, 1, 107-124. | 0.5 | 22 |
| 139 | The Freeâ€Radical Chemistry of Polyethylene Glycol: Organic Reactions in Compressed Carbon Dioxide. ChemSusChem, 2009, 2, 755-760. | 6.8 | 21 |
| 140 | In situ acidic carbon dioxide/water system for selective oxybromination of electron-rich aromatics catalyzed by copper bromide. Catalysis Today, 2012, 194, 38-43. | 4.4 | 21 |
| 141 | Cu(<scp>ii</scp>)-catalyzed esterification reaction via aerobic oxidative cleavage of C(CO)â€“C(alkyl) bonds. Chemical Communications, 2016, 52, 2145-2148. | 4.1 | 21 |
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