

# Xian-Tai Zhou

## List of Publications by Year in descending order

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92  
papers

2,861  
citations

172457

29  
h-index

197818

49  
g-index

93  
all docs

93  
docs citations

93  
times ranked

2692  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Manganese porphyrin-mediated aerobic epoxidation of propylene with isoprene: A new strategy for simultaneously preparing propylene epoxide and isoprene monoxide. <i>Chinese Chemical Letters</i> , 2023, 34, 107658.                                     | 9.0  | 1         |
| 2  | Hybrid method integrating machine learning and particle swarm optimization for smart chemical process operations. <i>Frontiers of Chemical Science and Engineering</i> , 2022, 16, 274-287.   | 4.4  | 19        |
| 3  | Liquid-phase epoxidation of propylene with molecular oxygen by chloride manganese meso-tetraphenylporphyrins. <i>Chinese Journal of Chemical Engineering</i> , 2022, 48, 61-65.   | 3.5  | 1         |
| 4  | TiO <sub>2</sub> nanotube arrays sensitized by copper (II) porphyrins with efficient interfacial charge transfer for the photocatalytic degradation of 4-nitrophenol. <i>Journal of Hazardous Materials</i> , 2022, 422, 126869.                          | 12.4 | 25        |
| 5  | Oxygen Atom Transfer Mechanism for $\langle \text{scp} \rangle$ Vanadium $\langle \text{oxo} \rangle$ Porphyrin Complexes Mediated Aerobic Olefin Epoxidation. <i>Chinese Journal of Chemistry</i> , 2022, 40, 115-122.                                   | 4.9  | 10        |
| 6  | A metal-free hydroxyl functionalized quaternary phosphine type ionic liquid polymer for cycloaddition of CO <sub>2</sub> and epoxides. <i>Dalton Transactions</i> , 2022, 51, 1303-1307.  | 3.3  | 10        |
| 7  | Enhanced oxygen transfer over bifunctional Mo-based oxametallacycle catalyst for epoxidation of propylene. <i>Journal of Colloid and Interface Science</i> , 2022, 611, 564-577.  | 9.4  | 12        |
| 8  | Progress in the application of metalloporphyrins compounds in catalytic oxidation reactions. <i>Scientia Sinica Chimica</i> , 2022, 52, 1224-1238.  | 0.4  | 1         |
| 9  | Sustainable synthesis of multifunctional porous metalloporphyrin polymers for efficient carbon dioxide transformation under mild conditions. <i>Chemical Engineering Science</i> , 2021, 232, 116380.   | 3.8  | 26        |
| 10 | Substrate specificity in the biomimetic catalytic aerobic oxidation of styrene and cyclohexanone by metalloporphyrins: kinetics and mechanistic study. <i>Green Chemical Engineering</i> , 2021, 2, 217-223.  | 6.3  | 4         |
| 11 | Dynamic Covalent Bonds of Si-OR and Si-OSi Enabled A Stiff Polymer to Heal and Recycle at Room Temperature. <i>Materials</i> , 2021, 14, 2680.  | 2.9  | 5         |
| 12 | Enhancement of the visible-light absorption and charge mobility in a zinc porphyrin polymer/g-C <sub>3</sub> N <sub>4</sub> heterojunction for promoting the oxidative coupling of amines. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119863. | 20.2 | 49        |
| 13 | Enhanced selective removal of Pb(II) by modification low-cost bio-sorbent: Experiment and theoretical calculations. <i>Journal of Cleaner Production</i> , 2021, 316, 128372.   | 9.3  | 38        |
| 14 | Efficient catalytic oxidation of primary benzylic C-H bonds with molecular oxygen catalyzed by cobalt porphyrins and N-hydroxyphthalimide (NHPI) in supercritical carbon dioxide. <i>Catalysis Communications</i> , 2021, 159, 106353.                    | 3.3  | 8         |
| 15 | Mechanism and kinetics of the aerobic oxidation of benzyl alcohol to benzaldehyde catalyzed by cobalt porphyrin in a membrane microchannel reactor. <i>Chemical Engineering Science</i> , 2021, 245, 116847.  | 3.8  | 9         |
| 16 | Efficient selective oxidation of alcohols to carbonyl compounds catalyzed by Ru-terpyridine complexes with molecular oxygen. <i>Inorganic Chemistry Communication</i> , 2020, 112, 107544.  | 3.9  | 9         |
| 17 | Zinc porphyrin-based electron donor-acceptor-conjugated microporous polymer for the efficient photocatalytic oxidative coupling of amines under visible light. <i>Applied Catalysis A: General</i> , 2020, 590, 117352.                                   | 4.3  | 21        |
| 18 | Tubular metal organic frameworks from the curvature of 2D-honeycombed metal coordination. <i>Dalton Transactions</i> , 2020, 49, 2403-2406.   | 3.3  | 3         |

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|----|--|------|-----------|
| 19 | Hybridization of CuO with Bi <sub>2</sub> MoO <sub>6</sub> Nanosheets as a Surface Multifunctional Photocatalyst for Toluene Oxidation under Solar Irradiation. ACS Applied Materials & Interfaces, 2020, 12, 2259-2268. | 8.0  | 50        |
| 20 | Click-Based Porous Ionic Polymers with Intercalated High-Density Metalloporphyrin for Sustainable CO <sub>2</sub> Transformation. Industrial & Engineering Chemistry Research, 2020, 59, 20269-20277.                    | 3.7  | 26        |
| 21 | Highly efficient mixed-metal spinel cobaltite electrocatalysts for the oxygen evolution reaction. Chinese Journal of Catalysis, 2020, 41, 1855-1863.   | 14.0 | 39        |
| 22 | Highly Efficient Aerobic Oxidation of Cyclohexene Catalyzed by Iron(III) Porphyrins in Supercritical Carbon Dioxide. ECS Journal of Solid State Science and Technology, 2020, 9, 041014.                                 | 1.8  | 4         |
| 23 | Biomimetic Aerobic Epoxidation of Alkenes Catalyzed by Cobalt Porphyrin under Ambient Conditions in the Presence of Sunflower Seeds Oil as a Co-Substrate. ACS Omega, 2020, 5, 4890-4899.                                | 3.5  | 12        |
| 24 | Efficient Selective Removal of Pb(II) by Using 6-Aminothiouracil-Modified Zr-Based Organic Frameworks: From Experiments to Mechanisms. ACS Applied Materials & Interfaces, 2020, 12, 7162-7178.                          | 8.0  | 99        |
| 25 | Cyclohexene Promoted Efficient Biomimetic Oxidation of Alcohols to Carbonyl Compounds Catalyzed by Manganese Porphyrin under Mild Conditions. Chinese Journal of Chemistry, 2020, 38, 458-464.                           | 4.9  | 12        |
| 26 | A Carbazolyl Porphyrin-Based Conjugated Microporous Polymer for Metal-Free Photocatalytic Aerobic Oxidation Reactions. ChemCatChem, 2020, 12, 3523-3529.   | 3.7  | 24        |
| 27 | Acetylacetone as an oxygen activator to improve efficiency for aerobic oxidation of toluene and its derivatives by using cobalt <i>meso</i> -tetraphenylporphyrin. New Journal of Chemistry, 2020, 44, 10286-10291.      | 2.8  | 10        |
| 28 | Cerium(IV) Sulfate as a Cocatalyst for Promoting the Direct Epoxidation of Propylene by Ruthenium Porphyrin with Molecular Oxygen. Industrial & Engineering Chemistry Research, 2020, 59, 19982-19988.                   | 3.7  | 7         |
| 29 | Ionic Liquid-Modified Co/ZSM-5 Catalyzed the Aerobic Oxidation of Cyclohexane: Toward Improving the Activity and Selectivity. Industrial & Engineering Chemistry Research, 2019, 58, 19832-19838.                        | 3.7  | 15        |
| 30 | Preparation of cytochrome P450 enzyme-cobalt phosphate hybrid nano-flowers for oxidative coupling of benzylamine. Enzyme and Microbial Technology, 2019, 131, 109386.  | 3.2  | 15        |
| 31 | Facile Synthesis of Metalloporphyrins-Ba <sup>2+</sup> Composites as Recyclable and Efficient Catalysts for Olefins Epoxidation Reactions. Chemical Research in Chinese Universities, 2019, 35, 251-255.                 | 2.6  | 2         |
| 32 | Ionic liquids modified cobalt/ZSM-5 as a highly efficient catalyst for enhancing the selectivity towards KA oil in the aerobic oxidation of cyclohexane. Open Chemistry, 2019, 17, 639-646.                              | 1.9  | 8         |
| 33 | Efficient and selective oxidation of alcohols to carbonyl compounds at room temperature by a ruthenium complex catalyst and hydrogen peroxide. New Journal of Chemistry, 2019, 43, 19415-19421.                          | 2.8  | 7         |
| 34 | A novel system comprising metalloporphyrins and cyclohexene for the biomimetic aerobic oxidation of toluene. Catalysis Communications, 2018, 109, 76-79.   | 3.3  | 23        |
| 35 | Function-oriented ionic polymers having high-density active sites for sustainable carbon dioxide conversion. Journal of Materials Chemistry A, 2018, 6, 9172-9182.   | 10.3 | 91        |
| 36 | Bi-, Y-codoped TiO <sub>2</sub> for Carbon Dioxide Photocatalytic Reduction to Formic Acid under Visible Light Irradiation. Chinese Journal of Chemistry, 2018, 36, 538-544.   | 4.9  | 15        |

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|----|--|------|-----------|
| 37 | Mechanistic Understanding towards the Role of Cyclohexene in Enhancing the Efficiency of Manganese Porphyrin-Catalyzed Aerobic Oxidation of Diphenylmethane. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 2666-2674.           | 2.0  | 16        |
| 38 | Imidazolium-based ionic liquid decorated zinc porphyrin catalyst for converting CO <sub>2</sub> into five-membered heterocyclic molecules. <i>Sustainable Energy and Fuels</i> , 2018, 2, 125-132.   | 4.9  | 59        |
| 39 | Metalloporphyrin Polymers with Intercalated Ionic Liquids for Synergistic CO <sub>2</sub> Fixation via Cyclic Carbonate Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1074-1082.                                     | 6.7  | 115       |
| 40 | Photocatalytic Properties and Mechanistic Insights into Visible Light-Promoted Aerobic Oxidation of Sulfides to Sulfoxides via Tin Porphyrin-Based Porous Aromatic Frameworks. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 4402-4411. | 4.3  | 67        |
| 41 | Tannic Acid as a Polyphenol Material-Assisted Synthesis of Cyclic Carbonates Using CO <sub>2</sub> as a Feedstock: Kinetic Characteristic and Mechanism Studies. <i>Chinese Journal of Chemistry</i> , 2017, 35, 659-664.                      | 4.9  | 20        |
| 42 | Recyclable bifunctional aluminum salen catalyst for CO <sub>2</sub> fixation: the efficient formation of five-membered heterocyclic compounds. <i>Science China Chemistry</i> , 2017, 60, 979-989.   | 8.2  | 29        |
| 43 | Charged Metalloporphyrin Polymers for Cooperative Synthesis of Cyclic Carbonates from CO <sub>2</sub> under Ambient Conditions. <i>ChemSusChem</i> , 2017, 10, 2534-2541.  | 6.8  | 122       |
| 44 | Transformation of carbon dioxide into valuable chemicals over bifunctional metallosalen catalysts bearing quaternary phosphonium salts. <i>Chinese Journal of Catalysis</i> , 2017, 38, 736-744.   | 14.0 | 15        |
| 45 | Promoting the aerobic Baeyer-Villiger oxidation of ketones over carboxylic multi-walled carbon nanotubes. <i>Molecular Catalysis</i> , 2017, 438, 152-158.   | 2.0  | 19        |
| 46 | Cytochrome <i>c</i> <sub>P450</sub> Enzyme-Copper Phosphate Hybrid Nano-Flowers with Superior Catalytic Performances for Selective Oxidation of Sulfides. <i>Chinese Journal of Chemistry</i> , 2017, 35, 693-698.                             | 4.9  | 21        |
| 47 | Self-assembled metalloporphyrins-inorganic hybrid flowers and their application to efficient epoxidation of olefins. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 2594-2605.  | 3.2  | 12        |
| 48 | State-of-the-Art Aluminum Porphyrin-based Heterogeneous Catalysts for the Chemical Fixation of CO <sub>2</sub> into Cyclic Carbonates at Ambient Conditions. <i>ChemCatChem</i> , 2017, 9, 767-773.  | 3.7  | 111       |
| 49 | Metallosalen-based Ionic Porous Polymers as Bifunctional Catalysts for the Conversion of CO <sub>2</sub> into Valuable Chemicals. <i>ChemSusChem</i> , 2017, 10, 1526-1533.  | 6.8  | 77        |
| 50 | Metalloporphyrin-mediated aerobic oxidation of hydrocarbons in cumene: Co-substrate specificity and mechanistic consideration. <i>Molecular Catalysis</i> , 2017, 440, 36-42.  | 2.0  | 23        |
| 51 | Zinc phthalocyanine as an efficient catalyst for halogen-free synthesis of formamides from amines via carbon dioxide hydrosilylation under mild conditions. <i>Chinese Journal of Catalysis</i> , 2017, 38, 1382-1389.                         | 14.0 | 10        |
| 52 | Cooperative Catalytic Activation of Si-H Bonds: CO <sub>2</sub> -Based Synthesis of Formamides from Amines and Hydrosilanes under Mild Conditions. <i>ChemSusChem</i> , 2017, 10, 1224-1232.   | 6.8  | 66        |
| 53 | Recyclable Pd supported catalysts with low loading for efficient epoxidation of olefins at ambient conditions. <i>Catalysis Communications</i> , 2016, 83, 78-81.  | 3.3  | 14        |
| 54 | Insight into the cocatalyst effect of 4A molecular sieve on Sn(II) porphyrin-catalyzed Baeyer-Villiger oxidation of cyclohexanone. <i>Catalysis Today</i> , 2016, 264, 191-197.  | 4.4  | 29        |

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| 55 | Direct aerobic liquid phase epoxidation of propylene catalyzed by Mn( <i>iii</i> ) porphyrin under mild conditions: evidence for the existence of both peroxide and Mn( <i>iv</i> )-oxo species from in situ characterizations. <i>RSC Advances</i> , 2015, 5, 30014-30020.  | 3.6  | 27        |
| 56 | Metal- and solvent-free synthesis of cyclic carbonates from epoxides and CO <sub>2</sub> in the presence of graphite oxide and ionic liquid under mild conditions: A kinetic study. <i>Carbon</i> , 2015, 82, 1-11.  | 10.3 | 75        |
| 57 | Highly efficient synthesis of cyclic carbonates from epoxides catalyzed by salen aluminum complexes with built-in CO <sub>2</sub> capture capability under mild conditions. <i>Green Chemistry</i> , 2014, 16, 1496-1506.  | 9.0  | 125       |
| 58 | New bi-functional zinc catalysts based on robust and easy-to-handle N-chelating ligands for the synthesis of cyclic carbonates from epoxides and CO <sub>2</sub> under mild conditions. <i>Green Chemistry</i> , 2014, 16, 4179-4189.  | 9.0  | 88        |
| 59 | Highly efficient selective oxidation of sulfides to sulfoxides by montmorillonite-immobilized metalloporphyrins in the presence of molecular oxygen. <i>Catalysis Communications</i> , 2014, 53, 29-32.  | 3.3  | 28        |
| 60 | Enhanced catalytic activity and recyclability for oxidation of cinnamaldehyde catalyzed by $\beta$ -cyclodextrin cross-linked with chitosan. <i>Supramolecular Chemistry</i> , 2013, 25, 233-245.  | 1.2  | 15        |
| 61 | Highly efficient oxidation of diphenylmethane to benzophenone employing a novel ruthenium catalyst with tert-butylhydroperoxide under mild conditions. <i>Catalysis Communications</i> , 2013, 37, 60-63.  | 3.3  | 6         |
| 62 | Remarkable differences between benzaldehyde and isobutyraldehyde as coreductant in the performance toward the iron(III) porphyrins-catalyzed aerobic Baeyer-Villiger oxidation of cyclohexanone, kinetic and mechanistic features. <i>Tetrahedron</i> , 2013, 69, 4241-4246. | 1.9  | 30        |
| 63 | Solvent-free selective oxidation of primary and secondary alcohols catalyzed by ruthenium-bis(benzimidazole)pyridinedicarboxylate complex using hydrogen peroxide as an oxidant. <i>Tetrahedron Letters</i> , 2013, 54, 3882-3885.   | 1.4  | 40        |
| 64 | Kinetic and mechanism of the aqueous selective oxidation of sulfides to sulfoxides: insight into the cytochrome P450-like oxidative metabolic process. <i>Journal of Porphyrins and Phthalocyanines</i> , 2013, 17, 1104-1112.   | 0.8  | 7         |
| 65 | Oxidative cleavage of C=C bond of cinnamaldehyde to benzaldehyde in the presence of $\beta$ -cyclodextrin under mild conditions. <i>Supramolecular Chemistry</i> , 2012, 24, 247-254.  | 1.2  | 5         |
| 66 | $\beta$ -Cyclodextrin polymer promoted green synthesis of cinnamaldehyde to natural benzaldehyde in aqueous solution. <i>Supramolecular Chemistry</i> , 2012, 24, 379-384.   | 1.2  | 8         |
| 67 | Mechanism into selective oxidation of cinnamaldehyde using $\beta$ -cyclodextrin polymer as phase-transfer catalyst. <i>Tetrahedron</i> , 2012, 68, 5912-5919.   | 1.9  | 29        |
| 68 | Cocatalytic effect of cobalt acetate on aerobic cyclohexene oxidation catalyzed by manganese porphyrin. <i>Catalysis Communications</i> , 2012, 27, 169-173.   | 3.3  | 24        |
| 69 | Highly Efficient Oxidative Cleavage of Carbon-Carbon Double Bond over <i>meso</i> -Tetraphenyl Cobalt Porphyrin Catalyst in the Presence of Molecular Oxygen. <i>Chinese Journal of Chemistry</i> , 2012, 30, 2103-2108.   | 4.9  | 23        |
| 70 | Photocatalytic Degradation of Methyl Orange over Metalloporphyrins Supported on TiO <sub>2</sub> Degussa P25. <i>Molecules</i> , 2012, 17, 1149-1158.  | 3.8  | 103       |
| 71 | Manganese porphyrin immobilized on montmorillonite: a highly efficient and reusable catalyst for the aerobic epoxidation of olefins under ambient conditions. <i>Journal of Porphyrins and Phthalocyanines</i> , 2012, 16, 1032-1039.  | 0.8  | 15        |
| 72 | Immobilization of $\beta$ -Cyclodextrin as Insoluble $\beta$ -Cyclodextrin Polymer and Its Catalytic Performance. <i>Chinese Journal of Chemical Engineering</i> , 2012, 20, 784-792.  | 3.5  | 22        |

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| 73 | Cobalt Porphyrin Immobilized on Montmorillonite: A Highly Efficient and Reusable Catalyst for Aerobic Oxidation of Alcohols to Carbonyl Compounds. <i>Chinese Journal of Catalysis</i> , 2012, 33, 1906-1912.  | 14.0 | 18        |
| 74 | Mimicking the environment of living organisms to achieve the oxidative coupling of amines to imines catalyzed by water-soluble metalloporphyrins. <i>Tetrahedron Letters</i> , 2012, 53, 3369-3373.  | 1.4  | 24        |
| 75 | Advance in the Construction and Application of Cyclodextrin- Porphyrin Supramolecular System. <i>Chinese Journal of Organic Chemistry</i> , 2012, 32, 686.   | 1.3  | 4         |
| 76 | Efficient Solvent-free Synthesis of Chloropropene Carbonate from the Coupling Reaction of CO <sub>2</sub> and Epichlorohydrin Catalyzed by Magnesium Porphyrins as Chlorophyll-like Catalysts. <i>Chinese Journal of Chemical Engineering</i> , 2011, 19, 446-451. | 3.5  | 22        |
| 77 | Biomimetic models of nitric oxide synthase for the oxidation of oximes to carbonyl compounds catalyzed by water-soluble manganese porphyrins in aqueous solution. <i>Journal of Porphyrins and Phthalocyanines</i> , 2011, 15, 211-216.                            | 0.8  | 4         |
| 78 | Synthesis and cytotoxic evaluation of 1-carboxamide and 1-amino side chain substituted $\hat{I}^2$ -carbolines. <i>European Journal of Medicinal Chemistry</i> , 2010, 45, 5513-5519.  | 5.5  | 23        |
| 79 | Highly efficient controllable oxidation of alcohols to aldehydes and acids with sodium periodate catalyzed by water-soluble metalloporphyrins as biomimetic catalyst. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 8144-8149.                             | 3.0  | 30        |
| 80 | Biomimetic kinetics and mechanism of cyclohexene epoxidation catalyzed by metalloporphyrins. <i>Chemical Engineering Journal</i> , 2010, 156, 411-417.   | 12.7 | 63        |
| 81 | Styrene-hydroxyethyl methacrylate copolymer-supported porphyrinatomanganese(III) complexes: synthesis and catalytic cyclohexane hydroxylation with molecular oxygen. <i>Transition Metal Chemistry</i> , 2010, 35, 627-632.  | 1.4  | 7         |
| 82 | Styrene-hydroxyethyl methacrylate copolymer microsphere immobilized porphyrinatomanganese(III) as a mild, reusable and highly efficient catalyst for epoxidation of cyclohexene with molecular oxygen. <i>Journal of Molecular Catalysis A</i> , 2010, 331, 29-34. | 4.8  | 11        |
| 83 | Green synthesis of natural benzaldehyde from cinnamon oil catalyzed by $\hat{I}^2$ -hydroxypropyl-cyclodextrin. <i>Tetrahedron</i> , 2010, 66, 9888-9893.  | 1.9  | 34        |
| 84 | Highly efficient aerobic oxidation of oximes to carbonyl compounds catalyzed by metalloporphyrins in the presence of benzaldehyde. <i>Tetrahedron Letters</i> , 2010, 51, 613-617.   | 1.4  | 50        |
| 85 | Efficient oxidative coupling of amines to imines catalyzed by manganese(III) meso-tetraphenylporphyrin chloride under ambient conditions. <i>Catalysis Communications</i> , 2010, 12, 202-206.   | 3.3  | 37        |
| 86 | Remarkable enhancement of aerobic epoxidation reactivity for olefins catalyzed by $\hat{I}^{3/4}$ -oxo-bisiron(III) porphyrins under ambient conditions. <i>Tetrahedron Letters</i> , 2009, 50, 6601-6605.   | 1.4  | 44        |
| 87 | Aerobic oxidative cleavage of cinnamaldehyde to benzaldehyde catalyzed by metalloporphyrins under mild conditions. <i>Catalysis Communications</i> , 2009, 10, 828-832.  | 3.3  | 55        |
| 88 | Baeyer-Villiger oxidation of ketones catalyzed by iron(III) meso-tetraphenylporphyrin chloride in the presence of molecular oxygen. <i>Journal of Porphyrins and Phthalocyanines</i> , 2008, 12, 94-100.   | 0.8  | 43        |
| 89 | Enzymatic-like mediated olefins epoxidation by molecular oxygen under mild conditions. <i>Tetrahedron Letters</i> , 2007, 48, 2691-2695.   | 1.4  | 45        |
| 90 | Highly efficient selective oxidation of alcohols to carbonyl compounds catalyzed by ruthenium (III) meso-tetraphenylporphyrin chloride in the presence of molecular oxygen. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 6364-6368.               | 2.2  | 72        |

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| 91 | Selective oxidation of sulfides to sulfoxides catalyzed by ruthenium (III) meso-tetraphenylporphyrin chloride in the presence of molecular oxygen. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 4650-4653. | 2.2 | 70        |
| 92 | N-hydroxyphthalimide Catalyzed Epoxidation of Inactive Aliphatic Olefins with Air at Room Temperature. <i>Asian Journal of Organic Chemistry</i> , 0, , .   | 2.7 | 0         |