

Gui-Juan Cheng

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

2,070
citations

331642

21
h-index

345203

36
g-index

42
all docs

42
docs citations

42
times ranked

2003
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Palladium-Catalyzed <i>meta</i> -Selective C–H Bond Activation with a Nitrile-Containing Template: Computational Study on Mechanism and Origins of Selectivity. <i>Journal of the American Chemical Society</i> , 2014, 136, 344-355. | 13.7 | 317 |
| 2 | miRTarBase update 2022: an informative resource for experimentally validated miRNA–target interactions. <i>Nucleic Acids Research</i> , 2022, 50, D222-D230. | 14.5 | 294 |
| 3 | Computational Organic Chemistry: Bridging Theory and Experiment in Establishing the Mechanisms of Chemical Reactions. <i>Journal of the American Chemical Society</i> , 2015, 137, 1706-1725. | 13.7 | 271 |
| 4 | Role of <i>N</i> -Acyl Amino Acid Ligands in Pd(II)-Catalyzed Remote C–H Activation of Tethered Arenes. <i>Journal of the American Chemical Society</i> , 2014, 136, 894-897. | 13.7 | 263 |
| 5 | A Combined IM–MS/DFT Study on [Pd(MPAA)]-Catalyzed Enantioselective C–H Activation: Relay of Chirality through a Rigid Framework. <i>Chemistry - A European Journal</i> , 2015, 21, 11180-11188. | 3.3 | 94 |
| 6 | Catalytic Asymmetric Vinylogous Prins Cyclization: A Highly Diastereo- and Enantioselective Entry to Tetrahydrofurans. <i>Journal of the American Chemical Society</i> , 2016, 138, 14538-14541. | 13.7 | 67 |
| 7 | Dual role of ethyl bromodifluoroacetate in the formation of fluorine-containing heteroaromatic compounds. <i>Chemical Communications</i> , 2018, 54, 8960-8963. | 4.1 | 60 |
| 8 | Diastereo- and Enantioselective Catalytic Radical Oxysulfonylation of Alkenes in β,β -Unsaturated Ketoximes. <i>Chem</i> , 2020, 6, 1692-1706. | 11.7 | 55 |
| 9 | Silicon-Containing Formal 4–Electron Four-Membered Ring Systems: Antiaromatic, Aromatic, or Nonaromatic?. <i>Chemistry - A European Journal</i> , 2012, 18, 7516-7524. | 3.3 | 51 |
| 10 | Total Synthesis of Incarvilleatone and Incarviditone: Insight into Their Biosynthetic Pathways and Structure Determination. <i>Organic Letters</i> , 2012, 14, 4878-4881. | 4.6 | 46 |
| 11 | Nickel-Catalyzed Cross-Electrophile Coupling Reactions for the Synthesis of <i>gem</i> -Difluorovinyl Arenes. <i>ACS Catalysis</i> , 2020, 10, 13616-13623. | 11.2 | 44 |
| 12 | Nickel-Catalyzed Migratory Hydrocyanation of Internal Alkenes: Unexpected Diastereomeric Ligand-Controlled Regiodivergence. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1883-1890. | 13.8 | 43 |
| 13 | Computational Studies on the Mechanism of the Copper-Catalyzed sp^3 -C–H Cross-Dehydrogenative Coupling Reaction. <i>ChemPlusChem</i> , 2013, 78, 943-951. | 2.8 | 42 |
| 14 | Enantioselective Formation of Cyano-Bearing All-Carbon Quaternary Stereocenters: Desymmetrization by Copper-Catalyzed <i>N</i> -Arylation. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9555-9559. | 13.8 | 42 |
| 15 | Organocatalytic stereoselective cyanosilylation of small ketones. <i>Nature</i> , 2022, 605, 84-89. | 27.8 | 37 |
| 16 | Formal Syntheses of (±)-Platensimycin and (±)-Platencin via a Dual-Mode Lewis Acid Induced Cascade Cyclization Approach. <i>Journal of Organic Chemistry</i> , 2013, 78, 7912-7929. | 3.2 | 33 |
| 17 | Temperature- and Mechanical-Force-Responsive Self-Assembled Rhomboidal Metallacycle. <i>Organometallics</i> , 2019, 38, 4244-4249. | 2.3 | 33 |
| 18 | Directing-Group-Based Strategy Enabling Intermolecular Heck-Type Reaction of Cycloketone Oxime Esters and Unactivated Alkenes. <i>Organic Letters</i> , 2020, 22, 3524-3530. | 4.6 | 29 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Mechanistic understanding of catalysis by combining mass spectrometry and computation. <i>Chemical Communications</i> , 2019, 55, 12749-12764. | 4.1 | 25 |
| 20 | Mechanistic Study on Pd/Mono-N-protected Amino Acid Catalyzed Vinylâ€“Vinyl Coupling Reactions: Reactivity and <i>E/Z</i> Selectivity. <i>Organic Letters</i> , 2016, 18, 5240-5243. | 4.6 | 22 |
| 21 | Catalytic Reductive Pinacolâ€“Type Rearrangement of Unactivated 1,2â€“Diols through a Concerted, Stereoinvertive Mechanism. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13377-13381. | 13.8 | 22 |
| 22 | Computational Study of B(C ₆ F ₅) ₃ -Catalyzed Selective Deoxygenation of 1,2-Diols: Cyclic and Noncyclic Pathways. <i>ACS Catalysis</i> , 2018, 8, 1697-1702. | 11.2 | 22 |
| 23 | Enantioselective Nickel-Catalyzed Hydrocyanative Desymmetrization of Norbornene Derivatives. <i>ACS Catalysis</i> , 2021, 11, 7578-7583. | 11.2 | 20 |
| 24 | Molecular dynamics study of taxadiene synthase catalysis. <i>Journal of Computational Chemistry</i> , 2018, 39, 1215-1225. | 3.3 | 18 |
| 25 | Hydroxyâ€“Directed Rutheniumâ€“Catalyzed Alkene/Alkyne Coupling: Increased Scope, Stereochemical Implications, and Mechanistic Rationale. <i>Angewandte Chemie</i> , 2017, 129, 3653-3658. | 2.0 | 16 |
| 26 | Ligand-Controlled Regiodivergent Nickel-Catalyzed Hydrocyanation of Silyl-Substituted 1,3-Diynes. <i>Organic Letters</i> , 2021, 23, 4045-4050. | 4.6 | 14 |
| 27 | Nickel-Catalyzed Regiodivergent Cyanation of Allylic Alcohols: Scope, Mechanism, and Application to the Synthesis of 1, <i>n</i> -Dinitriles. <i>ACS Catalysis</i> , 2021, 11, 13880-13890. | 11.2 | 14 |
| 28 | Highly Regioâ€“and Stereoselective Niâ€“Catalyzed Hydrocyanation of 1,3â€“Enynes. <i>Chemistry - A European Journal</i> , 2020, 26, 5956-5960. | 3.3 | 12 |
| 29 | Salen-based bifunctional chemosensor for copper (II) ions: Inhibition of copper-induced amyloid- β^2 aggregation. <i>Analytica Chimica Acta</i> , 2020, 1097, 144-152. | 5.4 | 11 |
| 30 | Novel imprinted polyethyleneimine nano-fluorescent probes with controllable selectivity for recognizing and adsorbing metal ions. <i>RSC Advances</i> , 2017, 7, 36048-36055. | 3.6 | 9 |
| 31 | Catalytic Reductive Pinacolâ€“Type Rearrangement of Unactivated 1,2â€“Diols through a Concerted, Stereoinvertive Mechanism. <i>Angewandte Chemie</i> , 2017, 129, 13562-13566. | 2.0 | 6 |
| 32 | Ni-Catalyzed Isomerizationâ€“Hydrocyanation Tandem Reactions: Access to Linear Nitriles from Aliphatic Internal Olefins. <i>Organic Letters</i> , 2021, 23, 486-490. | 4.6 | 6 |
| 33 | DFT Mechanistic Insights into Aldehyde Deformylations with Biomimetic Metalâ€“Dioxygen Complexes: Distinct Mechanisms and Reaction Rules. <i>Jacs Au</i> , 2022, 2, 745-761. | 7.9 | 6 |
| 34 | Computational exploration of copper catalyzed vinylogous aerobic oxidation of unsaturated compounds. <i>Scientific Reports</i> , 2021, 11, 1304. | 3.3 | 2 |
| 35 | Mechanistic Studies on Copper-Catalyzed sp ³ -Câ€“H Cross-Dehydrogenative Coupling Reaction. <i>Springer Theses</i> , 2017, , 111-126. | 0.1 | 0 |
| 36 | Mechanistic Studies on Pd(MPAA)-Catalyzed Enantioselective Câ€“H Activation Reactions. <i>Springer Theses</i> , 2017, , 83-110. | 0.1 | 0 |

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|----|---|-----|-----------|
| 37 | Mechanistic Studies on Pd(OAc) ₂ -C ₁₂ catalyzed Meta-C ⁶ H Activation Reaction. Springer Theses, 2017, , 43-62. | 0.1 | 0 |
| 38 | Mechanistic Studies on Pd(MPAA)-Catalyzed Meta- and Ortho-C ⁶ H Activation Reactions. Springer Theses, 2017, , 63-81. | 0.1 | 0 |