

# Dawen Niu

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

3,013  
citations

186265  
28  
h-index

168389  
53  
g-index

61  
all docs

61  
docs citations

61  
times ranked

2385  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | The hexadehydro-Diels-Alder reaction. <i>Nature</i> , 2012, 490, 208-212.   | 27.8 | 376       |
| 2  | Catalytic asymmetric hydroamination of unactivated internal olefins to aliphatic amines. <i>Science</i> , 2015, 349, 62-66.   | 12.6 | 316       |
| 3  | 2-Azaallyl Anions, 2-Azaallyl Cations, 2-Azaallyl Radicals, and Azomethine Ylides. <i>Chemical Reviews</i> , 2018, 118, 10393-10457.  | 47.7 | 176       |
| 4  | Catalytic Asymmetric Umpolung Allylation of Imines. <i>Journal of the American Chemical Society</i> , 2016, 138, 13103-13106.   | 13.7 | 137       |
| 5  | Alkane desaturation by concerted double hydrogen atom transfer to benzyne. <i>Nature</i> , 2013, 501, 531-534.  | 27.8 | 135       |
| 6  | Design of Modified Amine Transfer Reagents Allows the Synthesis of $\hat{\pm}$ -Chiral Secondary Amines via CuH-Catalyzed Hydroamination. <i>Journal of the American Chemical Society</i> , 2015, 137, 9716-9721. | 13.7 | 123       |
| 7  | Enantioselective Propargylation of Polyols and Desymmetrization of <i>meso</i> 1,2-Diols by Copper/Boronic Acid Dual Catalysis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7213-7217.           | 13.8 | 114       |
| 8  | Silver-Assisted, Iridium-Catalyzed Allylation of Bis[(pinacolato)boryl]methane Allows the Synthesis of Enantioenriched Homoallylic Organoboronic Esters. <i>ACS Catalysis</i> , 2016, 6, 3381-3386.               | 11.2 | 112       |
| 9  | The aromatic ene reaction. <i>Nature Chemistry</i> , 2014, 6, 34-40.  | 13.6 | 100       |
| 10 | Site-Divergent Delivery of Terminal Propargyls to Carbohydrates by Synergistic Catalysis. <i>Chem</i> , 2017, 3, 834-845.   | 11.7 | 83        |
| 11 | Ni-Catalyzed Suzuki-Miyaura Cross-Coupling of $\hat{\pm}$ -Oxo-vinylsulfones To Prepare <i>C</i> -Aryl Glycols and Acyclic Vinyl Ethers. <i>Journal of the American Chemical Society</i> , 2019, 141, 7680-7686.  | 13.7 | 80        |
| 12 | Asymmetric O-propargylation of secondary aliphatic alcohols. <i>Nature Catalysis</i> , 2020, 3, 672-680.  | 34.4 | 77        |
| 13 | Mechanism of the Reactions of Alcohols with <i>o</i> -Benzynes. <i>Journal of the American Chemical Society</i> , 2014, 136, 13657-13665.   | 13.7 | 61        |
| 14 | Halogen-bond-assisted radical activation of glycosyl donors enables mild and stereoconvergent 1,2-cis-glycosylation. <i>Nature Chemistry</i> , 2022, 14, 686-694.   | 13.6 | 59        |
| 15 | The Hexadehydro-Diels-Alder Cycloisomerization Reaction Proceeds by a Stepwise Mechanism. <i>Journal of the American Chemical Society</i> , 2016, 138, 7832-7835.   | 13.7 | 58        |
| 16 | Generation of Glycosyl Radicals from Glycosyl Sulfoxides and Its Use in the Synthesis of <i>C</i> -linked Glycoconjugates. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 385-390.                  | 13.8 | 58        |
| 17 | Nonenzymatic Stereoselective <i>S</i> -Glycosylation of Polypeptides and Proteins. <i>Journal of the American Chemical Society</i> , 2021, 143, 11919-11926.  | 13.7 | 57        |
| 18 | Synthesis of complex benzenoids via the intermediate generation of <i>o</i> -benzynes through the hexadehydro-Diels-Alder reaction. <i>Nature Protocols</i> , 2013, 8, 501-508.                                   | 12.0 | 55        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | Use of a $\alpha$ -Catalytic $\beta$ -Cosolvent, <i>N,N</i> -Dimethyl Octanamide, Allows the Flow Synthesis of Imatinib with no Solvent Switch. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2531-2535.  | 13.8 | 52        |
| 20 | Mechanism of inhibition of retromer transport by the bacterial effector RidL. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E1446-E1454.   | 7.1  | 52        |
| 21 | Catalytic Asymmetric Synthesis of $\pm$ -Tetrasubstituted $\beta$ -Trifluoromethyl Homoallylic Amines by Ir-Catalyzed Umpolung Allylation of Imines. <i>Organic Letters</i> , 2019, 21, 6951-6956.   | 4.6  | 47        |
| 22 | Dichlorination of (Hexadehydro-Diels $\beta$ -Alder Generated) Benzyne and a Protocol for Interrogating the Kinetic Order of Bimolecular Aryne Trapping Reactions. <i>Organic Letters</i> , 2014, 16, 254-257.   | 4.6  | 43        |
| 23 | Site $\beta$ -Selective O $\beta$ -Arylation of Glycosides. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 314-318.  | 13.8 | 43        |
| 24 | Diastereo $\beta$ - and Enantioselective Propargylation of 5 <i>H</i> - $\beta$ -Thiazol $\beta$ -4 $\beta$ -ones and 5 <i>H</i> - $\beta$ -Oxazol $\beta$ -4 $\beta$ -ones as Enabled by Cu/Zn and Cu/Ti Catalysis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15217-15221.   | 13.8 | 42        |
| 25 | The Phenol $\beta$ -Ene Reaction: Biaryl Synthesis via Trapping Reactions between HDDA-Generated Benzyne and Phenolics. <i>Organic Letters</i> , 2016, 18, 5596-5599.  | 4.6  | 39        |
| 26 | Metal $\beta$ - and Base $\beta$ -Free Room $\beta$ -Temperature Amination of Organoboronic Acids with <i>N</i> -Alkyl Hydroxylamines. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9456-9460.   | 13.8 | 38        |
| 27 | Structural and functional insights into sorting nexin 5/6 interaction with bacterial effector IncE. <i>Signal Transduction and Targeted Therapy</i> , 2017, 2, 17030.  | 17.1 | 36        |
| 28 | Identification of 5-(2,3-Dihydro-1 <i>H</i> -indol-5-yl)-7 <i>H</i> -pyrrolo[2,3- <i>d</i> ]pyrimidin-4-amine Derivatives as a New Class of Receptor-Interacting Protein Kinase 1 (RIPK1) Inhibitors, Which Showed Potent Activity in a Tumor Metastasis Model. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 11398-11414.                                   | 6.4  | 33        |
| 29 | A Radical Approach to Making Unnatural Amino Acids: Conversion of C $\beta$ -S Bonds in Cysteine Derivatives into C $\beta$ -C Bonds. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2155-2159.  | 13.8 | 32        |
| 30 | Alkyl/Glycosyl Sulfoxides as Radical Precursors and Their Use in the Synthesis of Pyridine Derivatives**. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .   | 13.8 | 30        |
| 31 | Copper-Catalyzed Asymmetric Propargylation of Indolizines. <i>Organic Letters</i> , 2019, 21, 8553-8557.   | 4.6  | 28        |
| 32 | Ligand-controlled, transition-metal catalyzed site-selective modification of glycosides. <i>Carbohydrate Research</i> , 2019, 474, 16-33.  | 2.3  | 28        |
| 33 | Drug Discovery against Psoriasis: Identification of a New Potent FMS-like Tyrosine Kinase 3 (FLT3) Inhibitor, 1-(4-((1 <i>H</i> -Pyrazolo[3,4- <i>d</i> ]pyrimidin-4-yl)oxy)-3-fluorophenyl)-3-(5-( <i>tert</i> -butyl)isoxazol-3-yl)urea, That Showed Potent Activity in a Psoriatic Animal Model. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 8283-8285. | 6.4  | 27        |
| 34 | Stereoselective Preparation of <i>C</i> -Aryl Glycosides <i>via</i> Visible-Light-Induced Nickel-Catalyzed Reductive Cross $\beta$ -Coupling of Glycosyl Chlorides and Aryl Bromides. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 3025-3029.  | 4.3  | 26        |
| 35 | Enantioselective Propargylation of Polyols and Desymmetrization of <i>meso</i> 1,2 $\beta$ -Diols by Copper/Boronic Acid Dual Catalysis. <i>Angewandte Chemie</i> , 2017, 129, 7319-7323.  | 2.0  | 23        |
| 36 | A thiazole-derived oridonin analogue exhibits antitumor activity by directly and allosterically inhibiting STAT3. <i>Journal of Biological Chemistry</i> , 2019, 294, 17471-17486.   | 3.4  | 20        |

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|----|---|------|-----------|
| 37 | Intramolecular Umpolung Allylation of Imines. <i>Organic Letters</i> , 2018, 20, 5857-5860.   | 4.6  | 18        |
| 38 | Site-switchable mono-O-allylation of polyols. <i>Nature Communications</i> , 2020, 11, 5681.  | 12.8 | 18        |
| 39 | Use of a "Catalytic" Cosolvent, <i>N,N</i> -Dimethyl Octanamide, Allows the Flow Synthesis of Imatinib with no Solvent Switch. <i>Angewandte Chemie</i> , 2016, 128, 2577-2581.                       | 2.0  | 17        |
| 40 | A Concise Total Synthesis of (±)- and (ˆ)-Okilactomycin D. <i>Organic Letters</i> , 2012, 14, 828-831.  | 4.6  | 16        |
| 41 | Iridium-Catalyzed Asymmetric Umpolung Allylation of N-Fluoranyl Imines to Prepare 1,4-Disubstituted Homoallylic Amines. <i>Synlett</i> , 2017, 28, 2051-2056.   | 1.8  | 16        |
| 42 | Metal- and Base-Free Room-Temperature Amination of Organoboronic Acids with <i>N</i> -Alkyl Hydroxylamines. <i>Angewandte Chemie</i> , 2018, 130, 9600-9604.  | 2.0  | 16        |
| 43 | Synthesis of $\beta$ -Amino Esters by Iridium-Catalyzed Asymmetric Allylic Alkylation Reaction. <i>Organic Process Research and Development</i> , 2019, 23, 1758-1761.                                | 2.7  | 16        |
| 44 | Generation of Glycosyl Radicals from Glycosyl Sulfoxides and Its Use in the Synthesis of <i>C</i> -linked Glycoconjugates. <i>Angewandte Chemie</i> , 2021, 133, 389-394.                             | 2.0  | 16        |
| 45 | Doubly stereoconvergent construction of vicinal all-carbon quaternary and tertiary stereocenters by Cu/Mg-catalyzed propargylic substitution. <i>Nature Communications</i> , 2022, 13, 2457.          | 12.8 | 15        |
| 46 | A Radical Approach to Making Unnatural Amino Acids: Conversion of C-S Bonds in Cysteine Derivatives into C-C Bonds. <i>Angewandte Chemie</i> , 2021, 133, 2183-2187.                                  | 2.0  | 11        |
| 47 | Site-Selective O-Arylation of Glycosides. <i>Angewandte Chemie</i> , 2018, 130, 320-324.  | 2.0  | 8         |
| 48 | Catalytic asymmetric umpolung reaction of imines to synthesize isoindolinones and tetrahydroisoquinolines. <i>Green Synthesis and Catalysis</i> , 2021, 2, 70-73.                                     | 6.8  | 8         |
| 49 | Diastereo- and Enantioselective Propargylation of 5 H-Thiazolones and 5 H-Oxazolones as Enabled by Cu/Zn and Cu/Ti Catalysis. <i>Angewandte Chemie</i> , 2018, 130, 15437-15441.                      | 2.0  | 6         |
| 50 | Alkyl/Glycosyl Sulfoxides as Radical Precursors and Their Use in the Synthesis of Pyridine Derivatives**. <i>Angewandte Chemie</i> , 2022, 134, .   | 2.0  | 5         |
| 51 | Selective synthesis of enol ethers via nickel-catalyzed cross coupling of $\alpha$ -oxy-vinylsulfones with alkylzinc reagents. <i>Chemical Communications</i> , 2021, 57, 12273-12276.                | 4.1  | 4         |
| 52 | Synthesis of Polydiynes via an Unexpected Dimerization/Polymerization Sequence of C3 Propargylic Electrophiles. <i>Journal of the American Chemical Society</i> , 2022, 144, 8807-8817.               | 13.7 | 4         |
| 53 | Cobalt-Catalyzed Umpolung Alkylation of Imines To Generate $\beta$ -Branched Aliphatic Amines. <i>Organic Letters</i> , 2021, 23, 3818-3822.  | 4.6  | 3         |
| 54 | Abstract: Metal- and Base-Free Room-Temperature Amination of Organoboronic Acids with <i>N</i> -Alkyl Hydroxylamines ( <i>Angew. Chem.</i> 30/2018). <i>Angewandte Chemie</i> , 2018, 130, 9700-9700. | 2.0  | 0         |