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Analysis of the structural diversity, substitution patterns, and frequency of nitrogen heterocycles among U.S. FDA approved pharmaceuticals

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- 392 Palladium-Catalyzed Tandem Cyclization Strategy for the Assembly of 3-Halo -1,2,5-triarylpyrroles from N -Alkylanilines and Haloalkynes. 0
- 391 Diastereoselective Synthesis of Highly Functionalized Proline Derivatives. **2022**, 27, 6898 0
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- 389 Synthesis of chiral piperidines from pyridinium salts via rhodium-catalysed transfer hydrogenation. 1
- 388 Arylboration of Enecarbamates for the Synthesis of Borylated Saturated N-Heterocycles. 2
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- 373 A Halogen-Atom Transfer (XAT)-Based Approach to Indole Synthesis Using Aryl Diazonium Salts and Alkyl Iodides. 1
- 372 Visible-Light-Induced Cascade Cyclization of 3-(2-(Ethyne)phenyl)quinazolinones to Phosphorylated Quinolino[2,1-b]quinazolinones. 1
- 371 Four-Component Strain-Release-Driven Synthesis of Functionalized Azetidines. 0
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- 349 Catalytic arylalkylation of alkenyl amines at remote sites via directed nickel catalysis. ○
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- 341 Economical Access to Diverse Enantiopure Tetrahydropyridines and Piperidines Enabled by Catalytic Borrowing Hydrogen. ○
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- 333 Skeleton-Reorganizing Coupling Reactions of Cycloheptatriene and Cycloalkenones with Amines. 0
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293	A Copper-Catalyzed Interrupted Domino Reaction for the Synthesis of Fused Triazolyl Benzothiadiazine-1-oxides.	0
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287	Recent Applications of Trifluoromethanesulfonic Anhydride in Organic Synthesis.	0
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- 278 Pd 0 -Catalyzed Asymmetric Carbonitratation Reaction Featuring an H-Bonding-Driven AlkylPd II $\text{O}=\text{N}=\text{O}$ Reductive Elimination. ○
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- 227 Electrochemical Hydroalkylation of Quinoxalin-2(1H)-ones with Alkyl Halides. 0
- 226 Structural Evidence for Aromatic Heterocycle N_D Bond Activation via Oxidative Addition. 1
- 225 Regioselective Synthesis of Fully Substituted Fused Pyrroles through an Oxidant-Free Multicomponent Reaction. 0
- 224 Skeletal Editing: Interconversion of Arenes and Heteroarenes. 0
- 223 Involvement of the serotonergic system in the antidepressant-like effect of 1-(phenylselanyl)-2-(p-tolyl)indolizine in mice. 0
- 222 Additive Free, N-Heterocyclic Nitrenium Catalyzed Photoreduction of Cycloketone Oxime Esters. 0
- 221 Electrochemical reactor dictates site selectivity in N-heteroarene carboxylations. 4
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- 192 Chiral Iron Porphyrins Catalyze Enantioselective Intramolecular C(sp³)-H Bond Amination Upon Visible-Light Irradiation. 0
- 191 Chiral Iron Porphyrins Catalyze Enantioselective Intramolecular C(sp³)-H Bond Amination Upon Visible-Light Irradiation. 0
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- 189 Phenyl Formate as a CO Surrogate for the Reductive Cyclization of Organic Nitro Compounds to Yield Different N-Heterocycles: No Need for Autoclaves and Pressurized Carbon Monoxide. **2023**, 13, 224 0
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- 184 Recent Advances on the Synthesis of Nine-Membered N-Heterocycles. **2023**, 43, 130 1
- 183 Photocatalytic Late-Stage C-H Functionalization. 0
- 182 Photoinduced, metal- and photosensitizer-free decarboxylative C-H (amino)alkylation of heteroarenes in a sustainable solvent. 1
- 181 From the bottle: simple iron salts for the efficient synthesis of pyrrolidines via catalytic C-H bond amination. 0
- 180 Highly Efficient Construction of 2,3-Disubstituted Indoline Derivatives through [4+1] Annulation of Sulfur Ylides and o-Sulfonamido Aldimines. 1
- 179 Palladium-catalyzed four-component cascade carbonylative cyclization to access carbonyl-bridged bisheterocycles. 0
- 178 Synthesis of Multi-Substituted Pyrroles by Lewis Acid Promoted Cyclization Of N-Sulfonyl Vinylogous Carbamates and Amides. 0

- 177 Copper(I) Chloride Mediated Amination of Halobenzenes via Azides: Scope, Mechanistic Aspects, and C–N Cleavage Reactions. **2023**, 88, 1522-1532 ○
- 176 Diversification of Indoles and Pyrroles by Molecular Editing: New Frontiers in Heterocycle-to-Heterocycle Transmutation. ○
- 175 Native Amides as Enabling Vehicles for Forging sp³–sp³ Architectures via Interrupted Deaminative Ni-Catalyzed Chain-Walking. 1
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- 167 Straightforward Synthesis of 6-Aryl-2-azido-4-(trifluoromethyl)pyrimidines and Their Regioselective Copper-Catalyzed Click Cycloaddition to 6-Aryl-2-(4-phenyl-1H-1,2,3-triazol-1-yl)-4-(trifluoromethyl)pyrimidines. **2023**, 59, 164-173 ○
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- 165 Metal-Free Synthesis of Functionalized Quinolines from 2-Styrylanilines and 2-Methylbenzothiazoles/2-Methylquinolines. **2023**, 8, 6940-6944 ○
- 164 Chiral phosphoric acid-catalyzed enantioselective phosphinylation of 3,4-dihydroisoquinolines with diarylphosphine oxides. **2023**, 6, ○
- 163 Radical Bicyclization of 2-Cyanoaryl Acrylamides with Dicumyl Peroxide. **2023**, 365, 579-583 ○
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- 160 Design & synthesis of hybrid pharmacophore of β -lactam, 1,8-naphthyridine, and secondary amines; Discover their in vitro antimicrobial, anticancer properties & DFT and ADMET prediction studies. ○

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- 158 Eucalyptol: An efficient, unexplored, green media for transition metal free synthesis of 2,3-dihydroquinazolin-4(1H)-one derivatives and isoxazolone derivatives. 1-16 ○
- 157 A General and Practical Route to Functionalized BCP-Heteroaryls Enabled by Photocatalytic Multicomponent Heteroarylation of [1.1.1]Propellane. ○
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- 120 Simple and scalable electrosynthesis of 1H-1-hydroxy-quinazolin-4-ones. **2023**, 14, 2669-2675 ○
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- 82 Targeting Sterylglucosidase A to Treat *Aspergillus fumigatus* Infections. ○
- 81 Multitargeted Platinum(IV) Anticancer Complexes Bearing Pyridinyl Ligands as Axial Leaving Groups. **2023**, 62, ○
- 80 Sulfonyl-PYBOX Ligands Enable Kinetic Resolution of Ψ -Tertiary Azides by CuAAC. **2023**, 135, ○
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- 45 Domino Sonogashira coupling/metal carbene-involved annulation enabled by Pd/Cu relay catalysis: rapid assembly of indazole-containing biheteroaryls. ○
- 44 Synthesis, molecular docking and dynamics studies of pyridazino[4,5-b]quinoxalin-1(2H)-ones as targeting main protease of COVID-19. 1-13 ○
- 43 Iron-Catalyzed Trifluoromethylation of Indole-Tethered Alkene Enables Synthesis of CF₃-Containing Spiroindolenines and Tetrahydrocarbazoles. ○
- 42 A Brief Review on the Synthesis of the N-CF₃ Motif in Heterocycles. **2023**, 28, 3012 ○
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- 40 An Iridium/Aluminum Cooperative Strategy for the σ (sp³)_C-Borylation of Saturated Cyclic Amines. ○
- 39 Modular and practical diamination of allenes. **2023**, 14, ○
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- 37 Terminal Alkynes as One-Carbon Donors in [5+1] Heteroannulation: Synthesis of Pyridines via Ynimine Intermediates and Application in the Total Synthesis of Anibamine B. ○
- 36 Discovery of novel carbazole derivatives containing a 1,3,4-thiadiazole moiety as antifungal candidates. 1-5 ○
- 35 C_H Functionalization of Saturated Heterocycles Beyond the C2 Position. **2023**, 567-607 ○
- 34 Transition Metal-Catalyzed C_H Functionalization of Benzofused Azoles with Two or More Heteroatoms. **2023**, 319-356 ○

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- 30 A recyclable rhodium catalyst anchored onto a bipyridine covalent triazine framework for transfer hydrogenation of N-heteroarenes in water. ○
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- 27 Interaction Patterns of Pyrazolopyrimidines with Receptor Proteins. ○
- 26 Nickel-Catalyzed Enantioselective Reductive Arylation and Heteroarylation of Aldimines via an Elementary 1,4-Addition. ○
- 25 DFT Investigations on the Interactions Between Pyrimidine Derivatives and Ag/Au/Cu Metal Clusters: Solvation Effects and Reactivity Analysis. ○
- 24 Protodemetalation of (Bipyridyl)Ni(II)Aryl Complexes Shows Evidence for Five-, Six-, and Seven-Membered Cyclic Pathways. ○
- 23 Benzimidazole and its derivatives: Recent Advances (2020-2022). **2023**, 5, 100925 ○
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- 21 Transannular Functionalization of Multiple C(sp³)H Bonds of Tropane via an Alkene-Bridged Palladium(I) Dimer. ○
- 20 Visible-Light-Promoted C4-Selective Phosphorylation of Pyridine and Quinoline Derivatives. **2023**, 25, 2663-2668 ○
- 19 Thianthrenation-Enabled Pyrrolidin-2-yl and Tetrahydrofuran-2-yl Methylation of (Hetero)Arenes. **2023**, 25, 2606-2610 ○
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- 15 Prospects and challenges for nitrogen-atom transfer catalysis. ○
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- 11 In Situ Generation of Propadiene from 1-Cyclopropyl-1-nitrosourea for Rh(III)-Catalyzed Synthesis of Isoquinolinones and Pyridinones Containing a Methylene Functionality. ○
- 10 One-pot organocatalyzed synthesis of tricyclic indolizines. ○
- 9 Catalytic enantioselective domino alkenylation-alkynylation of alkenes: stereoselective synthesis of 5 $\overline{7}$ membered azacycles and carbocycles. ○
- 8 Bifunctional NHC-Promoted C2-Alkylation of Pyridine via Ni \overline{Al} Bimetallic-Catalyzed Hydroarylation of Unactivated Alkenes. 6068-6075 ○
- 7 Synthesis of 2,3-Disubstituted pyrroles by Lewis acid promoted cyclization of N-Sulfonyl vinylogous carbamates and amides. **2023**, 154507 ○
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- 3 DNA damage and intercalation by elinafide modified bis-naphthalimides for their anticancer activity. **2023**, 382, 121980 ○
- 2 One-Pot Synthesis of Pentasubstituted Pyridines following the Gold(I)-Catalyzed Aza \overline{Enyne} Metathesis/ $\overline{6E}$ Electrocyclization/ \overline{A} romatization Sequence. ○
- 1 Diastereoselective (3+3) Cycloaddition of Azomethine Imines with In Situ Formed Aza $\overline{oxyallyl}$ Cations from \overline{H} -Halohydroxamate. ○