Synlett

Accounts and Rapid Communications in Chemical Synthesis

December 15, 2023 • Vol. 34, 2351–2529

Special Issue

dedicated to Prof. Hisashi Yamamoto

Guest Editor: Keiji Maruoka

20

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Synlett

Accounts and
Rapid Communications
in Chemical Synthesis

2023
Vol. 34, No. 20
December II

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Total Syntheses of 2,2′-Biindolyl Alkaloids via Cyanide-Catalyzed Imino-Stetter Reaction

Cluster Account

2351

Synlett **2023**, *34*, 2351–2360
DOI: 10.1055/a-2069-3913

J. Park
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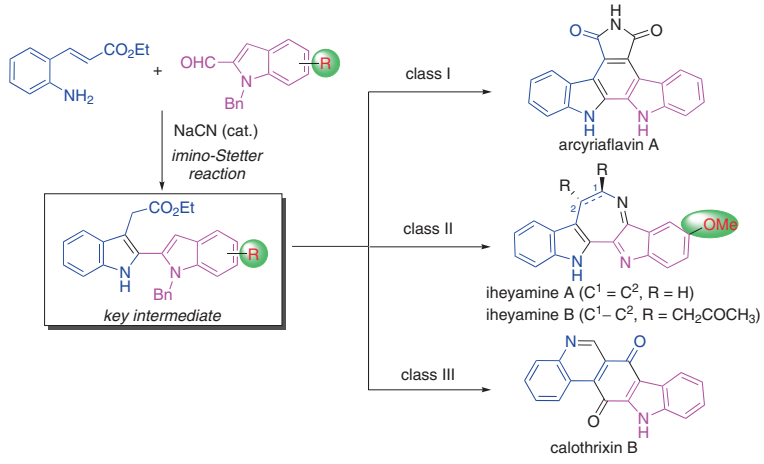

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Metal-Loaded Semiconductor-Photocatalysis of Alcohols for Selective Organic Synthesis: A Personal Account

Cluster Account

2361

Synlett **2023**, *34*, 2361–2373
DOI: 10.1055/a-2124-4037

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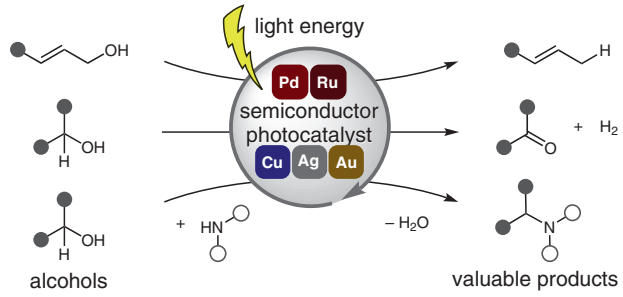

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Synthesis of Functionalized Spirooxindole Polycycles: Use of Cyclic 1,3-Diones as Reactants or as Condition-Tuning Molecules

Cluster Account

2374

Synlett **2023**, *34*, 2374–2378
DOI: 10.1055/a-2061-0855

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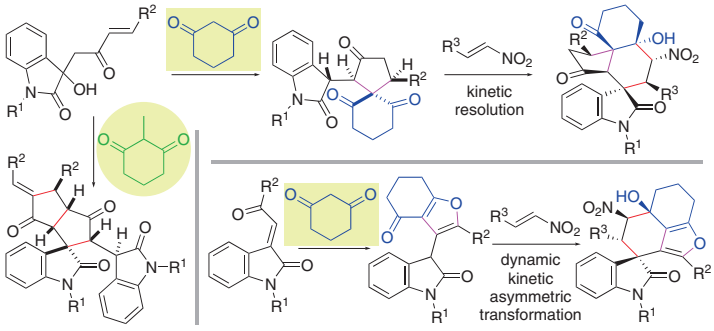

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When Aryne Chemistry Meets Organosulfur Compounds

Cluster Account

2379

Synlett **2023**, *34*, 2379–2387
DOI: 10.1055/s-0042-1751476

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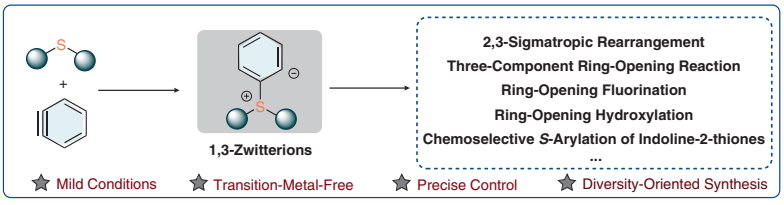

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Design of Y-Shaped Trimers of Chiral Phase-Transfer Catalysts for the Asymmetric Alkylation of Amino Acid Derivatives

Cluster

2388

Synlett **2023**, *34*, 2388–2392
DOI: 10.1055/a-2065-3962

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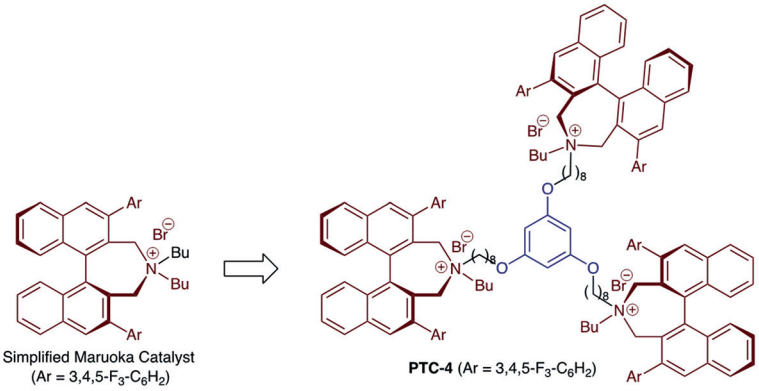

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Synlett **2023**, *34*, 2393–2395
DOI: 10.1055/a-2100-1575

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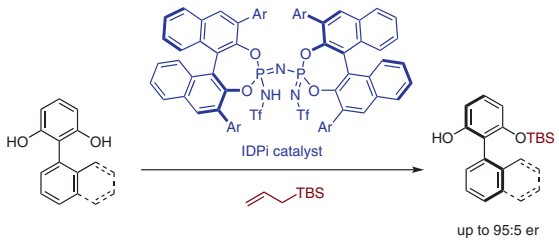
Brønsted Acid Catalyzed Asymmetric Silylation of Biaryl Diols

Cluster

2393



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Synlett **2023**, *34*, 2396–2400
DOI: 10.1055/s-0041-1738437

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M. Wang
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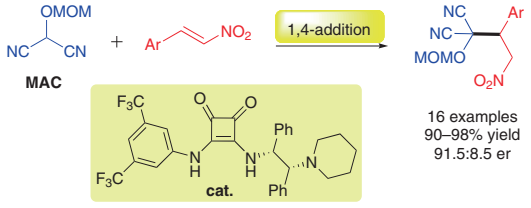
Shandong University, P. R. of China

Synthesis of (2-Nitro-1-AfAlemphenylethyl)malononitriles by Michael Addition of Masked Acyl Cyanides to Nitroalkenes

Cluster

2396



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Synlett **2023**, *34*, 2401–2404
DOI: 10.1055/a-2060-3179

S. Yamaoka
H. Fukuoka
N. Noda
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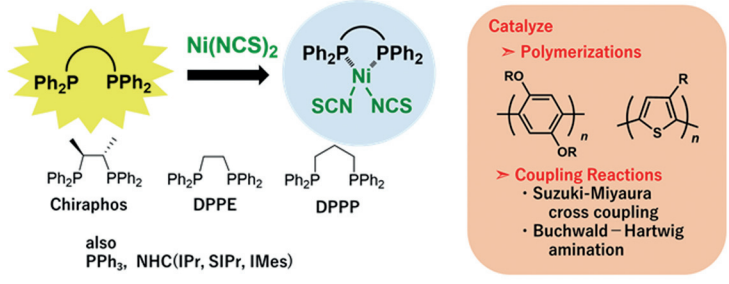
Nickel(II) Thiocyanate Complex as a Catalyst for Cross-Coupling Reactions

Cluster

2401



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Synlett **2023**, *34*, 2405–2410
DOI: 10.1055/a-2066-2879

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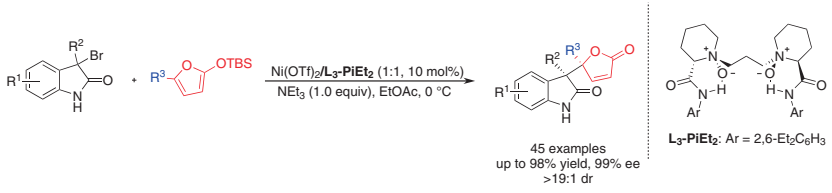
Asymmetric Synthesis of 3-Lactone-Substituted 2-Oxindoles with Vicinal Quaternary Carbon Centers through Vinylogous Conjugate Addition

Cluster

2405



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Synlett **2023**, *34*, 2411–2416
DOI: 10.1055/a-2107-5496

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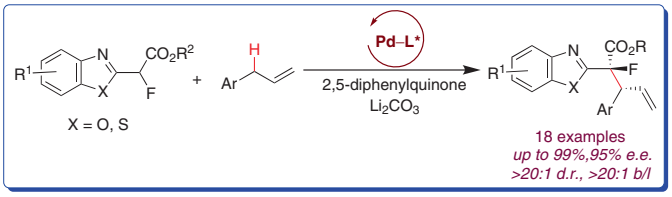
Access to Fluorinated Quaternary Stereogenic Centers via Palladium-Catalyzed Asymmetric Allylic C–H Alkylation

Cluster

2411



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Synlett **2023**, *34*, 2417–2422
DOI: 10.1055/a-2123-7565

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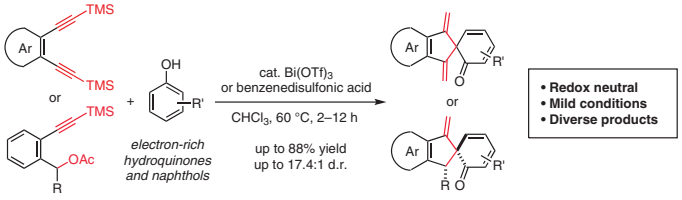
Acid-Catalyzed [4+1]-Dearomatization Spiroannulation of Hydroquinones and Naphthols

Cluster

2417



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Synlett **2023**, *34*, 2423–2428
DOI: 10.1055/a-2179-5916

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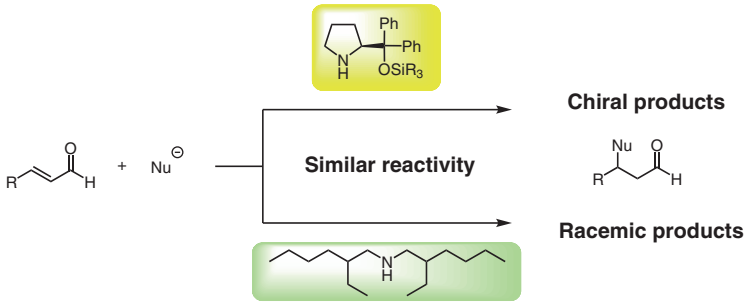
Bis(2-ethylhexyl)amine as an Effective Organocatalyst for the Racemic Reactions of α,β-Unsaturated Aldehydes Involving an Iminium Ion

Cluster

2423



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Synlett **2023**, *34*, 2429–2432
DOI: 10.1055/s-0042-1751496

Y. Zeng
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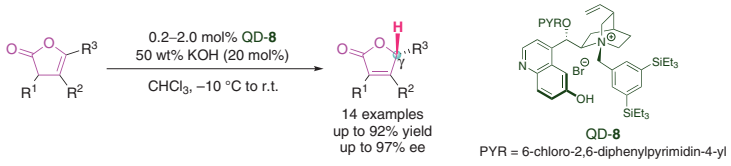
Chiral Betaine-Mediated Efficient Organocatalytic Asymmetric Isomerization of β,γ-Unsaturated Butenolides

Cluster

2429



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Synlett **2023**, *34*, 2433–2438
DOI: 10.1055/a-2103-9629

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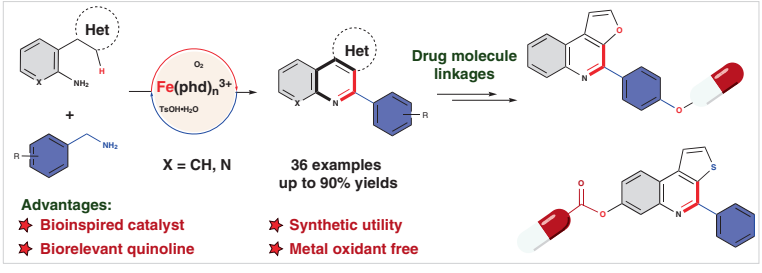
Synthesis of Furo- and Thienoquinolines by Using an Amine Oxidase-Inspired Catalyst

Cluster

2433



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DOI: 10.1055/a-2070-1767

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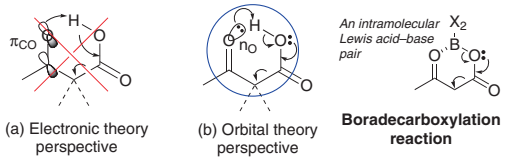
Lone Pair Participation in a Decarboxylation Reaction: A New Design of a Boradecarboxylation Reaction

Cluster

2439



The orbital theory perspective is more appropriate.

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DOI: 10.1055/a-2091-0986

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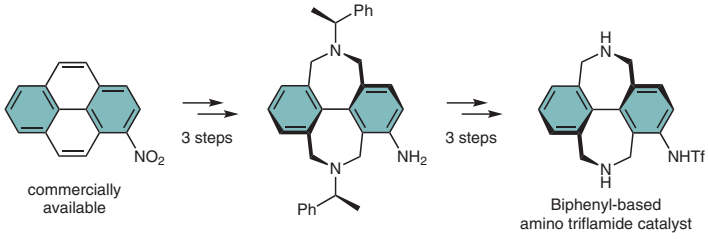
Short Synthesis of a Biphenyl-Based Amino Triflamide Catalyst and Its Application in Enamine Catalysis

Cluster

2443



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Synlett **2023**, *34*, 2447–2450
DOI: 10.1055/a-2088-9219

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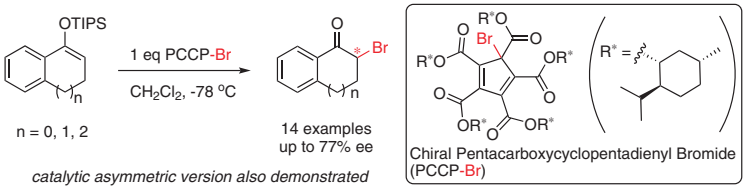
Enantioselective Bromination of Silyl Enol Ethers with Chiral Pentacarboxycyclopentadienyl Bromide

Cluster

2447



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Synlett **2023**, *34*, 2451–2454
DOI: 10.1055/s-0042-1752736

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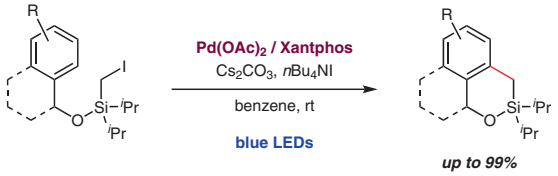
Visible-Light-Photoexcited Palladium-Catalyzed Silylmethylation of Benzyl Alcohol Derivatives

Cluster

2451



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Synlett **2023**, *34*, 2455–2460
DOI: 10.1055/a-2118-6813

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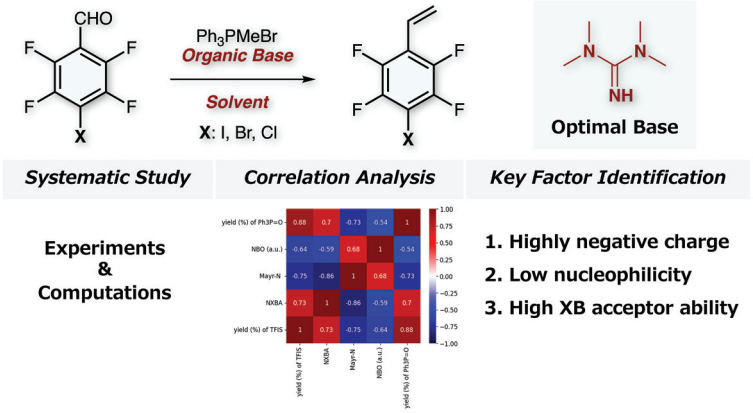
Synthesis of Halogen-Bond-Donor-Site-Introduced Functional Monomers through Wittig Reaction of Perfluorohalogenated Benzaldehydes: Toward Digitalization as Reliable Strategy in Small-Molecule Synthesis

Cluster

2455



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Synlett **2023**, *34*, 2461–2464
DOI: 10.1055/s-0042-1751478

C. Xu
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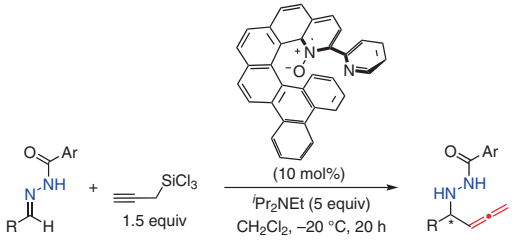
Asymmetric Allenylation of *N*-Acylhydrazones with Propargyltrichlorosilane Catalyzed by Helical Chiral 2,2′-Bipyridine *N*-Monoxide

Cluster

2461



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Synlett **2023**, *34*, 2465–2470
DOI: 10.1055/a-2102-7866

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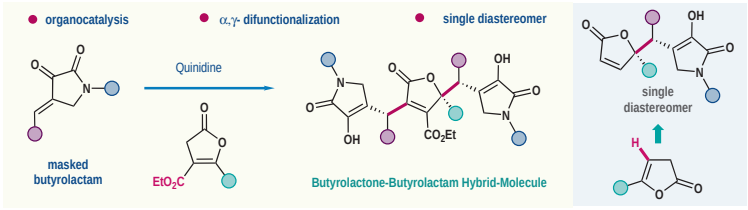
Organocatalyzed Regioselective α,γ-Difunctionalization of Deconjugated Butenolides: Synthesis of Butyrolactone–Butyrolactam Hybrid Molecules

Cluster

2465



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Synlett **2023**, *34*, 2471–2475
DOI: 10.1055/a-2077-5084

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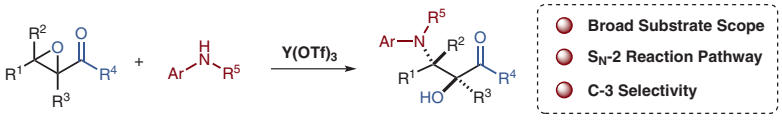
Yttrium-Catalyzed Regioselective Aminolysis of 2,3-Epoxy Esters and Amides

Cluster

2471



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Synlett **2023**, *34*, 2476–2480
DOI: 10.1055/a-2117-8816

Y. Nakahara
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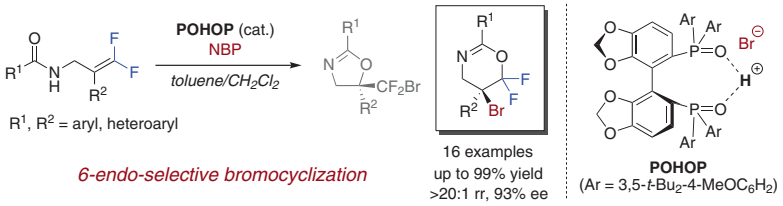
Switching Regioselectivity in the Asymmetric Bromocyclization of Difluoroalkenes Catalyzed by a Chiral Bisphosphine Oxide

Cluster

2476



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Synlett **2023**, *34*, 2481–2485
DOI: 10.1055/a-2145-5986

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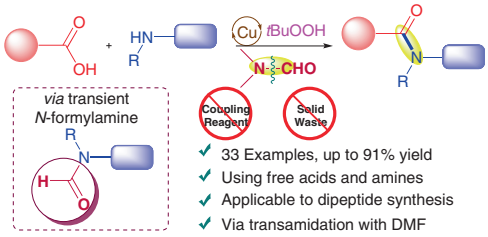
Copper-Catalyzed Construction of Amide Linkages via Coupling between Unactivated Acids and Amines

Cluster

2481



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DOI: 10.1055/s-0042-1751474

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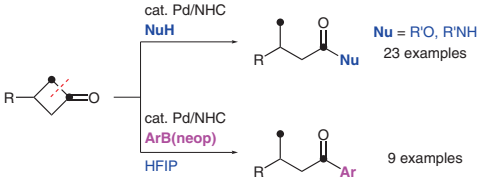
Osaka University, Japan

Palladium-Catalyzed Ring Opening of Cyclobutanones with Carbon- and Heteroatom-Centered Nucleophiles

Cluster

2486



Pd-catalyzed C–C bond functionalization via ring opening

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Synlett **2023**, *34*, 2491–2495
DOI: 10.1055/a-2108-9720

T. Sawano
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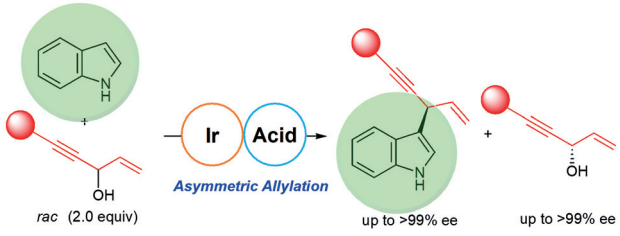
Iridium-Catalyzed Asymmetric Allylation of Indoles via Kinetic Resolution of 1-Alken-4-yn-3-ols

Cluster

2491



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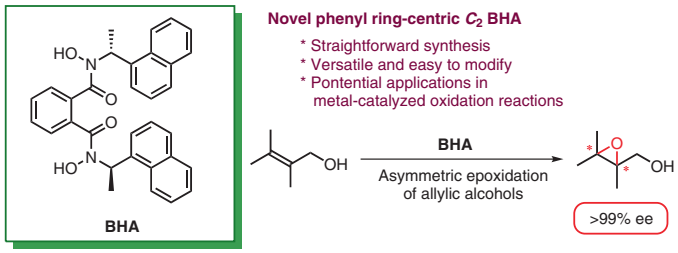
Synthesis of Novel C_2 Bishydroxamic Acid Ligands and their Application in Asymmetric Epoxidation Reactions

Cluster

2496

T. J. Pawar
M. F. Valtierra-Galvan
A. Rodríguez-Hernández
A. Reyes-Luna
I. Bonilla-Landa
O. García-Barradas
F. Barrera-Méndez
J. L. Olivares-Romero*
Clúster Científico y Tecnológico BioMimic del Instituto de Ecología, México



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Synlett **2023**, *34*, 2503–2507
DOI: 10.1055/s-0042-1751454

Smart Hydrogel Reactor of Poly(*N*-isopropylacrylamide)/Polyethylene Glycol Interpenetrating Polymer Networks for Oxidative Coupling of 2-Naphthol

Cluster

2503

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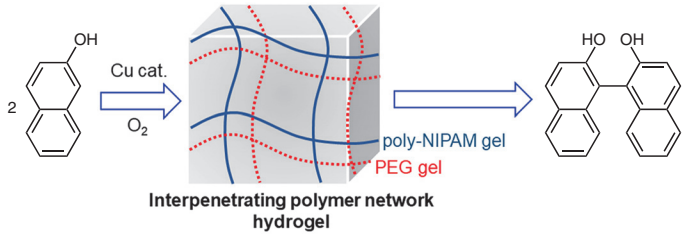

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Synlett **2023**, *34*, 2508–2514
DOI: 10.1055/s-0042-1752738

2,2′-Biphenol-Derived Phosphoric Acid Catalyst for the Dehydrative Esterification of Carboxylic Acids with Alcohols

Cluster

2508

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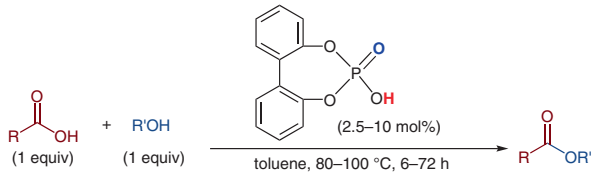

- *Simple acid-base cooperative organocatalyst*
- *Mild reaction conditions*
- *Removal of water not required*
- *Suitable for unstable substrates and products*
- *Gram-scale synthesis*

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DOI: 10.1055/a-2093-9069

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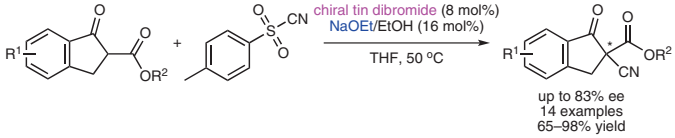
Chiba University, Japan

Asymmetric α-Cyanation of β-Keto Esters Catalyzed by Chiral Tin Alkoxides

Cluster

2515



Synlett

Synlett **2023**, *34*, 2520–2524
DOI: 10.1055/s-0042-1751472

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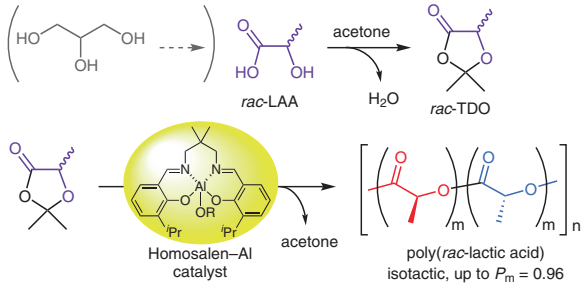
Stereoselective Ring-Opening Deacetonation Polymerization of Racemic 2,2,5-Trimethyl-1,3-dioxolan-4-one by Using Homosalen–Aluminum Complexes: A Novel Approach to Isotactic Poly(*rac*-lactic acid)

Cluster

2520



Synlett

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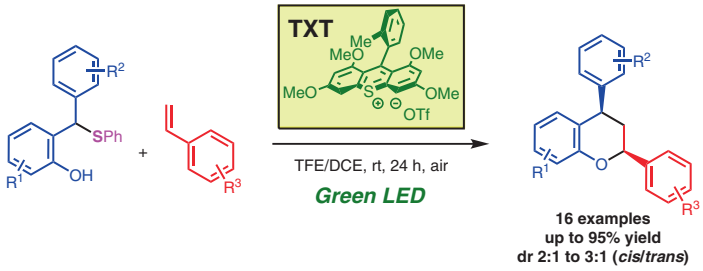
Visible-Light-Induced Oxidative Generation of *o*-Quinone Methides for Inverse-Electron-Demand [4+2] Cycloaddition Reactions

Cluster

2525



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