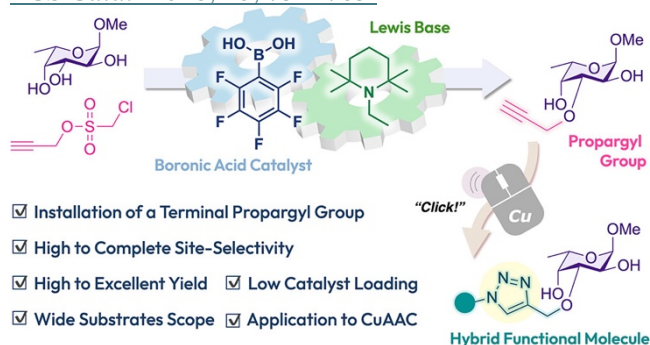


2026

Boronic Acid Catalysis for Diol Activation under Lewis Base Promotion: Site-Selective Propargylation of Carbohydrates

D. Sato, K. Nitanda, R. Nishiyori, N. Shimada*

ACS Catal. **2026**, *16*, 752–765.

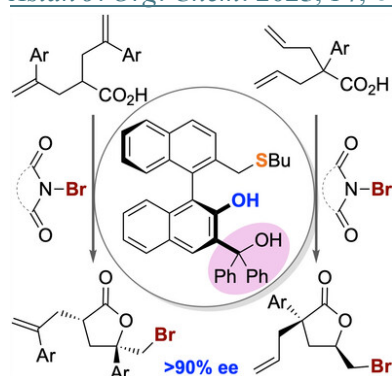


2025

Synthesis of a BINOL-Derived Sulfide Catalyst Bearing a Diphenylmethanol Unit and Its Application in Asymmetric Bromolactonizations

Y. Furuya, R. Nishiyori, S. Shirakawa*

Asian J. Org. Chem. **2025**, *14*, e00249.

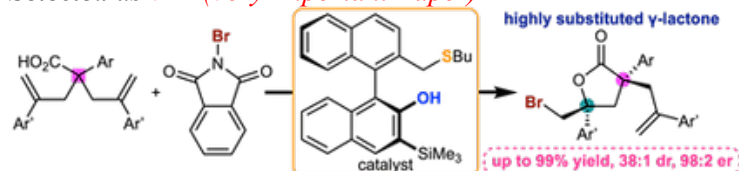


Asymmetric Synthesis of γ -Lactones Bearing α,γ -Bis-quaternary Stereocenters via Chiral Bifunctional Sulfide-Catalyzed Desymmetrizing Bromolactonization

Y. Furuya, R. Nishiyori, K. Okuno, T. Mori, S. Sumida, M. Yamakawa, and S. Shirakawa*

Asian J. Org. Chem. **2025**, *4*, e202500062.

Selected as VIP (Very Important Paper)

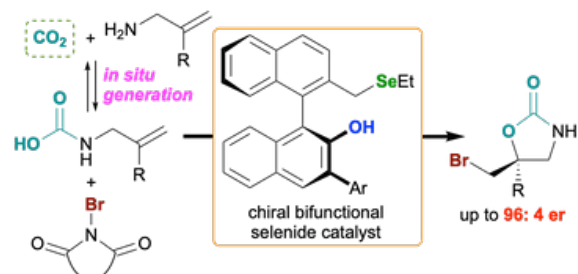


2023

Catalytic asymmetric CO₂ utilization reaction for the enantioselective synthesis of chiral 2-oxazolidinones

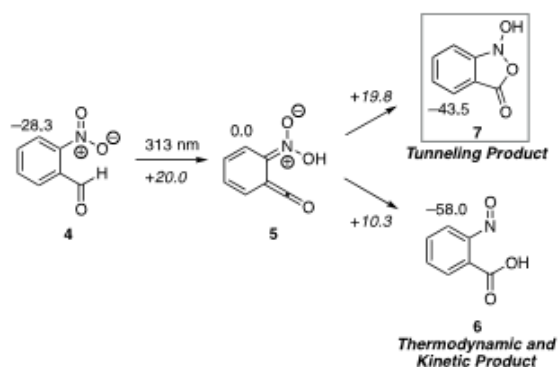
R. Nishiyori, T. Mori, and S. Shirakawa*

Org. Biomol. Chem. **2023**, *21*, 4002–4006.



トンネル効果支配：速度論および熱力学支配に次ぐ第三の反応性パラダイム
西依隆一

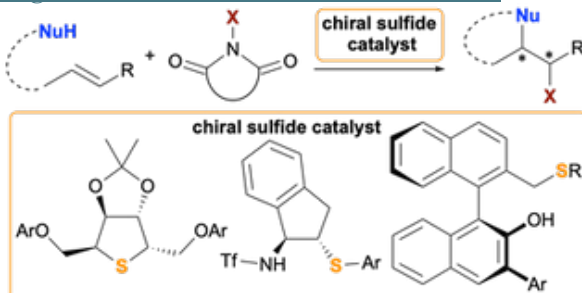
有機合成化学協会誌 **2023**, *81*, 731–732.



Chiral Sulfide and Selenide Catalysts for Asymmetric Halocyclizations and Related Reactions

R. Nishiyori, T. Mori, K. Okuno, and S. Shirakawa*

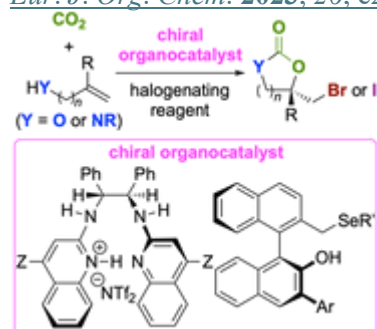
Org. Biomol. Chem. **2023**, *21*, 3263–3275.



Chiral Organocatalysts in Enantioselective CO₂ Utilization Reactions

T. Mori, R. Nishiyori, S. Sumida, Y. Furuya, and S. Shirakawa*

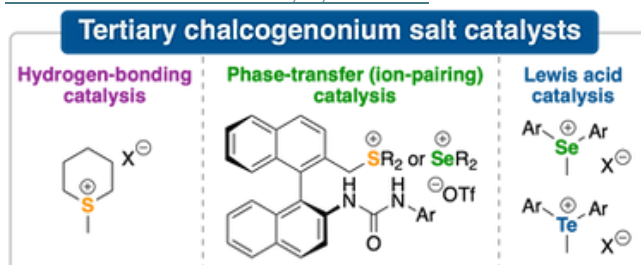
Eur. J. Org. Chem. **2023**, *26*, e202300551.



Catalysis by Tertiary Chalcogenonium Salts

K. Okuno, R. Nishiyori, and S. Shirakawa*

Tetrahedron Chem **2023**, *6*, 100037.

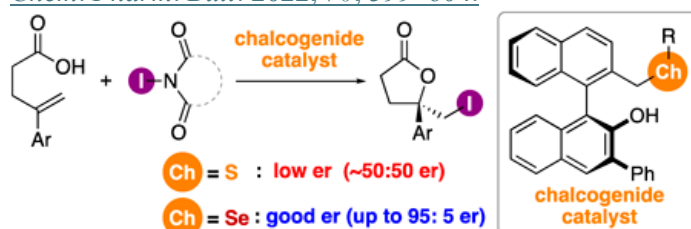


2022

Chiral Bifunctional Selenide Catalysts for Asymmetric Iodolactonizations

R. Nishiyori, K. Okuno, B. Chan, and S. Shirakawa*

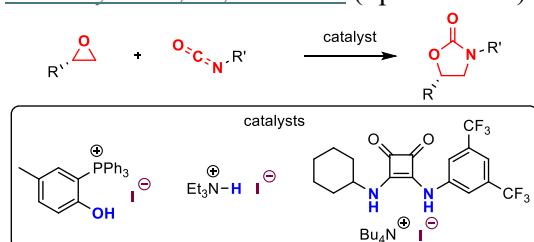
Chem. Pharm. Bull. **2022**, *70*, 599–604.



Efficient Methods for the Synthesis of Chiral 2-Oxazolidinones as Pharmaceutical Building Blocks

K. Okuno, R. Nishiyori, K. Abe, T. Mori, and S. Shirakawa*

Chirality **2022**, *34*, 915–924. (Special Issue)

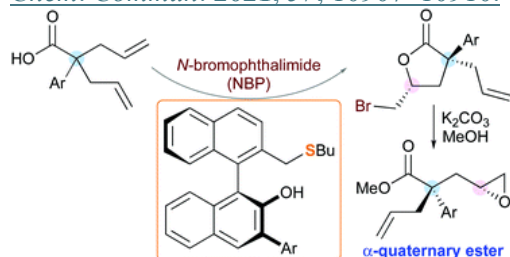


2021

Efficient Asymmetric Syntheses of α -Quaternary Lactones and Esters through Chiral Bifunctional Sulfide-Catalyzed Desymmetrizing Bromolactonization of α, α -Diallyl Carboxylic Acids

M. Hiraki, K. Okuno, R. Nishiyori, A. A. Noser, and S. Shirakawa*

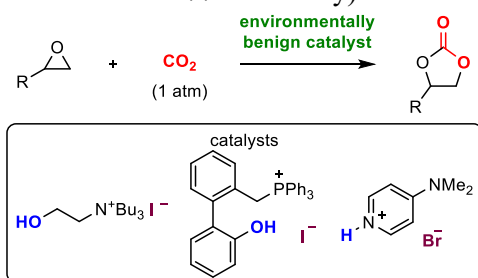
Chem. Commun. **2021**, 57, 10907–10910.



Environmentally Benign Synthesis of Cyclic Carbonates from Epoxides and Carbon Dioxide using Binary and Bifunctional Catalysts

K. Okuno, R. Nishiyori, M. Hiraki, and S. Shirakawa*

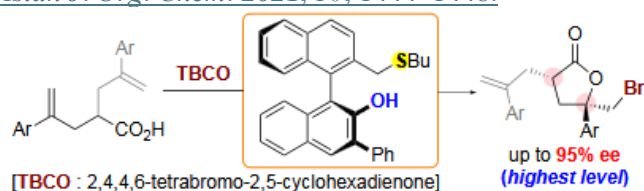
Heterocycles **2021**, 103, 94–109. (Special Issue) (Dedicated to Professor Yasuyuki Kita on the occasion of his 77th Birthday)



Chiral Bifunctional Sulfide-Catalyzed Highly Enantioselective Bromolactonizations of 4-Pentenoic Acids

R. Nishiyori, M. Okada, J. R. J. Maynard, and S. Shirakawa*

Asian J. Org. Chem. **2021**, 10, 1444–1448.



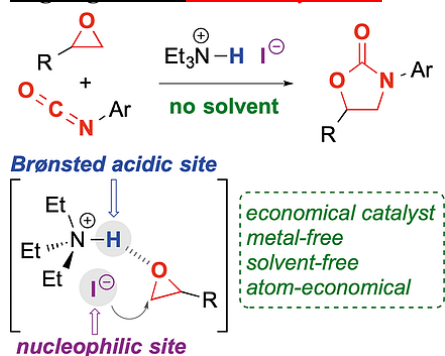
2020

Triethylamine Hydroiodide as a Bifunctional Catalyst for the Solvent-Free Synthesis of 2-Oxazolidinones

R. Nishiyori, K. Okuno, and S. Shirakawa*

Eur. J. Org. Chem. **2020**, 4937–4941.

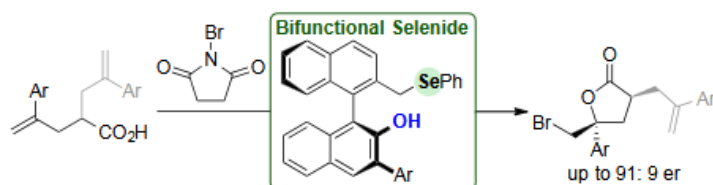
Highlighted in *ChemistryViews*



Chiral Bifunctional Selenide Catalysts for Asymmetric Bromolactonization

R. Nishiyori, J. R. J. Maynard, and S. Shirakawa*

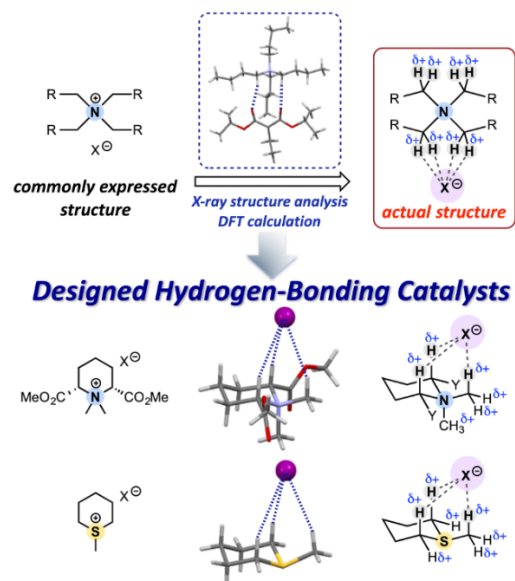
Asian J. Org. Chem. **2020**, 9, 192–196. (Special Issue) [Celebrating the 100th Annual Meeting of the Chemical Society of Japan (CSJ)]



Hydrogen-Bonding Catalysis of Alkyl-Onium Salts

T. Nakamura, K. Okuno, R. Nishiyori, and S. Shirakawa*

Chem. Asian J. **2020**, 15, 463–472. (Special Issue) [Celebrating the 100th Annual Meeting of the Chemical Society of Japan (CSJ)]



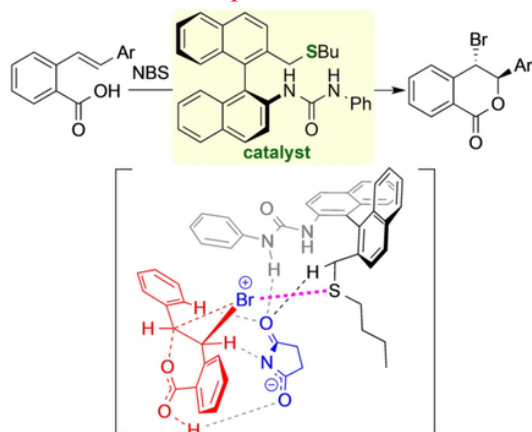
2018

Design of Chiral Bifunctional Dialkyl Sulfide Catalysts for Regio-, Diastereo-, and Enantioselective Bromolactonization

R. Nishiyori, A. Tsuchihashi, A. Mochizuki, K. Kaneko, M. Yamanaka, and S. Shirakawa*

Chem. Eur. J. **2018**, *24*, 16747–16752.

Selected as Hot Paper



KI-Tetraethylene Glycol Complex as an Effective Catalyst for the Synthesis of Cyclic Thiocarbonates from Epoxides and CS₂

M. Okada, R. Nishiyori, S. Kaneko, K. Igawa, and S. Shirakawa*

Eur. J. Org. Chem. **2018**, 2022–2027.

Selected as VIP (Very Important Paper) in EJOC

