

Science of Synthesis

The only full-text resource for evaluated methods in synthetic organic chemistry!

- Want a comprehensive overview of a certain topic?
- Need to find the right synthetic route quickly?
- Looking to save time when planning a synthesis?
- Eager to start with a synthesis immediately?

The screenshot shows the search interface of the Science of Synthesis database. It includes a search bar with a 'Text Search' button and a 'Structure/Reaction Search' button. Below the search bar, there are several icons representing different search functions. The interface is clean and user-friendly, with a blue header and a white background.

The screenshot shows the results page for a search query. The main result is titled '2.4.1.1 Kinetic Resolution of Secondary Alcohols via Transfer Hydrogenation'. It includes a chemical reaction scheme showing the conversion of a secondary alcohol to a ketone using a chiral catalyst and a transfer hydrogenation reagent. The reaction conditions are specified as 0.25 equiv. of the catalyst and 100°C. The product is a chiral ketone.

The screenshot shows the full-text article page for '8.2.2.3 Iridium-Catalyzed Oxidative Kinetic Resolution and Desymmetrization of Alcohols'. The article is by Saito, B. N.; Wright, A. C.; Elmer, D. C.; Park, N., published in Science of Synthesis: Catalytic Oxidation in Organic Synthesis, 2012, 8, 325. The article includes a chemical reaction scheme showing the oxidative kinetic resolution of a secondary alcohol to a ketone using an iridium catalyst. The reaction conditions are 0.25 equiv. of the catalyst and 100°C. The product is a chiral ketone. Below the reaction scheme, there is a table with columns for Substrate, Time (h), Product, Conversion (%), Yield (%), and Ref.

Substrate	Time (h)	Product	Conversion (%)	Yield (%)	Ref
<chem>Ph-CH(OH)-Ph</chem>	96	<chem>Ph-CO-Ph</chem>	40	31	90 [10]

When:

Tuesday, October 8th at 14:30

Where:

Room 9, Dept. of Industrial Chemistry
"Toso Montanari"

University Contact for More Information:

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Bring your own laptop to try it out for yourself!



Presenter:
Dr. Giuliana Rubulotta
Assistant Scientific Editor
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