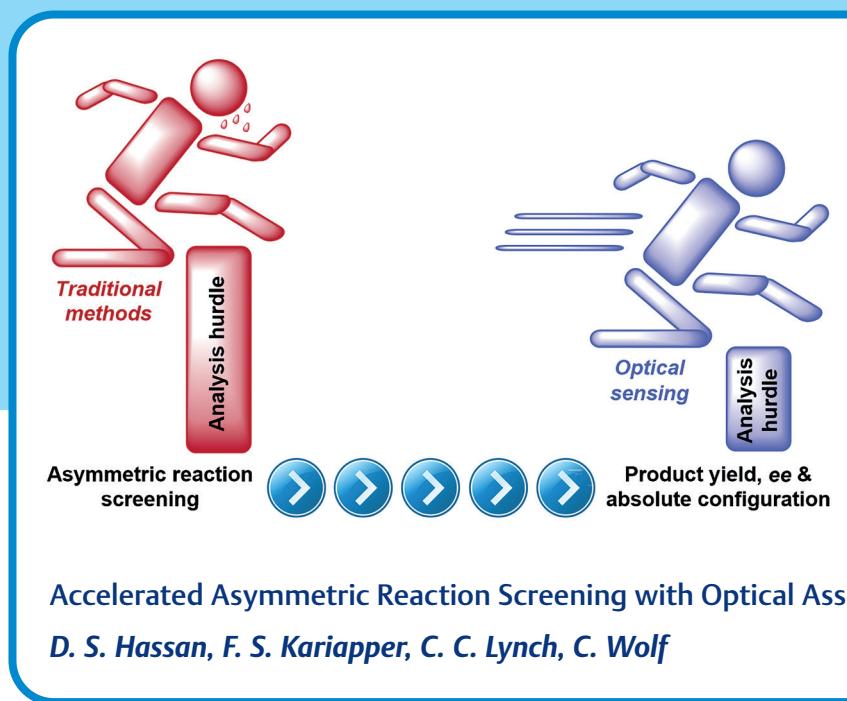


# Synthesis

Reviews and Full Papers in Chemical Synthesis

June 1, 2022 • Vol. 54, 2527–2730



11

 Thieme

## Synthesis

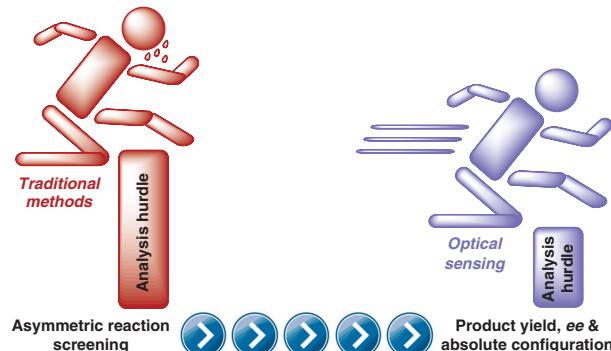
## Accelerated Asymmetric Reaction Screening with Optical Assays

## Short Review

2527

Synthesis 2022, 54, 2527–2538  
DOI: 10.1055/a-1754-2271

D. S. Hassan  
F. S. Kariapper  
C. C. Lynch  
C. Wolf\*  
Georgetown University, USA



## Synthesis

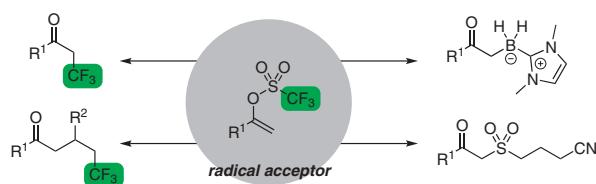
## Recent Advances in Radical Reactions of Vinyl Triflates and Their Derivatives

## Short Review

2539

Synthesis 2022, 54, 2539–2547  
DOI: 10.1055/a-1765-7383

T. Kawamoto\*  
A. Kamimura  
Yamaguchi University, Japan



Y. Zheng

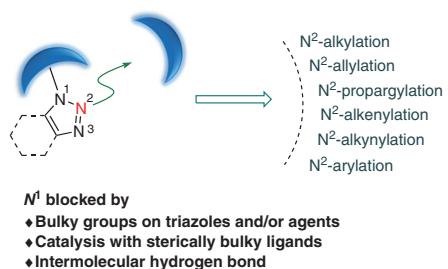
L. Tian

V. Ramadoss

H. Zhang

L.-L. Zhu\*

Y. Wang\*

Nanjing Tech University,  
P. R. of China  
Zhoukou Normal University,  
P. R. of China

Y.-Y. Liu

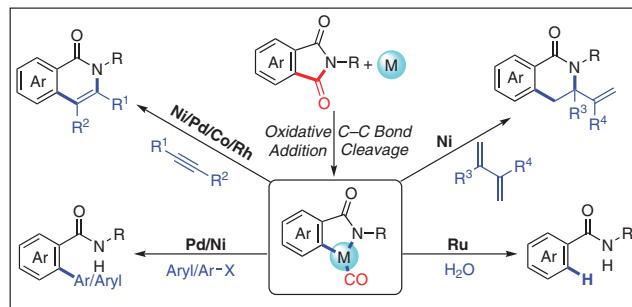
S.-H. Sun

X.-T. Min\*

B. Wan

Q.-A. Chen\*

Dalian Institute of Chemical Physics, P. R. of China



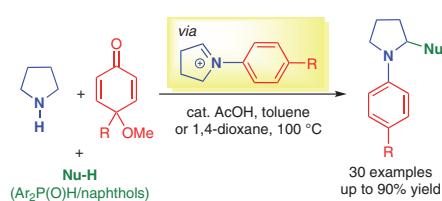
X. Li

Y. Xie

K. Yin

R. Shen\*

D. Zhu

Nanjing Tech University,  
P. R. of China

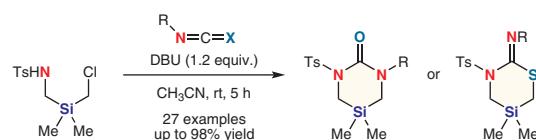
**Synthesis**

*Synthesis* 2022, 54, 2585–2594  
DOI: 10.1055/a-1748-6564

**Addition/Substitution Approach of  $\text{TsNHCH}_2\text{SiMe}_2\text{CH}_2\text{Cl}$  with Isocyanates or Isothiocyanates To Construct 1,3,5-Diazasilinan-2-ones or 1,3,5-Thiazasilinan-2-imines****Feature**

2585

**Y. Li**  
**T. Hu**  
**L. Gao\***  
**Z. Song\***  
Sichuan University,  
P. R. of China

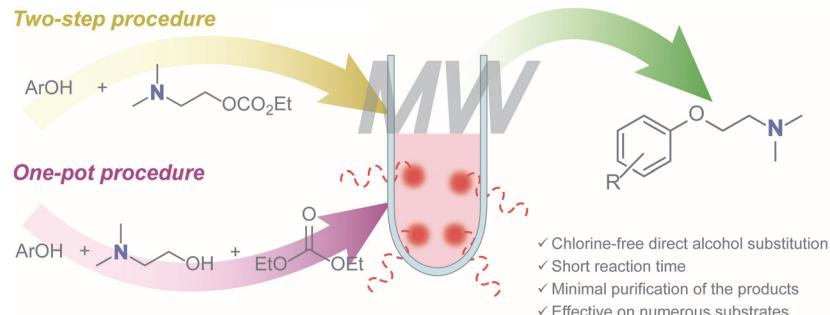
**Synthesis**

*Synthesis* 2022, 54, 2595–2603  
DOI: 10.1055/a-1742-3723

**Microwave-Assisted Aminoalkylation of Phenols via Mustard Carbonate Analogues****Feature**

2595

**M. Viviano**  
**G. Trapasso**  
**M. Annatelli**  
**C. Milite**  
**S. Castellano**  
**F. Aricò\***  
Ca' Foscari University of Venice,  
Italy

**Synthesis**

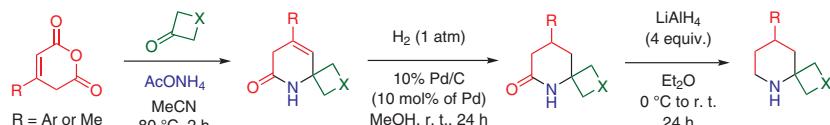
*Synthesis* 2022, 54, 2604–2615  
DOI: 10.1055/s-0040-1719878

**A General Approach to Spirocyclic Piperidines via Castagnoli–Cushman Chemistry****PSP**

2604

**A. A. Peshkov**  
**A. Makhmet**  
**O. Bakulina**  
**E. Kanov**  
**R. Gainetdinov**  
**V. A. Peshkov**  
**D. Dar'in**  
**M. Krasavin\***

Saint Petersburg State University,  
Russian Federation  
Immanuel Kant Baltic Federal  
University, Russian Federation



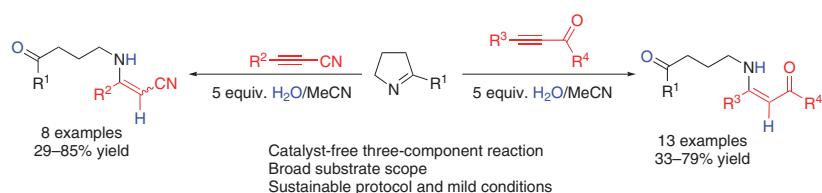
J. Dong\*

Y. Chen

X. Huang\*

Yancheng Teachers University,  
P. R. of ChinaF. Parpal  
A. P. Paullier  
E. Pandolfi  
V. Heguaburu\*Universidad de la Repùblica,  
UruguayL. A. Oparina  
A. G. Mal'kina  
N. A. Kolyvanov  
I. A. Ushakov  
I. V. Saly  
K. A. Apartsin  
B. A. Trofimov\*

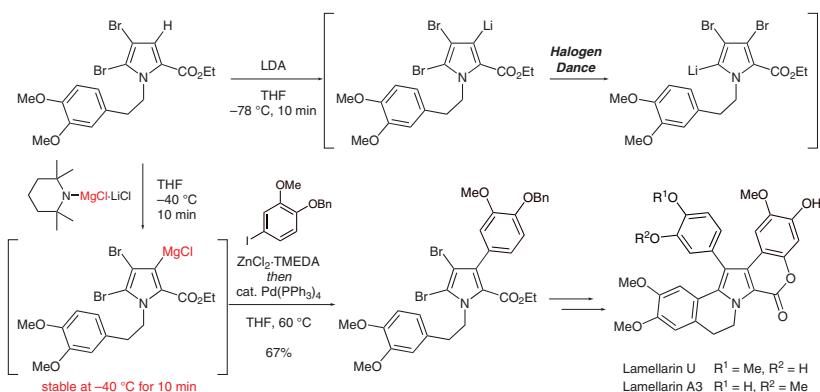
A.E. Favorsky Irkutsk Institute of Chemistry, Russian Federation



Synthesis 2022, 54, 2647–2660  
DOI: 10.1055/a-1736-7337

Y. Okui  
Y. Yasuda  
A. Mori  
K. Okano\*

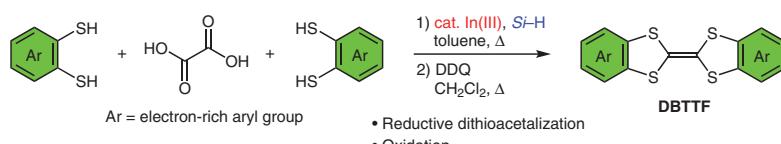
Kobe University, Japan



Synthesis 2022, 54, 2661–2668  
DOI: 10.1055/a-1742-2821

N. Sakai\*  
K. Minato  
S. Nakata  
Y. Ogiwara

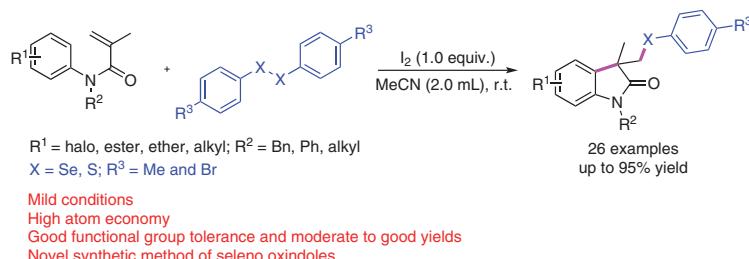
Tokyo University of Science  
(RIKADAI), Japan



Synthesis 2022, 54, 2669–2676  
DOI: 10.1055/a-1739-5042

H. Jiang  
H. Shen  
C. Li  
Z. Jin  
Y. Shang  
Y. Chen  
M. Yi  
J. Du\*  
Q.-W. Gui\*

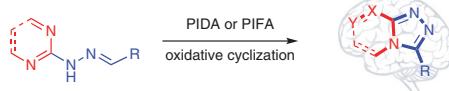
Hunan Agricultural University,  
P. R. of China  
Shenzhen University,  
P. R. of China  
Hunan Optical Agriculture Engineering Technology Research Center, P. R. of China



Synthesis 2022, 54, 2677–2686  
DOI: 10.1055/s-0040-1719907

P. O. Serebrennikova  
I. A. Utepova\*  
O. N. Chupakhin  
I. V. Guzhova  
E. R. Mikhaylova  
A. P. Antonchick

Ural Federal University, Russian Federation  
Postovsky Institute of Organic Synthesis, Russian Federation

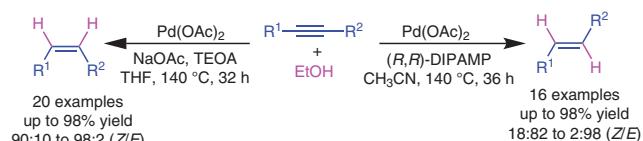


- 24 examples containing heterocyclic and metallocene fragments
- HSF1 inductors
- may be applied as a protective factor for brain diseases

Synthesis 2022, 54, 2687–2695  
DOI: 10.1055/a-1736-8721

C. Wang\*  
J. Dong  
T. Li  
X. Zhao  
D. Xu\*

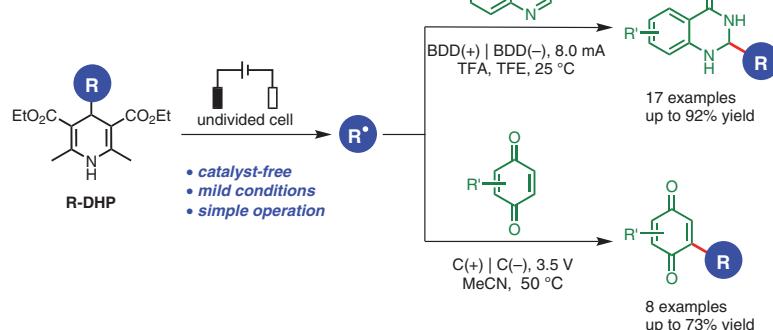
Nantong University,  
P. R. of China  
Affiliated Hospital 2 of Nantong  
University, P. R. of China



- Ethanol as a hydrogen source
- Ligand/additive and solvent control
- Good yield
- *E/Z* Selectivity
- Wide substrate scope

Synthesis 2022, 54, 2696–2706  
DOI: 10.1055/a-1737-2765

X. Luo  
Q. Feng\*  
P. Wang\*  
Shanghai Jiao Tong University,  
P. R. of China



J. Fu

X. Cai

Y. Liu

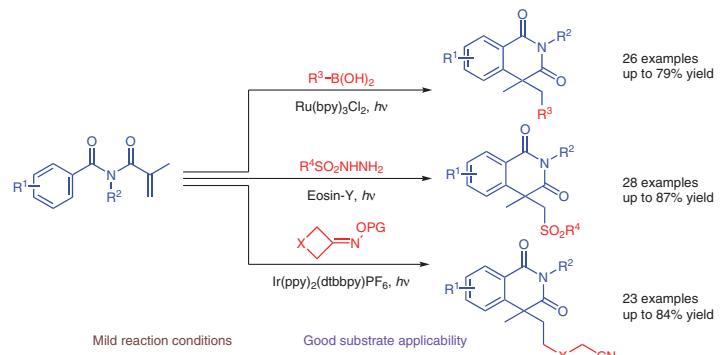
J. Li

D. Cheng\*

X. Xu\*

Zhejiang University of Technology, P. R. of China

## Synthesis of Isoquinoline-1,3(2*H*,4*H*)-diones by Visible-Light-Mediated Cyclization of Acryloylbenzamides with Alkylboronic Acids, Arylsulfonyl Hydrazides and Oxime Esters



A. S. Maksimenko

P. A. Buikin

E. D. Daeva

V. P. Kislyi\*

V. V. Semenov

N. D. Zelinsky Institute of Organic Chemistry, Russian Federation

## Preparation of Ring-Methoxylated Arylnitromethanes by the Victor Meyer Reaction

