# Syn lett

Accounts and Rapid Communications in Chemical Synthesis

January 4, 2022 • Vol. 33, 1–102

Editorial written by Benjamin List

## **Includes Editiorial Board Cluster Articles**



α-Cationic Phosphines:from Curiosities to Powerful Ancillary LigandsC. J. Rugen, M. Alcarazo





Accounts and Rapid Communications in Chemical Synthesis 2022 Vol. 33, No. 1 January I

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X. Li

University of Hong Kong, P. R. of China



Synlett **2022**, 33, 34–37 DOI: 10.1055/a-1659-7656

R. Padilla K. P. Vollhardt\* K. N. Houk J. J. Wong University of California at Berkeley, USA Bis( $\eta^5$ -cyclopentadienyl)[ $\mu$ -(4b,5,5a- $\eta^3$ :9b,10,10a- $\eta^3$ )-2,3,7,8tetrakis(trimethylsilyl)benzo[3,4]cyclobuta[1,2-*b*]biphenylene]-*syn*-dicobalt (Co–Co), a Dinuclear  $\pi$ -Complex of the Linear [3]Phenylene Framework



Cluster



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Synlett **2022**, 33, 40–44 DOI: 10.1055/a-1675-0018

T. Suzuka

R. Niimi Y. Uozumi\*

Institute for Molecular Science (IMS), Japan





# B. List\*

Max-Planck-Institut für Kohlenforschung, Germany





 $R^1 = Me, n-Hex, CH_2Cp, (CH_2)_3OTBS, (CH_2)_3Phth, (CH_2)_3OCOPh$  $R^2 = H$ , Me R<sup>3</sup> = Ph, Me R = -(CH<sub>2</sub>)<sub>5</sub>-, n-Bu, allyl

Cluster

### Syn**lett**

Synlett **2022**, 33, 48–51 DOI: 10.1055/a-1659-6521

H. G. Roth D. A. Nicewicz\* University of North Carolina at Chapel Hill, USA



# Cluster

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Synlett	Pd-Catalyzed Arylation of 1,2-Amino Alcohol Derivatives via	Cluster
Synlett <b>2022</b> , 33, 52–56 DOI: 10.1055/a-1699-4766	β-Carbon Elimination	52
M. Sau M. A. Pericàs* R. Martin* Institute of Chemical Research of Catalonia (ICIQ), the Barcelona Institute of Science and Technol- ogy (BIST) and Universitat de Barcelona, Spain	$\begin{array}{c} \begin{array}{c} \begin{array}{c} Het \\ R^{3} \\ Het \\ R^{3} \\ Het \\ R^{3} \\ Het \\ R^{3} \\ Het \\ R^{2} \\ R^{3} \end{array} \begin{array}{c} \begin{array}{c} \end{array} \\ Het \\ R^{2} \\ Het \\ He \\ R^{2} \\ He \\ R^{2} \\ R^{3} \\ He \\ R^{2} \\ R^{3} $	

Synlett Suzuki-Miyaura Cross-Coupling Reaction with Potassium Aryltrifluo-Letter roborate in Pure Water Using Recyclable Nanoparticle Synlett 2022, 33, 57–61 57 Catalyst DOI: 10.1055/a-1661-3152 M. Kawase K. Matsuoka Ar<sup>1</sup>-Br T. Shinagawa Ar<sup>1</sup>-Ar<sup>2</sup> G. Hamasaka Ar<sup>2</sup>-BF<sub>3</sub>K 18 examples Y. Uozumi 23-98% yield O. Shimomura in water

Osaka Institute of Technology, Japan 
$$\label{eq:article} \begin{split} & \text{Ar}^1 = 4-\text{MeOC}_6\text{H}_4, \ 4-\text{F}_3\text{CC}_6\text{H}_4, \ 1-\text{naphthyl}, \ 2-\text{thienyl}, \ 2-\text{pyridyl}, \ \text{etc.} \\ & \text{Ar}^2 = 4-\text{MeOC}_6\text{H}_4, \ 4-\text{F}_3\text{CC}_6\text{H}_4, \ 2-\text{MeC}_6\text{H}_4, \ \text{etc.} \end{split}$$



Letter

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**Synlett** 

H. Gan

C. Feng

L. Zhao

M. Cao

H. Wu

China

Synlett 2022, 33, 70-75

DOI: 10.1055/a-1665-8562

Nanjing Tech University, P. R. of

T

S<sub>8</sub>-Mediated Cyclization of Bis(2-aminophenyl) Disulfide/Diselenide

S (2 equiv)

NaHCO<sub>3</sub> (2 equiv)

DMF, 110 °C or

NMP. 130 °C

transition-metal-free
readily available starting materials

azoles/benzoselenazoles

X = S, Se

with Arylacetylenes/Styrenes: Access to 2-(Arylmethyl)-1,3-benzothi-

R

51 examples

up to 94%



Synlett	Enantioselective Synthesis of the Sex Pheromone of Lichen Moth,	Letter
Synlett <b>2022</b> , 33, 80–83 DOI: 10.1055/s-0040-1719835	Miltochrista calamine, and Its Diastereomer	80
G. Yuan J. Liu S. Yu	$BnO \longrightarrow O \\ OH + HN \longrightarrow S \\ Bn''s BnO \longrightarrow S \\ S$	
X. Wang Q. Bian M. Wang J. Zhong*	$4 \text{ steps} \qquad \qquad$	
China Agricultural University, P. R. of China		



XIII



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No additional catalysts or reagents

electrophilic amination

Nucleophilic amination complementary to





Good regioselectivity

Amination reagent used is inexpensive, commercially available and less toxic

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R.-S. Zhou C. Cai\*

Synlett 2022, 33, 88-92

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Letter