# Synthesis

Reviews and Full Papers in Chemical Synthesis

2018 Vol. 50, No. 17 September I







Syn <mark>thesis</mark>	Oxidative Kinetic Resolution of Some Naphtholic Alcohols Mediated by
Synthesis <b>2018</b> , 50, 3322–3332 DOI: 10.1055/s-0037-1610214	a Chiral Hypervalent lodine Reagent
N. Jain	R <sup>1</sup> NHCOMes I NHCOMes





Syn <mark>thesis</mark>	Multigram Synthesis of Thallium Trispyrazolylborate Compounds	PSP
Synthesis <b>2018</b> , 50, 3333–3336 DOI: 10.1055/s-0037-1610106		3333
A. Olmos* A. Pereira T. R. Belderrain P. J. Pérez*	$TIBH_2 + 3 \underset{R^2}{\overset{N-N}{\underset{R^2}}} \overset{N}{\underset{R^3}} \overset{R^2}{\underset{R^3}} \overset{N}{\underset{R^3}} \overset{R^2}{\underset{R^3}} \overset{N}{\underset{R^3}} \overset{R^2}{\underset{R^3}}$	
Universidad de Huelva, Spain	$ \begin{array}{c} \mbox{MULTIGRAM SCALE} \end{array} \begin{array}{c} R^1 = R^2 = R^3 = Br, & Tp^{Br3} \\ R^1 = R^2 = H; \ R^3 = 2,4,6 \mbox{-}Me_3 C_6 H_2, & Tp^{Ms} \\ R^1 = R^3 = Me; \ R^2 = Br, & Tp^{*,Br} \end{array} $	

Feature



VII

Syn thesis Synthesis of Isothiocineole and Application in Multigram-Scale Sulfur Ylide Mediated Asymmetric Epoxidation and Aziridination Synthesis 2018, 50, 3337-3343

**PSP** 3337

### M. P. Ó Fearraigh J. V. Matlock O. Illa E. M. McGarrigle\* V. K. Aggarwal\* University College Dublin, Ireland University of Bristol, UK

DOI: 10.1055/s-0037-1609580



## Syn thesis

Synthesis 2018, 50, 3344–3345 DOI: 10.1055/s-0037-1610825

Special Topic Cover Page: Photoredox Methods and their Strategic	Special Topic
Applications in Synthesis	3344



# Syn thesis

Synthesis 2018, 50, 3346-3358 DOI: 10.1055/s-0037-1610085

E. H. Oh H. J. Kim\* S. B. Han\*

Korea Research Institute of Chemical Technology, Republic of Korea University of Science and Technology, Republic of Korea



Recent Developments in Visible-Light-Catalyzed Multicomponent

(Y = OH, N<sub>3</sub>, CI, Ar, etc.)

**Special Topic** 3346

VIII





IX

## Synthesis Photoorganocatalytic Atom Transfer Radical Addition of Bromoacetonitrile to Aliphatic Olefins Synthesis 2018, 50, 3395-3401 DOI: 10.1055/s-0037-1610138 Photoorganocatalytic Atom Transfer Radical Addition of Bromoacetonitrile to Aliphatic Olefins E. Voutyritsa N. F. Nikitas M. K. Apostolopoulou Image: CFL lamps



# Br CFL lamps sodium ascorbate MeCN/MeOH 16 h 15 examples, 25–97% yield





**Special Topic** 



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Syn thesis Iridium-Catalysed C-H Borylation of 2-Pyridones; Bisfunctionalisation Paper of CC4 Synthesis 2018, 50, 3420-3429 3420 DOI: 10.1055/s-0036-1591594 A. Honraedt [lr(cod)(OMe)]2 W. Niwetmarin dtbpy C. Gotti B<sub>2</sub>pin<sub>2</sub> THF, 24 h, reflux H. R. Campello\* R = HC = Bpir X = Br. T. Gallagher\* R = H, Me, Bn, Boc (-)-cytisine (R = H) University of Bristol, UK [Ir(cod)(OMe)]<sub>2</sub> dtbpy B<sub>2</sub>pin<sub>2</sub> THF, 24 h, reflux 100%

′ = Bpin/Br -

Y = variou

Y = Bpin

Y = Br

Ö CC4



Syn <mark>thesis</mark>	Brønsted Acid Catalyzed Dehydrative Arylation of 4-Indolylmethanols	Paper
Synthesis <b>2018</b> , 50, 3436–3444 DOI: 10.1055/s-0037-1609732	with Indoles: Efficient Access to IndolyI-Substituted TriaryImethanes	3436
JX. Liu ZQ. Zhu L. Yu BX. Du* GJ. Mei* F. Shi* Jiangsu Normal University,	$\begin{array}{c} R \\ \downarrow \\ H \end{array} + R^{1} \\ H \\ H \end{array} + R^{1} \\ H \\ $	



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# Syn thesis

Synthesis **2018**, 50, 3445–3459 DOI: 10.1055/s-0036-1592005

#### C. Cruz-Hernández P. E. Hernández-González E. Juaristi\*

Centro de Investigación y de Estudios Avanzados, Mexico

## Proline-Glycine Dipeptidic Derivatives of Chiral Phosphoramides as Organocatalysts for the Enantiodivergent Aldol Reaction of Aryl Aldehydes and Isatins with Cyclohexanone in the Presence of Water

Paper 3445











X. Jia\* Shanghai University, P. R. of China Huaibei Normal University, P. R. of China



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XII



A. lazzetti\*

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XIV



## Syn thesis

Synthesis **2018**, 50, 3540–3548 DOI: 10.1055/s-0036-1591591

S. E. Shetgaonkar F. V. Singh\* VIT University, India



Paper