

Synthesis

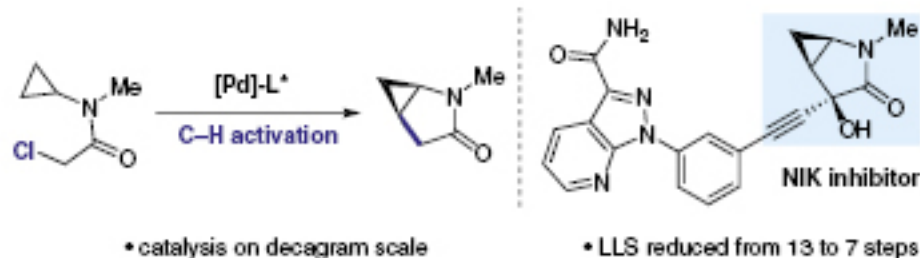
Reviews and Full Papers in Chemical Synthesis

November 17, 2020 • Vol. 52, 3295–3492

Special Topic

Synthesis in Industry

Editor: Franziska Schoenebeck



Synthesis of an Azabicyclo[3.1.0]hexanone-Containing Inhibitor of NF- κ B Inducing Kinase via Catalytic C-H Activation

J. J. Crawford, D. Liao, A. Kolesnikov, W. Lee, M. L. Landry

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Synthesis

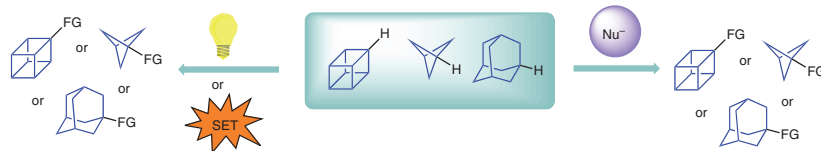
Synthetic Advances in the C–H Activation of Rigid Scaffold Molecules

Review

Synthesis 2020, 52, 3295–3325
DOI: 10.1055/s-0040-1707884

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3295

Synthesis

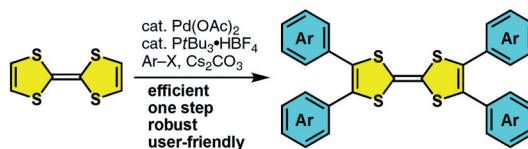
Catalytic C–H Arylation of Tetrathiafulvalenes for the Synthesis of Functional Materials

Short Review

Synthesis 2020, 52, 3326–3336
DOI: 10.1055/s-0040-1707256

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Altering photophysical and electrochemical properties
Introducing anchors for assembling into functional MOFs and COFs
Creating multiredox molecular systems

3326

Synthesis

Asymmetric Synthesis of C₁-Chiral THIQs with Imines in Isoquinoline Rings

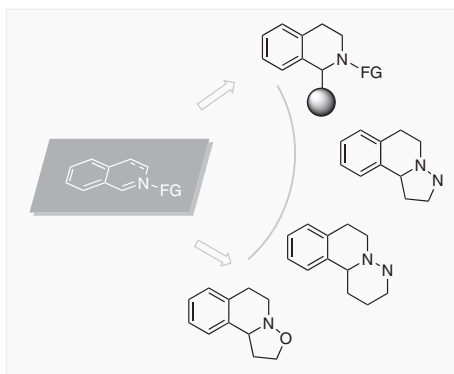
Short Review

3337

Synthesis 2020, 52, 3337–3355
DOI: 10.1055/s-0040-1707206

D. Li*
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Synthesis

One-Pot Synthesis of γ -Azidobutyronitriles and Their Intramolecular Cycloadditions

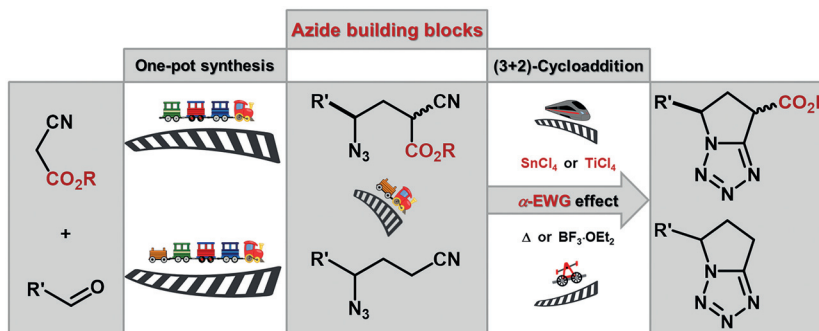
Feature

3356

Synthesis 2020, 52, 3356–3373
DOI: 10.1055/s-0040-1706402

K. L. Ivanov
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F. O. Tukhtaeva
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Synthesis

A Catalyst-Free, Temperature-Driven One-Pot Synthesis of 1-Adamantylhydrazine Hydrochloride

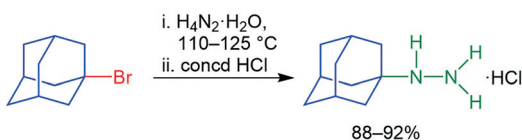
PSP

3374

Synthesis 2020, 52, 3374–3377
DOI: 10.1055/s-0040-1707353

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Synthesis

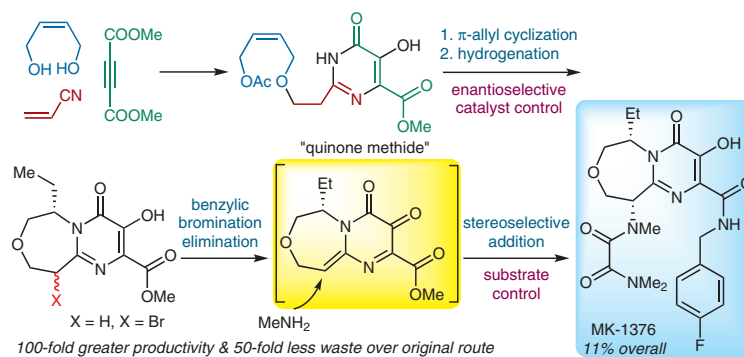
Synthesis of Fused Oxepane HIV Integrase Inhibitor MK-1376

Special Topic

3378

Synthesis 2020, 52, 3378–3388
DOI: 10.1055/s-0040-1707994

P. E. Maligres*
Z. J. Song*
N. A. Strotman
J. Yin
T. Pei
H. R. Strotman
T. Itoh
E. C. Sherer
G. R. Humphrey
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Synthesis

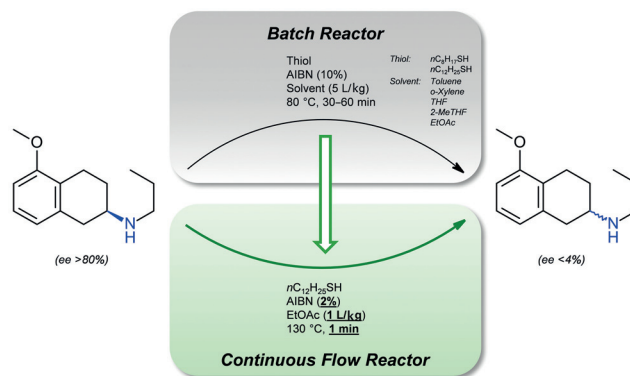
Intensification of Free-Radical Racemization for a Non-activated Amine in a Continuous Flow Reactor

Special Topic

3389

Synthesis 2020, 52, 3389–3396
DOI: 10.1055/s-0040-1707339

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T. Defrance*
S. Decouvreur
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Synthesis

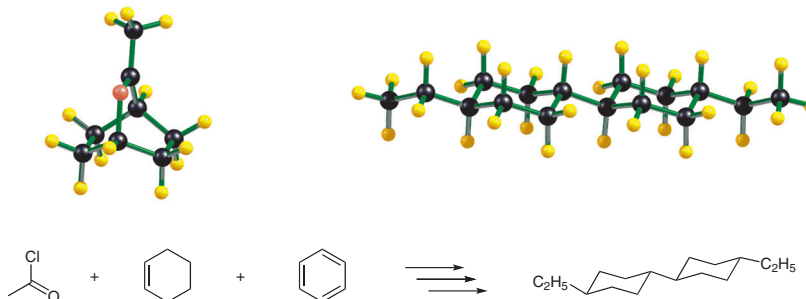
Controlling the All-trans Stereochemistry in Liquid Crystalline 4,4'-Dialkyl-[1,1'-bicyclohexyl] Compounds

Special Topic

3397

Synthesis 2020, 52, 3397–3405
DOI: 10.1055/s-0040-1707349

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Synthesis

Practical Early Development Synthesis of Nav1.7 Inhibitor GDC-0310

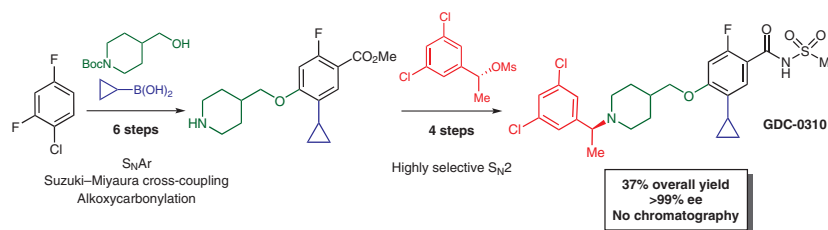
Special Topic

3406

Synthesis 2020, 52, 3406–3414
DOI: 10.1055/s-0040-1707859

A. Stumpf*
F. St-Jean*
D. Lao
Z. K. Cheng
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Synthesis

Copper-Catalyzed Asymmetric Hydroamination of Styrenes with *piv*ZPhos as Ligand

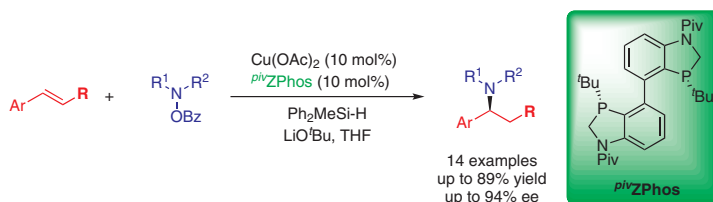
Special Topic

3415

Synthesis 2020, 52, 3415–3419
DOI: 10.1055/s-0040-1707346

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Synthesis

Synthesis of an Azabicyclo[3.1.0]hexanone-Containing Inhibitor of NF-κB Inducing Kinase via Catalytic C–H Activation

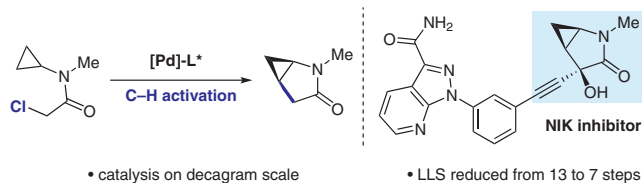
Special Topic

3420

Synthesis 2020, 52, 3420–3426
DOI: 10.1055/s-0040-1707279

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Synthesis

Synthesis 2020, 52, 3427–3438
DOI: 10.1055/s-0040-1707079

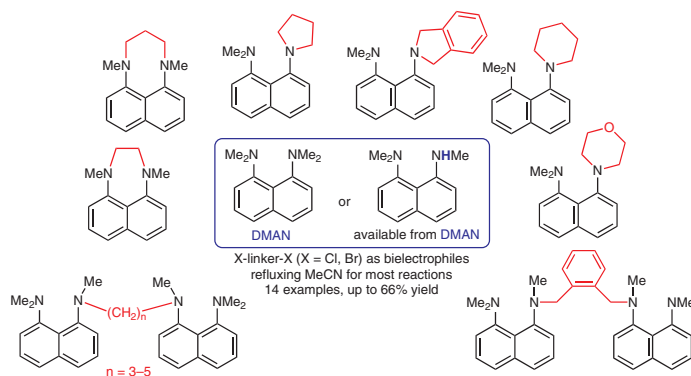
E. V. Kolupaeva
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N-Methylated 1,8-Diaminonaphthalenes as Bifunctional Nucleophiles in Reactions with α,ω -Dihalogenoalkanes: A Facile Route to Heterocyclic and Double Proton Sponges

Paper

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Synthesis

Synthesis 2020, 52, 3439–3445
DOI: 10.1055/s-0040-1707233

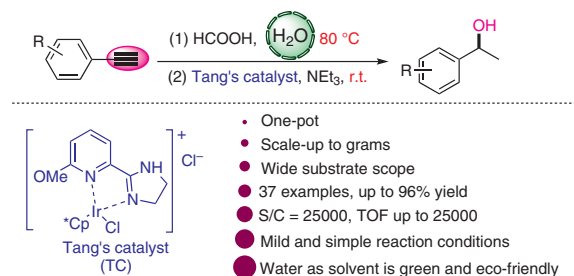
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Y. Zhong
J.-T. Liu
L. Ouyang*
R. Luo*

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An Efficient Hydration and Tandem Transfer Hydrogenation of Alkynes for the Synthesis of Alcohol in Water

Paper

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Synthesis

Synthesis 2020, 52, 3446–3451
DOI: 10.1055/s-0040-1707219

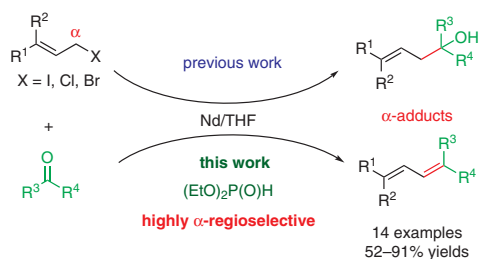
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Y. Wang
B. Yang
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P. R. of China

Neodymium-Promoted Highly Selective Carbon–Carbon Double Bond Formation of Ketones with Allyl Halides in the Presence of Diethyl Phosphite

Paper

3446



Synthesis

Synthesis 2020, 52, 3452–3460
DOI: 10.1055/s-0040-1707341

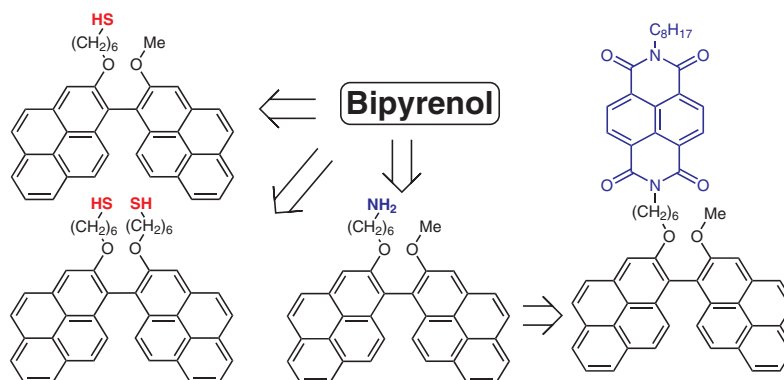
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Functionalization of Bipyrenol: Potential Precursors for Advanced Chiral Molecules

Paper

3452



Synthesis

Synthesis 2020, 52, 3461–3465
DOI: 10.1055/s-0040-1707191

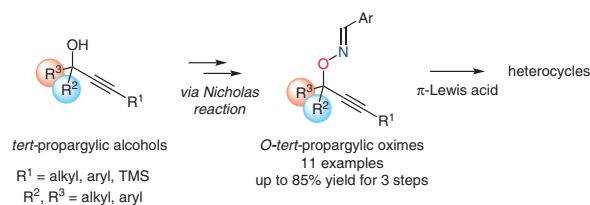
I. Nakamura*
K. Shiga
M. Suzuki
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Efficient Synthesis of *O*-*tert*-Propargylic Oximes via Nicholas Reaction

Paper

3461



Synthesis

Synthesis 2020, 52, 3466–3472
DOI: 10.1055/s-0040-1707229

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Y. Liu*

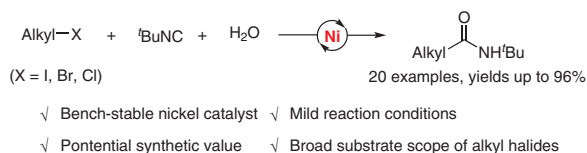
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Nickel-Catalyzed Multicomponent Coupling Reaction of Alkyl Halides, Isocyanides and H₂O: An Expedient Way to Access Alkyl Amides

Paper

3466



Synthesis

Synthesis of L-Kynurenine and Homo-L-Kynurenine via an Aza-Fries Rearrangement

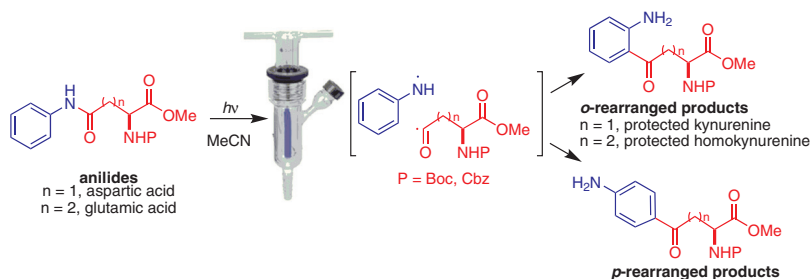
Paper

3473

Synthesis 2020, 52, 3473–3479
DOI: 10.1055/s-0040-1707223

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Synthesis

Scalable Synthesis of 3-Ethyl-4-methyl-1,5-dihydro-2H-pyrrol-2-one: An Important Building Block of the Antidiabetic Drug Glimepiride

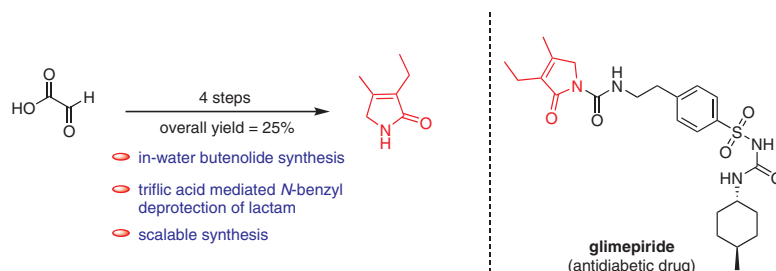
Paper

3480

Synthesis 2020, 52, 3480–3484
DOI: 10.1055/s-0040-1707344

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Synthesis

Synthesis of Chiral *N*-Nitro-oxazolidin-2-ones and *O*-(β -Nitraminoalkyl) Carbamates in Liquefied 1,1,1,2-Tetrafluoroethane Medium

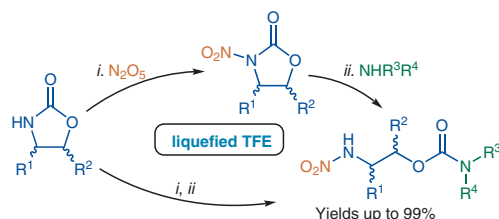
Paper

3485

Synthesis 2020, 52, 3485–3491
DOI: 10.1055/s-0040-1706762

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