



Tetrahedron Vol. 69, Issue 44, 2013

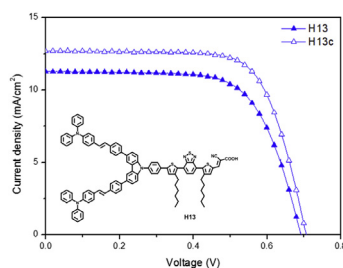
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Metal-free organic dyes with benzothiadiazole as an internal acceptor for dye-sensitized solar cells

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Woochul Lee, Ji yeon Seng, Jong-In Hong*

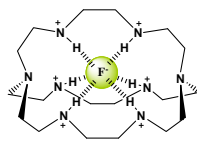


A theoretical study on the importance of steric effects, electronic properties, interaction and solvation energies in the 'host–guest' chemistry of protonated azacryptands and halide anions

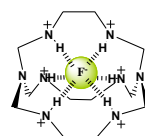
pp 9183–9191

Sadegh Salehzadeh*, Mehdi Bayat*, Yasin Gholiee

*Which one
is a better
receptor for
fluoride?!*



Longer NH...F distance,
smaller interaction and
formation energies



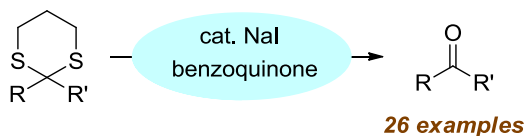
Ideal match between
the sizes of the anion
and the cavity of cation



Facile deprotection of dithioacetals by using a novel 1,4-benzoquinone/cat. NaI system

pp 9192–9199

Kiyofumi Inamoto*, Tetsuya Yamada, Sei-ichi Kato, Shoko Kikkawa, Yoshinori Kondo*

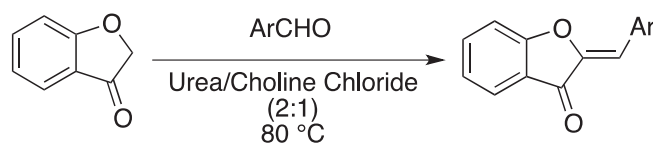


- ✓ mild, near-neutral conditions
- ✓ high yielding
- ✓ wide substrate scope
w/ good functional group tolerance

**Synthesis of aurones under neutral conditions using a deep eutectic solvent**

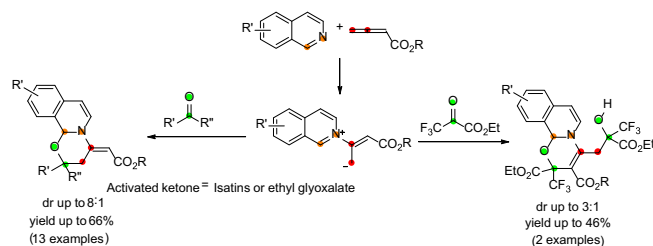
pp 9200–9204

Ian Hawkins, Scott T. Handy*

**A novel multicomponent reaction involving isoquinoline, allenolate and activated ketone**

pp 9205–9211

Hai-Bin Yang, Yun-Zhou Zhao, Rui Sang, Xiang-Yin Tang, Min Shi*

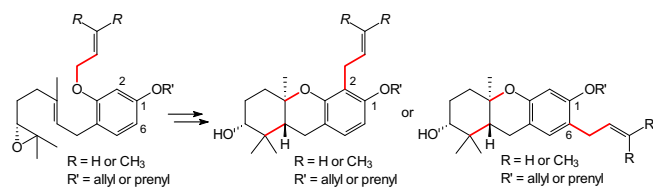


1,4-Dipole, generated in situ from isoquinoline with allenolate, reacts with activated ketone to afford [1,3]oxazino[2,3-a]isoquinoline derivatives in moderate yields along with moderate diastereoselectivities. This reaction enriches the chemistry of zwitterion formed from nitrogen nucleophile and electron-deficient alkyne.

**Electrophilic aromatic prenylation via cascade cyclization**

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John G. Kodet, Joseph J. Topczewski, Kevyn D. Gardner, David F. Wiemer*



Synthesis of *H*-pyrazolo[5,1-*a*]isoquinolines via a silver triflate-catalyzed tandem reaction of *N*-(2-alkynylbenzylidene) hydrazide with alcohol pp 9219–9223

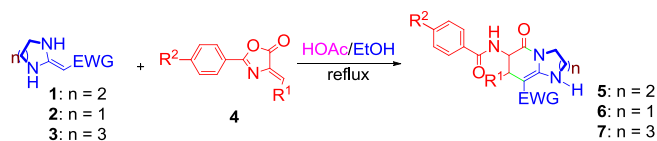
Wenyan Hao*, Tinli Zhang, Mingzhong Cai*



Cascade reaction synthesis of multisubstituted bicyclic pyridone derivatives

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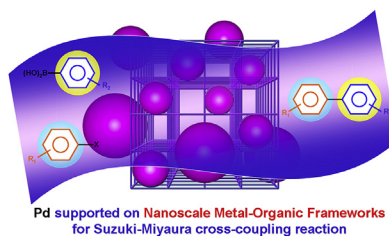
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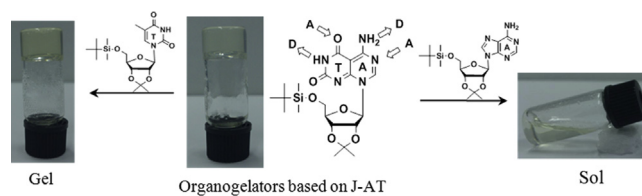
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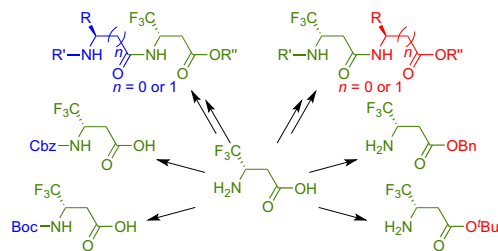
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Stereo-regulated synthesis of peptides containing a β -trifluoromethyl- β -amino acid

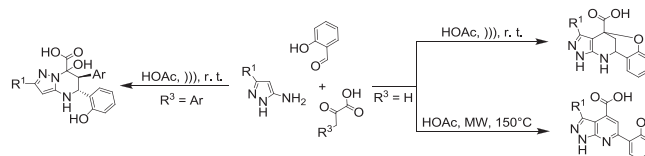
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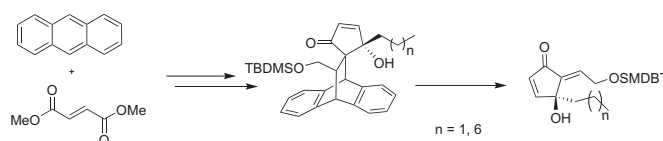
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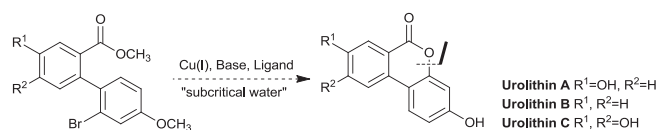
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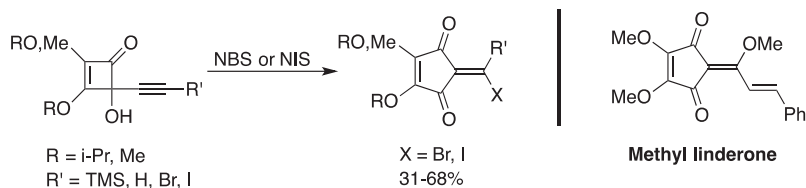
Prattya Nealmongkol, Kassrin Tangdenpaisal, Somkid Sitthimonchai, Somsak Ruchirawat, Nopporn Thasana*



Formation of 2-halomethylene-4-cyclopentene-1,3-diones and/or 2-halo-1,4-benzoquinones via ring-expansion of 4-ethynyl-4-hydroxy-2,3-substituted-2-cyclobuten-1-ones. Total synthesis of methyl linderone

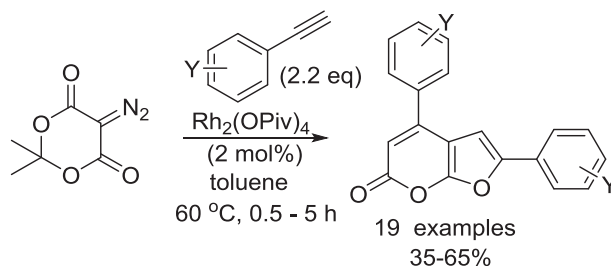
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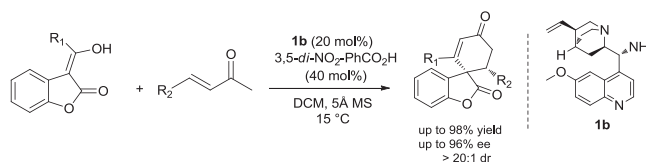
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Krishna Bahadur Somai Magar, Yong Rok Lee*, Sung Hong Kim

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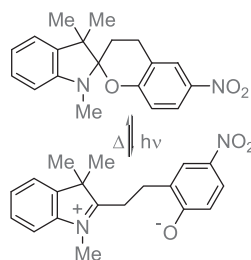
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**Synthesis of 1',3,3',4-tetrahydrospiro[chromene-2,2'-indoles] as a new class of ultrafast light-driven molecular switch**

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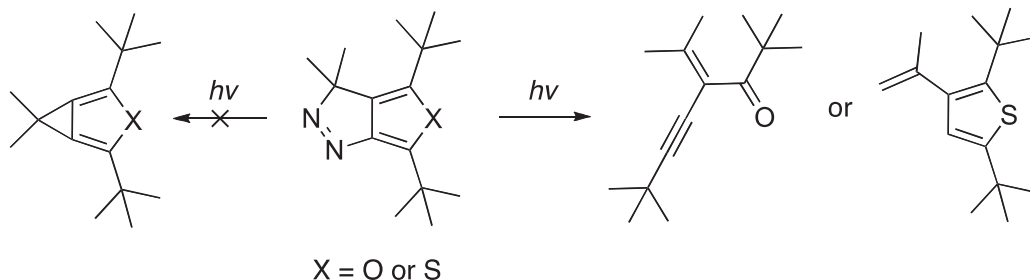
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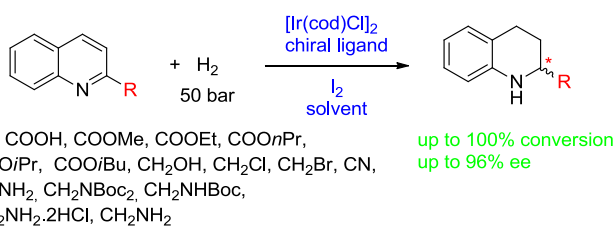
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Alan D. Payne


Synthesis of new chiral 2-functionalized-1,2,3,4-tetrahydroquinoline derivatives via asymmetric hydrogenation of substituted quinolines

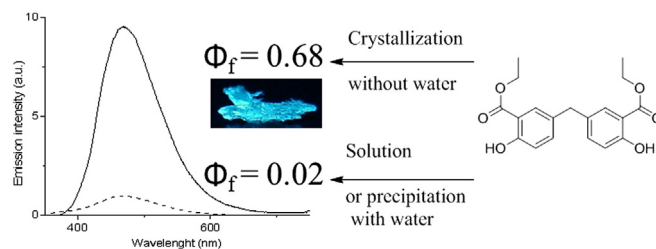
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Anna M. Maj*, Isabelle Suisse, Christophe Hardouin, Francine Agbossou-Niedercorn*


Crystallization-induced light-emission enhancement of diphenylmethane derivatives

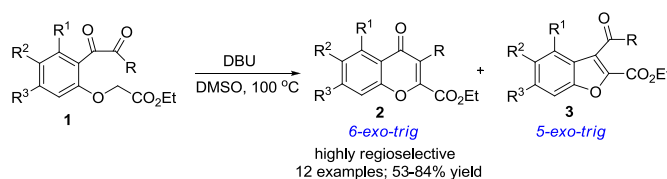
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Samuel Guieu*, João Rocha, Artur M.S. Silva*



DBU-mediated regioselective intramolecular cyclization/dehydration of ortho diketo phenoxyethers: a synthesis of 2,3-substituted γ -benzopyranones

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Sofia Bensulong, Jutatip Boonsombat*, Somsak Ruchirawat



*Corresponding author

 Supplementary data available via ScienceDirect

COVER

The asymmetric hydrogenation of judiciously substituted quinolines is providing a new access to chiral 2-functionalized-1,2,3,4-tetrahydroquinolines. Experiments can be run on a gram scale.

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