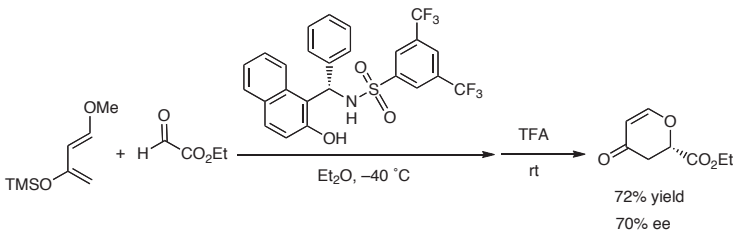
■ REVIEWS

■ PAPERS

2525 **Novel Sulfonamide Catalyzed Asymmetric Hetero-Diels-Alder Reaction of Ethyl Glyoxylate with Danishefsky's Diene**

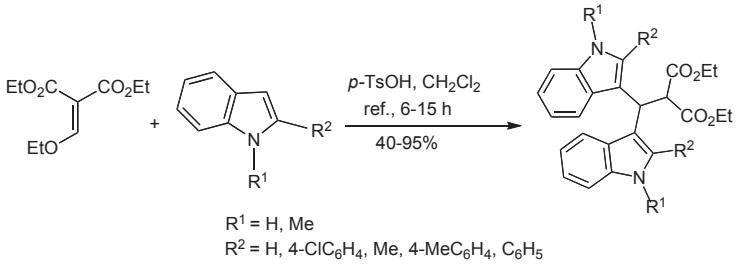
Takuya Kanemitsu, Yasufumi Asajima, Takashi Shibata, Michiko Miyazaki, Kazuhiro Nagata, and Takashi Itoh*



Organocatalysis Sulfonamide Asymmetric Synthesis Hetero-Diels-Alder Reaction Danishefsky's Diene

2535 **Synthesis of Novel Methylene Bridge Functionalized Bis(indolyl)methanes through a Double Michael Addition**

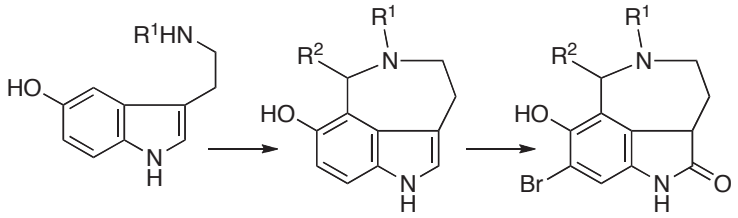
Mojgan Kargar, Rahim Hekmatshoar,* and AbdolJalil Mostashari



Ethoxymethylenemalonate Methylene-Bridged Bis(3-indolyl)methane Double Michael Acceptor Indole Trimer Tandem Double Michael Addition

2547 **A Novel Synthesis of 3,4,5,6-Tetrahydro-7-hydroxy-1*H*-azepino[5,4,3-*cd*]indole Derivatives from Serotonin**

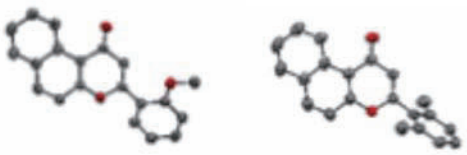
Koji Yamada, Sakiko Teranishi, Ayako Miyashita, Minoru Ishikura, and Masanori Somei*



*N*b-Acylserotonin *N*b-Alkylserotonin 3,4,5,6-Tetrahydro-7-hydroxy-1*H*-azepino[5,4,3-*cd*]indole 1*H*-Azepino[5,4,3-*cd*]indole-2-one Serotonin

2563 **Confirmation of Molecular Planarity Disruption Effect on Aqueous Solubility Improvement of β-Naphthoflavone Analogs**

Yuji Fujita, Mitsuhiro Yonehara, Katsushi Kitahara, Jun Shimokawa, Yuichi Hashimoto, and Minoru Ishikawa*



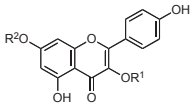
dihedral angle	31.1 °	68.4 °
UV absorption	272 nm	261 nm
crystal density	1.396 g/cm^3	1.301 g/cm^3
solubility	**45.8** μg/mL	**1270** μg/mL

Solubility Molecular Planarity Naphthoflavone Dihedral Angle Crystal

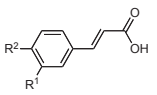
■ SHORT PAPERS

2615 **New Flavonol Glycosides from *Cardamine komarovii***

Il Kyun Lee, Eun-Kyung Jeong, Sang Un Choi, Jongki Hong, and Kang Ro Lee*



1 : R^1 = Glc R^2 = Glc(1-6)Glc
2 : R^1 = Glc(1-4)[Rha(1-6)]Glc R^2 = H
2a : R^1 = H R^2 = H
3 : R^1 = Glc(1-4)[Rha(1-6)]Glc R^2 = Glc
4 : R^1 = Glc(1-4)[Rha(1-6)]Glc R^2 = 2-(*E*-caffeoyl)Glc
5 : R^1 =Glc(1-4)[Rha(1-6)]Glc R^2 = 2-(*E*-feruloyl)Glc
6 : R^1 = Glc(1-4)[Rha(1-6)]Glc R^2 = 2-(*E*-*p*-coumaroyl)Glc
7 : R^1 = Glc(1-4)[Rha(1-6)]Glc R^2 = 4-(*E*-feruloyl)Glc
8 : R^1 = Glc R^2 = H
9 : R^1 = Rha(1-6)Glc R^2 = H
10 : R^1 = Rha(1-6)Glc R^2 = Glc

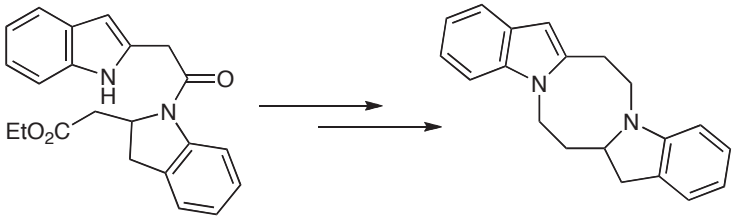


4a : R^1 = R^2 = OH
5a : R^1 = OMe; R^2 = OH
6a : R^1 = H; R^2 = OH

Cardamine komarovii Cruciferae Kaempferol Kaempferol Glucopyranoside Cytotoxicity

2627 **A New Synthetic Approach to Pentacyclic Ring, 6,7,14,15-Tetrahydro[1,5]diazocino[1,2-*a*:6,5-*a*']-8-dihydrodiindole**

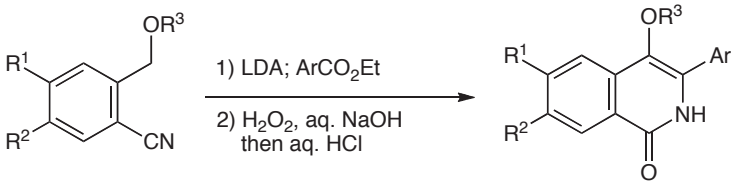
Kittisak Sripha,* Darius Paul Zlotos, UIrike Holzgrabe, and Somsak Ruchirawat



New Pentacyclic Ring System Intramolecular *N*-Alkylation *N*-Acylation Tosylation Cyclization

2635 **A Convenient Synthesis of 4-Alkoxy(or Aryloxy)-3-arylisoquinolin-1(2*H*)-ones from 2-[Alkoxy(or Aryloxy)metnyl]benzonitriles**

Kazuhiro Kobayashi,* Kota Matsumoto, Akihiro Kobayashi, and Miyuki Tanmatsu



R^1 = H, Br, OMe; R^2 = H, OMe; R^3 = alkyl, aryl

Isoquinolin-1(2*H*)-one 2-(Alkoxymethyl)benzonitrile 2-(Lithiomethyl)benzonitrile Benzylic Carbanion Lithiation

■ NEW HETEROCYCLIC NATURAL PRODUCTS

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

Contributors To This Issue