

Vol. 55 • Issue 5 • 29 January 2014 • ISSN 0040-4039



Tetrahedron Letters

THE INTERNATIONAL JOURNAL FOR THE RAPID PUBLICATION OF ALL
PRELIMINARY COMMUNICATIONS IN ORGANIC CHEMISTRY

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Tetrahedron Letters Vol. 55, Issue 5, 2014

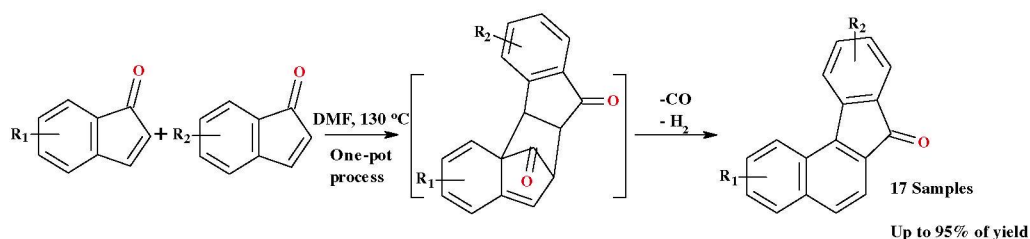
Contents

COMMUNICATIONS

Synthesis of benzo[c]fluorenone through a one-pot cascade reaction using inden-1-one derivatives

pp 975–978

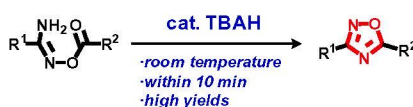
Shuyan Zheng, Hongsheng Tan, Xiaoguang Zhang, Chunhui Yu, Zhengwu Shen*



Construction of 3,5-substituted 1,2,4-oxadiazole rings triggered by tetrabutylammonium hydroxide: a highly efficient and fluoride-free ring closure reaction of *O*-acylamidoximes

pp 979–981

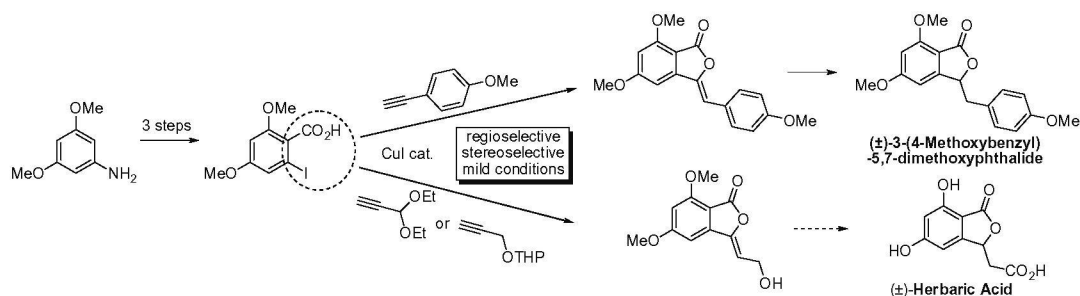
Hiromichi Otaka*, Junya Ikeda, Daisuke Tanaka, Masanori Tobe



Short and convenient synthesis of two natural phthalides by a copper(I) catalysed Sonogashira/oxacyclisation copper(I) process

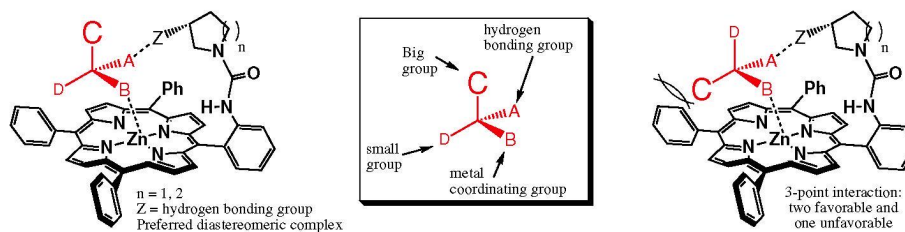
pp 982–984

Julien Petrignet*, Samuel Inack Ngi, Mohamed Abarbri, Jérôme Thibonnet*

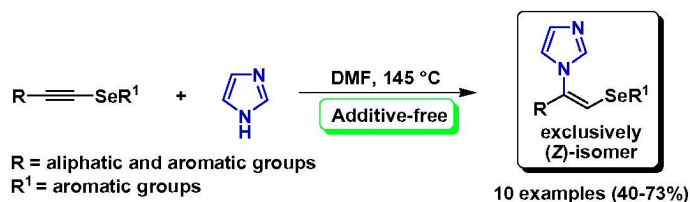


Recognition of mandelate stereoisomers by chiral porphyrin hosts: prediction of stereopreference in guest binding a priori using a simple binding model? pp 985–991

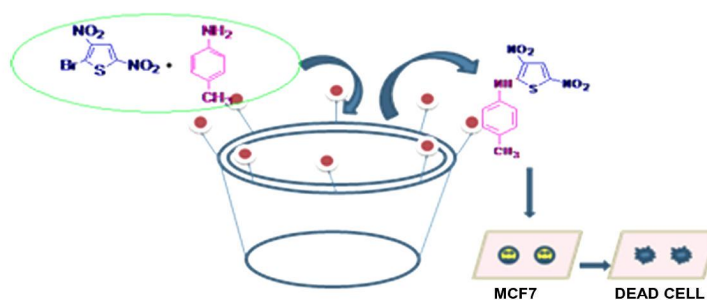
Vijay Nandipati, Karthik Akinapelli, Lakshmi Koya, Stephen D. Starnes*


Synthesis of (Z)-N-alkenyl-β-arylselanyl imidazoles via additive-free nucleophilic addition of imidazole to arylselanylalkynes pp 992–995

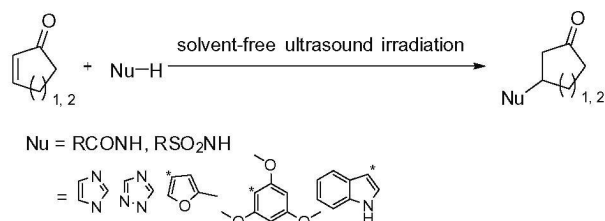
Liane K. Soares, Renata G. Lara, Raquel G. Jacob, Eder J. Lenardão, Diego Alves, Gelson Perin*


p-tert-Butylcalix[8]arene catalysed synthesis of 3,5-dinitrothiophene scaffolds: antiproliferative effect of some representative compounds on selective anticancer cell lines pp 996–1001

Piyali Sarkar, Samares Maiti, Krishnendu Ghosh, Sumita Sengupta (Bandyopadhyay), Ray J. Butcher, Chhanda Mukhopadhyay*


Solvent-free Brønsted acid-catalyzed Michael addition of nitrogen- and carbon-containing nucleophiles by ultrasound activation pp 1002–1005

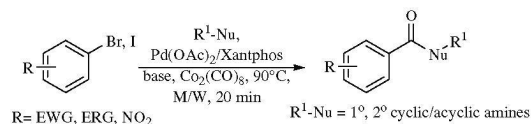
Xiu-Jiang Du, Zhi-Peng Wang, Yan-Ling Hou, Cheng Zhang, Zheng-Ming Li, Wei-Guang Zhao*



Co₂(CO)₈ as a convenient in situ CO source for the direct synthesis of benzamides from aryl halides (Br/I) via aminocarbonylation

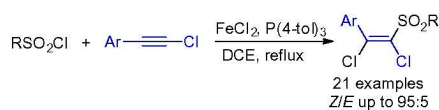
pp 1006–1010

Poongavanam Baburajan, Kuppanagounder P. Elango*

**Synthesis of cis-1,2-dichlorovinylsulfones via Fe-catalyzed regio- and stereoselective addition of sulfonyl chlorides to aromatic chloroalkynes**

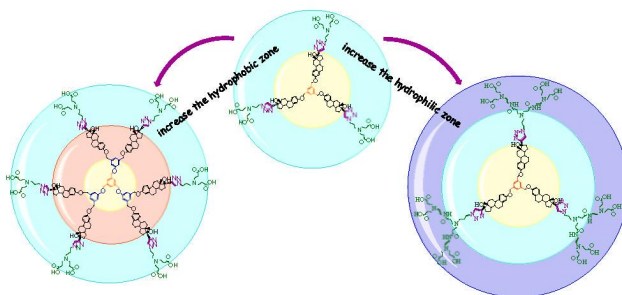
pp 1011–1013

Lina Wang, Hui Zhu, Jianwei Che, Yuanfa Yang*, Gangguo Zhu*

**Synthesis of steroidal dendrimers modified by 'click' chemistry with PAMAM dendrons as unimolecular micelles**

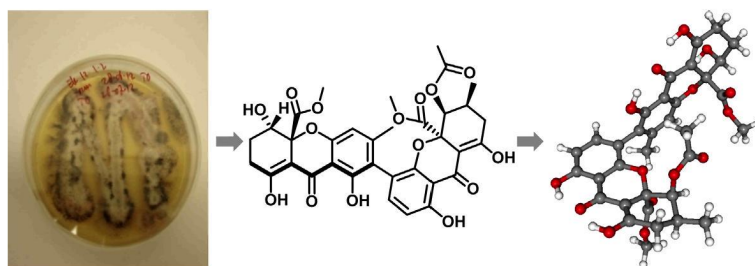
pp 1014–1019

Delia Soto-Castro, Nancy E. Magaña-Vergara, Norberto Farfán, Rosa Santillan*

**Absolute configuration and antibiotic activity of neosartorin from the endophytic fungus *Aspergillus fumigatiaffinis***

pp 1020–1023

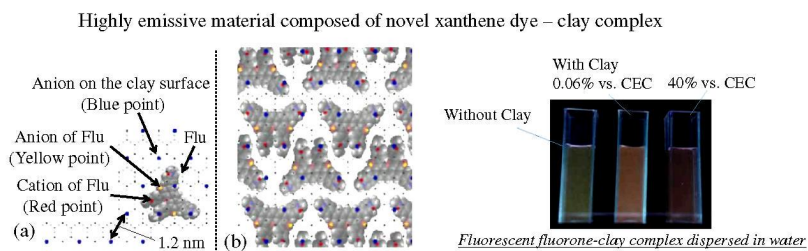
Antonius R. B. Ola, Abdessamad Debbab, Amal H. Aly, Attila Mandi, Ilka Zeffass, Alexandra Hamacher, Matthias U. Kassack, Heike Brötz-Oesterhelt, Tibor Kurtan, Peter Proksch*



Adsorption and photochemical behaviors of the novel cationic xanthene derivative on the clay surface

pp 1024–1027

Yuta Ohtani, Yohei Ishida, Yuka Ando, Hiroshi Tachibana, Tetsuya Shimada, Shinsuke Takagi*

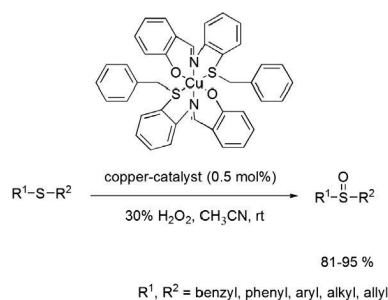


Novel tetra-cationic xanthene derivative (Flu) was synthesized. Its adsorption and photochemical behaviors on the clay surface were investigated. Fluorescence quantum yield (ϕ_f) and fluorescence lifetime were 0.50 and 2.9 ns for Flu/clay complex. ϕ_f of Flu was enough high (>0.1) even at high density conditions ($0.080 \text{ molecules nm}^{-2}$). It is supposed that the strong interaction between clay and Flu by the 'Size-Matching Effect' realizes the highly emissive clay complexes at high density adsorption condition by a suppression of a molecular aggregation, which tends to decrease the photochemical activity.

**Copper–Schiff base complex catalyzed oxidation of sulfides with hydrogen peroxide**

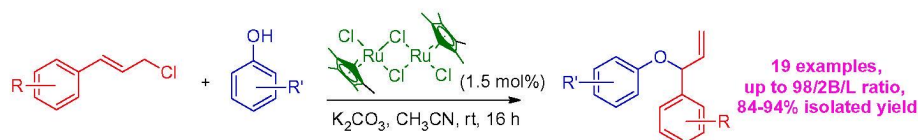
pp 1028–1030

Prasanta Gogoi, Mukul Kalita, Tirtha Bhattacharjee, Pranjit Barman*

**From precursor to catalyst: the involvement of $[\text{Ru}(\eta^5\text{-Cp}^*)\text{Cl}_2]_2$ in highly branch selective allylic etherification of cinnamyl chlorides**

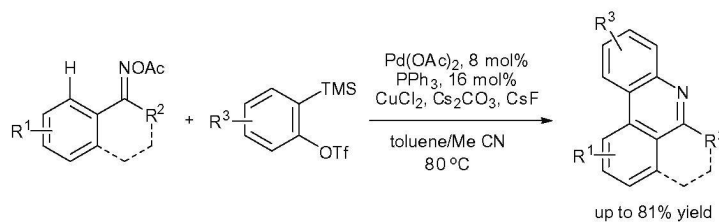
pp 1031–1035

Ravi Kumara Guralamatta Siddappa, Chih-Wei Chang, Rong-Jie Chein*

**Pd-catalyzed assembly of phenanthridines from aryl ketone O-acetyloximes and arynes through C–H bond activation**

pp 1036–1039

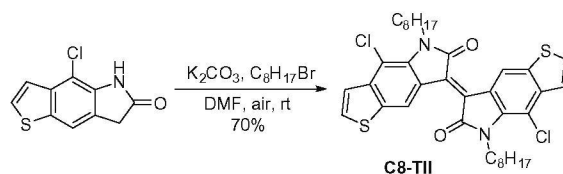
Chen-Yu Tang, Xin-Yan Wu, Feng Sha*, Fei Zhang, Hao Li



Synthesis of a thiophene-fused isoindigo derivative: a potential building block for organic semiconductors

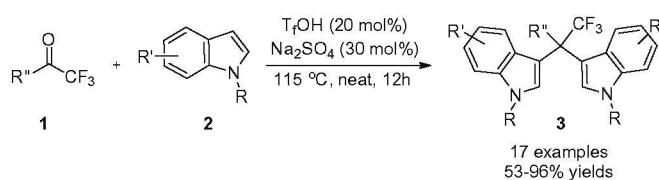
pp 1040–1044

Na Zhao, Li Qiu, Xiao Wang, Zengjian An, Xiaobo Wan*

**Trifluoromethanesulfonic acid-catalyzed solvent-free bisindolylation of trifluoromethyl ketones**

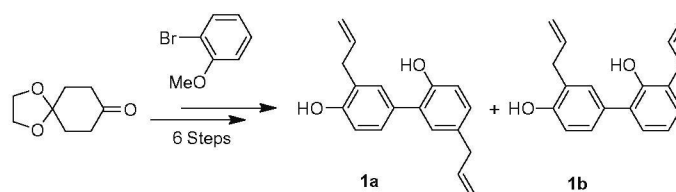
pp 1045–1048

Yi Wang, Yu Yuan*, Chun-Hui Xing*, Long Lu*

**A short and efficient synthesis of honokiol via Claisen rearrangement**

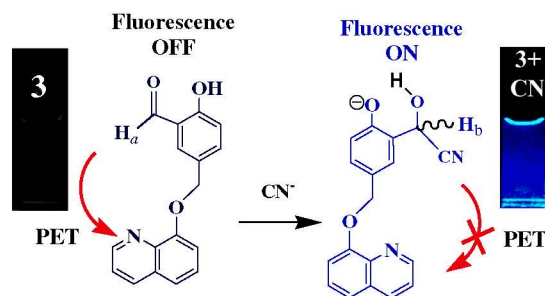
pp 1049–1051

B. V. Subba Reddy*, R. Nageshwar Rao, N. Siva Senkar Reddy, R. Somaiah, J. S. Yadav, Ravi Subramanyam

**A selective quinoline-derived fluorescent chemodosimeter to detect cyanide in aqueous medium**

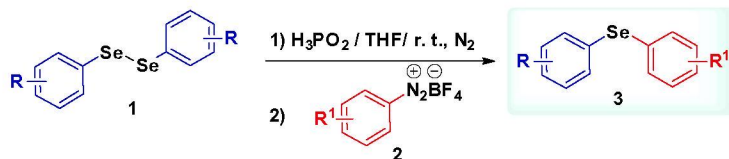
pp 1052–1056

Syed S. Razi, Rashid Ali, Priyanka Srivastava, Arvind Misra*



Simple and catalyst-free method for the synthesis of diaryl selenides by reactions of arylselenenols and arenediazonium salts

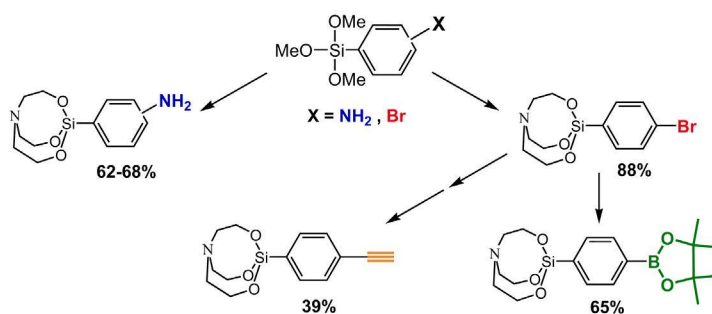
Renata A. Balaguez, Vanessa Gentil Ricordi, Camilo S. Freitas, Gelson Perin, Ricardo F. Schumacher, Diego Alves*



Organosilatrane building blocks

Bradley J. Brennan*, Devens Gust, Gary W. Brudvig

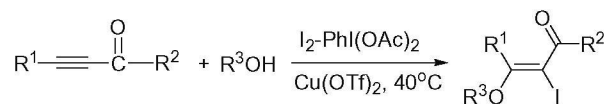
pp 1062–1064



Regio- and stereoselective synthesis of highly functionalized vinyl ethers via coiodination of acetylenic ketones

Meihua Xie*, Jitan Zhang, Peng Ning, Zhannan Zhang, Xing Liu, Linbo Wang

pp 1065–1067



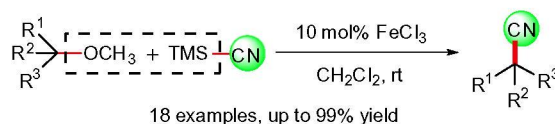
A Cu(OTf)_2 -catalyzed highly regio- and stereoselective coiodination of acetylenic ketones was reported, providing a mild and convenient method for the synthesis of (Z)- β -carbonyl- β -iodoenol ethers in good yields.



Efficient assembly of α -aryl and α -vinyl nitriles via iron-catalyzed ether bond activation

Xiaohui Fan*, Kun Guo, Yong-Hong Guan, Lin-An Fu, Xiao-Meng Cui, Hao Lv, Hong-Bo Zhu

pp 1068–1071



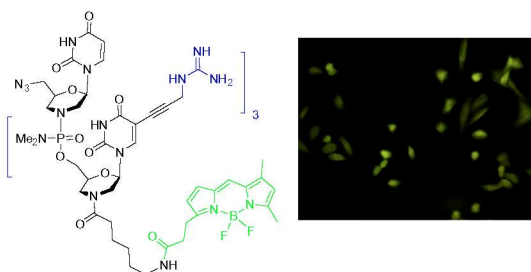
Direct cyanation of π -activated ethers to synthesis of α -aryl and α -vinyl nitriles via iron-catalyzed sp^3 C–O ether bond cleavage was developed.



Synthesis and cell transfection properties of cationic uracil-morpholino tetramer

pp 1072–1076

Sibasish Paul, Sankha Pattanayak, Surajit Sinha*

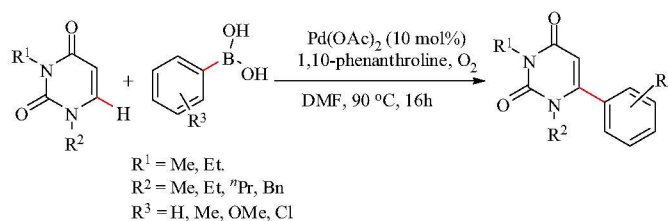


Synthesis of cationic uracil morpholino tetramer through the incorporation of guanidinium groups at the 5-position of uracil and its cellular transfection property is studied by microscopy imaging using fluorescent dye BODIPY.

**Pd(II)-catalyzed regioselective direct arylation of uracil via oxidative Heck reaction using arylboronic acids**

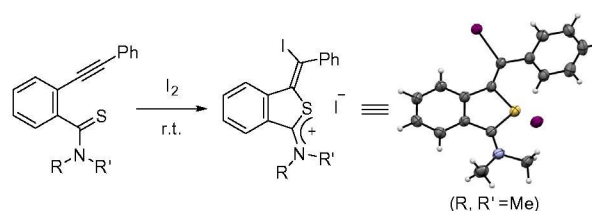
pp 1077–1081

Biplab Mondal, Somjit Hazra, B. Roy*

**Formation of benzo[*c*]thiophen-1-aminium iodide by the reaction of *o*-alkynylbenzothioamide with iodine**

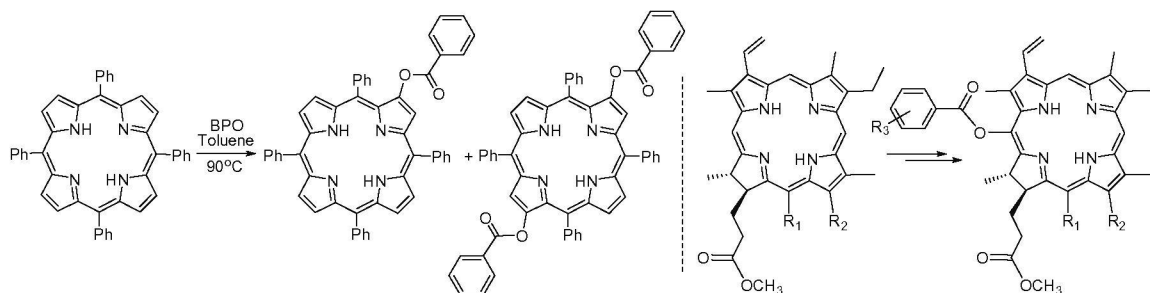
pp 1082–1085

Shoji Matsumoto*, Daiki Takada, Hirokazu Kageyama, Motohiro Akazome

**Convenient peripheral aryloxylation reactions of porphyrins and chlorophyll-*a*-based chlorins with benzoyl peroxide**

pp 1086–1089

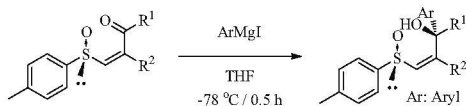
Jiazhu Li, Peng Zhang, Nan-Nan Yao, Li-Li Zhao, Jin-Jun Wang*, Young Key Shim*



Remote induction of stereoselective 1,2-addition of aryl Grignard reagents to β -sulfinyl enones

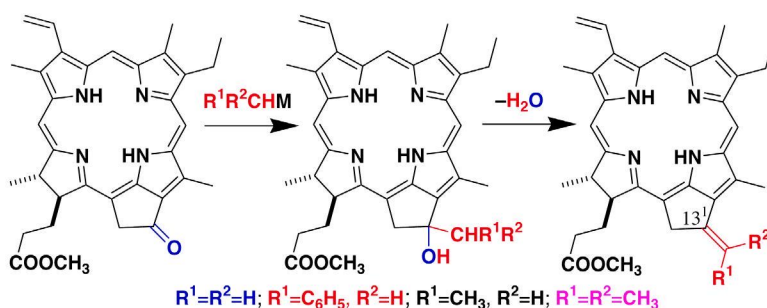
pp 1090–1092

Toshinori Nakakita, Motofumi Miura*, Masaharu Toriyama, Shigeyasu Motohashi, Mikhail V. Barybin

**Synthesis of chlorophyll-*a* derivatives possessing (un)substituted 13¹-*exo*-methylene moiety and their optical properties**

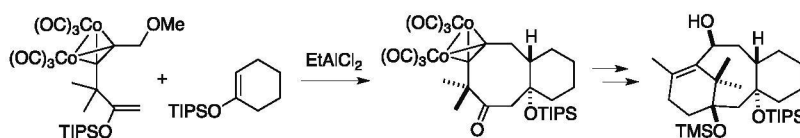
pp 1093–1096

Hitoshi Tamiaki*, Shun Koizumi, Kazuki Tsuji, Yusuke Kinoshita, Tomohiro Miyatake

**Synthetic studies on taxanes: construction of the tricyclic skeleton on the basis of a [6+2] cycloaddition reaction**

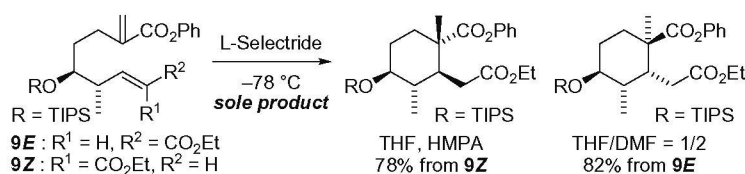
pp 1097–1099

Ryosuke Hanada, Katsuhiko Mitachi, Keiji Tanino*

**Highly stereoselective Michael reduction/intramolecular Michael reaction cascade to synthesize *trans*-stereodiad comprising an all-carbon quaternary stereogenic center**

pp 1100–1103

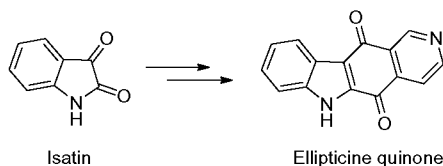
Tomohiro Fujii, Kohei Orimoto, Masahisa Nakada*



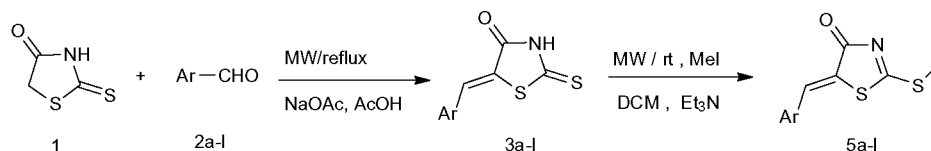
A new route to the synthesis of ellipticine quinone from isatin

pp 1104–1106

Nagarajan Ramkumar, Rajagopal Nagarajan*

**A facile synthesis of (Z)-5-(substituted)-2-(methylthio)thiazol-4(5H)-one using microwave irradiation and conventional method** pp 1107–1110

Dattatraya N. Pansare, Devanand B. Shinde*



*Corresponding author

Supplementary data available via ScienceDirect

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ISSN 0040-4039