

**Tetrahedron Letters Vol. 50, No. 44, 2009**

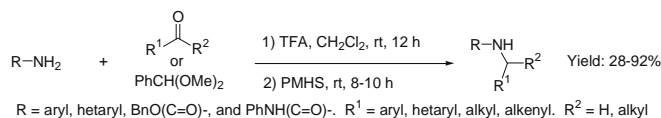
**Contents**

**COMMUNICATIONS**

**Polymethylhydrosiloxane (PMHS)/trifluoroacetic acid (TFA): a novel system for reductive amination reactions**

pp 5975–5977

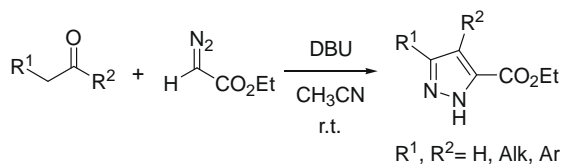
Jay P. Patel, An-Hu Li<sup>\*</sup>, Hanqing Dong, Vijaya L. Korlipara<sup>\*</sup>, Mark J. Mulvihill



**New one-pot synthesis of pyrazole-5-carboxylates by 1,3-dipole cycloadditions of ethyl diazoacetate with  $\alpha$ -methylene carbonyl compounds**

pp 5978–5980

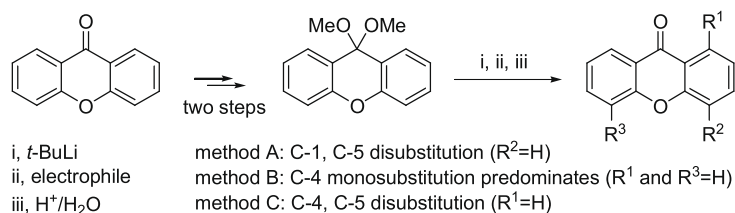
Antimo Gioiello, Asiya Khamidullina, Maria Carmela Fulco, Francesco Venturoni, Simon Zlotsky, Roberto Pellicciari<sup>\*</sup>



**Xanthone in synthesis: a reactivity profile via directed lithiation of its dimethyl ketal**

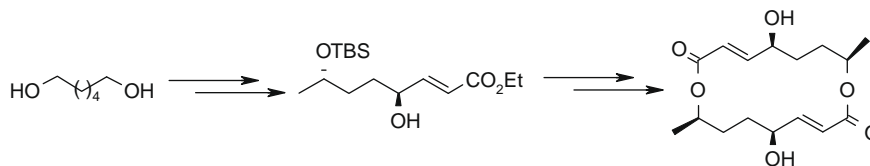
pp 5981–5983

Michal R. Odrowaz-Sypniewski, Petros G. Tsoungas<sup>\*</sup>, George Varvounis, Paul Cordopatis

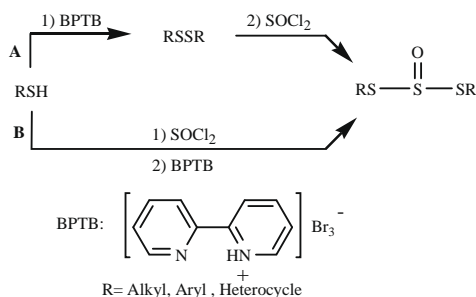


**Stereoselective total synthesis of (–)-pyrenophorol**

pp 5984–5986

J. S. Yadav<sup>\*</sup>, U. V. Subba Reddy, B. V. Subba Reddy**Amine-catalyzed preparation of oxygenated derivatives of symmetric trisulfides**

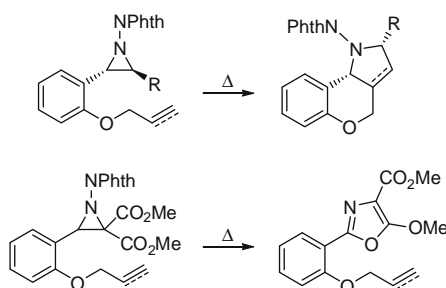
pp 5987–5989

Mahbubeh Pourshahbaz, Mohammad Joshaghani<sup>\*</sup>, Ezzat Rafiee, Jahangir Shahmoradi, Fereshteh Emami, Asieh Iranpour

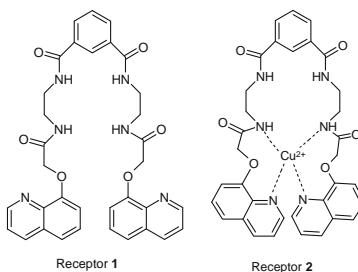
Bipyridinium tribromide (BPTB) is employed for the selective synthesis of symmetric trisulfides in the presence of thionyl chloride.

**Intramolecular cycloaddition of *N*-phthalimidoaziridines to double and triple carbon-carbon bonds**

pp 5990–5993

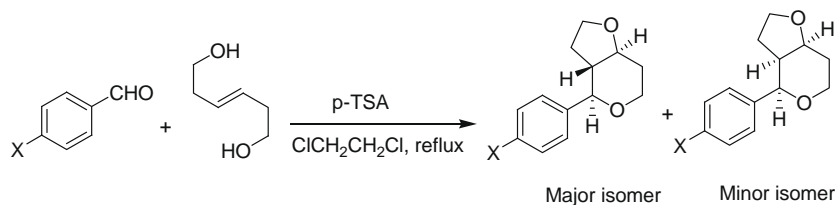
Alena S. Pankova, Vladimir V. Voronin, Mikhail A. Kuznetsov<sup>\*</sup>**Cu(II) complex of an abiotic receptor as highly selective fluorescent sensor for acetate**

pp 5994–5997

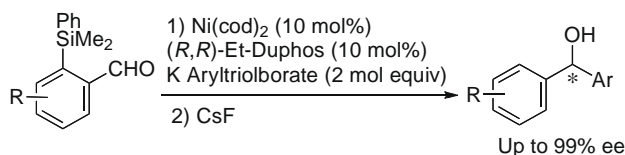
Shyamaprosad Goswami<sup>\*</sup>, Rinku ChakrabartyCopper complex of a flexible receptor has been synthesized which selectively binds  $\text{OAc}^-$  over a series of other anions studied ( $\text{F}^-$ ,  $\text{Cl}^-$ ,  $\text{Br}^-$ ,  $\text{I}^-$ ,  $\text{OAc}^-$ , DL-malate, L-mandelate, benzoate, isophthalate,  $\text{H}_2\text{PO}_4^-$ ,  $\text{NO}_3^-$  and  $\text{HSO}_4^-$ ) in  $\text{CH}_3\text{CN}$  and in  $\text{CH}_3\text{CN}-\text{H}_2\text{O}$  (95:5 v/v).

**Intramolecular-Prins-cyclization: a novel synthesis of hexahydro-2H-furo[3,2-c]pyran derivatives**

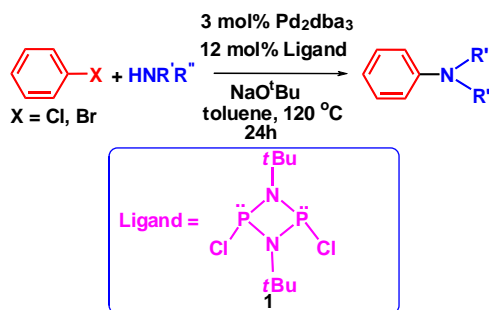
pp 5998–6000

J. S. Yadav <sup>\*</sup>, P. Pawan Chakravarthy, Prashant Borkar, B. V. Subba Reddy, A. V. S. Sarma**Et-duphos-nickel-catalyzed asymmetric arylation of benzaldehyde derivatives bearing an *ortho*-Me<sub>2</sub>PhSi group with potassium aryltrifluoroborates**

pp 6001–6003

Fumie Sakurai, Kazuhiro Kondo <sup>\*</sup>, Toyohiko Aoyama <sup>\*</sup>**An inexpensive cyclodiphosphazane as an efficient ligand for the palladium-catalyzed amination of aryl bromides and chlorides**

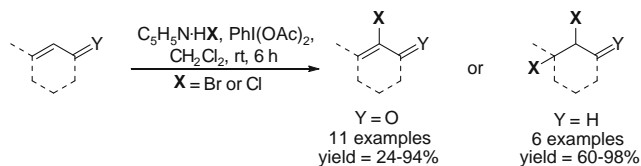
pp 6004–6007

R. Rama Suresh, K. C. Kumara Swamy <sup>\*</sup>

A new catalytic system for the C–N bond formation between aryl bromides/chlorides with amines, using Pd<sub>2</sub>dba<sub>3</sub> and an inexpensive cyclodiphosphazane (1) as a ligand, is presented.

**The  $\alpha$ -halogenation of  $\alpha,\beta$ -unsaturated carbonyls and dihalogenation of alkenes using bisacetoxiodobenzene/pyridine hydrohalides**

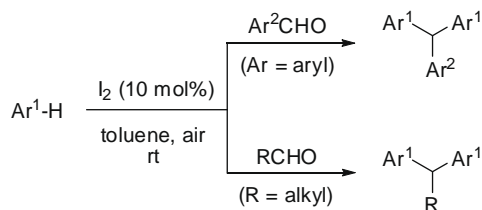
pp 6008–6011

Marsewi Ngatimin, Christopher J. Gartshore, Jeremy P. Kindler, Sudha Naidu, David W. Lupton <sup>\*</sup>

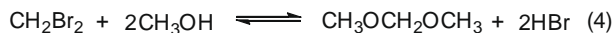
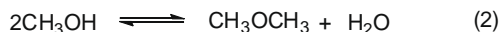
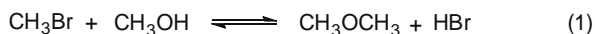
A range of  $\alpha,\beta$ -unsaturated carbonyls and alkenes are  $\alpha$ -halogenated or dihalogenated using the HCl or HBr pyridine salt of bisacetoxiodobenzene (BAIB) as a source of electrophilic halogen.

**Iodine catalyzed Friedel–Crafts alkylation of electron-rich arenes with aldehydes: efficient synthesis of triarylmethanes and diarylalkanes**

pp 6012–6015

Jaray Jaratjaroonphong<sup>\*</sup>, Supaporn Sathalalai, Prapapan Techasauvapak, Vichai Reutrakul
**Poly(4-vinylpyridine) catalyzed selective methanolysis of methyl and methylene bromides**

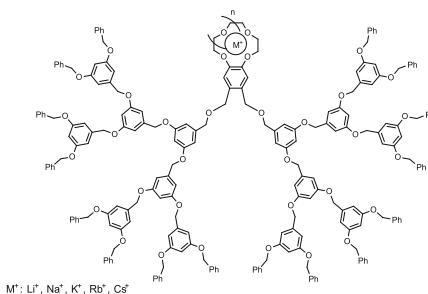
pp 6016–6018

G. K. Surya Prakash<sup>\*</sup>, Juan C. Colmenares, Patrice T. Batamack, Thomas Mathew, George A. Olah<sup>\*</sup>

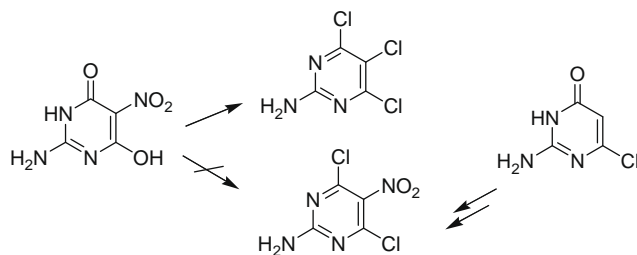
Poly(4-vinylpyridine) (PVP) acts as an efficient HBr scavenger promoting the formation of dimethyl ether (DME) and dimethoxymethane (DMM) from the corresponding bromomethanes and methanol with high selectivity.

**Dendritic effects of crown ether-functionalized dendrimers on the solvent extraction of metal ions**

pp 6019–6021

Dimitrios Alivertis, Georgios Paraskevopoulos, Vassiliki Theodorou, Konstantinos Skobridis<sup>\*</sup>
**Syntheses of 2-amino-4,6-dichloro-5-nitropyrimidine and 2-amino-4,5,6-trichloropyrimidine: an unusual aromatic substitution**

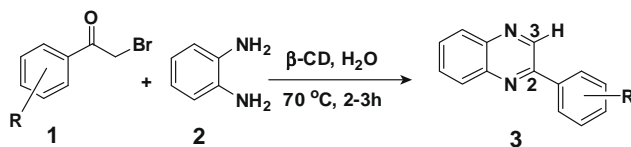
pp 6022–6024

Sergio Lopez, Thomas McCabe, R. Stanley McElhinney, T. Brian H. McMurry<sup>\*</sup>, Isabel Rozas<sup>\*</sup>

**Biomimetic synthesis of quinoxalines in water**

pp 6025–6028

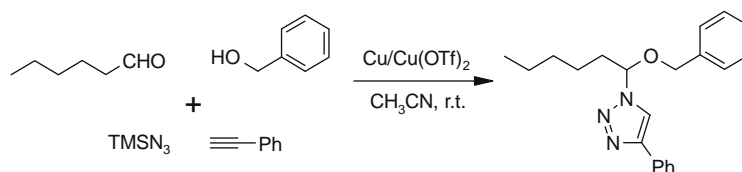
B. Madhav, S. Narayana Murthy, V. Prakash Reddy, K. Rama Rao, Y. V. D. Nageswar \*



**Cu(OTf)<sub>2</sub>/Cu-catalyzed four-component reaction: a facile synthesis of  $\alpha$ -alkoxytriazoles via click chemistry**

pp 6029–6031

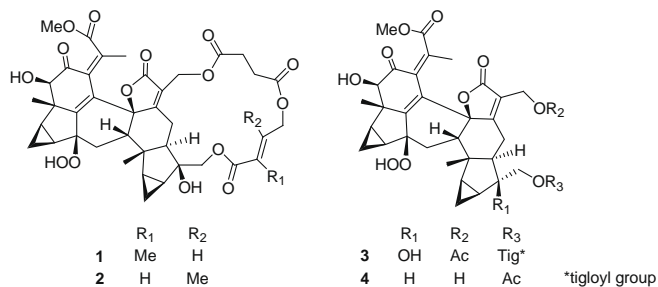
J. S. Yadav \*, B. V. Subba Reddy, G. Madhusudhan Reddy, S. Rehana Anjum



**Spicachlorantins C–F, hydroperoxy dimeric sesquiterpenes from the roots of *Chloranthus spicatus***

pp 6032–6035

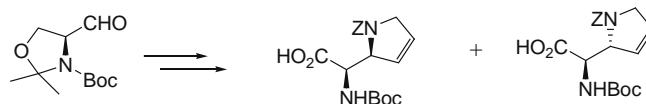
Sang-Yong Kim, Yoshiki Kashiwada \*, Kazuyoshi Kawazoe, Kotaro Murakami, Han-Dong Sun, Shun-Lin Li, Yoshihisa Takaishi



**A stereodivergent route to two epimeric 2-pyrrolidinylglycine derivatives**

pp 6036–6039

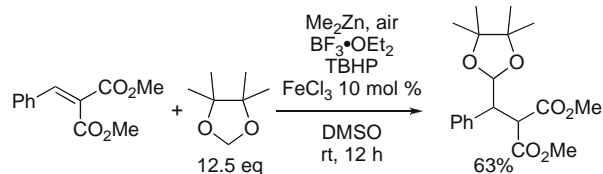
Ayan Bandyopadhyay, Amit K. Pahari, Shital K. Chattopadhyay \*



**Iron chloride enhancement of dimethylzinc-mediated radical conjugate addition of ethers and an amine to alkylidenemalonates**

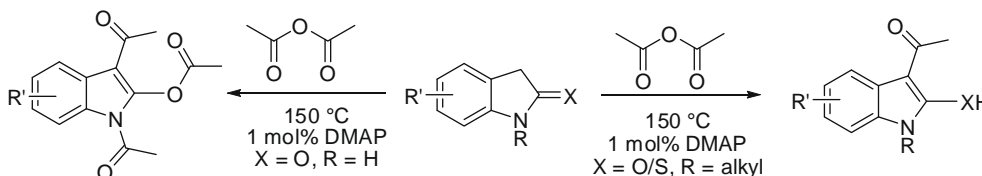
pp 6040–6043

Ken-ichi Yamada, Masaru Maekawa, Yasutomo Yamamoto, Mayu Nakano, Tito Akindele, Kiyoshi Tomioka \*

**Highly efficient one-pot C-, N- and O-acylation of indolin-2-one analogs**

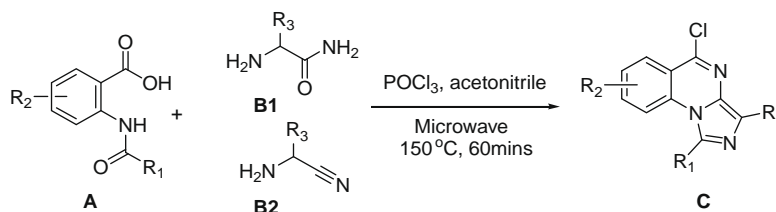
pp 6044–6047

Mukund Jha \*, Brian Blunt

**A facile one-step synthesis of 5-chloro-imidazo[1,5-a]quinazoline by microwave irradiation**

pp 6048–6052

Guo Li \*, Ramesh Kakarla, Samuel W. Gerritz, Annapurna Pendri, Baoqing Ma

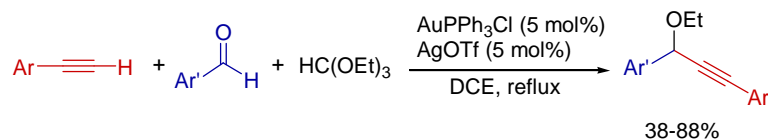


A new and facile method has been developed for the one-step synthesis of 5-chloro-imidazo[1,5-a]quinazoline by cyclization of *N*-acylanthranilic acid **A** with 2-aminoacetamide **B1** or 2-aminoacetonitrile **B2** in the presence of POCl<sub>3</sub> under microwave irradiation. 5-chloro-imidazo[1,5-a]quinazolines can be further functionalized by displacement of 5-Cl group.

**AuPPh<sub>3</sub>Cl/AgOTf-catalyzed reaction of terminal alkynes: nucleophilic addition to activated C=O bond**

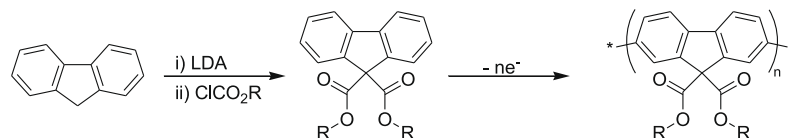
pp 6053–6056

Changkun Li, Fanyang Mo, Weibin Li, Jianbo Wang \*

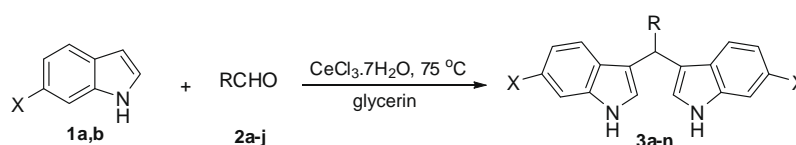


**Synthesis and oxidative polymerization of dialkyl fluorene-9,9-dicarboxylates**

pp 6057–6059

Yanying Zhang, Song Tu, Koichi Mitsudo, Hideo Tanaka<sup>\*</sup>, Shunzo Suematsu, Kenji Machida, Daisuke Horii, Shuichi Ishimoto, Kenji Tamamitsu**Glycerin and CeCl<sub>3</sub>·7H<sub>2</sub>O: a new and efficient recyclable medium for the synthesis of bis(indolyl)methanes**

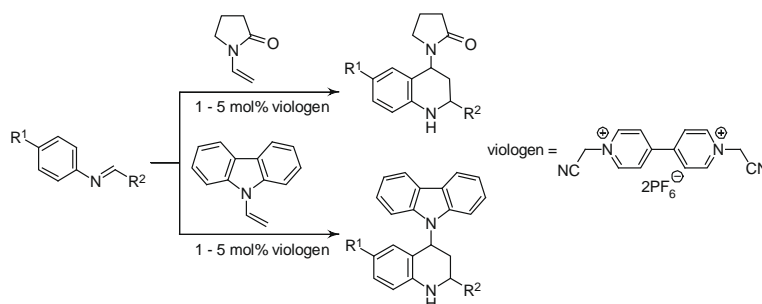
pp 6060–6063

Claudio C. Silveira<sup>\*</sup>, Samuel R. Mendes, Francieli M. Líbero, Eder J. Lenardão, Gelson Perin

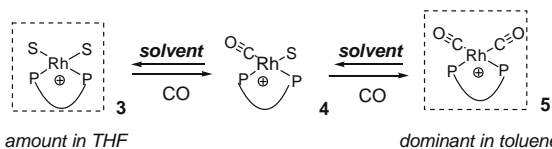
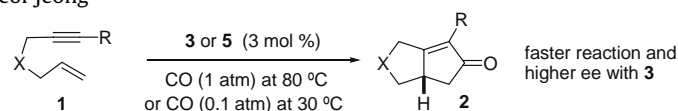
1 X = (a) H, (b) Br

2 R = (a) C<sub>6</sub>H<sub>5</sub>, (b) 4-NO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>, (c) 4-ClC<sub>6</sub>H<sub>4</sub>, (d) 4-CH<sub>3</sub>OC<sub>6</sub>H<sub>4</sub>, (e) 2-ClC<sub>6</sub>H<sub>4</sub>, (f) 2-CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>, (g) C<sub>6</sub>H<sub>5</sub>CH=CH, (h) 3,4-OCH<sub>2</sub>O-C<sub>6</sub>H<sub>3</sub>, (i) 2-furyl, (j) C<sub>4</sub>H<sub>9</sub>.**Tetrahydroquinoline syntheses induced with catalytic amounts of viologen additives**

pp 6064–6067

Zheng Xue, Anindya Samanta, Bruce R. Whittlesey, Michael F. Mayer<sup>\*</sup>**Solvent effects on the asymmetric Pauson–Khand-type reaction by rhodium**

pp 6068–6071

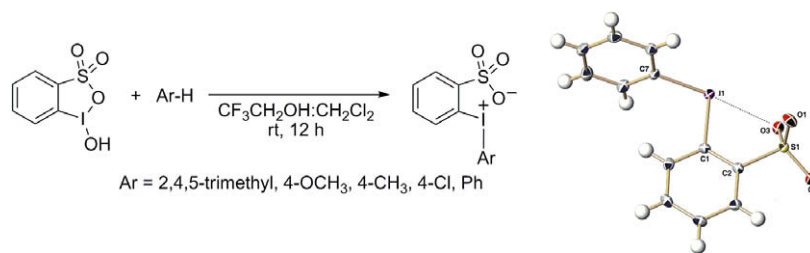
Yun Hee Choi, Jaesung Kwak, Nakcheol Jeong<sup>\*</sup>

Coordinating solvents, such as THF, provided a faster reaction and better selectivity in asymmetric Pauson–Khand-type reaction by rhodium than non-coordinating solvents, such as toluene. We found that these beneficial effects are due to a significant increase of more reactive catalysts **3** or **4** than **5** in a coordinating solvent.

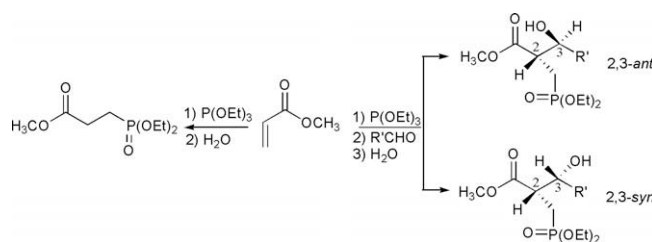


**Preparation and X-ray structures of 2-[(aryl)iodonio]benzenesulfonates: novel diaryliodonium betaines**

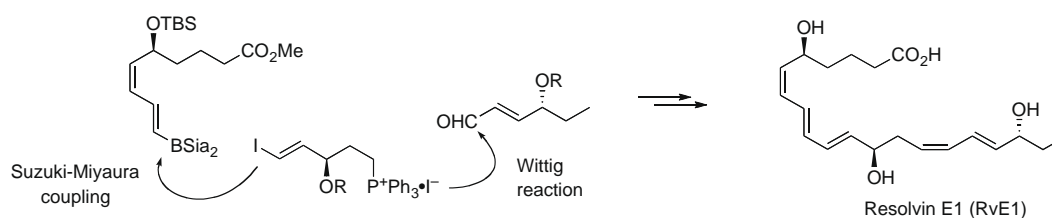
pp 6072–6075

Michael W. Justik<sup>\*</sup>, John D. Protasiewicz, James B. Updegraff**One-pot synthesis of  $\gamma$ -hydroxy- $\gamma$ -oxaphosphonates using pentacovalent oxaphosphorane chemistry**

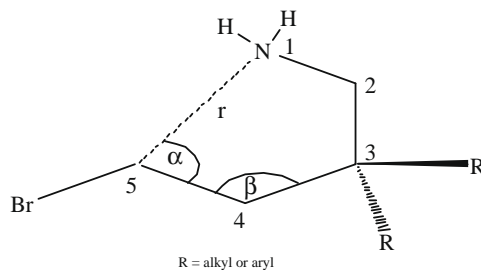
pp 6076–6078

Jae-Min Hwang, Tasneem Islam<sup>\*</sup>, Kang-Yeoun Jung<sup>\*</sup>**Total synthesis of resolvin E1**

pp 6079–6082

Narihito Ogawa, Yuichi Kobayashi<sup>\*</sup>**The *gem*-disubstituent effect—a computational study that exposes the relevance of existing theoretical models**

pp 6083–6087

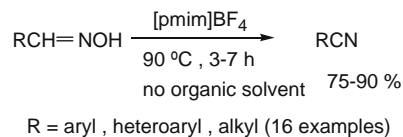
Rafik Karaman<sup>\*</sup>The *gem*-disubstituent effect is driven by strain effect,  $\text{Sin } a + 1/|f(\text{rate})| f(\text{strain})$ 



**Ionic liquid-promoted dehydration of aldoximes: a convenient access to aromatic, heteroaromatic and aliphatic nitriles**

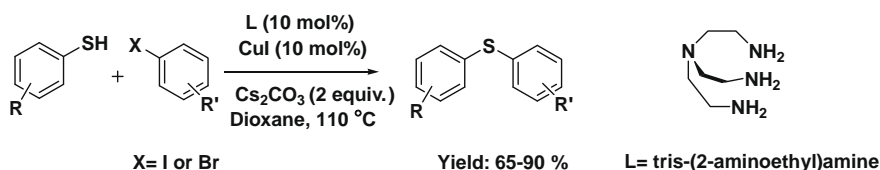
pp 6088–6091

Debasree Saha, Amit Saha, Brindaban C. Ranu \*

**An efficient tris-(2-aminoethyl)amine-CuI-catalyzed thioetherification of thiols with aryl halides**

pp 6092–6094

Nivrutti R. Jogdand, Bapurao B. Shingate, Murlidhar S. Shingare \*



An operationally simple, efficient, and general methodology for the copper-catalyzed thioetherification reaction of aryl halides with thiols using commercially available, inexpensive tripod ligand, tris-(2-aminoethyl)amine has been developed. These conditions tolerate a wide degree of functionality on both the partners as shown by the numerous examples synthesized and broaden the scope of C-S bond forming reactions.

**OTHER CONTENT**

Calendar

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\*Corresponding author

Supplementary data available via ScienceDirect

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