

Organic & Biomolecular Chemistry

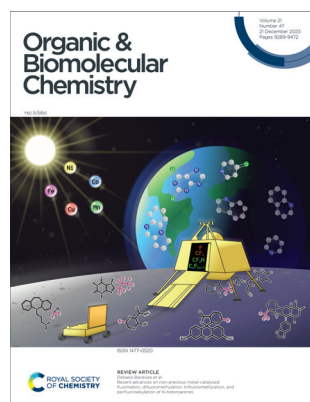
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Cover

See Debasis Banerjee *et al.*, pp. 9298–9315.

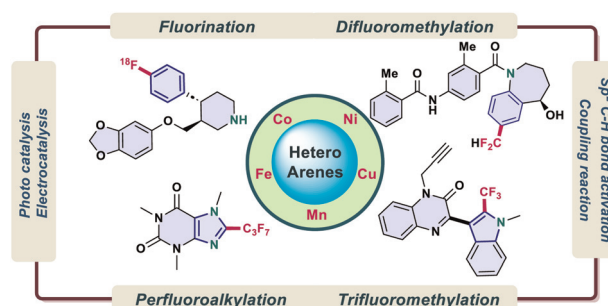
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REVIEW

9298

Recent advances on non-precious metal-catalysed fluorination, difluoromethylation, trifluoromethylation, and perfluoroalkylation of N-heteroarenes

Purushotam, Atanu Bera and Debasis Banerjee*

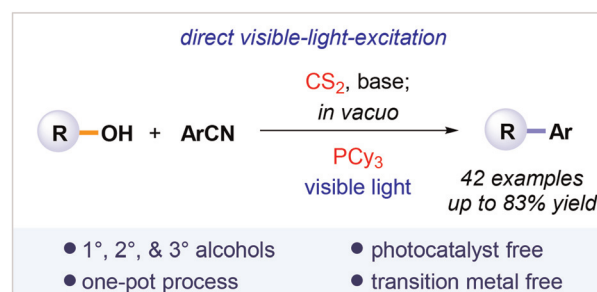


COMMUNICATIONS

9316

Deoxygenative coupling of alcohols with aromatic nitriles enabled by direct visible light excitation

Yanjiao Xiong and Xuesong Wu*



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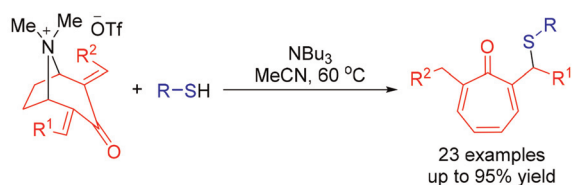


COMMUNICATIONS

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Convenient synthesis of thiolated 2,7-disubstituted tropones via double C–N bond cleavage of tropinone derivatives

Lei Huang, Yan Wang, Xin Liu and Shi-Kai Tian*

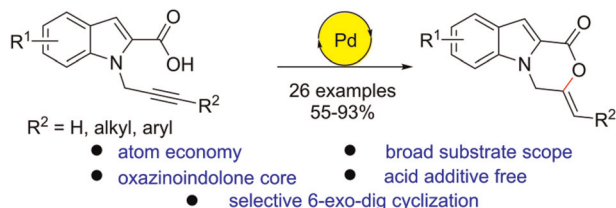


- ✓ Readily available feedstocks
- ✓ Compatible with moisture
- ✓ Transition-metal-free conditions
- ✓ Good functional group tolerance

9326

Synthesis of tricyclic oxazinoindolones via Pd-catalyzed intramolecular addition of carboxylic acids to alkynes

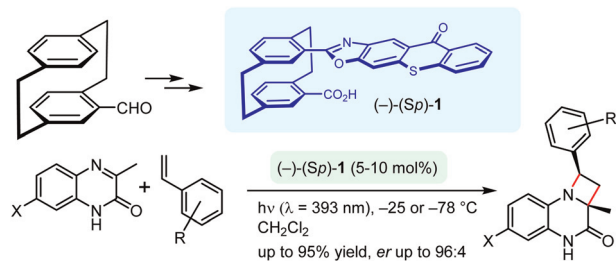
Subhamoy Mukhopadhyay, Bhavya Khaitan and Shikha Gandhi*



9330

The hamburger-shape photocatalyst: thioxanthone-based chiral [2.2]paracyclophane for enantioselective visible-light photocatalysis of 3-methylquinoxalin-2(1H)-one and styrenes

Shou-Chih Huo, Ranadheer Reddy Indurmuddam, Bor-Cherng Hong,* Chuan-Fu Lu and Su-Ying Chien



9337

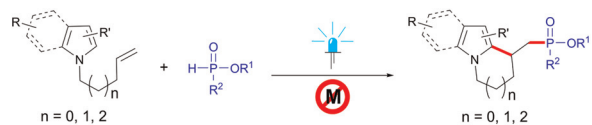
Reductive transamidation of tertiary amides with nitroarenes enabled by magnesium and chlorosilane

Shangru Yang, Haohao Zeng, Meiming Luo* and Xiaoming Zeng*



COMMUNICATIONS

9341



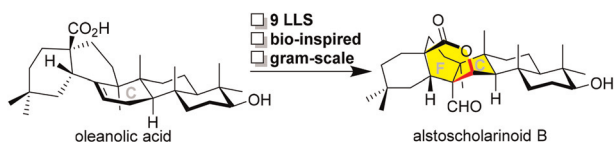
● HAT pathway ● metal-free ● cascade cyclization ● 42 examples, up to 82% yield

Visible light-enabled synthesis of phosphorylated indolizine and pyridoindole derivatives via HAT-mediated radical cascade cyclization

Kunrong Shen, Chuan Feng, Yilei Liu, Dong Yi, Peng Lin, Huifang Li, Yimou Gong, Siping Wei,* Qiang Fu* and Zhijie Zhang*

PAPERS

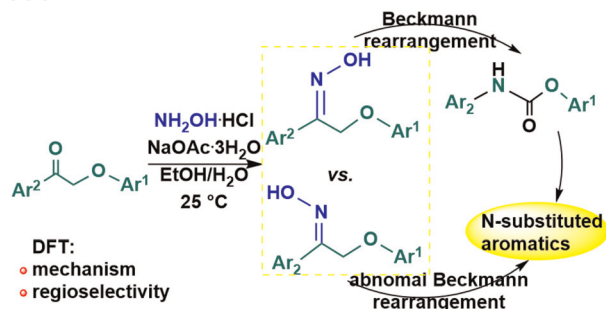
9346



Gram-scale synthesis of alstoscholarinoid B via a bio-inspired strategy

Long He, Wenting Zhang, Xiaocheng Zhang, Xiaohui Wu, Yimeng Han, Jiahang Yan* and Weiqing Xie*

9356

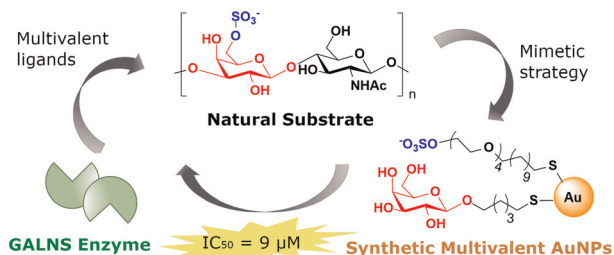


Molecular mechanism of the transformation of oxidized lignin to N-substituted aromatics

Xueli Mu, Shijie Sun, Zhihao Li, Lingli Han,* Kang Lv* and Tao Liu*

9362

Multivalent AuNPs modulate the activity of lysosomal enzyme GALNS



Gold nanoparticles decorated with monosaccharides and sulfated ligands as potential modulators of the lysosomal enzyme N-acetylgalactosamine-6-sulfatase (GALNS)

Francesca Buco, Camilla Matassini,* Costanza Vanni, Francesca Clemente, Paolo Paoli, Cosimo Carozzini, Alice Beni, Francesca Cardona, Andrea Goti, Sergio Enrique Moya, Maria Grazia Ortore, Patrizia Andreozzi, Amelia Morrone and Marco Marradi*

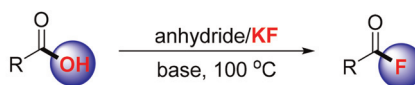


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9372

Synthesis of acyl fluorides through deoxyfluorination of carboxylic acids

Mengjie Cen, Xi Yang, Shanshan Zhang, Liguang Gan, Long Liu* and Tieqiao Chen*

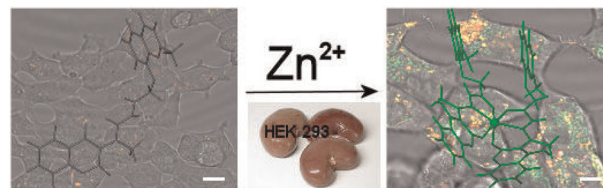


- Readily available materials
- Safe inorganic F⁻ source
- Broad scope
- Scalable under solvent free conditions

9379

A molecular chemodosimeter to probe "closed shell" ions in kidney cells

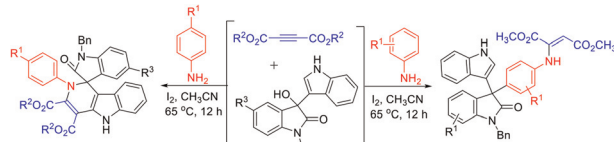
Amine Assel, Meagan M. Stanley, Rashid Mia, Bisma Boulila, Peter J. Cragg, Iyanuoluwani Owolabie, Meredith Hetrick, Alex Flynt, Karl J. Wallace* and Hichem Ben Jannet



9392

Construction of diverse spirooxindoles via a domino reaction of arylamines, but-2-ynedioates and 3-hydroxy-3-(indol-3-yl)indolin-2-ones

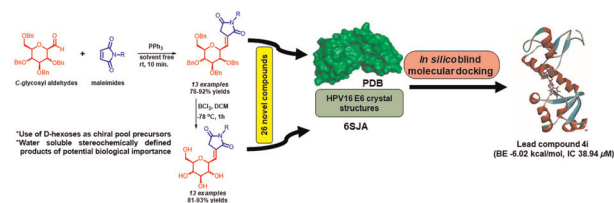
Ling-Yun Zhu, Jing Sun,* Dan Liu and Chao-Guo Yan*



9398

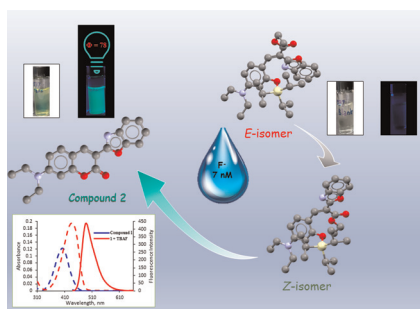
Solvent-free synthesis and *in-silico* molecular docking study of (*E*)-3-(β-C-glycosylmethylidene)-*N*-aryl/alkyl succinimides

Bhawani Shankar,* Tejveer Singh, Banty Kumar, Aditi Arora, Sumit Kumar and Brajendra K. Singh



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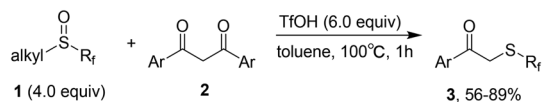
9410



Shining light on fluoride detection: a comprehensive study exploring the potential of coumarin precursors as selective turn-on fluorescent chemosensors

Sara Amer, Vincent Joseph, Bat-El Oded, Vered Marks, Flavio Grynszpan* and Mindy Levine*

9416

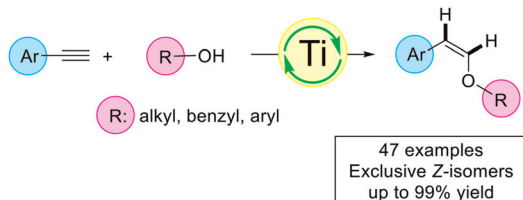


R_f = CF₃, C₃F₇, C₄F₉, C₆F₁₃, C₈F₁₇
alkyl = *i*-propyl, cyclohexyl

The perfluoroalkylthiolation/decarbonylation reaction of 1,3-diketones with perfluoroalkanesulfenic acids

Jia-Hui Li, Min Jiang and Jin-Tao Liu*

9422



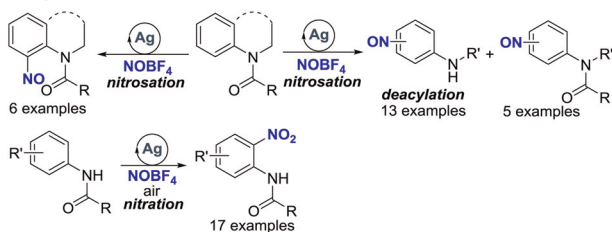
- Environmentally friendly conditions
- Exclusive Z-selectivity

- Excellent substrate generality
- Simple experimentations

Titanium-catalyzed highly stereoselective anti-Markovnikov intermolecular hydroalkoxylation of alkynes to prepare Z-enol ethers

Yang Wang, Biao Ma, Yingning Mao, Zhihui Wang, Jinsong Peng, Chunxia Chen* and Zhanyu Li*

9428



Silver-catalyzed nitrosation and nitration of aromatic amides using NOBF₄

Sa Li, Wentao Liu and Xiao-Feng Xia*

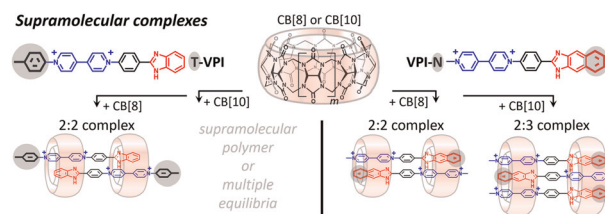


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Controlled oligomeric guest stacking by cucurbiturils in water

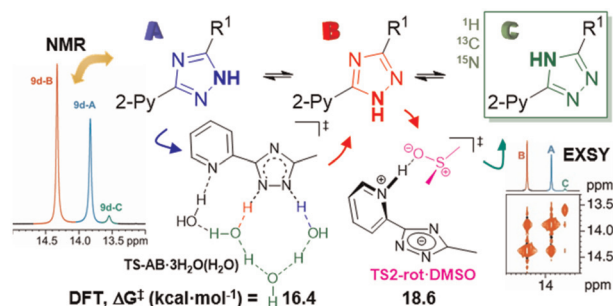
Fengbo Liu, Amine Kriat, Roselyne Rosas, David Bergé-Lefranc, Didier Gigmes, Simon Pascal, Olivier Siri, Simin Liu,* Anthony Kermagoret* and David Bardelang*



9443

Solvent- and functional-group-assisted tautomerism of 3-alkyl substituted 5-(2-pyridyl)-1,2,4-triazoles in DMSO–water

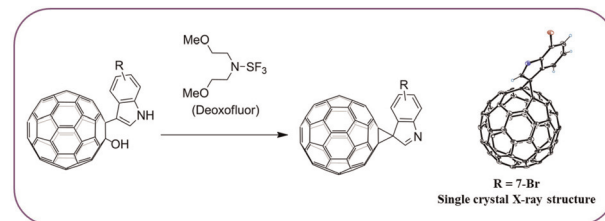
Jesús García-López,* Dmytro M. Khomenko,* Borys V. Zakharchenko, Roman O. Doroshchuk, Viktoriia S. Starova, María José Iglesias, Rostyslav D. Lampeka and Fernando López-Ortiz*



9459

Synthesis of spiro[indolenine]-methanofullerenes via Deoxofluor promoted deoxygenative cyclopropanation of 1,2-(3-indole)-fullerenols

Wen-Bin Ma, Long-Ge Wang, Shou-Rui Chen, Xiang Zhang, Jun Xuan and Fei Li*



9463

Chimeric GFP–uracil based molecular rotor fluorophores

Mria Chowdhury, Julia A. Turner, Daniela Cappello, Maryam Hajjami* and Robert H. E. Hudson*

