

Organic & Biomolecular Chemistry

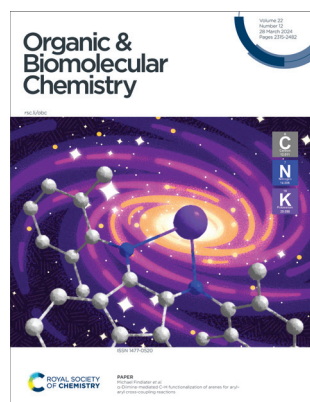
An international journal of synthetic, physical and biomolecular organic chemistry

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Cover

See Michael Findlater *et al.*, pp. 2389–2394.

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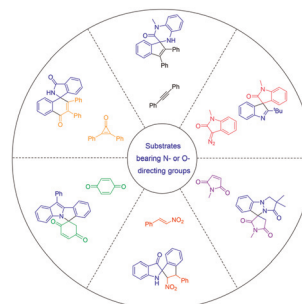
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REVIEWS

2324

C–H activation-initiated spiroannulation reactions and their applications in the synthesis of spirocyclic compounds

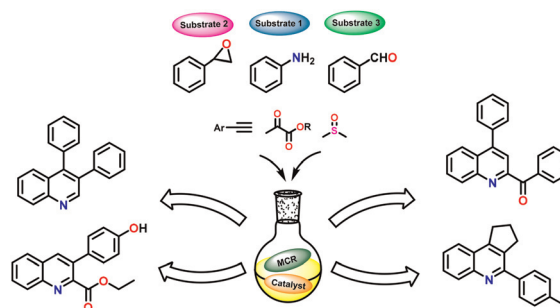
Qianting Zhou, Bin Li, Xinying Zhang* and Xuesen Fan*



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Recent advancement in the synthesis of quinoline derivatives via multicomponent reactions

Arnab Mandal and Abu Taleb Khan*



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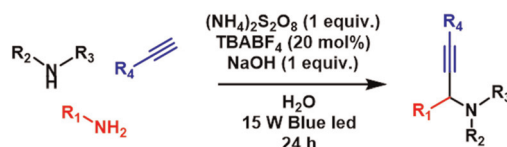
**Fundamental questions
Elemental answers**

COMMUNICATIONS

2359

Metal-free synthesis of propargylamines via light-mediated persulfate activation and phase-transfer catalysis

Cesar A. D. Zaragoza, Gabriel S. G. Peagno, Ana J. A. Minguine and Ailton G. Salles, Jr*

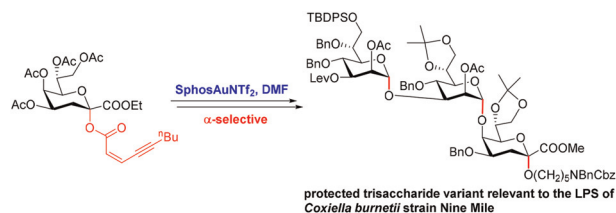


- Metal-free protocol
- In water
- Multicomponent
- Merging photoactivation and phase transfer catalysis

2365

Additive-assisted synthesis of α -Kdo glycosides with peracetylated glycosyl ynenote as a donor

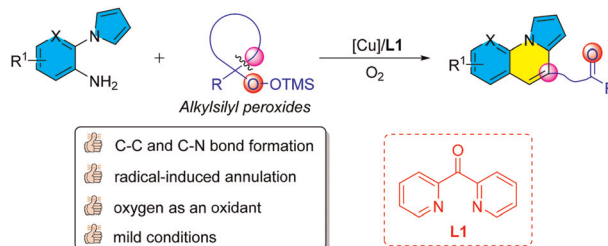
He Miao, Siqian Lu, Hongyu Chen, Jintao Shang, Jibin Zheng and You Yang*



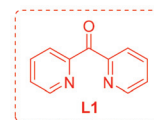
2370

Copper-catalyzed oxidative cyclization of 2-(1*H*-pyrrol-1-yl)aniline and alkylsilyl peroxides: a route to pyrrolo[1,2-*a*]quinoxalines

Zhenyu An, Man Miao, Fengkai Sun, Xiao-Bing Lan, Jian-Qiang Yu, Xiaoli Guo* and Jian Zhang*



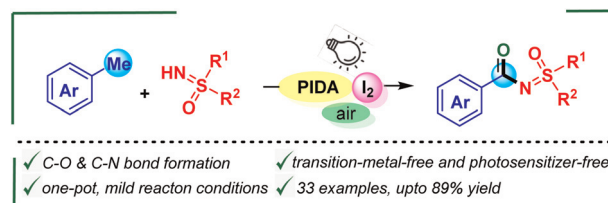
- 👍 C-C and C-N bond formation
- 👍 radical-induced annulation
- 👍 oxygen as an oxidant
- 👍 mild conditions



2375

PIDA/I₂-mediated photo-induced aerobic *N*-acylation of sulfoximines with methylarenes

Nikita Chakraborty, Kamal K. Rajbongshi, Amisha Gondaliya and Bhisma K. Patel*

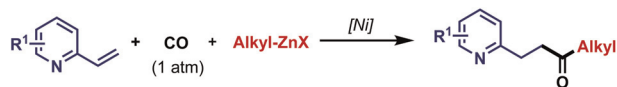


- ✓ C-O & C-N bond formation
- ✓ transition-metal-free and photosensitizer-free
- ✓ one-pot, mild reaction conditions
- ✓ 33 examples, upto 89% yield



COMMUNICATIONS

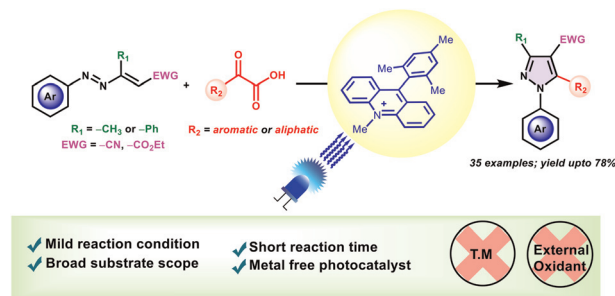
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Nickel-catalyzed acylation of vinylpyridine with alkylzincs under 1 atm CO

Wenyi Huang, Chenglong Wang, Yetong Zhang, Jingping Qu and Yifeng Chen*

2384

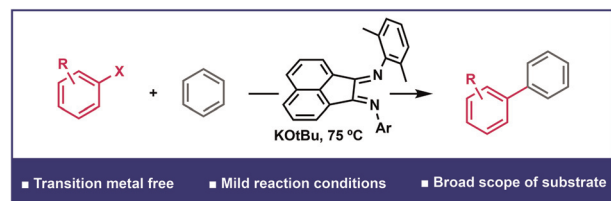


Visible light-induced organo-photocatalyzed route to synthesize substituted pyrazoles

Koustav Pal, Vinjamuri Srinivasu, Sourabh Biswas and Devarajulu Sureshkumar*

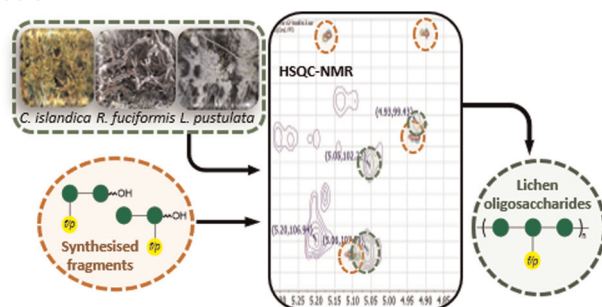
PAPERS

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 α -Diimine-mediated C–H functionalization of arenes for aryl–aryl cross-coupling reactions

Kotono Babaguchi, Deepika Bedi, Miguel A. Chacon-Teran and Michael Findlater*

2395



Synthesis of galactomannan fragments to help NMR assignment of polysaccharides extracted from lichens

Louis-Philippe David, Solenn Ferron, Bénédicte Favreau, Oznur Yeni, Simon Ollivier, David Ropartz, Isabelle Compagnon, Vincent Ferrières,* Françoise Le Dévéhat* and Laurent Legentil*

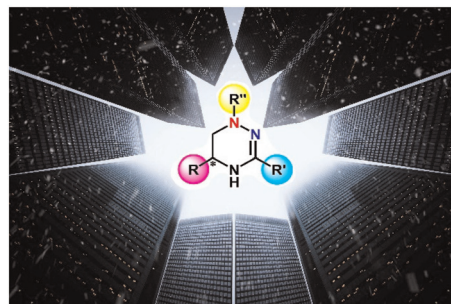


PAPERS

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A new synthetic route towards multifunctionalized cyclic amidrazones for feeding chemical space

Johann Leblanc, Margaux Boutin, Clara Vega, Monique Mathé-Allainmat, Sandrine Grosse, Jérôme Guillemont, Jacques Lebreton and Arnaud Tessier*



2409

TsCl promoted deoxygenative phosphorothiolation of quinoline *N*-oxides towards *S*-quinolyl phosphorothioates

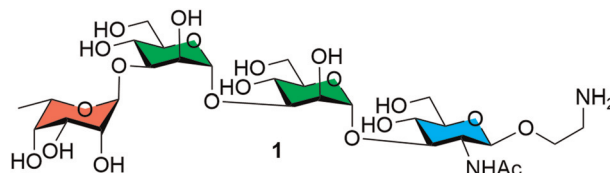
Li-Yao Wu, Tian Huang, Zhong-Ying Tian, Xiang-Qin Xu, Sha Peng* and Long-Yong Xie*



2414

Chemical synthesis of 6-deoxy-D-talose containing a tetrasaccharide repeating unit of the O-specific polysaccharide from *Enterobacter cloacae* G3422 in the form of its 2-aminoethyl glycoside

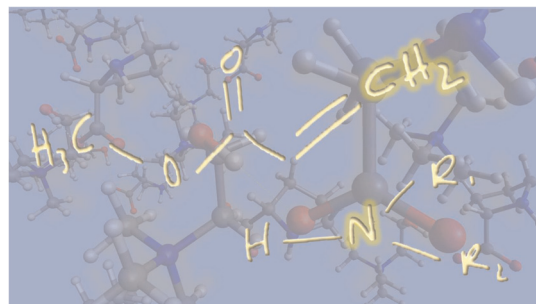
Subrata Das, Sanajit Maiti and Balaram Mukhopadhyay*



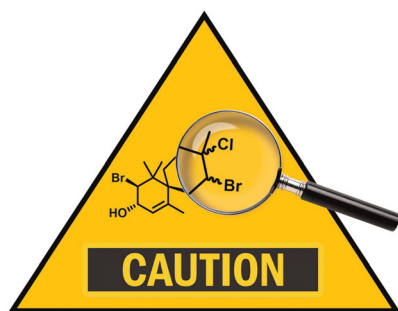
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Reinvigorating aza-Michael reactions under ionic liquid catalysis: a greener approach

Silvia Izquierdo,* Pedro Cintas, Carlos J. Durán-Valle, Juan García de la Concepción and Ignacio M. López-Coca*



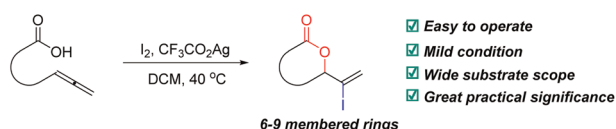
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Study of heavy atom influence on poly-halogenated compounds using DP4/MM-DP4+/DP4+: insights and trends

Lucas Passaglia, María M. Zanardi and Ariel M. Sarotti*

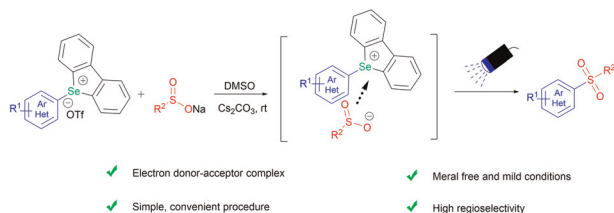
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I₂/CF₃CO₂Ag-mediated iodolactonization of various allenoic acids to access versatile 6- to 9-membered ring vinyl iodolactones

Xiaobo Bao, Guoli Wang, Xu Dong, Mengxiao Zhu, Lili Yang, Junjie Zhu, Qingyuan Shi, Hongzhen Zhang and Dongyin Chen*

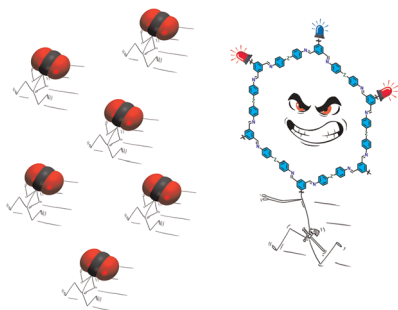
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A visible-light-catalyzed sulfonation reaction of an aryl selenonium salt via an electron donor–acceptor complex

Yuqing Wang, Liang Zhao, Xinyu Hao, Kun Jin, Rong Zhang, Chunying Duan and Yaming Li*

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POPs to COFs by post-modification: CO₂ chemisorption and dissolution

Ayham A. Aladwan, Abdussalam K. Qaroush,* Ala'a F. Eftaiha, Suhad B. Hammad, Feda M. Al-Qaisi, Khaleel I. Assaf and Timo Repo

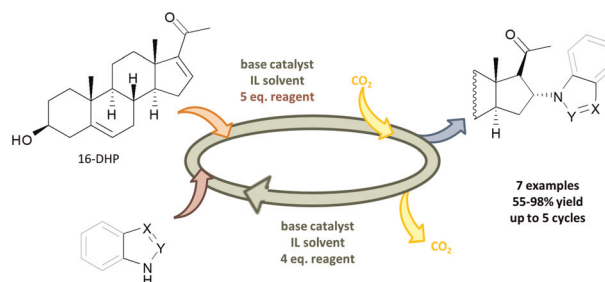


PAPERS

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Catalyst- and excess reagent recycling in aza-Michael additions

Lilla Maksó, Boglárka Szele, Dávid Ispán, Ágnes Gömöry, Sándor Mahó and Rita Skoda-Földes*



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Construction of indolizine scaffolds from α,ω -alkynoic acids and α,ω -vinylamines via sequential-relay catalysis in "one pot"

Jiami Liu, Yi Lu, Lingxuan Zhu and Xinsheng Lei*

