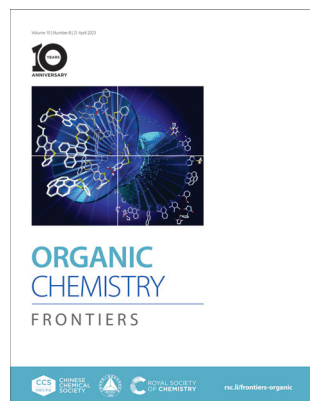


IN THIS ISSUE

ISSN 2052-4129 CODEN OCFRA8 10(8) 1869–2116 (2023)



Cover

See Hideto Ito,
Kenichiro Itami *et al.*,
pp. 1880–1889.

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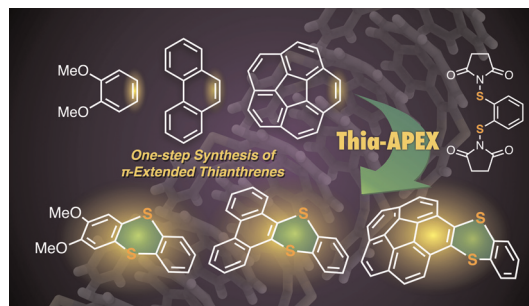
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RESEARCH ARTICLES

1880

One-step synthesis of polycyclic thianthrenes from unfunctionalized aromatics by thia-APEX reactions

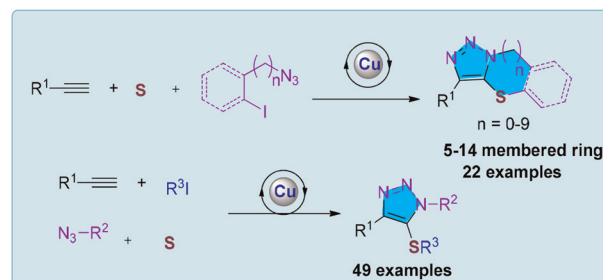
Kou P. Kawahara, Hideto Ito* and Kenichiro Itami*



1890

Copper(I)-catalyzed multicomponent interrupted click reaction: modular synthesis of triazole sulfides from elemental sulfur

Pengfei Sun, Weiguo Wang, Jilong Lai, Huang Yan,
Chen-Ho Tung and Zhenghu Xu*



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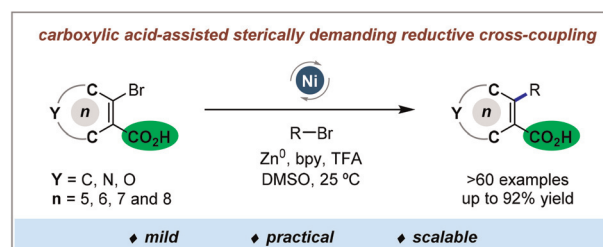


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1897

Carboxylic acid-assisted sterically demanding reductive cross-coupling between cycloalkenyl and alkyl bromides

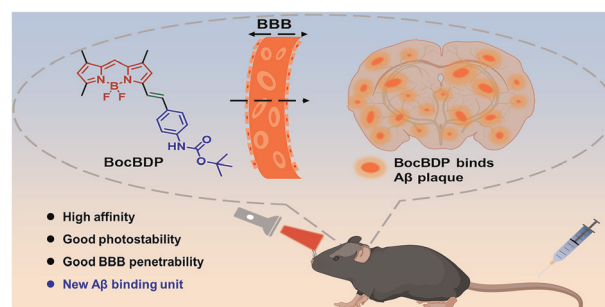
Jinglin An, Xue Zhou, Yifan Zhang, Zhenfei Ye, Qianyou Guo, Hao Song, Zhenlei Song,* Xiao-Yu Liu and Yong Qin*



1903

A BODIPY-based probe for amyloid- β imaging *in vivo*

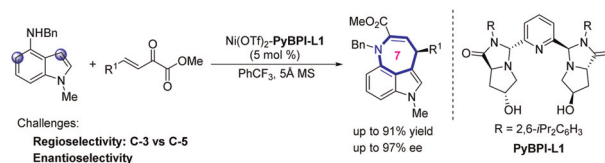
Mingguang Zhu, Guoyang Zhang, Ziwei Hu, Chaofeng Zhu, Yixiang Chen, Tony D. James,* Lijun Ma* and Zhuo Wang*



1910

Asymmetric synthesis of 7-membered-ring-bridged 3,4-fused tricyclic indoles via Friedel–Crafts alkylation/annulation

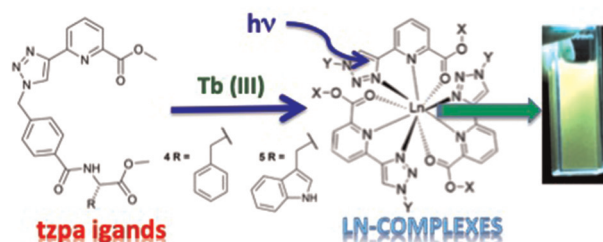
Bai-Yu Xue, Chen-Ying Hou, Xiao-Bing Wang, Ming-Sheng Xie* and Hai-Ming Guo*



1915

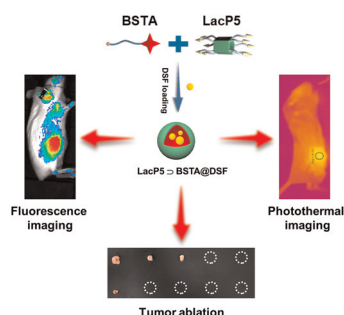
Synthesis of α -amino acid derived (1,2,3-triazol-4-yl)-picolinamide (tzpa) ligands and their corresponding luminescent Tb(III) complexes

Isabel N. Hegarty, Chris S. Hawes and Thorfinnur Gunnlaugsson*



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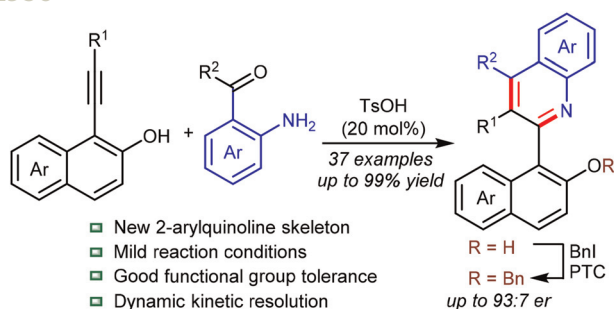
1927



A supramolecular near-infrared nanophotosensitizer from host-guest complex of lactose-capped pillar[5]arene with aza-BODIPY derivative for tumor eradication

Jiaxuan Li, Xiaomeng Lv, Jiahui Li, Wenjuan Jin, Zelong Chen, Yafei Wen, Zhichao Pei and Yuxin Pei*

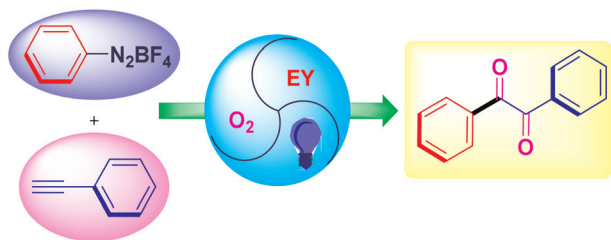
1936



Synthesis of quinol-type heterobiaryls via an acid-catalyzed heteroannulation of alkynes and o-aminobenzaldehydes

Qing-Song Jian, Bo-Bo Gou, Shao-Jie Wang, Huai-Ri Sun, Atif Sharif, Yong-Qiang Wang, Ling Zhou* and Jie Chen*

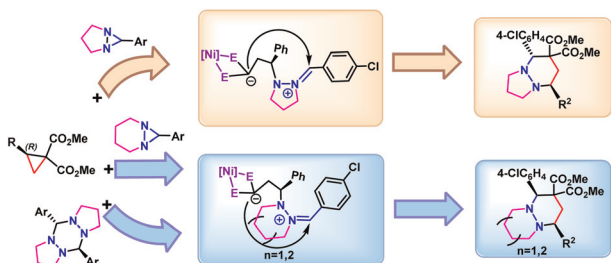
1942



Transition metal-free, photocatalytic arylation and dioxygenation for vicinal diketone synthesis using alkynes and arene diazonium salts

Baoli Zhao, Xiaoting Yin, Haifeng Li, Kai Cheng* and Jie-Ping Wan*

1948



A DFT study of Ni-catalyzed (3 + 3)-annulation between donor-acceptor cyclopropanes and diaziridines

Song-Shan Dai, Xiao-jiao Yang, Ran Fang,* Alexander M. Kirillov and Lizi Yang*

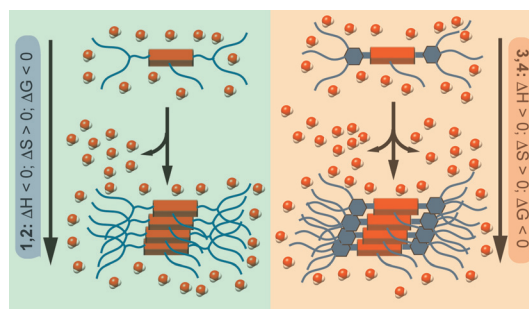


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1959

Thermodynamics of the self-assembly of *N*-annulated perylene bisimides in water. Disentangling the enthalpic and entropic contributions

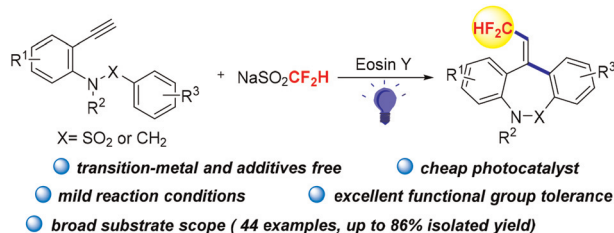
Manuel A. Martínez, Daniel Aranda, Enrique Ortí, Juan Aragón* and Luis Sánchez*



1968

Photochemical difluoromethylation of alkynes: synthesis of CF₂H-substituted seven-membered dioxodibenzothiazepines and dibenzazepines

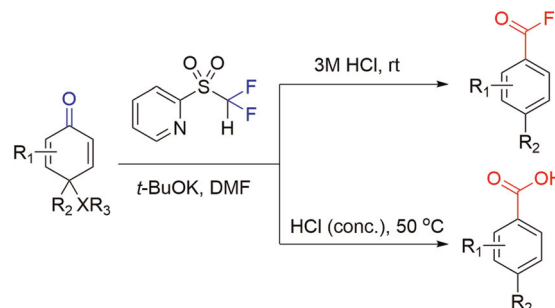
Xiaoyu Chen, Yang Geng, Bo Liu, Yu Zhu, Dapeng Zou,* Yangjie Wu* and Yusheng Wu*



1975

Preparation of benzoyl fluorides and benzoic acids from phenols via a dearomatization–rearomatization strategy

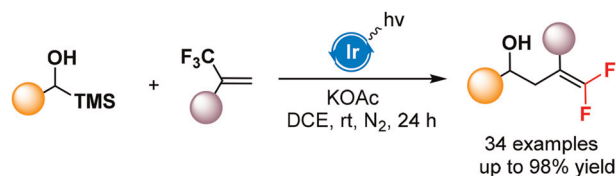
Meixian Yang, Xinyue Huang, Wenjun Miao, Lan Yi, Jiajing Cai, Zhenghuan Zhao, Jia He* and Dachuan Qiu*



1981

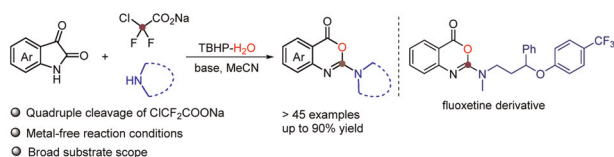
Visible-light-promoted defluorinated alkylation of trifluoromethyl alkenes initiated by radical [1,2]-Brook rearrangement: facile synthesis of gem-difluoro homoallylic alcohol derivatives

Tao Qin, Chunlu Xu, Ge Zhang* and Qian Zhang



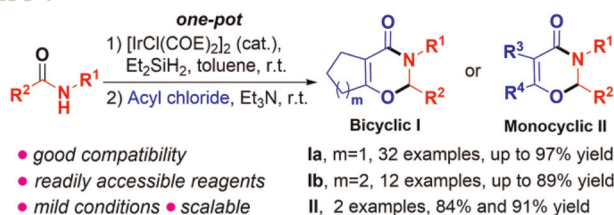
RESEARCH ARTICLES

1988


TBHP-promoted multicomponent reaction to access 2-aminobenzoxazinones using sodium chlorodifluoroacetate as the C1 synthon

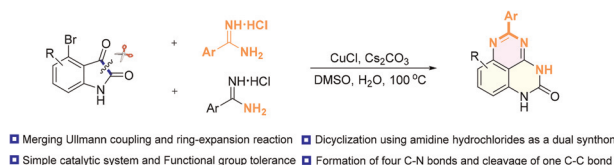
Huijuan Li, Yongfeng Wang, Cheng Xu,* Jingwen Zou, Yaxuan Wu and Guodong Yin*

1994


One-pot synthesis of 1,3-oxazin-4-ones through an Ir-catalyzed mild formal condensation reaction of secondary amides with acyl chlorides

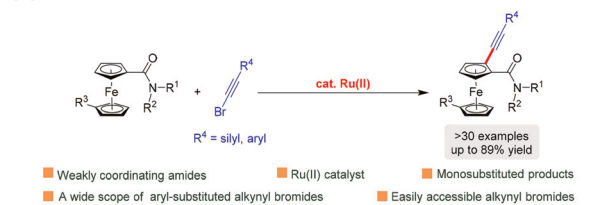
Si-Jia Yu, Jie Li, Jian-Liang Ye* and Pei-Qiang Huang*

2002


Merging Ullmann-type cyclization and ring-expansion: a facile assembly of pyrimidine-fused quinazolinones by copper catalysis

Zhen-Wei Sun, Na Luo, Xiang Zhang, Wen-Jun Tuo, Xiao-Qiang Hu* and Feng-Cheng Jia*

2007


 Ru(II) -catalyzed C–H alkynylation of ferrocenes with bromoalkynes directed by carboxamide groups

Ru-Yuan Zhao, Jing Zhang, Rui-Han Niu, Jin-Heng Li* and Bo Sun*

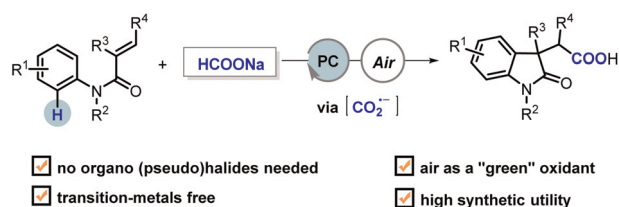


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2013

Transition-metal free oxidative carbo-carboxylation of alkenes with formate in air

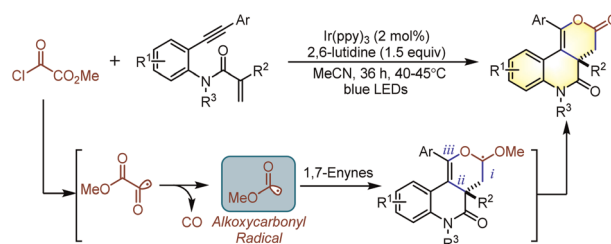
Pei Xu, Hui Xu, Sai Wang, Tian-Zi Hao, Si-Yi Yan, Dong Guo* and Xu Zhu*



2018

Visible-light-induced alkoxy-carbonylation/cyclization of 1,7-enynes: synthesis of dihydropyranones containing all-carbon quaternary centers

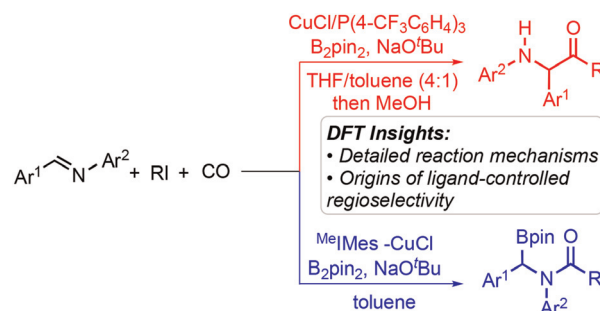
Jian-Qiang Chen, Qi Chen, Baofu Chen* and Jie Wu*



2024

Mechanism and origins of ligand-controlled regioselectivity of copper-catalyzed borocarbonylation of imines with B_2pin_2 and alkyl iodides: a computational study

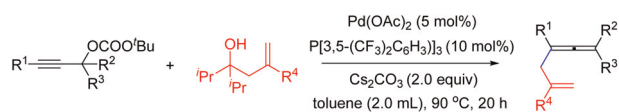
Xinyi Song, Hongli Wu, Jinjin Yang, Wentao Zhao* and Genping Huang*



2033

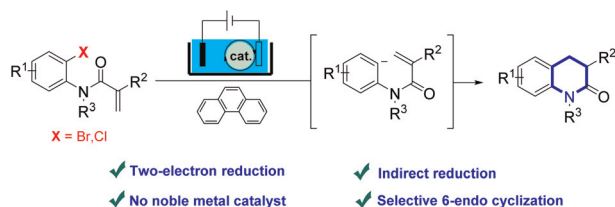
Palladium-catalyzed allylic allenylation of homoallyl alcohols with propargylic carbonates

Ping-Xin Zhou,* Murong Wang, Xiang Li, Xueyan Du, Xiaozhe Yang, Han Wang, Tangqiang Sun,* Feng Ren* and Yong-Min Liang



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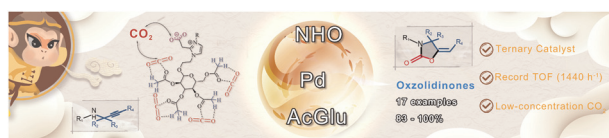
2039



Indirect electrochemical reductive cyclization of o-halophenylacrylamides mediated by phenanthrene

Xue-Qi Zhou, Pei-Bo Chen, Qiang Xia, Ting-Kai Xiong, Xue-Jun Li, Ying-Ming Pan, Mu-Xue He* and Ying Liang*

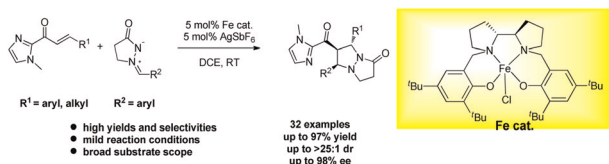
2045



Integration of CO₂ capture, activation, and conversion with a ternary acetylglucosyl 2-methylimidazolium modified Pd catalyst

Zhong-Gao Zhou,* Peng He, Jing Li, Jia Zhang, Guo-Hai Xu, Shi-Yong Zhang, Xiao-Xiao Deng, Zi-Yi Du, Guo-Tian Luo, Hong-Yu Zhen, Yi-Wang Chen and Chun-Ting He*

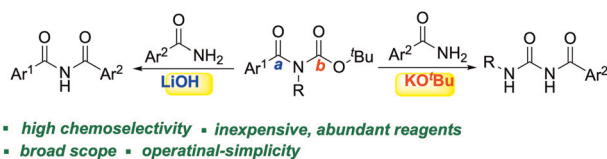
2054



Fe-BPsalan complex-catalyzed asymmetric 1,3-dipolar [3 + 2] cycloaddition reaction of N,N'-cyclic azomethine imines with α,β-unsaturated acyl imidazoles

Hao Lu, Kai-Ge Chen, Gong-Xin Li, Kun Zhan, Hao-Yang Wang, Zhen-Jiang Xu* and Chi-Ming Che*

2061



Cation-controlled chemoselective synthesis of N-arylsureas and imides via amidation of N-Boc arylamides

Jiamin Wang, Sujuan Shuai, Lishe Gan, Yongxin Luo, Huimin Jin, Lingfeng Chen, Dong Zou, Guang Liang,* Patrick J. Walsh* and Jie Li*

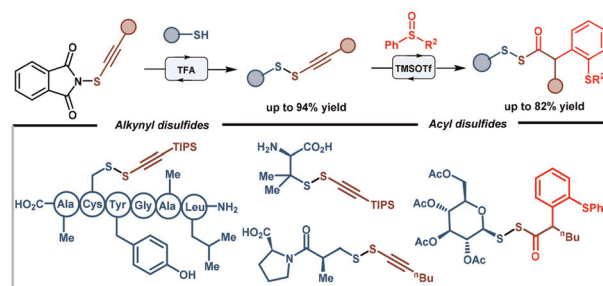


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2070

Construction of alkynyl and acyl disulfides directly through thiol-modification with *N*-alkynylthio phthalimides under acid catalysis

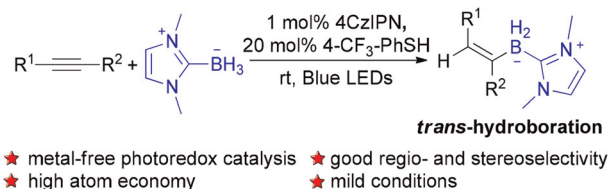
Yao-Nan Xue, Kai Feng, Jun Tian, Juan Zhang, Hong-Hong Chang and Wen-Chao Gao*



2075

Transition metal-free radical *trans*-hydroboration of alkynes with NHC-boranes *via* visible-light photoredox catalysis

Ding-Chang Li, Jia-Hao Zeng, Yu-Hang Yang and Zhuang-Ping Zhan*

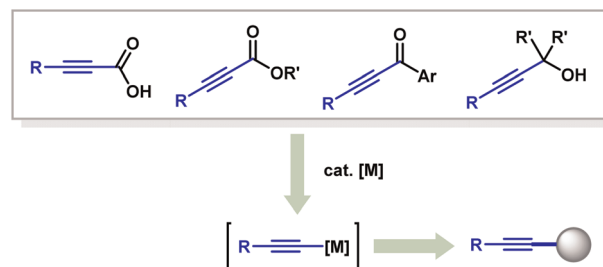


REVIEWS

2081

Transition metal-catalyzed alkynylation reactions *via* alkynyl carbon–carbon bond cleavage

Hairui Yuan, Qi Zhou and Jianbo Wang*



2095

Selective preparative 'oxidase phase' in sesquiterpenoids: the radical approach

Maria Kourgiantaki, Georgia G. Bagkavou, Christos I. Stathakis* and Alexandros L. Zografos*

