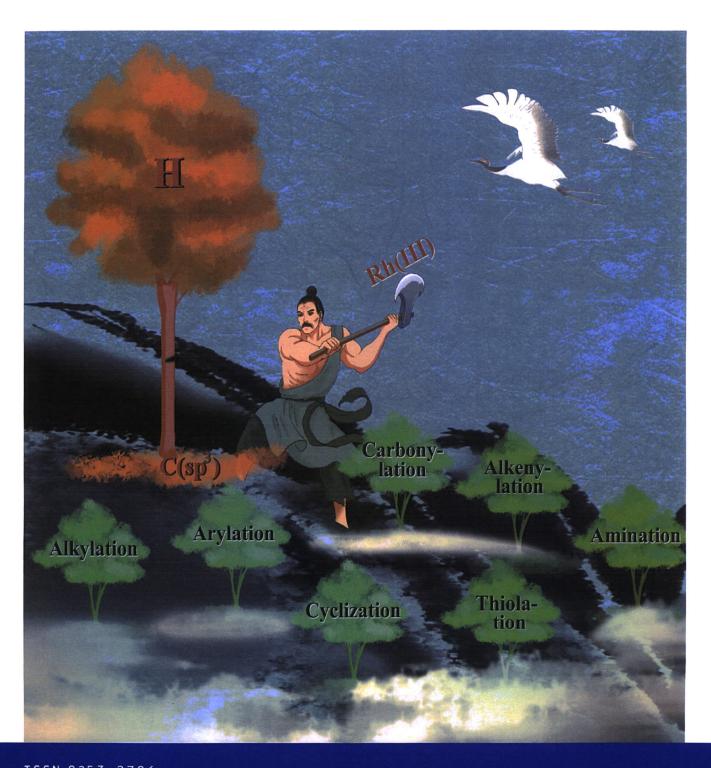




Chinese Journal of Organic Chemistry

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有机化学(月刊)

Chinese Journal of Organic Chemistry

(YOUJI HUAXUE)

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目 次

	{催化硅基	化反应研究	进展	•••••		•••••			•••••		
••••••	•••••	•••••		程 异	- 胡	荣静*	陈晓琪	杨 浩	牛晓康	杨 磊*	(323
氮宾/炔烃复分解	串联反应	研究进展	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • •		• • • • • • • • • • • • • • • • • • • •			•••••		
••••••••	•••••		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • •			… 洪科苗	黄晶晶	姚铭瀚	徐新芳*	(344
CF3Br 参与的三第	氰甲基化反	[应研究进展		• • • • • • • • • • • • • • • • • • • •		• • • • • • • • •		•••••	•••••	•••••	
			•••••	马然	松又	『周斌	王克虎	黄丹凤	胡雨来*	闾肖波	(353
基于有机光致变	色的聚集词	秀导发光分子	的研究进	展	•••••	•••••			•••••	•••••	
		••••••	丁 伟	程勃雯	E	萌	窦清玉*	李思颖	张鹏	罗千福*	(363
硅亲电试剂参与											Ì
•••••											(384
铑(III)催化的 C(s											`
••••••	-										(391
手性化合物绝对								.,	•		(
***************************************											(424
烷基、芳基和氟							•	•	• •	-	(
•••••											(434
烯基自由基参与								•			(
											(458
乙烯基/芳基鏻盐									,		(
											(47)
							·	Д — Д	4 /// 1	9 7	(. , ,
研究论文											
			小中田米公	H- Alm							
————— 布朗斯特酸催化	合成亚砜、	亚胺基二氢亚	1.144 四两42-171	十初 …							
布朗斯特酸催化 										姜文凤*	(48)
**********	•••••	••••••	•••••	••••••	•••••	•••••	…孙鑫浩	段学伦	宋汪泽*	- •	(487
	a 的蜘蛛毒	素多肽 GsM	ITx4 的高刻	 效合成及		········ 价······	孙鑫浩	段学伦	宋汪泽*	•••••	•
基于 DIC/Oxyma 马艳楠	a 的蜘蛛毒 刘雅妮	素多肽 GsM 王金艳	ITx4 的高 ³ 陈西同	 效合成及 <i>尹</i>	 没活性评 昊 i	······ 价····· 迟巧娜	···孙鑫浩 贾世玺	段学伦	宋汪泽*	王克威	(48°
基于 DIC/Oxyma 马艳楠	a 的蜘蛛毒 刘雅妮 噻嗪-2,2-二	素多肽 GsM 王金艳 二氧化物的烯	ITx4 的高 [§] 陈西同 丙基化反	から成 <i>及</i> かか かか かが かがった。	 注活性评 昊 i	价······ 皮巧娜	···孙鑫浩 贾世笙	段学伦	宋汪泽*	王克威	(498
基于 DIC/Oxyma 马艳楠 苯并[e][1,2,3]噁: 	a 的蜘蛛毒 刘雅妮 噻嗪-2,2-二 王 凤	素多肽 GsM 王金艳 二氧化物的烯 黄丹风*	ITx4 的高 ⁵ 陈西同 丙基化反 赵鵬飞	 対合成及 尹 立研究・ 杨	·····································	价······ 迟巧娜 ······· 韩侗育	孙鑫浩 贾世玺 王克虎	段学伦 杜姗姗 王君姣	宋汪泽* 齐昀坤* 苏瀛鹏	王克威 胡雨来*	(49
基于 DIC/Oxyma 马艳楠 苯并[e][1,2,3]噁 ········	a 的蜘蛛毒 刘雅妮 噻嗪-2,2-二 王 凤 ,类似物的	素多肽 GsM 王金艳 二氧化物的烯 黄丹凤* 合成及杀蚊?	ITx4 的高家 陈西同 丙基化反。 赵鵬飞	wo of 成及 ・		 价······ 足巧娜 纬侗育	···孙鑫浩 贾世玺 王克虎	段学伦 杜姗姗 王君姣	宋汪泽* 齐昀坤* 苏瀛鹏	王克威 胡雨来*	(498 (50°
基于 DIC/Oxyma 马艳楠 苯并[e][1,2,3]噁 ········	a 的蜘蛛毒 刘雅妮 噻嗪-2,2-二 王 凤 ,类似物的	素多肽 GsM 王金艳 二氧化物的烯 黄丹风* 合成及杀蚊》	ITx4 的高 ⁵ 陈西同 丙基化反 赵鵬飞 舌性······	数合成及 尹 立研究・ 杨	没活性评 昊 i	价 许何育 就鑫磊	孙鑫 浩 贾世玺 王克虎 许磊川	段学伦 杜姗姗 王君姣 安鑫鲲	宋汪泽* 齐昀坤* 苏瀛鹏 蒋家珍	王克威 胡雨来* 王明安*	(49

^{*} 通讯联系人.

Ag-Cu 负载的胺基石墨烯催化	β-羟基-1,2,3-三唑	绿色合成研	究					
一	•							(53
二氢噁唑并[5,4-d]吡咯并[1,2-d 曾 艳 聂礼飞 牛	ŋ嘧啶酮的合成及 超 阿依提拉							(5)
新型泰乐菌素衍生物的设计合								(54
加土朱小国东的土物的区门百								(55
基于 9,9'-螺二芴和萘的纯碳氢								(33
								(57
ent-Kaurene 全碳骨架中 AB 环								(3)
								(58
新型 5 位与 6 位取代的吲唑类								(50
								(59
无金属条件下亚磺酸钠与酚类								(
•••••						蔡 琥*		(60
含取代吡唑新型苯甲酰胺类化	合物的合成及抗真	[菌活性研究	······································					`
*			王 伟	武复冉	马一丹	徐 丹*	徐 功*	(60
吲唑吡啶喹啉铱负载催化剂的	合成及在 2-氨基苯	床并噻唑 №-%	完基化反应中	中的应用				
		••••••	… 李家豪	刘洪强	张 博	葛冰洋	王大伟*	(61
温和条件下以芳基胺为原料 Ci	uI 催化下区域选择	译性合成 3-芳	基香豆素					
		•••••	… 孙亚敏	李锡勇	袁金伟*	余加琳	刘帅楠	(63
电化学氧化下喹喔啉-2(1H)-酮	的三氟甲基化及甲	包描述符对反	应性能的评	价	••••			
	•••••	…锅小龙	王玉贤	赵志强	王 庆	左 剑*	王陆瑶*	(64
亮点述评								
交流电促进的自由基交叉偶联								
	•••••					陈 娜	徐海超*	(65
三元催化剂协同催化的不对称	三组分烯丙基烷基	基化反应		• • • • • • • • • • • • • • • • • • • •				
							,	(65
新型轴手性苯乙烯类硫脲-叔胺								
	•••••							(65
镍催化环内烯烃的区域立体选								
伯 复准从外和公子社4户上77							齐湘兵*	(65)
镍氢催化炔酮的不对称反式环								(65
镍/手性羧酸钠双催化体系实现							朱少林*	(65)
							钮大文*	(66
						一机水土	ル 八入	(00.

Chinese Journal of Organic Chemistry

Vol. 42 No. 2 February 2022

Cover Picture: Rhodium(III) Catalyzed C(sp³)—H Functionalization

 $C(sp^3)$ —H activation is a challenging task due to the stronger bond energy and no π electron that is easily to interact with the metal center. The research progress in Rh(III) catalyzed $C(sp^3)$ —H functionalization has been reviewed for by Han, Xu and Hou on page 391. The advantages and limitations have been discussed, and the potential development directions have been prospected.

Inside Cover: Recent Advances in Vinyl Radical-Mediated Hydrogen Atom Transfer

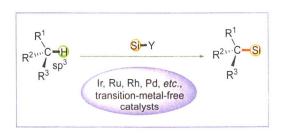
Vinyl radical-mediated hydrogen atom transfer (HAT) has received increasing attention. This protocol provides an efficient pathway for radical cyclization and regioselective C(sp³)—H bond functionalization. This review by Zhu et al. summarizes the recent advances in this research area. The recent advances in this area are summarized by Yue, Wu and Zhu on page 458.





REVIEWS

Recent Progress in Direct Catalytic C(sp³)—H Silylation Reactions



Cheng, Yi; Hu, Rongjing*; Chen, Xiaoqi; Yang, Hao; Niu, Xiaokang; Yang, Lei*
Chin. J. Org. Chem. 2022, 42(2), 323

The recent progress of direct catalytic silylation of $C(sp^3)$ —H bonds is reviewed, according to the atom type adjacent to the $C(sp^3)$ —H bond. The substrate compatibility, reaction mechanism and application scope of related reactions are mainly discussed. An outlook in this research field is also prospected.

Recent Advances in Nitrene/Alkyne Metathesis Cascade Reaction

The recent progress in the nitrene/alkyne metathesis cascade reaction is highlighted after a briefly introduction of the nitrene chemistry by focusing on the pioneering and seminal advances. These cascade reactions terminated by a variety of transformations via key α -imino carbene intermediates, providing a modular method for the expeditious construction of complex *N*-heterocycles with high atom economy and bond formation efficiency. Finally, the remaining challenging and potential synthetic applications of this method are also prospected.

Hong, Kemiao; Huang, Jingjing; Yao, Minghan; Xu, Xinfang*

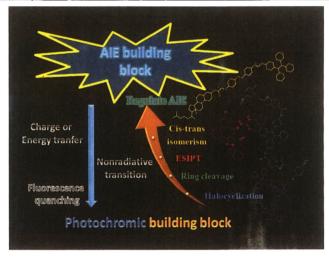
Chin. J. Org. Chem. 2022, 42(2), 344

Research Progress of Trifluoromethylation Involving CF₃Br

Ma, Ransong; Deng, Zhoubin; Wang, Kehu; Huang, Danfeng; Hu, Yulai*; Lü, Xiaobo Chin. J. Org. Chem. 2022, 42(2), 353

Advances in Aggregation-Induced Emission Molecules Based on Organic Photochromism

The recent progress in trifluoromethylation with CF₃Br as trifluoromethyl source is reviewed based on the reaction types. The further development prospects of this areas are also prospected.



The research progress and application of photochromic aggregation-induced emission (AIE) molecules are reviewed since the development of AIE materials. These molecules are generally obtained by combining AIE building blocks with photochromic framework through coupling, self-assembly, polymerization, and doping. Under certain circumstances, AIE behavior can also be reversibly regulated through the process of photochromism.

Ding, Wei; Cheng, Bowen; Wang, Meng; Dou, Qingyu*; Li, Siying; Zhang, Peng; Luo, Qianfu*

Chin. J. Org. Chem. 2022, 42(2), 363

Cross-coupling of C—Si Bond by Using of Silyl Electrophiles

reductive-electrophile-coupling

C-X

SiX

C-M

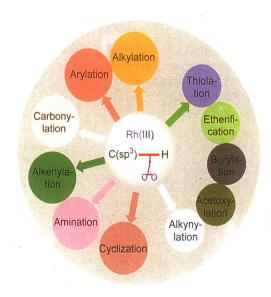
silyl-Heck, silyl-Negishi, silyl-Kumada

Cong, Siqi; Liu, Mengya; Peng, Siyuan; Zheng, Qiucui; Li, Mengjiao; Guo, Yan; Luo, Feixian*

In this review, the recent progress on the cross-coupling of C—Si bond by using of silyl electrophiles is summarized, including silyl-Heck, silyl-Negishi, silyl-Kumada and silyl-reductive-electrophile-coupling, multicomponent coupling and radical silylation.

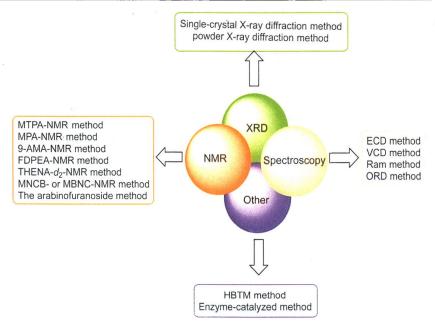
Chin. J. Org. Chem. 2022, 42(2), 384

Rhodium(III) Catalyzed C(sp³)—H Functionalization



Han, Gaoxu; Xu, Hongtao*; Hou, Wei* Chin. J. Org. Chem. 2022, 42(2), 391 The research progress in Rh(III) catalyzed C(sp³)—H functionalization is reviewed. The successes and limitations are summarized, and the potential development directions are prospected.

Methods and Application of Absolute Configuration Assignment for Chiral Compounds.

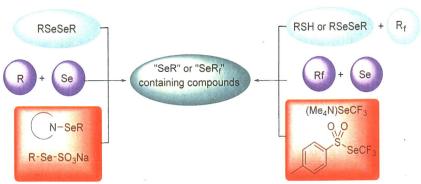


Ge, Rui; Zhu, Yuanyuan; Wang, Haifeng*; Gu, Shuangxi*

Chin. J. Org. Chem. 2022, 42(2), 424

Various methods for the absolute configuration (AC) determination for chiral compounds spring up in the past decades. The principles and application of these methods are summarized, which is aimed to afford beneficial references for chiral chemists and related workers.

Recent Progress on Alkyl-, Aryl- and Fluoro-alkylselenylation Reactions



Li, Shan; Cao, Yuan; Jiang, Lüqi* *Chin. J. Org. Chem.* **2022**, *42*(2), 434

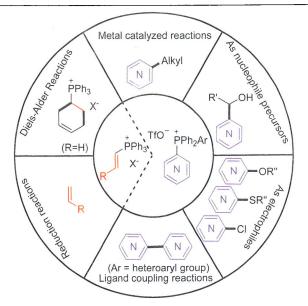
The recent development of alkyl-, aryl- and fluoroalkylselenylation is summarized, and part of their mechanisms are also discussed.

Recent Advances in Vinyl Radical-Mediated Hydrogen Atom Transfer

In recent years, vinyl radical-mediated hydrogen atom transfer (HAT) has received increasing attention. This protocol provides an efficient pathway for radical cyclization and regioselective C(sp³)—H bond functionalization including vinylation, alkynylation, halogenation, arylation, *etc*. The alkyl radical arising from vinyl radical-mediated HAT process undergoes intramolecular addition to alkene, vinyl migration, or intermolecular radical trapping. The recent advances in this area are summarized.

Yue, Baitong; Wu, Xinxin; Zhu, Chen* Chin. J. Org. Chem. 2022, 42(2), 458

Research Progress of Vinyl/Aryl Phosphonium Salts in Organic Synthesis



The research progress in the synthesis and applications of vinyl/phosphonium salts is summarized. Different types of reactions referring to vinyl/phosphonium salts to introduce vinyl/aryl groups are classified and discussed. Finally, the challenges and the perspective of the related reactions are also listed.

Huang, Weichun; Ding, Xinyu*; Zi, You*
Chin. J. Org. Chem. 2022, 42(2), 471

ARTICLES

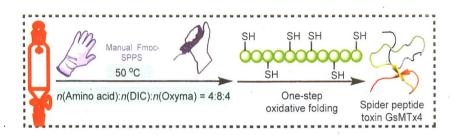
Brønsted Acid-Catalyzed the Synthesis of Sulfoximide Substituted Dihydropyranone Derivatives

Sun, Xinhao; Duan, Xuelun; Song, Wangze*; Jiang, Wenfeng*

Chin. J. Org. Chem. 2022, 42(2), 487

DIC/Oxyma Based Efficient Synthesis and Activity Evaluation of Spider Peptide Toxin GsMTx4

Diphenyl phosphate, as Brønsted acid, was used to catalyze the nucleophilic substitution reactions of sulfoximides and dihydropyranones to afford sulfoximide substituted dihydropyranone derivatives.



Ma, Yannan; Liu, Ya'ni; Wang, Jinyan; Chen, Xitong; Yin, Hao; Chi, Qiaona; Jia, Shixi; Du, Shanshan; Qi, Yunkun*; Wang, Kewei* Chin. J. Org. Chem. 2022, 42(2), 498

Study on the Allylation of Benzol[e][1,2, 3]oxathiazine-2,2-dioxides

A fast, robust and safe synthetic method based on DIC/Oxyma is established, which is particularly useful for the manual synthesis of peptides. The efficiency and robustness of DIC/Oxyma condensation system were validated by the rapid manual synthesis of GsMTx4.

The allylation of benzol[e][1,2,3]oxathiazine-2,2-dioxides with allyl bromides promoted by tin powder was explored. The results showed that the allylation proceeded smoothly with high yields for a variety of substrates. When various allyl bromides were used to perform the reaction, the γ -addition products were obtained. These allylated products underwent N-allylation reaction in the presence of base, and the diallylated products of benzol[e][1,2,3]oxathiazine-2,2-dioxides were obtained in high yields. The diallylated products of benzol[e][1,2,3]oxathiazine-2,2-dioxides further underwent ring closing metathesis reaction, and the cyclic derivatives of benzol[e][1,2,3]oxathiazine-2,2-dioxides were obtained in good yield.

Wang, Feng; Huang, Danfeng*; Zhao, Pengfei; Yang, Ming; Han, Tongyu; Wang, Kehu; Wang, Junjiao; Su, Yingpeng; Hu, Yulai* Chin. J. Org. Chem. 2022, 42(2), 507

Synthesis and Larvicidal Activity of Palmarumycin B₆ Analogues

$$\begin{array}{c} R^1 \\ CO_2H \end{array}$$

Liu, Xinlei; Xu, Leichuan; An, Xinkun; Jiang, Jiazhen; Wang, Ming'an*

Chin. J. Org. Chein. 2022, 42(2), 519

The synthesis of palmarumycin B_6 chlorine- and fluorine-containing analogues at A ring has been achieved via ketalization of substituted 3,4-dihydro naphthalen-1(2H)-one with 1,8-dihydroxynaphthalene and the benzyl oxidation involving pyridinium dichromate and t-BuOOH as the key steps, respectively. Their larvicidal activities against *Aedes albopictus* were evaluated.

Synthesis of Two Types of Nitriles Both Bearing Quaternary Carbon Centers in One-Pot Manner

Ren, Xinyi; Wang, Guangzhu; Ji, Xiaolei; Dong, Kaiwu*

Chin. J. Org. Chem. 2022, 42(2), 526

 α -Bromocarboxamides and electrophilic cyanide reagent were transformed into the corresponding α -cyanocarboxamides and ketene imine zinc intermediate in the presence of Zn reductant. Trapping of such Zn species with additional electrophiles resulted another type of nitriles, which realized the synthesis of two types of nitriles both bearing quaternary carbon centers in one-pot manner.

Study on the Green Synthesis of β -Hydroxy-1,2,3-triazoles Catalyzed by An Amino-Functionalized Graphene-Supported Ag-Cu Composites

Huang, Qiang*; Deng, Tingting; Zhu, Jiayun; Li, Jun; Li, Feifei Chin. J. Org. Chem. 2022, 42(2), 534

An amino-functionalized graphene-immobilized Ag-Cu composite (Ag-Cu/GO-NH₂) was synthesized. The composite showed high catalytic activity, good recyclability, and easy separability in the green synthesis of β -hydroxy-1,2,3-triazole derivatives under mild reaction conditions resulting in good to excellent yields.

Synthesis and Biological Activities of Dihydrooxazolo[5,4-d]pyrrolo[1,2-a]pyrimidinones

Nie, Lifei; Niu, Chao; Mamatjan, Aytilla; Bozorov, Khurshed; Zhao, Jiangyu; Aisa, Haji Akber* Chin. J. Org. Chem. 2022, 42(2), 543 Based on the general framework of deoxyvasicinone alkaloid from natural products, the benzene ring of deoxyvasicinone was replaced by oxazole ring through bioisosterism strategy. The diversity of substituents at position C-2 of oxazole ring was studied. A series of novel dihydrooxazolo[5,4-d]pyrrolo[1,2-a]pyrimidinone compounds were designed and synthesized. The compounds were evaluated for their anti-proliferation activities against three tumor cells and antimicrobial activities.

Design, Synthesis and Activity Evaluation of New Tylosin Derivatives

Wang, Huanhuan; Yang, Pu; Zhai, Hongjin; Zhang, Shuo; Cao, Yaquan; Yang, Yingxue; Wu, Chunli*

Chin. J. Org. Chem. 2022, 42(2), 557

Pure Hydrocarbon Host Materials Based on 9,9'-Spirobifluorene/Naphthalene Hybrid

Based on general framework of tylosin, the C-20 position of tylosin was modified and introduced side chain containing 3-quinoline or 3-pyridine, A series of novel semi-synthetic derivatives of tylosin compounds were designed and synthesized. The resistant strains and resistant strains were evaluated.

Two types of SBF-based pure hydrocarbon (PHC) phosphorescent light-emitting device host materials were synthesized and characterized, by introducing naphthalene, named 1,4-SBF-Nap and 1,8-Oct-Nap. Co-evaporating with Ir(MDQ)₂(acac), the red-light devices based on these two hosts were successfully fabricated, with maximum external quantum efficiencies (EQE) of 15.0% and 13.7% for 1,4-SBF-Nap and 1,8-Oct-Nap, respectively.

Zheng, Qi; Wen, Ya; Qu, Yangkun; Zhu, Yuanhao; Fung, Mankeung*; Jiang, Zuoquan* Chin. J. Org. Chem. 2022, 42(2), 572

Asymmetric Synthesis of AB Rings in ent-Kaurene Carbon Framework

To enantioselective synthesis *ent*-kaurene natural products, the asymmetric Diels-Alder reaction with silylenol ether dienyl as diene and β -ketoate as dienophile was developed. Using Cu(OTf)₂ as Lewis acid and oxazoline as chiral ligand, AB-ring-skeleton was constructed with 65% yield and >19:1 dr value. Also, the regioselectivity of Horner-Wadsworth-Emmons reaction was optimized, and a single Z configuration was transformed from Z/E mixture under acidic condition.

Ma, Wenjing; Zhu, Lizhi; Zhang, Mengxun; Lee, Chising*

Chin. J. Org. Chem. 2022, 42(2), 580

Chin. J. Org. Chem. 2022, 42, 1~X

Synthesis and Antitumor Activity of Novel 5- and 6-Substituted Indazole Derivatives

Cao, Yaquan; Yang, Yingxue; Zhai, Hongjin; Wang, Jin; Zhang, Shuo Wang, Huanhuan; Yang, Pu; Wu, Chunli*

Chin. J. Org. Chem. 2022, 42(2), 590

Electrochemical Synthesis of Aryl Sulfonates from Sodium Sulfinates and Phenols under Metal-Free Conditions

Fu, Zhengjiang*; Yang, Zhenjiang; Sun, Li; Yin, Jian; Yi, Xuezheng; Cai, Hu*; Lei, Aiwen*

Chin. J. Org. Chem. 2022, 42(2), 600

Study on Synthesis and Antifungal Activity of Novel Benzamides Containing Substituted Pyrazole Unit

In order to search for new antitumor drugs with high efficiency and low toxicity, 5- and 6-substituted indazole compounds were designed and synthesized. The antiproliferative activity of target compounds in four human cancer cells, PC-3 (human prostate cancer cell), MCF-7 (human breast cancer cell), HepG-2 (human hepatoma cell) and MGC-803 (human gastric cancer cell), was evaluated by thiazole blue (MTT) method.

An electrochemical oxidative sulfonylation of phenols with sodium sulfinates has been established to produce arylsulfonyl esters with good functional group tolerance in moderate to high yields. The synthesis of chlorfenson and a gram-scale reaction have been performed to evaluate the practicality of this green protocol.

A series of novel 1-methyl-pyrazol-5-yl-amino-phenyl-benzamide derivatives were designed, synthesized and evaluated for their antifungal activities against five fungi (S. sclerotiorum, V. mali, C. lunata (Walk) Boed, A. alternariae, and B. cinereal). The antifungal bioassay discovered a highly active compound 14 with a broad spectrum of excellent in vitro fungicidal activity.

Wang, Wei; Wu, Furan; Ma, Yidan; Xu, Dan*; Xu, Gong*
Chin. J. Org. Chem. 2022, 42(2), 607

up to 88% yield

Synthesis Supported of IndazolvIpyridyl-quinoline Iridium Catalyst and Its Application to N-Alkylation of 2-Aminobenzothiazoles

Li, Jiahao; Liu, Hongqiang; Zhang, Bo; Ge, Bingyang; Wang, Dawei* Chin. J. Org. Chem. 2022, 42(2), 619

The tridentate indazolyl-pyridyl-quinoline ligand was designed and synthesized, and its iridium complex was successfully loaded on MoS2 nanosheets. This iridium composite could realize N-alkylation of 2-aminobenzothiazole with benzyl alcohol under solventfree conditions and preliminary mechanism was also carried out to better understand this catalytic system.

Cul-catalyzed Regioselective Synthesis of 3-Arylcoumarins with Arylamines under Mild Conditions

- With good regioselectivity
- Broad substrate range
- Green solvent and good yields
- Mild reaction conditions

A mild and convenient method for the construction of 3-arylcoumarins through CuI-catalyzed reaction of coumarins with arylamines has been developed. The advantages of this protocol are simply readily available starting materials as substrates, inexpensive metal as a catalyst, good functional groups toleration, and with moderate to good yields. Moreover, the mechanism is speculated by control experiments.

Sun, Yamin; Li, Xiyong; Yuan, Jinwei*; Yu, Jialin; Liu, Shuainan Chin. J. Org. Chem. 2022, 42(2), 631

Electrochemical Oxidative C-H Trifluoromethylation of Quinoxalin-2(1H)-ones and the Performance Evaluation via Electro-descriptors

An electrochemical oxidative C—H trifluoromethylation of quinoxalin-2(1H)-ones was achieved in the absence of any catalysts or oxidant reagents. By using "electric-descriptor-diagram" to evaluate the substrates. The reactive/non-reactive boundary and the trend of yield change can been clearly seen.

Undivided cell

HIGHLIGHTS

Alternating Current Promoted Radical-Radical Cross Coupling

Guo, Xiaolong; Wang, Yuxian; Zhao, Zhiqi-

ang; Wang, Qing; Zuo, Jian*; Wang, Luyao*

Chin. J. Org. Chem. 2022, 42(2), 641

Cooperative Catalytic Asymmetric Three-Component Allylic Alkylation Enabled by Ternary Catalyst System

Gong, Liu-Zhu*

Chin. J. Org. Chem. 2022, 42(2), 652

Design and Application of Axially Chiral Styrene-Based Thiourea-Tertiary Amine Catalysts

Yan, Hailong*

Chin. J. Org. Chem. 2022, 42(2), 654

Nickel Catalyzed Regio- and Stereoselective Alkylboration of Endocyclic Olefins

Yang, Chao; Qi, Xiangbing*
Chin. J. Org. Chem. 2022, 42(2), 657

Enantioselective NiH-Catalyzed anti-Hydrometalative Cyclization of Alkynones

to Endo- and Heterocyclic Allylic Alcohols

$$X = 0$$
, NPG $n = 0, 1$

He, Yuli, Zhu, Shaolin*

Chin. J. Org. Chem. 2022, 42(2), 659

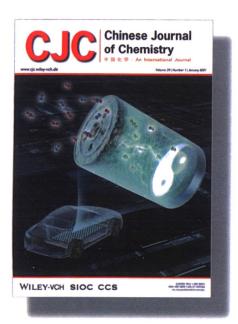
Asymmetric *O*-Propargylation of Hydroxylamines via Ni/Chiral Sodium Carboxylate Dual Catalytic System

Sun, Hongbao; Niu, Dawen*
Chin. J. Org. Chem. 2022, 42(2), 662

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