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100/11/20122

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姓名	杜雪艳 (DU XY)	电话	18838262767
单 位	新乡医学院		
检索 条件	数据库 检索年限 检索式 SCI (2021-present) TI= Homoallyl alcohol as an allylation reagent for termination of the Catellani-Lautens reaction via retro-allylation		
检索结果	 经计算机联机检索,杜雪艳(DU XY)(第一作者)等如下1篇文章已被美国《科学引文 索引》(SCI)数据库收录,其收录记录简要信息搞选如下: 标题:Homoallyl alcohol as an allylation reagent for termination of the Catellani-Lautens reaction via retro-allylation 作者:Du, XY (Du, Xueyan)[1]; Yang, XZ (Yang, Xiaozhe)[1]; Wang, H (Wang, Han)[1]; Li, XG (Li, Xinguang)[1]; Wang, MR (Wang, Murong)[1]; Li, X (Li, Xiang) [1]; Tao, Y (Tao, Ye)[3]; Yang, YX (Yang, Yaxing)[3]; Tan, XQ (Tan, Xinqiang)[1]; Ren, F (Ren, Feng)[1], [2]; Zhou, PX (Zhou, Ping-Xin)[1]; Liang, YM (Liang, Yong-Min)[4] 来源出版物: ORGANIC CHEMISTRY FRONTIERS DOI10.1039/d2q001609e 在线 发表 DEC 2022 已素引 2023-01-21 文献类型 Article; Early Access 地址:¹Xinxiang Med Univ, Sch Basic Med Sci, Xinxiang, Peoples R China 被引频次:0(来自 Web of Science 核心合集) 影响因子: 5.456 (2021) 中科院 JCR 分区 (来自中科院 2022 年升级版分区结果): 大类 化学 1 小类 CHEMISTRY, ORGANIC 有机化学 1 (详细结果见 SCI 数据库收录论文题录及中科院 JCR 期刊分区检索页) 		
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目初达约二工大竹以且刺又用手

地址: 河南省新乡市金穗大道 601 号 邮编: 453003 电话: 0373-3831774 Email: jszm@xxmu.edu.cn

ORGANIC CHEMISTRY





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Cite this: Org. Chem. Front., 2023, **10**, 898

Homoallyl alcohol as an allylation reagent for termination of the Catellani–Lautens reaction *via* retro-allylation[†]

Xueyan Du,[‡]^a Xiaozhe Yang,[‡]^a Han Wang,^a Xinguang Li,^a Murong Wang,^a Xiang Li,^a Ye Tao,^c Yaxing Yang,^c Xinqiang Tan,^{*a} Feng Ren,^{*a,b} Ping-Xin Zhou[®] *^a and Yong-Min Liang^{® d}

Received 11th October 2022, Accepted 21st December 2022 DOI: 10.1039/d2qo01609e A palladium/norbornene-catalyzed *ortho*-amination/allylation of aryl iodides was developed for the construction of *ortho*-aminated allylbenzene by using *N*-benzoyloxyamine as the amination reagent and homoallyl alcohol as the allylation reagent. The reaction showed good functional group tolerance and broad substrate scope.

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Introduction

Polv-substituted aromatics are ubiquitous scaffolds in pharmaceuticals, agrochemicals and organic materials.¹ The transition-metal-catalyzed cross-coupling reaction is one of the most effective approaches for preparing functionalized arenes.² However, these approaches typically only introduce one functional group in a single transformation, and multiple steps are required to construct densely functionalized arenes. In the past twenty years, palladium/norbornene (Pd/NBE) cooperative catalysis, which was initially reported by Catellani and further developed by Lautens, Dong, Liang, Luan, Gu, Zhou and others, has emerged as a powerful tool for expeditiously synthesizing highly substituted arenes (Scheme 1a).³ The Pd/NBE chemistry allows simultaneous functionalization of the ipso and ortho positions of simple aryl halides with different electrophiles and termination agents. A broad range of termination reactions, including Heck coupling,⁴ Suzuki coupling,⁵ alkyne annulation,⁶ C–N coupling,⁷ alkynylation,⁸ hydrogenation,⁹ C–H activation,¹⁰ cyanation,¹¹ enolate coupling,¹² C–O coupling,¹³ carbene coupling,¹⁴ borylation,¹⁵ thio-

‡These authors contributed equally to this work.

lation,¹⁶ selenation¹⁷ and alkylation,¹⁸ have been developed and several structurally diverse poly-functionalized arenes were synthesized (Scheme 1b). Despite the broad scope of termination agents in these reactions, it is also highly desired to introduce new functional groups on the *ipso* positions of aryl halides to further meet the diverse goals of synthetic organic chemistry.

In 2006, the Oshima group first demonstrated that homoally alcohols can be used as a convenient and efficient source of allyl groups for palladium-catalyzed allylations of aryl halides.¹⁹ Recently, our group developed a palladium-catalyzed Heck cyclization/allylation with homoallyl alcohols to realize allylation of o-alkylpalladium *via* retro-allylation.²⁰ Compared





^aSchool of Basic Medical Sciences, Xinxiang Medical University, Xinxiang, China. E-mail: zhoupingxin518@163.com, tanxq@xxmu.edu.cn, 1215377283@qq.com
^bHenan International Joint Laboratory of Immunity and Targeted Therapy for liverintestinal Tumors, Xinxiang Medical University, Xinxiang, China

^cDepartment of Biochemistry, University of Texas Southwestern Medical Center, Dallas, USA

^dState Key Laboratory of Applied Organic Chemistry, Lanzhou University, Lanzhou, China

[†]Electronic supplementary information (ESI) available: Experimental procedures and compound characterisation data. CCDC 2192595 4–5. For ESI and crystallographic data in CIF or other electronic format see DOI: https://doi.org/10.1039/ d2q001609e