大连化物所科技论文奖励申报表

（近期热点论文奖）

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **论文题目** | Rhodium-Catalyzed C-H Activation of Phenacyl Ammonium Salts Assisted by an Oxidizing C-N Bond: A Combination of Experimental and Theoretical Studies | | | | |
| **作者（英文）** | Yu Songjie, Liu Song,  Lan Yu,\*  Wan Boshun,\* Li Xingwei\* | | | | |
| **作者（中文）** | 于松杰， 刘松， 蓝宇，\* 万伯顺，\* 李兴伟\* | | | | |
| **期刊名称** | *J. Am. Chem. Soc.* | | | | |
| **发表日期** | 2015 | **卷** | 137 | **起止页码** | 1623-1631 |
| **总引用次数** | 32 | | | **他引次数** | 27 |
| **填表人** | 我保证填写内容的真实性，若填报失实和违反管理办法，本人将承担相关责任。  **签字 年 月 日** | | | | |
| **通讯作者** | 我保证申报内容的真实性，若填报失实和违反管理办法，本人将承担相关责任。  **签字 年 月 日** | | | | |
| **研究组长** | 我已按管理办法和申报说明对申报内容进行了审核，保证申报内容的真实性，若填报失实和违反管理办法，本人将承担全部责任。  **签字 年 月 日** | | | | |

**说明**：1、申请本年度近期热点论文奖的论文发表时间为2014-2015年；2、引用检索数库为Web of Science数据库核心合集的SCI-E，他引次数须超过25次；3、引用数据检索截止时间为2015年12月31日。4、他引：是指剔除了申报奖励论文（即被引用论文）所有作者的全部引用文献。例：某篇申报奖励论文有作者a、b、c、d、e，他引是指引用此篇论文的所有文献作者中，不能有a、b、c、d、e的任何一位。

近期热点论文奖引用论文清单

**（他引）**

**一、引用论文第一产权单位为国外机构**

|  |
| --- |
| **第 1 条，共 7 条** |
| **标题:** Direct C-H alkylation and indole formation of anilines with diazo compounds under rhodium catalysis |
| **作者:** Mishra, NK (Mishra, Neeraj Kumar); Choi, M (Choi, Miji); Jo, H (Jo, Hyeim); Oh, Y (Oh, Yongguk); Sharma, S (Sharma, Satyasheel); Han, SH (Han, Sang Hoon); Jeong, T (Jeong, Taejoo); Han, S (Han, Sangil); Lee, SY (Lee, Seok-Yong); Kim, IS (Kim, In Su) |
| **来源出版物:** CHEMICAL COMMUNICATIONS  **卷:** 51  **期:** 97  **页:** 17229-17232  **DOI:** 10.1039/c5cc07767b  **出版年:** DEC 18 2015 |

|  |
| --- |
| **第 2 条，共 7 条** |
| **标题:** Catalytic Formation of alpha-Aryl Ketones by C-H Functionalization with Cyclic Alkenyl Carbonates and One-Pot Synthesis of Isocoumarins |
| **作者:** Hara, Y (Hara, Yusuke); Onodera, S (Onodera, Shunsuke); Kochi, T (Kochi, Takuya); Kakiuchi, F (Kakiuchi, Fumitoshi) |
| **来源出版物:** ORGANIC LETTERS  **卷:** 17  **期:** 19  **页:** 4850-4853  **DOI:** 10.1021/acs.orglett.5b02414  **出版年:** OCT 2 2015 |

|  |
| --- |
| **第 3 条，共 7 条** |
| **标题:** Rh-III-Catalyzed C-H Activation with Pyridotriazoles: Direct Access to Fluorophores for Metal-Ion Detection |
| **作者:** Kim, JH (Kim, Ju Hyun); Gensch, T (Gensch, Tobias); Zhao, DB (Zhao, Dongbing); Stegemann, L (Stegemann, Linda); Strassert, CA (Strassert, Cristian A.); Glorius, F (Glorius, Frank) |
| **来源出版物:** ANGEWANDTE CHEMIE-INTERNATIONAL EDITION  **卷:** 54  **期:** 37  **页:** 10975-10979  **DOI:** 10.1002/anie.201504757  **出版年:** SEP 7 2015 |

|  |
| --- |
| **第 4 条，共 7 条** |
| **标题:** Cp\*Rh-III-Catalyzed Arylation of C(sp(3))-H Bonds |
| **作者:** Wang, XM (Wang, Xiaoming); Yu, DG (Yu, Da-Gang); Glorius, F (Glorius, Frank) |
| **来源出版物:** ANGEWANDTE CHEMIE-INTERNATIONAL EDITION  **卷:** 54  **期:** 35  **页:** 10280-10283  **DOI:** 10.1002/anie.201503888  **出版年:** AUG 24 2015 |

|  |
| --- |
| **第 5 条，共 7 条** |
| **标题:** CF3-Carbenoid C-H Functionalization of (Hetero)arenes under Chelation-Controlled Rh-III Catalysis |
| **作者:** Iagafarova, IE (Iagafarova, Irina E.); Vorobyeva, DV (Vorobyeva, Daria V.); Peregudov, AS (Peregudov, Alexander S.); Osipov, SN (Osipov, Sergey N.) |
| **来源出版物:** EUROPEAN JOURNAL OF ORGANIC CHEMISTRY  **期:** 22  **页:** 4950-4955  **DOI:** 10.1002/ejoc.201500545  **出版年:** AUG 2015 |

|  |
| --- |
| **第 6 条，共 7 条** |
| **标题:** Atomic-Scale Modelling and its Application to Catalytic Materials Science Developing an interdisciplinary approach to modelling |
| **作者:** Sarwar, M (Sarwar, Misbah); Cooper, C (Cooper, Crispin); Briquet, L (Briquet, Ludovic); Ukpong, A (Ukpong, Aniekan); Perry, C (Perry, Christopher); Jones, G (Jones, Glenn) |
| **来源出版物:** JOHNSON MATTHEY TECHNOLOGY REVIEW  **卷:** 59  **期:** 3  **页:** 257-283  **DOI:** 10.1595/205651315X687975  **出版年:** JUL 2015 |

|  |
| --- |
| **第 7 条，共 7 条** |
| **标题:** Selective Cyclization of Arylnitrones to Indolines under External Oxidant-Free Conditions: Dual Role of Rh(III) Catalyst in the C-H Activation and Oxygen Atom Transfer |
| **作者:** Dateer, RB (Dateer, Ramesh B.); Chang, S (Chang, Sukbok) |
| **来源出版物:** JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  **卷:** 137  **期:** 15  **页:** 4908-4911  **DOI:** 10.1021/jacs.5b01065  **出版年:** APR 22 2015 |

…………………………..

**二、引用论文第一产权单位为国内机构**

|  |
| --- |
| **第 1 条，共 20 条** |
| **标题:** [Rh-III(Cp\*)]-Catalyzed Cascade Arylation and Chlorination of alpha-Diazocarbonyl Compounds with Arylboronic Acids and N-Chlorosuccinimide for Facile Synthesis of alpha-Aryl-alpha-chloro Carbonyl Compounds |
| **作者:** Ng, FN (Ng, Fo-Ning); Lau, YF (Lau, Yan-Fung); Zhou, ZY (Zhou, Zhongyuan); Yu, WY (Yu, Wing-Yiu) |
| **来源出版物:** ORGANIC LETTERS  **卷:** 17  **期:** 7  **页:** 1676-1679  **DOI:** 10.1021/acs.orglett.5b00440  **出版年:** APR 3 2015 |

|  |
| --- |
| **第 2 条，共 20 条** |
| **标题:** Rh(III)-catalyzed chelation-assisted intermolecular carbenoid functionalization of alpha-imino Csp(3)-H bonds |
| **作者:** Chen, X (Chen, Xun); Xie, Y (Xie, Ying); Xiao, XS (Xiao, Xinsheng); Li, GQ (Li, Guoqiang); Deng, YF (Deng, Yuanfu); Jiang, HF (Jiang, Huanfeng); Zeng, W (Zeng, Wei) |
| **来源出版物:** CHEMICAL COMMUNICATIONS  **卷:** 51  **期:** 83  **页:** 15328-15331  **DOI:** 10.1039/c5cc06428g  **出版年:** 2015 |

|  |
| --- |
| **第 3 条，共 20 条** |
| **标题:** Rhodium-catalyzed C-H activation of hydrazines leads to isoquinolones with tunable aggregation-induced emission properties |
| **作者:** Yu, B (Yu, Bole); Chen, Y (Chen, Ying); Hong, M (Hong, Mei); Duan, PP (Duan, Pingping); Gan, SF (Gan, Shifeng); Chao, H (Chao, Hui); Zhao, ZJ (Zhao, Zujin); Zhao, J (Zhao, Jing) |
| **来源出版物:** CHEMICAL COMMUNICATIONS  **卷:** 51  **期:** 76  **页:** 14365-14368  **DOI:** 10.1039/c5cc05239d  **出版年:** 2015 |

|  |
| --- |
| **第 4 条，共 20 条** |
| **标题:** Mechanistic insight into conjugated N-N bond cleavage by Rh(iii)-catalyzed redox-neutral C-H activation of pyrazolones |
| **作者:** Wu, WR (Wu, Weirong); Liu, YX (Liu, Yuxia); Bi, SW (Bi, Siwei) |
| **来源出版物:** ORGANIC & BIOMOLECULAR CHEMISTRY  **卷:** 13  **期:** 30  **页:** 8251-8260  **DOI:** 10.1039/c5ob00977d  **出版年:** 2015 |

|  |
| --- |
| **第 5 条，共 20 条** |
| **标题:** Rh(III)-catalyzed and alcohol-involved carbenoid C-H insertion into N-phenoxyacetamides using alpha-diazomalonates |
| **作者:** Zhou, J (Zhou, Jie); Shi, JJ (Shi, Jingjing); Liu, XL (Liu, Xuelei); Jia, JL (Jia, Jinlong); Song, HC (Song, Huacan); Xu, HE (Xu, H. Eric); Yi, W (Yi, Wei) |
| **来源出版物:** CHEMICAL COMMUNICATIONS  **卷:** 51  **期:** 27  **页:** 5868-5871  **DOI:** 10.1039/c5cc00354g  **出版年:** 2015 |

|  |
| --- |
| **第 6 条，共 20 条** |
| **标题:** Cp\*Co(III)-catalyzed direct functionalization of aromatic C-H bonds with alpha-diazomalonates |
| **作者:** Liu, XG (Liu, Xu-Ge); Zhang, SS (Zhang, Shang-Shi); Wu, JQ (Wu, Jia-Qiang); Li, QJ (Li, Qingjiang); Wang, HG (Wang, Honggen) |
| **来源出版物:** TETRAHEDRON LETTERS  **卷:** 56  **期:** 27  **页:** 4093-4095  **DOI:** 10.1016/j.tetlet.2015.05.025  **出版年:** JUL 1 2015 |

|  |
| --- |
| **第 7 条，共 20 条** |
| **标题:** Mechanistic Understanding of the Aryl-Dependent Ring Formations in Rh(III)-Catalyzed C-H Activation/Cycloaddition of Benzamides and Methylenecyclopropanes by DFT Calculations |
| **作者:** Guo, W (Guo, Wei); Zhou, T (Zhou, Tao); Xia, YZ (Xia, Yuanzhi) |
| **来源出版物:** ORGANOMETALLICS  **卷:** 34  **期:** 12  **页:** 3012-3020  **DOI:** 10.1021/acs.organomet.5b00317  **出版年:** JUN 22 2015 |

|  |
| --- |
| **第 8 条，共 20 条** |
| **标题:** Rh-V-Nitrenoid as a Key Intermediate in Rh-III-Catalyzed Heterocyclization by CH Activation: A Computational Perspective on the Cycloaddition of Benzamide and Diazo Compounds |
| **作者:** Zhou, T (Zhou, Tao); Guo, W (Guo, Wei); Xia, YZ (Xia, Yuanzhi) |
| **来源出版物:** CHEMISTRY-A EUROPEAN JOURNAL  **卷:** 21  **期:** 25  **页:** 9209-9218  **DOI:** 10.1002/chem.201500558  **出版年:** JUN 15 2015 |

|  |
| --- |
| **第 9 条，共 20 条** |
| **标题:** Rhodium(III)-Catalyzed [3+2]/[5+2] Annulation of 4-Aryl 1,2,3-Triazoles with Internal Alkynes through Dual C(sp(2))H Functionalization |
| **作者:** Yang, Y (Yang, Yuan); Zhou, MB (Zhou, Ming-Bo); Ouyang, XH (Ouyang, Xuan-Hui); Pi, R (Pi, Rui); Song, RJ (Song, Ren-Jie); Li, JH (Li, Jin-Heng) |
| **来源出版物:** ANGEWANDTE CHEMIE-INTERNATIONAL EDITION  **卷:** 54  **期:** 22  **页:** 6595-6599  **DOI:** 10.1002/anie.201501260  **出版年:** MAY 26 2015 |

|  |
| --- |
| **第 10 条，共 20 条** |
| **标题:** A Theoretical Probe of Mechanistic Trichotomy in Rh-III-Catalyzed Annulation with Alkyne MIDA Boronates: Roles of Salt, Solvent, and Coupling Partner |
| **作者:** Zhao, L (Zhao, Liu); Fang, DC (Fang, De-Cai) |
| **来源出版物:** EUROPEAN JOURNAL OF ORGANIC CHEMISTRY  **期:** 21  **页:** 4772-4781  **DOI:** 10.1002/ejoc.201500329  **出版年:** JUL 2015 |

|  |
| --- |
| **第 11 条，共 20 条** |
| **标题:** Regioselective synthesis of multisubstituted isoquinolones and pyridones via Rh(III)-catalyzed annulation reactions |
| **作者:** Shi, LL (Shi, Liangliang); Yu, K (Yu, Ke); Wang, BQ (Wang, Baiquan) |
| **来源出版物:** CHEMICAL COMMUNICATIONS  **卷:** 51  **期:** 97  **页:** 17277-17280  **DOI:** 10.1039/c5cc05977a  **出版年:** DEC 18 2015 |

|  |
| --- |
| **第 12 条，共 20 条** |
| **标题:** Cascade Synthesis of 3-Alkylidene Dihydrobenzofuran Derivatives via Rhodium(III)-Catalyzed Redox-Neutral C-H Functionalization/Cyclization |
| **作者:** Zhou, Z (Zhou, Zhi); Liu, GX (Liu, Guixia); Chen, Y (Chen, Yan); Lu, XY (Lu, Xiyan) |
| **来源出版物:** ORGANIC LETTERS  **卷:** 17  **期:** 23  **页:** 5874-5877  **DOI:** 10.1021/acs.orglett.5603060  **出版年:** DEC 4 2015 |

|  |
| --- |
| **第 13 条，共 20 条** |
| **标题:** Transition-Metal-Catalyzed Cleavage of C-N Single Bonds |
| **作者:** Ouyang, KB (Ouyang, Kunbing); Hao, W (Hao, Wei); Zhang, WX (Zhang, Wen-Xiong); Xi, ZF (Xi, Zhenfeng) |
| **来源出版物:** CHEMICAL REVIEWS  **卷:** 115  **期:** 21  **页:** 12045-12090  **DOI:** 10.1021/acs.chemrev.5b00386  **出版年:** NOV 11 2015 |

|  |
| --- |
| **第 14 条，共 20 条** |
| **标题:** Rhodium(III)-Catalyzed Directed ortho-C-H Bond Functionalization of Aromatic Ketazines via C-S and C-C Coupling |
| **作者:** Wen, J (Wen, Jing); Wu, A (Wu, An); Wang, MY (Wang, Mingyang); Zhu, J (Zhu, Jin) |
| **来源出版物:** JOURNAL OF ORGANIC CHEMISTRY  **卷:** 80  **期:** 21  **页:** 10457-10463  **DOI:** 10.1021/acs.joc.5b01154  **出版年:** NOV 6 2015 |

|  |
| --- |
| **第 15 条，共 20 条** |
| **标题:** From Indoles to Carbazoles: Tandem Cp\*Rh(III)-Catalyzed C-H Activation/Bronsted Acid-Catalyzed Cyclization Reactions |
| **作者:** Wu, JQ (Wu, Jia-Qiang); Yang, Z (Yang, Zhen); Zhang, SS (Zhang, Shang-Shi); Jiang, CY (Jiang, Chun-Yong); Li, QJ (Li, Qingjiang); Huang, ZS (Huang, Zhi-Shu); Wang, HG (Wang, Honggen) |
| **来源出版物:** ACS Catalysis  **卷:** 5  **期:** 11  **页:** 6453-6457  **DOI:** 10.1021/acscatal.5b01801  **出版年:** NOV 2015 |

|  |
| --- |
| **第 16 条，共 20 条** |
| **标题:** Rhodium(III)-Catalyzed C-H Activation/Alkyne Annulation by Weak Coordination of Peresters with O-O Bond as an Internal Oxidant |
| **作者:** Mo, JY (Mo, Jiayu); Wang, LH (Wang, Lianhui); Cui, XL (Cui, Xiuling) |
| **来源出版物:** ORGANIC LETTERS  **卷:** 17  **期:** 20  **页:** 4960-4963  **DOI:** 10.1021/acs.orglett.5b02291  **出版年:** OCT 16 2015 |

|  |
| --- |
| **第 17 条，共 20 条** |
| **标题:** Redox-Neutral Rhodium-Catalyzed C-H Functionalization of Arylamine N-Oxides with Diazo Compounds: Primary C(sp(3))-H/C(sp(2))-H Activation and Oxygen-Atom Transfer |
| **作者:** Zhou, B (Zhou, Bing); Chen, ZQ (Chen, Zhaoqiang); Yang, YX (Yang, Yaxi); Ai, W (Ai, Wen); Tang, HY (Tang, Huanyu); Wu, YX (Wu, Yunxiang); Zhu, WL (Zhu, Weiliang); Li, YC (Li, Yuanchao) |
| **来源出版物:** ANGEWANDTE CHEMIE-INTERNATIONAL EDITION  **卷:** 54  **期:** 41  **页:** 12121-12126  **DOI:** 10.1002/anie.201505302  **出版年:** OCT 5 2015 |

|  |
| --- |
| **第 18 条，共 20 条** |
| **标题:** Mechanistic Understanding of the Divergent Reactivity of Cyclopropenes in Rh(III)-Catalyzed C-H Activation/Cycloaddition Reactions of N-Phenoxyacetamide and N-Pivaloxybenzamide |
| **作者:** Guo, W (Guo, Wei); Xia, YZ (Xia, Yuanzhi) |
| **来源出版物:** JOURNAL OF ORGANIC CHEMISTRY  **卷:** 80  **期:** 16  **页:** 8113-8121  **DOI:** 10.1021/acs.joc.5b01201  **出版年:** AUG 21 2015 |

|  |
| --- |
| **第 19 条，共 20 条** |
| **标题:** Rh(III)-catalyzed direct C-H cyanation of N-methoxybenzamides using N-cyano-N-phenyl-p-toluenesulfonamide |
| **作者:** Zhang, SW (Zhang, Siwei); Zhou, J (Zhou, Jie); Shi, JJ (Shi, Jingjing); Wang, M (Wang, Min); Xu, HE (Xu, H. Eric); Yi, W (Yi, Wei) |
| **来源出版物:** CHINESE JOURNAL OF CATALYSIS  **卷:** 36  **期:** 8  **页:** 1175-1182  **DOI:** 10.1016/S1872-2067(15)60872-5  **出版年:** AUG 2015 |

|  |
| --- |
| **第 20 条，共 20 条** |
| **标题:** Mechanistic Study on Ligand-Controlled Rh(I)-Catalyzed Coupling Reaction of Alkene-Benzocyclobutenone |
| **作者:** Lu, QQ (Lu, Qianqian); Wang, B (Wang, Bing); Yu, HZ (Yu, Haizhu); Fu, Y (Fu, Yao) |
| **来源出版物:** ACS CATALYSIS  **卷:** 5  **期:** 8  **页:** 4881-4889  **DOI:** 10.1021/acscatal.5b00891  **出版年:** AUG 2015 |

…………………………..