

化学化工学院近年教师发表科研论文

- [1] **Sun Haijie**, Chen Zhihao, Li Chenggang, et al. Selective Hydrogenation of Benzene to Cyclohexene over Monometallic Ru Catalysts: Investigation of ZnO and ZnSO₄ as Reaction Additives as Well as Particle Size Effect[J]. *Catalysts*, 2018, 8:172.(SCI 二区)
- [2] **Sun Haijie**, Chen Zhihao, Li Chenggang, et al. Selective Hydrogenation of Benzene to Cyclohexene over Ru-Zn Catalysts: Mechanism Investigation on NaOH as a Reaction Additive[J]. *Catalysts*, 2018, 8:104. (SCI 二区)
- [3] **Aijuan Zhao**, Chen Xiuli, Sun Haijie, et al. A simple and economic approach to superhydrophobic films[J]. *International Journal of Materials Research*, 2018, 109(3):265-269.
- [4] **Hairong Gao**, Ruiying Gao, Sun Haijie, et al. Preparations and characterization of superhydrophobic surfaces of Al alloys and their anti-icing properties[J]. *Materials and Technology*, 2018, 52(3): 299-306.
- [5] **Mu Bing**, Li Jingya, Zou Dapeng, et al. Efficient Pd-Catalyzed Direct C-H Bond Arylation of Imidazo [1,2-a] pyridines with Aryl Chlorides in Aqueous Medium[J]. *Chinese Journal of Organic Chemistry*, 2018, 38: 95-102.
- [6] **Mu Bing**, Li Jiang, Zou Dapeng, et al. One-pot synthesis of 6H-2,2a1,3-triazaaceanthrylen-6-ones and 6H-2,2a1,4-triazaaceanthrylen-6-ones via tandem cyclization strategies[J]. *Tetrahedron Letters*, 2017, 58(52): 4816-4821.
- [7] **Zhao Aijuan**, Zhao Guoxin, Sun Haijie, et al. Phase-transformation behavior and micromechanical properties of a dual-phase steel after chemical modifications[J]. *Materials and Technology*, 2017, 51(6): 903-910.
- [8] **Wang Yaping**, Wang Jianshe, Ma Panpan, et al. Synthesis of fluorescent polymeric carbon nitride quantum dots in molten salts for security inks[J]. *New Journal of Chemistry*, 2017, 41, 14918-14923.
- [9] **Huang Zhenxu**, Sun Haijie, Gao Hairong, et al. Electrodeposition of a Zn-MoS₂ Composite Film for the Catalytic Transesterification of Soybean Oil to Biodiesel[J]. *International Journal of Electrochemical Science*, 2017, 12(8): 7702-7711.
- [10] 孙海杰, 秦会安, 黄振旭, 等. 反应修饰剂 ZnSO₄ 和预处理对苯选择加氢制环己烯 Ru-Zn 催化剂性能的影响[J]. *无机化学学报*, 2017, 33(1): 73-80.
- [11] **Chen Xiu-Li**, Zhao Ai-Juan, Sun Hai-Jie, Xian-Ru Pei. Preparation of bio-polymeric materials, their microstructures and physical functionalities[J]. *Materials and Technology*, 2017, 51(2): 229-236.

- [12] **Mu Bing**, Li Jingya, Zou Dapeng, et al. Pd-catalyzed tandem cyclization via C-H arylation and acylation for the construction of polycyclic scaffolds[J]. *Organic Letters*, 2016, 18: 5260-5263.
- [13] **Mu Bing**, Wu Y. S., Li J. Y., et al. An unprecedented Pd-catalyzed decarboxylative coupling reaction of aromatic carboxylic acids in aqueous medium under air: synthesis of 3-aryl-imidazo[1,2-a] pyridines from aryl chlorides[J]. *Organic & Biomolecular Chemistry*, 2016, 14, 246-250.
- [14] **Wang Ling**, Yang R, Li J, et al. A selective and sensitive tert-butylhydroquinone sensor based on synergy of CTAB and AuNPs-PVP-graphene nanohybrids[J]. *Ionics*, 2016, 3(22): 415-423.
- [15] **Liu Hui**, Li Tiesheng, Xue Xiaoxia, et al. The mechanism of a self-assembled Pd(ferrocenylimine)-Si compound-catalysed Suzuki coupling reaction[J], *Catalysis Science Technology*, 2016, 6: 1667-1676.
- [16] **Liu Hui**, Xue Xiaoxia, Li Tiesheng, et al. A simple, recyclable, and self-assembled palladium(II)-alkyl Schiff base complex for Suzuki coupling reaction: chain length dependence and heterogeneous catalysis[J]. *RSC Advance*, 2016, 6: 84815-84824.
- [17] **Wang Yaping**, Li Yike, Ju Wei, et al. Molten salt synthesis of water-dispersible polymeric carbon nitride nanoseaweeds and their application as luminescent probes[J]. *Carbon*, 2013, 102: 477-486.
- [18] **Gao Hairong**, Chen Jianjun, Zhang Jie. The Content Analysis of Pb in Representative Green Belts Plants on Major Traffic Road of ZhenzhouCity[J]. *Advances in Engineering Research*, 2016, 32: 696-700.
- [19] 孙海杰, 陈建军, 黄振旭, 等. 阿拉伯树胶修饰的纳米 Ru-Zn 催化剂上苯选择加氢制环己烯 [J]. *无机化学学报*, 2016, 32(2): 202-210.
- [20] **Li Yongyu**, Qin Huian, Sun Hajie, et al. Synthesis of BiOI hierarchical nanospheres and their application in photocatalysis[J]. *Materials Letters*, 2015, 152: 248-251.
- [21] **Wang Ling**, Yang R, Li J, et al. High-sensitive electrochemical sensor of Sudan I based on template-directed self-assembly of graphene-ZnSe quantum dots hybrid structure[J]. *Sensors and Actuators B: Chemical*, 2015, 215: 181-187.
- [22] **Wang Ling**, Yang R, Wang H, et al. High-selective and sensitive voltammetric sensor for butylated hydroxyanisole based on AuNPs-PVP-graphene nanocomposites[J]. *Talanta*, 2015, 138: 169-175.
- [23] 孙海杰, 周小莉, 赵爱娟, 等. $Zn_4Si_2O_7(OH)_2H_2O$ 盐修饰的纳米 Ru 催化剂催化苯选择加氢制环己烯[J]. *无机化学学报*, 2015, 31(7): 1387-1295.
- [24] 孙海杰, 陈凌霞, 黄振旭, 等. Ru-Zn 催化剂在苯选择加氢制环己烯反应中的粒径效应[J]. *高等学校化学学报*, 2015, 36(10): 1969-1976.

- [25] **Li Yongyu**, Haijie Sun, Ning Wang, et al. Effects of pH and temperature on photocatalytic activity of PbTiO₃ synthesized by hydrothermal method[J]. Solid State Sciences, 2014, 37: 18-22.
- [26] **Wang Ling**, Yang R, Chen J, et al. Sensitive voltammetric sensor based on Isopropanol-Nafion-PSS-GR nanocomposite modified glassy carbon electrode for determination of Clenbuterol in pork[J]. Food chemistry, 2014, 164: 113-118.
- [27] **Wang Ling**, Yang R, Li J, et al. Assembly of multi-walled carbon nanotubes-ZnSe quantum dot hybrids for a paeonol electrochemical sensor[J]. Analytical Methods, 2014, 6(10): 3449-3455.
- [28] **Liu Hui**, Li Huanhuan, Li Tiesheng, Yong Li , et al. Synthesis, characterization, and solid-state polymerization properties of two diacetylene derivatives containing phenyl ferrocene[J]. Journal of Organometallic Chemistry, 2014, 767, 144-149.
- [29] **Liu Hui**, Zhao Dongwang, Zhao Aijuan, et al. Electrochemical Studies of Anticancer Herbal Drug Sophoridine and Its Interaction with DNA[J]. Journal of the Chinese Chemical Society, 2014, 61, 897-902.
- [30] **Zhao Yongfu**, Si Shihui, Wang Lu, et al. Electrochemical study on polypyrrole microparticle suspension as flowing anode for manganese dioxide rechargeable flow battery[J]. Journal of Power Sources, 2014, 248: 962-968.
- [31] 孙海杰, 李永宇, 李帅辉, 等. ZnSO₄和La₂O₃作共修饰剂单金属Ru催化剂上苯选择加氢制环己烯[J]. 物理化学学报, 2014, 30(7): 1332-1340.
- [32] **Mu Bing**, Li J. Y., Y. Wu J. Carbene adduct of cyclopalladated ferrocenylimine assisted synthesis of aminopyridine derivatives by the amination of chloropyridines with primary and secondary amines[J]. Applied organometallic chemistry, 2013, 27: 537-541.
- [33] **Li Yongyu**, Dang Liyun, Han Lifeng, et al. Iodine-sensitized Bi₄Ti₃O₁₂/TiO₂ photocatalyst with enhanced photocatalytic activity on degradation of phenol[J]. Journal of Molecular Catalysis A: Chemical, 2013, 379:146-151.
- [34] **Zhao Yongfu**, Si Shihui, Liao Cui. A single flow zinc//polyaniline suspension rechargeable battery[J]. Journal of Power Sources, 2013, 241: 449-453.
- [35] **Zhao Dongwang, Liu Hui**, Wang Fei, et al. A Simple, but Highly Sensitive, Graphene-based Voltammetric Sensor for Salvianic Acid A Sodium[J]. Analytical Sciences. 2013, 29: 625-630.
- [36] **Sun Haijie**, Pan Yajie, Jiang Houbing, et al. Effect of transition metals (Cr, Mn, Fe, Co, Ni, Cu and Zn) on the hydrogenation properties of benzene over Ru-based catalyst[J]. Applied Catalysis A: General, 2013: 464-465: 1-9.

- [37] **Sun Haijie**, Wang Hongxia, Jiang Houbin, et al. Effect of $(\text{Zn(OH})_2)_3(\text{ZnSO}_4)(\text{H}_2\text{O})_5$ on the performance of Ru-Zn catalyst for benzene selective hydrogenation to cyclohexene[J]. Applied Catalysis A: General, 2013: 450: 160-168.
- [38] **Sun Haijie**, Dong Yingying, Li Shuaihui, et al. The role of La in improving the selectivity to cyclohexene of Ru catalyst for hydrogenation of benzene[J]. Journal of Molecular Catalysis A: Chemical, 2013, 368-369: 119-124.
- [39] **Sun Haijie**, Jiang Houbing, Li Shuaihui, et al. Effect of alcohols as additives on the performance of a nano-sized Ru-Zn(2.8%) catalyst for selective hydrogenation of benzene to cyclohexene[J]. Chemical Engineering Journal, 2013, 218: 415-424.
- [40] **Sun Haijie**, Chen lingxia, Li Shuaihui, et al. Selective hydrogenation of benzene to cyclohexene over monometallic Ru catalysts in the presence of CeO_2 and ZnSO_4 as co-modifiers [J]. Journal of Rare Earths, 2013, 31(10): 1023-1028.
- [41] **Sun Haijie**, Pan Yajie, Li Shuaihui, et al. Selective hydrogenation of benzene to cyclohexene over Ce-promoted Ru catalysts [J]. Journal of Energy Chemistry, 2013, 22(5): 710-716.
- [42] **Sun Haijie**, Li Shuaihui, Zhang Yuanxin, et al. Selective hydrogenation of benzene to cyclohexene in continuous reaction device with two reaction reactors in serie over Ru-Co-B/ ZrO_2 catalysts [J]. Chinese Journal of Catalysis, 2013, 34(8): 1482-1488.
- [43] **Sun Haijie**, Jiang Houbing, Li Shuaihui, et al. Selective hydrogenation of benzene to cyclohexene over nanocomposite Ru-Mn/ ZrO_2 catalyst[J], Chinese Journal of Catalysis, 2013, 34(4): 684-694.
- [44] **Wang Xin**, Zhang Mao-Mao, Hao Xiu-Li, et al. Polyoxometalate-induced new self-assemblies based on copper ions and bichelate-bridging ligands[J]. Crystal Growth & Design, 2013, 13: 3454-3462.
- [45] **Chen Jianjun**, Su H. L., Lau W. M., et al. Efficient photochemical hydrogen production under visible-light over artificial photosynthetic systems[J]. International Journal of Hydrogen Energy, 2013, 38(21), 8639-8647.
- [46] **Chen Jianjun**, H. L. Su, W. M. Lau, D. Zhang, 3D TiO_2 submicrostructures decorated by silver nanoparticles as SERS substrate for organic pollutants detection and degradation. Materials Research Bulletin, 2014, 49, 560-565.
- [47] 孙海杰, 黄振旭, 陈建军, 等. 苯选择加氢制环己烯非负载型和负载型 Ru-Zn 催化剂的比较 [J]. 石油学报(石油加工), 2017, 33(4): 646-654.
- [48] 孙海杰, 陈凌霞, 黄振旭, 等. 还原介质和还原温度对 Ru-Zn 催化苯选择加氢制环己烯性能的影响[J]. 化工进展, 2017, 36(8): 2962-2970.

- [49] 孙海杰, 陈秀丽, 黄振旭, 等. NaOH 浓度对苯选择加氢制环己烯 Ru-Zn 催化剂性能的影响[J]. 化工学报, 2016, 67(4): 1324-1332.
- [50] Chen Jianjun, Su H. L., Deng T., et al. Bioinspired Au/N-TiO₂ photocatalyst templated from Zea mays Linn. Leaves[J]. Bioinspired, Biomimetic and Nanobiomaterials, 2014, 3: 19-28.
- [51] 孙海杰, 李帅辉, 田翔宇, 等. 助剂 Fe 和反应修饰剂修饰的 Ru 催化剂上苯选择加氢制环己烯 [J]. 分子催化, 2013, 27(4): 362-369.
- [52] 黄振旭, 裴先茹, 孙海杰, 等. 大豆油制备生物柴油 KF/ZrO₂ 固体碱催化剂性能研究[J]. 现代化工, 2018, 38(2): 95-99.
- [53] 赵永福, 秦会安, 晋晓萍, 等. 聚苯胺/同位镀铋膜修饰电极脉冲溶出伏安法同时测定铅和镉[J]. 分析试验室, 2018, 37(5): 560-563.
- [54] 王玲, 秦会安, 侯婷婷, 等. 色氨酸在 Nafion-聚半胱氨酸修饰电极上的电化学行为及分析测定[J]. 食品工业科技, 2018, 39(12): 267-283.
- [55] 孙海杰, 黄振旭, 王雅萍, 等. 非晶态合金 Ru-B/ZrO₂ 催化剂催化硼氢化钠水解制氢性能的研究[J]. 化工新型材料, 2018, 46(1): 102-105.
- [56] 王玲, 候巧芝, 李兰, 等. PDDA-Ag 吸光光度法测定果粒橙中日落黄含量[J]. 食品工业科技, 2017, 38(10): 54-57.
- [57] 赵永福, 陈振林. 碳纳米管修饰电极分子印迹传感器的制备及其对氧乐果的测定[J]. 分析测试学报, 2016, 35(9): 1176-1180.
- [58] 陈秀丽, 武小满. 溶剂热法 ZnO 微球的制备及其光催化性能[J]. 化工新型材料, 2016, 44(9): 154-156.
- [59] 高海荣, 陈秀丽, 赵爱娟, 等. 郑州市 13 种绿化带植物中铅质量比的对比研究[J]. 环境监测管理与技术, 2016, 28(4): 32-34.
- [60] 韩怀远, 张蕾, 冯春磊, 等. 纳米硅乳液改性聚丙烯/二氧化钛超疏水-自清洁共混疏水微孔膜的研究[J]. 膜科学与技术, 2016, 36(3): 41-47.
- [61] 孙海杰, 朱兵, 黄振旭, 等. 助剂前体 ZnSO₄ 浓度对苯选择加氢制环己烯 Ru-Zn 催化剂性能的影响[J]. 分子催化, 2016, 30(2): 105-114.
- [62] 韩怀远, 张蕾, 冯春磊, 等. 热致相分离法制备聚丙烯-热致相分离法制备聚丙烯热致相分离法制备聚丙烯[J]. 膜科学与技术, 2016, 36(2): 48-54.
- [63] 孙海杰, 陈凌霞, 陈秀丽, 等. ZrO₂ 织构性质对 Ru-B/ZrO₂ 催化剂的结构及其苯选择加氢性能的影响[J]. 石油化工, 2015, 44(9): 1066-1070.
- [64] 赵永福, 张文华. 聚赖氨酸/多壁碳纳米管修饰电极测定大米中的铅. 分析测试学报, 2015, 34(8): 953-957.

- [65] 孙海杰, 陈凌霞, 李帅辉, 等. Y_2O_3 掺杂 ZrO_2 对苯选择加氢制环己烯催化剂 Ru-La-B/ZrO_2 性能的影响[J]. 应用化学, 2014, 31(11): 1317-1322.
- [66] 孙海杰, 李永宇, 李帅辉, 等. Ru-Zn 催化剂上苯选择加氢制环己烯中试及其中毒和再生[J]. 石油化工, 2014, 43(10): 1137-1143.
- [67] 陈建军, 孙海杰, 李永宇, 等. 人造氧化铜叶子的制备及其可见光催化性能[J]. 无机盐工业, 2018, 50(5): 71-75.
- [68] 赵文伯, 王娇娇, 崔艳艳, 等. meso-苯基-4-吡啶基取代卟啉混合物的合成规律研究[J]. 化学试剂, 2018, 40(4): 345-347.
- [69] 赵文伯, 路佩贤, 邓亚茹, 等. meso-苯基-4-吡啶基取代卟啉混合物的正相高效液相色谱定量分析方法的建立[J]. 化学试剂, 2018, 40(5): 487-490.
- [70] 孙海杰, 陈凌霞, 黄振旭, 等. 第四周期过渡金属催化硼氢化钠分解制氢研究[J]. 无机盐工业, 2017, 49(5): 14-17.
- [71] 赵爱娟, 陈秀丽, 韩信任. 薰衣草精油提取工艺的正交优化及其成分的 GC/MS 测定[J]. 中国食品添加剂, 2017, (4): 168-172.
- [72] 高海荣, 陈秀丽, 赵爱娟, 等. 从茶叶中提取茶多酚工艺的对比研究[J]. 中国食品添加剂, 2017, (3): 133-137.
- [73] 刘远方, 赵爱娟. 谷物 β -葡聚糖分子结构、物理特性及应用的研究进展[J]. 食品工业, 2017, 2(38): 253-256.
- [74] 高海荣, 黄振旭, 李华敏. 16 种中国茶叶中茶多酚含量对比研究[J]. 食品研究与开发, 2016, 37(7): 33-36.
- [75] 陈秀丽, 高海荣, 黄振旭, 等. 电子鼻分析方法在白酒分类识别中的应用. 信阳师范学院学报(自然科学版), 2014, 26(7): 386-389.
- [76] 陈秀丽, 赵爱娟, 卫世乾. BP 神经网络在电子鼻分类识别多品牌白酒中的应用研究. 江西师范大学学报(自然科学版), 2014, 38(4): 358-377.
- [77] 黄振旭, 高海荣, 裴先茹, 等. 苯选择加氢制环己烯 Ru-Fe/ZrO_2 催化剂的表征[J]. 河南科技大学学报(自然科学版), 2014, 35(4): 96-99.
- [78] 高海荣, 黄振旭, 卫世乾. 铅对沉水植物龙须眼子菜光合作用的影响[J]. 信阳师范学院学报(自然科学版), 2014, 27(2): 239-242.
- [79] 穆兵, 李敬亚, 吴养洁. 二茂铁亚胺环钯二聚体催化合成联苯及其衍生物的研究[J]. 河南师范大学学报(自然科学版), 2013, 41, 81-85.

[80] 王雅萍, 毛华丹, 王婉琼, 等. $\text{SiO}_2@\text{CaF}_2:\text{Eu}^{3+}$ 核壳纳米球的制备及发光性能研究[J]. 河南师范大学大学学报, 2013, 41(2): 104-106.