

## 2019年度核查研究组及成果清单

| 序号 | 组名   | 论文题目  | 作者   | 通讯作者             | 刊名                                       | 年份   |
|----|------|---|--|------------------|--|------|
| 1  | 103  | 2D transition metal carbide MXene as a robust biosensing platform for enzyme immobilization and ultrasensitive detection of phenol                  | 吴令霞, 卢宪波, Dhanjai, 吴忠帅, 董琰峰, 王晓辉, 郑双好, 陈吉平   | 卢宪波              | BIOSENSORS & BIOELECTRONICS              | 2018 |
| 2  | 504  | Metal-organic framework-based mixed matrix membranes: Synergetic effect of adsorption and diffusion for CO <sub>2</sub> /CH <sub>4</sub> separation | 郭昂, 班宇杰, 杨昆, 杨维慎   | 班宇杰, 杨维慎         | JOURNAL OF MEMBRANE SCIENCE              | 2018 |
| 3  | 506  | Heterogeneous hydroformylation of long-chain alkenes in IL-in-oil Pickering emulsion  | 陶琳, 钟明梅, 陈建, Sanjeevi Jayakumar, 刘利娜, 李贺, 杨启华  | 杨启华              | GREEN CHEMISTRY                          | 2018 |
| 4  | 05T5 | Measurement of proton chemical shift anisotropy in solid-state NMR spectroscopy   | 梁力鑫, 包信和, 侯广进  | 侯广进              | SOLID STATE NUCLEAR MAGNETIC RESONANCE   | 2018 |
| 5  | 05T7 | The Development of Yolk   | 田昊, Fei Huang, Yihan Zhu, Shaomin Liu, Yu Han, Mietek Jaroniec, 杨启华, Hongyang Liu, G. Q. Max Lu and 刘健 | 刘健, Hongyang Liu | ADVANCED FUNCTIONAL MATERIALS            | 2018 |
| 6  | 708  | Energy-Transfer Kinetics for Xe (6p <sup>1/2</sup> (0)) Atoms in Kr, Ar, Ne, and He   | 何山, 刘栋, 李学杨, 褚俊植, 郭敬为, 刘金波, 胡墅, 桑凤亭, 金玉奇   | 郭敬为              | JOURNAL OF PHYSICAL CHEMISTRY A          | 2018 |
| 7  | 1101 | Lead-Free Direct Bandgap Double Perovskite Nanocrystals with Bright Dual-Color Emission   | 杨斌, 毛鑫, 洪峰, Weiwei Meng, 唐宇轩, 夏栩笙, 羊送球, 邓伟侨, 韩克利   | 韩克利              | JOURNAL OF THE AMERICAN CHEMICAL SOCIETY | 2018 |
| 8  | 1102 | Ultrafast Excited-State Dynamics of 2,5-Dimethylpyrrole   | 杨栋元, 闵彦钧, 陈志超, 贺志刚, 袁开军, 戴东旭, 杨学明, 吴国荣   | 吴国荣              | PHYSICAL CHEMISTRY CHEMICAL PHYSICS      | 2018 |
| 9  | 1102 | Infrared photodissociation spectroscopy of cold cationic trimethylamine complexes   | 雷鑫, 孔祥涛, 赵志, 张冰冰, 戴东旭, 杨学明, 江凌   | 江凌               | PHYSICAL CHEMISTRY CHEMICAL PHYSICS      | 2018 |

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|----|------|---|--|---------------------|--|------|
| 10 | 1110 | Observation of Internal Photoinduced Electron and Hole Separation   | 刘俊学, 冷静, 吴凯丰, 张军, 金盛烨  | 金盛烨, 张军             | JOURNAL OF THE AMERICAN CHEMICAL SOCIETY | 2017 |
| 11 | 1500 | Single Cobalt Atoms Anchored on Porous N-Doped Graphene with Dual Reaction Sites for Efficient Fenton-like Catalysis  | 李旭宁, 黄祥, 席识博, 苗澍, 丁杰, 蔡卫征, 刘松, 杨晓丽, 杨洪斌, 高加俭, 王军虎, 黄延强, 张涛, 刘彬   | 黄延强                 | Journal of American Chemical Society     | 2018 |
| 12 | 1500 | Selective production of renewable para-xylene by tungsten carbide catalyzed atom-economic cascade reactions   | 代骏, 李昌志, 李林, 赵宗保, 张波, 丛昱, 王爱琴  | 李昌志, 王爱琴            | ANGEWANDTE CHEMIE-INTERNATIONAL EDITION  | 2018 |
| 13 | 1805 | Effective degradation of curdlan powder by a novel endo-beta-1 -> 3-glucanase   | 李悝悝, 陈玮, 王文霞, 谭海东, 李曙光, 尹恒   | 尹恒                  | CARBOHYDRATE POLYMERS                    | 2018 |
| 14 | 1808 | Quality Control of Serum and Plasma by Quantification of (4E, 14Z)-Sphingadienine-C18-1-Phosphate Uncovers Common Preanalytical Errors During Handling of Whole Blood | 刘心昱, Miriam Hoene, 尹沛源, Louise Fritsche, Peter Plomgaard, Jakob S. Hansen, Christos T. Nakas, Andreas M. Niess, Jens Hudemann, Michael Haap, | 许国旺, Rainer Lehmann | CLINICAL CHEMISTRY                       | 2018 |
| 15 | 1809 | Construction of hierarchically porous monoliths from covalent organic frameworks (COFs) and their application for bisphenol A removal                                 | 刘忠山, 王红卫, 欧俊杰, 陈连芳, 叶明亮  | 欧俊杰, 叶明亮            | JOURNAL OF HAZARDOUS MATERIALS           | 2018 |
| 16 | 1818 | The environmental-sensitivity of a fluorescent <b>ZTRS-Cd(ii)</b> complex was applied to discriminate different types of surfactants and determine their CMC values   | 邓霏, 龙双双, 乔庆龙, 徐兆超  | 徐兆超                 | CHEMICAL COMMUNICATIONS                  | 2018 |
| 17 | 18T3 | Potential biomarkers of Parkinsons disease revealed by plasma metabolic profiling   | 赵慧园, Cui Wang, 赵楠, Wenxue Li, Zhaofei Yang, 刘欣欣, Weidong Le, 张晓哲   | Weidong Le, 张晓哲     | Journal of Chromatography B              | 2018 |
| 18 | 18T4 | Single-Cell Proteomics for Cancer Immunotherapy   | 李林梅, 颜世强, 林炳承, Qihui Shi, 陆瑶   | 陆瑶                  | Advances in Cancer Research              | 2018 |

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|----|---------|--|---|----------|---|------|
| 19 | 18T5    | Water-soluble Au nanoclusters for multiplexed mass spectrometry imaging  | 李吉楠, 刘静, 刘哲益, 谭媛, 刘晓艳, 王方军  | 王方军      | CHEMICAL COMMUNICATIONS                 | 2017 |
| 20 | 2300    | Selective Hydrogenation of Cinnamaldehyde Catalyzed by ZnO-Fe <sub>2</sub> O <sub>3</sub> Mixed Oxide Supported Gold Nanocatalysts   | 汪伟, 谢妍, 张少华, 刘星, Masatake Haruta, 黄家辉   | 谢妍, 黄家辉  | Catalysts                               | 2018 |
| 21 | 2300    | Chiral Ag-23 nanocluster with open shell electronic structure and helical face-centered cubic framework  | Liu, C.; Li, T.; Abroshan, H.; Li, Z.; Zhang, C.; Kim, H. J.; Li, G.; Jin, R. | 李杲       | Nature Communications                   | 2018 |
| 22 | DNL0301 | Ultrathin IrRu nanowire networks with high performance and durability for the hydrogen oxidation reaction in alkaline anion exchange membrane fuel cells                     | 覃博文, 俞红梅, 高学强, 姚德伟, 孙昕野, 宋微, 衣宝廉, 邵志刚   | 俞红梅, 邵志刚 | Journal of Materials Chemistry A        | 2018 |
| 23 | DNL0301 | Anchoring ultrafine Pt nanoparticles on the 3D hierarchical self-assembly of graphene/functionalized carbon black as a highly efficient oxygen reduction catalyst for PEMFCs | 唐雪君, 曾亚超, 曹龙生, 杨丽梦, 王志强, 方达晖, 高燕燕, 邵志刚, 衣宝廉                                   | 邵志刚      | Journal of Materials Chemistry A        | 2018 |
| 24 | DNL0306 | Lithiated Nafion as polymer electrolyte for solid-state lithium sulfur batteries using carbon-sulfur composite cathode   | 高静, 孙春水, 徐磊, 王崇, 郭德才, 陈浩, 陈剑  | 陈剑       | JOURNAL OF POWER SOURCES                | 2018 |
| 25 | DNL0601 | Carboxylic acid-modified metal oxide catalyst for selectivity-tunable aerobic ammoxidation   | 贾秀全, 马继平, 夏飞, 徐永明, 高进, 徐杰   | 徐杰       | Nature Communications                   | 2018 |
| 26 | DNL08T2 | Bridging Dealumination and Desilication for the Synthesis of Hierarchical MFI Zeolites   | 杨识途, 于晨曦, 于丽丽, 邹明明, 金长子, 张大治, 徐龙伢, 黄声骏  | 黄声骏      | Angewandte Chemie International Edition | 2017 |
| 27 | DNL0901 | Rational Synthesis of Chabazite (CHA) Zeolites with Controlled Si/Al Ratio and Their CO <sub>2</sub> /CH <sub>4</sub> /N <sub>2</sub> Adsorptive Separation Performances     | 郭亚, 孙天军, 顾一鸣, 刘小伟, 柯权力, 韦小丽, 王树东  | 孙天军, 王树东 | Chemistry-An Asian Journal              | 2018 |

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| 28 | DNL0901 | Synthesis of Co <sub>3</sub> O <sub>4</sub> nanoparticles with controllable size and their catalytic property  | 陈雅图, 王胜, 陈志萍, 丁亚, 张磊, 吕丽荣, 王                     | 王胜       | SOLID STATE SCIENCES                   | 2018 |
| 29 | DNL0906 | High CO <sub>2</sub> separation performance of Pebaxs/CNTs/GTA mixed matrix  | 赵丹, 任吉中, 王颖, 邱永涛, 李晖, 花开胜, 李新学, 季洁梅, 邓麦村         | 任吉中      | JOURNAL OF MEMBRANE SCIENCE            | 2017 |
| 30 | DNL1200 | Evolution of C-C Bond Formation in the Methanol-to-Olefins Process: From Direct Coupling to Autocatalysis  | 武新强, 徐舒涛, 魏迎旭, 张雯娜, 黄金斗, 徐庶亮, 何艳丽, 林杉帆, 孙毯毯, 刘中民 | 刘中民, 魏迎旭 | ACS Catalysis                          | 2018 |
| 31 | DNL1200 | Preparation of Spherical Mordenite Zeolite Assemblies with Excellent Catalytic Performance for Dimethyl Ether Carbonylation                                    | 李凌云, 王全义, 刘红超, 孙毯毯, 樊栋, 杨淼, 田鹏, 刘中民              | 田鹏, 刘中民  | ACS Applied Materials & Interfaces     | 2018 |
| 32 | DNL1700 | Advanced Porous Membranes with Slit-like Selective Layer for Flow Battery  | 乔琳, 张华民, 鲁文静, 肖传海, 傅强, 李先锋, Ivo F. J. Vankelecom | 李先锋      | Nano Energy                            | 2018 |
| 33 | DNL1700 | Polysulfide Stabilization: A Pivotal Strategy to Achieve High Energy Density Li-S Batteries with Long Cycle Life   | 陈雨晴, 张洪章, 徐文彬, 杨晓飞, 于滢, 李先锋, 张华民                 | 张洪章, 张华民 | ADVANCED FUNCTIONAL MATERIALS          | 2018 |
| 34 | DNL1903 | Using silicagel industrial wastes to synthesize polyethylene glycol/silica-hydroxyl form-stable phase change materials for thermal energy storage applications | 孙克衍, 寇艳, 郑慧, 刘忻, 谭志诚, 史全                         | 史全       | SOLAR ENERGY MATERIALS AND SOLAR CELLS | 2018 |