PERSONAL:

Name:	Kuaibing Wang
Department:	Department of Chemistry, College of Sciences
Gender:	Male
Degree:	Ph.D.
Title:	Associate Professor
Major:	Inorganic Chemistry
Graduated	Nanjing University
University:	
Tel:	18912940421
Email:	wangkb@njau.edu.cn



RESEARCH INTERESTS:

Inorganic Materials Synthesis;

- 1. Design, synthesis and properties of crystalline metal-organic frameworks (MOFs)
 - 1) Novel structure, including nano-sized MOFs;
 - 2) Electrochemical properties, including electrocatalysis, supercapacitors and Li-ions batteries;
 - 3) Potential biological properties.
- 2. Electrochemical performance of conductive MOFs

Other:

- 1) Metal oxides synthesized from inorganic methods;
- 2) Design and study of MOFs-derived metal or metal oxides materials.

PROFESSIONAL EXPERIENCE:

2017-present Associate professor, College of Sciences, Nanjing Agricultural University 2013-2016Lecturer, College of Sciences, Nanjing Agricultural University

HONORS AND AWARDS:

2014"Excellent comprehensive evaluation of teaching quality" (NAU)2015 Second prize in the young teachers teaching competition(NAU)2015Guiding undergraduate won the second prize for his excellent graduation thesis (NAU)

TEACHING:

- 《Inorganic and Analytical Chemistry》
- 《Inorganic Synthesis》
- Take responsibility for several key courses of Nanjing Agricultural University, such as Inorganic and Analytical Chemistry Experiment; Inorganic and Analytical Chemistry (online course, partly participated).
- Edited Books: 《General Chemistry》 (Beijing Forestry University, partly participated)
- Take responsibility for several SRT projects and have supervised several undergraduate students to complete their graduation dissertations.

RESEARCH PROJECTS:

(3)Design, synthesis and energy storage of 2D conductive MOFs with square

lattice(Foundation Research Project of Jiangsu Province, 2018.07~2020.6, in process)

- (2) Synthesis and performance study of core-shell supercapacitor electrode materials with multi-level carbon shells (Fundamental Research Funds for the Central Universities, KYZ201540, 2015.01~2017.12, done)
- (1) Co-Ni bimetal oxides electrode materials constructed from coordination polymer particles and their supercapacitive performance study (Open fund granted by State Key Laboratory of Coordination Chemistry, Nanjing University, 2015.02~2017.1, done)

PUBLICATIONS:

- (1) Kuaibing Wang, Zikai Wang, Xin Wang, Xueqin Zhou, Yuehong Tao, and Hua Wu*. Flexible long-chain-linker constructed Ni-based metal-organic frameworks with 1D helical channel and their pseudo-capacitor behavior studies. *J. Power Sources*, 2018, 377, 44-51.
- (2) Kuaibing Wang, Xiaoran Cao, Saier Wang, Wenjia Zhao, JiangyanXu, Zikai Wang, and Hua Wu*. Interpenetrated and polythreadedCoII-organic framework as a supercapacitor electrode material with ultrahigh capacity and excellent energy delivery efficiency. ACS Appl. Mater. Interfaces, 2018, 10, 9104-9115.
- (3) Kuaibing Wang, Lei Guo, Qianqian Wei, Huijian Wang, Aimin Lu, Mingbo Zheng, and Bo Lv*. Cu²⁺-Induced length change of Ni-based coordination polymer nanorods and research on NiO-based hybrid pseudocapacitor electrodes. *New J. Chem.*, **2018**,42, 9876-9885.
- (4) Kuaibing Wang*, Xurong Yi, XufeiLuo, Ying Shi, and JiangyanXu. Fabrication of Co₃O₄pseudocapacitor electrodes from nanoscale cobalt-organic frameworks. *Polyhedron*, 2016, 109, 26-32.
- (5) Kuaibing Wang*, Bing Jin, Aimin Lu, XuefeiLuo, and Ying Shi. Porous nickel oxide pseudo-capacitive materials fabricated by Ni-Schiffbase nanostructures template. *Polyhedron*, 2016, 117, 117-125.
- (6) **Kuaibing Wang***, JiangyanXu, Aimin Lu, Ying Shi and ZixiaLin.Coordination polymer template synthesis of hierarchical MnCo₂O_{4.5} and MnNi₆O₈ nanoparticles for electrochemical capacitors electrode. *Solid State Sci.*,**2016**, 58, 70-79.
- (7) Kuaibing Wang*, Zhiyang Zhang, Xiaobo Shi, Hongju Wang, Yanan Lu, and Xiaoyan Ma. Soft-template-synthesisofhollowCuO/Co₃O₄ composites for pseudo-capacitiveelectrode:Asynergeticeffect on electrochemicalperformance. J. Solid State Chem., 2016, 244, 75-83.
- (8) Kuaibing Wang*, Zhiyang Zhang, Xiaobo Shi, Hongju Wang, Yanan Lu, and Xiaoyan Ma. Temperature-dependent self-assembly of NiO/Co₃O₄ composites for supercapacitor electrodes with good cycling performance: from nanoparticles to nanorod arrays. *RSC Adv.*, 2015, 5(3), 1943–1948.
- (9) Kuaibing Wang*,Xiaobo Shi, Aiming Lu, Xiaoyan Ma, Zhiyang Zhang,Yanan Lu, and Hongju Wang. High nitrogen-doped carbon/Mn₃O₄ hybridssynthesized from nitrogen-rich coordinationpolymer particles as supercapacitor electrodes. *Dalton. Trans.*, **2015**, 44(1), 151–157.
- (10) Kuaibing Wang*, MingboZheng, Xiaobo Shi, Zixia Lin, Hongju Wang, and Yanan Lu, Glucose-ethanol-assisted synthesis of amorphous CoO@Ccore-shell composites for electrochemical capacitors electrode. *Chem. Eng. J.*,2015, 266, 141–147.
- (11) ZhihuiXu, Bo Lv, Xiaobo Shi, Lixian Chen, and Kuaibing Wang*, Chemical transformation

of hollow coordination polymer particles to Co_3O_4 nanostructures and their pseudo-capacitive behaviors. *Inorg. Chim. Acta*, **2015**, 427, 266–272.

- (12) Kuaibing Wang*,Xiaobo Shi, Zhiyang Zhang,Xiaoyan Ma, Yanan Lu, and Hongju Wang. Size-dependent capacitance of NiO nanoparticles synthesized from Ni-based coordination polymer precursors with different crystallinity. J. Alloy. Compd., 2015, 632, 361–367.
- (13) Bo Lv, Xiaobo Shi, Xiaoyan Ma, Zhiyang Zhang, and Kuaibing Wang*. Controllable fabrication of multifunctional 1D Ag-based coordination polymer@PVP nanowires. *New. J. Chem.*, 2015, 39 (1), 349–354.
- (14) Kuaibing Wang, Xiaoyan Ma, Zhiyang Zhang, MingboZheng, ZhirongGeng, and Zhilin Wang*. Indirect transformation of coordination-polymer particles into magnetic carbon-coated Mn₃O₄ (Mn₃O₄@C) nanowires for supercapacitor electrodes with good cycling performance. *Chem. Eur. J.*, **2013**, 19(22), 7084–7089.
- (15) Kuaibing Wang, ZhirongGeng, MingboZheng, Luyao, Ma, Xiaoyan Ma, and Zhilin Wang*. Controllable fabrication of coordination polymer particles (CPPs): a bridge between versatile organic building blocks and porous copper-based inorganic materials. *Cryst. Growth Des.*,2012, 12(11), 5606–5414.
- (16) Kuaibing Wang, Xiaoyan Ma, Dalin Shao, ZhirongGeng, Zhiyang Zhang, and Zhilin Wang*. Coordination-induced assembly of coordination polymer submicrospheres: promising antibacterial and in vitro anticancer activities. *Cryst. Growth Des.*,2012, 12(7), 3786–3791.
- (17) **Kuaibing Wang**, Yuxin Yin, Chengying Li, ZhirongGeng, and Zhilin Wang*. Facile synthesis of zinc(II)-carboxylate coordination polymer particles and their luminescent, biocompatible and antibacterial properties. *CrystEngComm*, **2011**, 13(20), 6231–6236.
- (18) **Kuaibing Wang**, ZhirongGeng, Yuxin Yin, Xiaoyan Ma, and Zhilin Wang*. Morphology effect on the luminescent property and antibacterial activity of coordination polymer particles with identical crystal structures. *CrystEngComm*, **2011**, 13(16), 5100–5104.