PERSONAL：

Name:	**Hua Wu**
Department:	Department of Chemistry, College of Sciences
Gender:	Female
Degree:	Ph.D.
Title:	Professor
Major:	Inorganic Chemistry
Graduated University:	Northeast Normal University
Email:	wuhua@njau.edu.cn

RESEARCH INTERESTS:

Metal-Organic Materials Synthesis;

Novel Metal-Organic MaterialsDiscovery: focus on crystal and nanometer size metal-organic materials with novel structure and excellent performance including optical properties, magneticproperties, and theelectrochemical performanceofsupercapacitor, Li-ionbatteries and oxygen evolution reaction.

1. Design and synthesisof novelcrystal and nanometermetal-organic coordination complexes.
2. Design and synthesisof novel metal-organic materials based on polyoxometalates.
3. Synthetic technology of nanometermetal-organic materialsdrug moleculesfor biological application.

PROFESSIONAL EXPERIENCE:

2012-now Full professor, College of Sciences, Nanjing Agricultural University

2011-2012 Full professor, Department of Base, Heilongjiang Agricultural Vocational and Technical College

2004-2011 Associate professor, Department of Base, Heilongjiang Agricultural Vocational and Technical College

1998-2004 Lecturer, Department of Base, Heilongjiang Agricultural Vocational and Technical College

1993-1998 Teaching assistant, Department of Base, Heilongjiang Agricultural Vocational and Technical College

HONORS AND AWARDS:

2016“Middle-aged Academic Leader” byQing-Lan Project (Jiangsu province)

2012Outstanding talent ofprofessional and technical by the 6th group of Jiamusi city (Heilongjiang province)

TEACHING:

- 《Inorganic Chemistry》
- 《Experimental Chemistry I》
- 《Basic Chemistry》
- Edited Books: 《Basic Chemistry》; 《InorganicandAnalyticalChemistry》(Editor in Chief:

Hua Wu).

- Take responsibility for several SRT of Jiangsu province and National innovationprojects, have supervised more than 30 undergraduate students to complete their graduation dissertations.

RESEARCH PROJECTS:

(7) Establishmentand catalytic performance study of new types based on "azabigring-polyoxometalate" coordination complexes. (Natural Science Foundation of Jiangsu province, BK20131314, 2013.7-2016.7, done);

(6) Sponsored as a middle-aged academic leader by "Qing Lan Project" of the Education Department of Jiangsu Province in 2016.

(5) The study of construction and catalytic performance of macrocyclic polyamine-polyoxometalate host-guest self-assembly system. (National Natural Science Foundation, 2013.1-2015.12, 21371098, done)

(4) Research of the synthesis, structure and antimicrobial activity based on multi-azolepesticideandpolyoxometalate(Fundamental Research Funds for the Central Universities, KYZ201323, 201301~201612, done)

(3) Study of construction and properties of polyoxometalate complexes modified by aza-crown containing phenolic hydroxyl group. (China Postdoctoral Science Foundation, No. 2015M570430, 2015.7-2017.7, done)

(2) Synthesis and property of aza-crown ether containing polyoxometalate. (Jiangsu Postdoctoral Science Foundation, No. 1401007C, 2015.4-2017.4, done)

(1) Synthesis and photocatalysis based on new type of "Robson big ring-polyoxometalate" coordination complexes. (State Key Laboratory of Coordination Chemistry, Nanjing University, 2014.2-2016.1, done)

PUBLICATIONS:

(21) Wang, K.; Wang, Z.; Wang, X.; Zhou, X.; Tao, Y.; **Wu, H.*** Flexible long-chain-linker constructed Ni-based metal-organic frameworks with 1D helical channel and their pseudo-capacitor behavior studies. ***Journal of Power Sources***., **2018**, *377*: 44–51.

(20) Wang, K.; Cao, X.; Wang, S.; Zhao, W.; Xu, J.; Wang, Z.; **Wu, H. *** Interpenetrated and polythreadedCo^{II}-organic frameworks as a supercapacitor electrode material with ultrahigh capacity and excellent energy delivery efficiency. ***ACS Appl. Mater. Interfaces.*** **2018**, 10, 9104−9115.

(19) Zhang, X.; Xi, R.; Yin, S.; Cao, X.; Zhang, Y.; Lin, L.; Chen, R.;**Wu, H.*** Three inorganic-organic hybrid complexes based on isopolymolybdate and derivatives of 1H-4-nitroimidazole. ***Journal of Solid State Chemistry.***, **2018**, *258*: 737–743.

(18) Shi, C.; Wang, Z.; Chen, Y.; **Wu, H.*** Structural diversity of four coordination polymers based on 5-nitro-1,2,3-benzenetricarboxylic acid (H_3nbta): Solvothermal syntheses, structural characterizations and properties. ***Journal of Solid State Chemistry.,*** **2017**, *253*: 35-42.

(17) Tao, Y.; Zhou, X.; Wang, Z.; Shi, Y.; Guo, Y.; **Wu, H.*** Two Cd^{II}-containing coordination polymers based on trinuclear and dodecanuclear clusters. ***Inorganic Chemistry Communications***., **2016**, *70*, 90–94.

(16)**Wu, H.***;Shi, C.; Zhao, Y.; Jiang, Y.; Tao, Y. Three coordination polymers based on different carboxylates, metals and a tri(4-imidazolylphenyl)amine ligand. ***Journal of Molecular Structure***., **2015,** *1086*, 276– 281.

(15) **Wu, H.***; Lu X; Yang, C.-L.; Dong, C.-X.; Wu, M.-S. Diverse topologies of seven d^{10} coordination polymers constructed from a long ligand and different carboxylates. ***CrystEngComm***., **2014**, 992 – 1000.

(14) **Wu, H.*** Lu, X.-L.; Lü, B.; Dong, C.-X.; Wu, M.-S. A novel three-dimensional Ag^{I} coordination polymer based on mixed naphthalene-1,5-disulfonate and aminoacetate ligands. ***ActaCryst. C69*.2013.**

(13)**Wu, H.;** Yang, J.* Liu, Y.-Y.; Ma, J.-F.* pH-Controlled assembly of two unusual entangled motifs based on a tridentate ligand and octamolybdate clusters: 1D + 1D → 3D poly-pseudorotaxane and 2D → 2D → 3D polycatenation. ***Crystal Growth & Design.***, **2012**,*12*, 2272–2276.

(12)**Wu, H.;** Yang, J.* Ma, J.-F.*Liu, Y.-Y.; Xie, T.-F.Syntheses, structures and photoelectronic properties of a series of tri- and tetra-nuclear metal complexes based on a ligand. ***Polyhedron***, **2012**, *31*, 136–142.

(11)**Wu, H.;** Yang, J.* Su, Z.-M.; Stuart, R. B.; Ma, J.-F.* An Exceptional 54-fold interpenetrated coordination polymer with 10^3-srs network topology. ***J. Am. Chem. Soc.***, **2011**, *133*, 11406–11409.

(10)**Wu, H.;** Liu, H.-Y.; Liu, Y.-Y.; Yan, J.* Liu, B.; Ma, J.-F.* An unprecedented 2D - 3D metal–organic polyrotaxane framework constructed from cadmium and a flexible star-like ligand. ***Chem. Commun***., **2011**, 47, 1818–1820.

(9)**Wu, H.;** Liu, H.-Y.; Yang, J.* Liu, B.; Ma, J.-F.*， Liu, Y.-Y.; Liu, Y.-Y. Series of coordination polymers based on different carboxylates and a tri(4-imidazolylphenyl) amine ligand: entangled structures and photoluminescence. ***Crystal Growth & Design***, **2011**, *11*, 2317–2324.

(8)**Wu, H.;** Liu, H.-Y.; Liu, B.; Yang, J.* Liu, Y.-Y.; Ma, J.-F.* Bai, H.-Y. Two unprecedented 3D metal–organic polyrotaxane frameworks based on a new flexible tri(imidazole) ligand. ***CrystEngComm***, **2011**, *13*, 3402–3407.

(7)**Wu, H.;** Liu, B.; Yang, J.* Liu, H.-Y.; Ma, J.-F.* A new type of entangled motif: from 2D polyrotaxane layers to a 3D polythreaded framework. ***CrystEngComm***, **2011**, *13*, 3661–3664.

(6) **Wu, H.;** Ma J.-F.* Liu, Y.-Y.; Yang, J.* Liu, H.-Y. Diverse topologies of six coordination polymers constructed from a tris(4-imidazo lylphenyl)amine ligand and different carboxylates. ***CrystEngComm***, **2011**,*13*, 7121-7128.

(5)**Wu, H.;** Dong, X.-W.; Liu, H.-Y.; Ma, J.-F.* Liu, Y.-Y.; Liu, Y.-Y.; Yang, J.* Construction of a series of inorganic–organic hybrid coordination polymers based on hexamethylenetetramine and sulfonate ligands. ***Inorganica Chimica Acta,* 2011**, 373, 19–26.

(4)Liu, H.-Y.; **Wu, H.;** Yang, J.* Liu, Y.-Y.; Liu, B.; Liu, Y.-Y.; Ma, J.-F.* pH-Dependent assembly of 1D to 3D octamolybdate hybrid materials based on a new flexible bis-[(pyridyl)-benzimidazole] ligand. ***Crystal Growth & Design,* 2011,** *11*, 2920–2927.

(3)Liu, H.-Y.; **Wu, H.;** Yang, J.* Liu, Y.-Y.; Ma, J.-F.* Bai, H.-Y. Solvothermalassembly of a series of organic-inorganic hybrid materials constructed from keggin polyoxometalateclusters and copper(I)-organic frameworks. ***Crystal Growth & Design,* 2011,** *11*, 1786-1797.

(2) **Wu, H.;** Dong, X.-W.; Ma, J.-F.*Liu, H.-Y. Yang, J.*Bai, H.-Y. Influence of anionic sulfonate-containing and nitrogen-containing mixed-ligands on the structures of silver coordination polymers. ***Dalton Trans***., **2009**, 3162–3174.

(1) **Wu, H.;** Dong, X.-W.; Liu, H.-Y.Ma, J.-F.* Li,S.-L.Yang,J. Liu, Y.-Y.Su, Z.-M.Influence of anionic sulfonate-containing co-ligands on the solid structures of silver complexes supported by 4,4¢-bipyridine bridges. ***Dalton Trans.***, 2008, 5331–5341.