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## 师资队伍

副教授、副研究员、高级工程师

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发布时间：2017-03-01

浏览次数：4015

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## 教育背景

2007/08 - 2013/08 华中农业大学, 食品科学技术学院, 博士

2000/09 - 2004/07 华中农业大学, 生命科学与技术学院, 学士

## 科研工作经历

2018/7 - 至今 华南理工大学, 华南软物质科学与技术高等研究院, 殷盼超教授团队, 特聘副研究员。

研究方向: 多金属氧酸盐的功能化修饰与自组装及其生物学效应研究。

2017/7 - 2018/7 暨南大学, 电气信息学院, 包装工程研究所, 副教授。

研究方向: 多金属氧酸盐抑菌膜制备及抑菌机制研究。

2016/12 - 2017/11 美国阿克伦大学, 高分子科学系, 访问学者, 导师: 刘天波教授。

研究方向: 利用光散射技术研究有机修饰的多金属氧簇在溶液中的自识别和自组装行为。

2013/11 - 2017/07 清华大学, 化学系, 博士后, 导师: 魏永革教授。

研究方向: 多酸纳米材料的合成、修饰, 及其胰岛素增敏辅助降低高血糖的作用。

2007/09-2013/06 华中农业大学, 食品科学技术学院, 导师: 韩鹤友教授。

研究方向: 功能化纳米探针的可控合成及其在食品安全检测中的应用。

## 获奖荣誉

获2009年华中农业大学优秀博士学位论文培植项目资助 (2009YB008)

获2008年华中农业大学硕士研究生创新研究项目资助 (2008CS05)

## 教学与科研情况

研究方向：研究多肽、蛋白质等生物大分子可控修饰多酸的方法，搭建高效的具有在线检测功能的反应装置，进行精确、即时的反应控制，合成具有生物活性的生物大分子-多酸杂化材料，并分别研究杂化材料在溶液和固相条件下的自组装行为和自组装规律，及其在蛋白质分离和提纯、细胞培养和分离、药物运输和组织工程等方面的应用。

主要业绩：至今在Nano Res., Angew. Chem.-Int. Ed., Dalton Trans.等国际著名期刊上发表31篇论文，申请发明型专利1项。

## 专利

1.韩鹤友, 原弘, 陈坤. 一种可视化快速检测三聚氰胺的方法及其试剂盒. 中国, 200910062894

## 发表文章列表

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1.Hongli Jia, Qi Li, Aruohan Bayaguud, Yichao Huang, Shan She, Kun Chen\*, Yongge Wei\*. Diversified polyoxovanadate derivatives obtained by copper(I)-catalysed azide-alkyne cycloaddition reaction: Their synthesis and structural characterization. Dalton Trans., 2018, 47, 577-584.

2.Jiancheng Luo, Kun Chen, Panchao Yin, Tao Li, Gang Wan, Jin Zhang, Songtao Ye, Xiaoman Bi, Yi Pang, Yongge Wei, Tianbo Liu. Effect of cation- $\pi$  interaction on the macroionic self-assembly. Angew. Chem.-Int. Ed., 2018, 57, 4067-4072.

3.Shan She, Chen Gao, Kun Chen, Aruohan Bayaguud, Yichao Huang, Bing-Wu Wang\*, Song Gao\*, Yongge Wei\*. A series of weakley-type polyoxomolybdates: Synthesis, characterization, and magnetic properties by a combined experimental and theoretical approach. Inorg. Chem., 2018, 57 (3), 963-969.

4.Kun Chen, Aruohan Bayaguud, Hui Li, Yang Chu, Haochen Zhang, Hongli Jia, Baofang Zhang, Zicheng Xiao, Pingfan Wu, Tianbo Liu\*, Yongge Wei\*. Improved peroxidase-mimic property: Sustainable, high-efficiency interfacial catalysis with H<sub>2</sub>O<sub>2</sub> on the surface of vesicles of hexavanadate-organic hybrid surfactants. Nano

Res., 2018, 11(3), 1313-1321.

5.Hongli Jia, Qi Li, Aruohan Bayaguud, Shan She, Yichao Huang, Kun Chen\*, Yongge Wei\*. Tosylation of alcohols: an effective strategy for the functional group transformation of organic derivatives of polyoxometalates. *Sci. Rep.*, 2017, 7: 12523.

6.Long Wu, Xiaoyan Xiao, Kun Chen, Wenmin Yin, Qin Li, Pan Wang, Zhicheng Lu, Jing Ma, Heyou Han\*. Ultrasensitive SERS detection of *Bacillus thuringiensis* special gene based on Au@ Ag NRs and magnetic beads. *Biosens. Bioelectron.*, 2017, 92: 321-327.

7.Chunlin Lv#, Kun Chen#, Junjie Hu, Jin Zhang, Rao Naumaan Nasim Khan, Yongge Wei\*. Reversible proton-switchable fluorescence controlled by conjugation effect in an organically-functionalized polyoxometalate. *Sci. Rep.*, 2016, 6: 27861.

8.Shan She, Shengtai Bian, Ruichao Huo, Kun Chen\*, Zehuan Huang, Jiangwei Zhang, Jian Hao, Yongge Wei\*. Degradable organically-derivatized polyoxometalate with enhanced activity against glioblastoma cell line. *Sci. Rep.*, 2016, 6:33529.

9.Yunshen Zhang, Hongli Jia, Jiangwei Zhang, Shijia Zhu, Kun Chen\*, Yongge Wei\*. Synthesis and characterization of [NBu<sub>4</sub>][La(CH<sub>3</sub>OH)<sub>2</sub>(DCU)NO<sub>3</sub>{Mo<sub>5</sub>O<sub>13</sub>(OMe)<sub>4</sub>(NO)}]·CH<sub>3</sub>OH: A novel Lanthanide-substituted Lindqvist-type oxo-nitrosyl polymolybdate. *Inorg. Chem. Commun.*, 2016, 70: 177-180.

10.Aruohan Bayaguud, Kun Chen, Yongge Wei\*. Controllable synthesis of polyoxovanadate-based coordination polymer nanosheets with extended exposure of catalytic sites. *Nano Res.*, 2016, 9(12): 3858-3867.

11.Zicheng Xiao, Kun Chen, Baolin Wu, Wenjing Li, Pingfan Wu, Yongge Wei\*. An easy way to construct polyoxovanadate-based organic-inorganic hybrids by stepwise functionalization. *Eur. J. Inorg. Chem.*, 2016, 6: 808-811.

12.Aruohan Bayaguud, Kun Chen, Yongge Wei\*. Facile synthesis of an organically-derivatized hexavanadate containing the remote amino group, TBA<sub>2</sub>[V<sub>6</sub>O<sub>13</sub>{(OCH<sub>2</sub>)<sub>3</sub>CNH<sub>2</sub>}<sub>2</sub>]. *CrystEngComm*, 2016, 18: 4042-4045.

13.Kun Chen, Shan She, Jiangwei Zhang, Aruohan Bayaguud, Yongge Wei\*. Label-free colorimetric detection of mercury via Hg<sup>2+</sup> ions-accelerated structural transformation of nanoscale metal-oxo clusters. *Sci. Rep.*, 2015, 5: 16316.

14.Yunshen Zhang, Yichao Huang, Jiangwei Zhang, Li Zhu, Kun Chen\*, Jian Hao\*. Two unprecedented aromatic guanidines supramolecular chains self-assembled by hydrogen bonding interaction. *J. Mol. Struct.*, 2015, 1097: 145-150.

15.Li Zhu, Kun Chen, Jian Hao, Zheyu Wei, Haocheng Zhang, Panchao Yin\*, Yongge Wei\*. Synthesis and crystallization behavior of surfactants with hexamolybdate as the polar headgroup. *Inorg. Chem.*, 2015, 54: 6075-6077.

16. Baolin Wu, Xiao Xu, Kun Chen, Zicheng Xiao\*, Pingfan Wu\*. Crystal structure of hexakis (4-(dimethylamino) pyridin-1-ium) decavanadate-water (1:16), C<sub>42</sub>H<sub>98</sub>N<sub>12</sub>O<sub>44</sub>V<sub>10</sub>. *Z. Krist.-New Cryst. Struct.*, 2015, 230: 353-355.
17. Long Wu#, Kun Chen#, Zhicheng Lu, Tingting Li, Kang Shao, Feng Shao, Heyou Han\*. Hydrogen-bonding recognition-induced aggregation of gold nanoparticles for the determination of the migration of melamine monomers using dynamic light scattering. *Anal. Chim. Acta*, 2014, 845: 92-97.
18. Feng Shao, Zhicheng Lu, Chen Liu, Heyou Han\*, Kun Chen, Wentao Li, Qigai He, Hui Peng, Juanni Chen. Hierarchical nanogaps within bioscaffold arrays as a high-performance SERS substrate for animal virus biosensing. *ACS Appl. Mater. Inter.*, 2014, 6(9): 6281-6289.
19. Kun Chen, Long Wu, Xiaochun Jiang, Zhicheng Lu, Heyou Han\*. Target triggered self-assembly of Au nanoparticles for amplified detection of *Bacillus thuringiensis* transgenic sequence using SERS. *Biosens. Bioelectron.*, 2014, 62(15): 196-200.
20. Kai Cai, Zhicheng Lv, Kun Chen, Liang Huang, Jing Wang, Feng Shao, Yanjun Wang and Heyou Han\*. Aqueous synthesis of porous platinum nanotubes at room temperature and their intrinsic peroxidase-like activity. *Chem. Commun.*, 2013, 49(54): 6024-6026.
21. Xiaochun Jiang, Kun Chen, Jing Wang, Kang Shao, Tao Fu, Feng Shao, Donglian Lu, Jiangong Liang, M. Frahat Foda, Heyou Han\*. Solid-state voltammetry-based electrochemical immunosensor for *Escherichia coli* using graphene oxide-Ag nanoparticle composites as labels. *Analyst*, 2013, 138: 3388-3393.
22. Xuepu Li, Kun Chen, Liang Huang, Donglian Lu, Jiangong Liang, Heyou Han\*. Sensitive immunoassay for porcine pseudorabies antibody based on fluorescence signal amplification induced by cation exchange in CdSe nanocrystals. *Microchimica Acta*, 2013, 180: 303-310.
23. Zihui Luo, Wentao Li, Donglian Lu, Kun Chen, Qigai He, Heyou Han\*, Mingqiang Zou. A SERS-based immunoassay for porcine circovirus type 2 using multi-branched gold nanoparticles. *Microchimica Acta*, 2013, 180(15-16): 1501-1507.

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