

## Publications

### 2018

- 1) Wen-Yi Zhou, Shan-Shan Li, Xiang-Yu Xiao, Shi-Hua Chen, Jin-Huai Liu, Xing-Jiu Huang\*  
Defect- and phase-engineering of Mn-mediated MoS<sub>2</sub> nanosheets for ultrahigh electrochemical sensing of heavy metal ions: chemical interaction-driven in situ catalytic redox reactions  
*Chemical Communications*, **2018**, 54, 9329--9332
- 2) Shi-Hua Chen, Yi-Xiang Li, Pei-Hua Li, Xiang-Yu Xiao, Min Jiang, Shan-Shan Li, Wen-Yi Zhou, Meng Yang\*, Xing-Jiu Huang\*, Wen-Qing Liu\*  
Electrochemical spectral methods for trace detection of heavy metals: A review  
*Trends in Analytical Chemistry*, **2018**, 106, 139-150
- 3) Shan-Shan Li, Wen-Yi Zhou, Yi-Xiang Li, Min Jiang, Zheng Guo, Jin-Huai Liu, Xing-Jiu Huang\*  
Noble Metal-Free Co<sub>0.6</sub>Fe<sub>2.4</sub>O<sub>4</sub> Nanocubes Self-Assembly Monolayer for Highly Sensitive Electrochemical Detection of As(III) based on Surface Defects  
*Analytical Chemistry*, **2018**, 90, 1263-1272
- 4) Shan-Shan Li, Wen-Yi Zhou, Min Jiang, Zheng Guo, Jin-Huai Liu, Lizhi Zhang,\* Xing-Jiu Huang\*  
Surface Fe(II)/Fe(III) Cycle Promoted Ultra-Highly Sensitive Electrochemical Sensing of Arsenic(III) with Dumbbell-like Au/Fe<sub>3</sub>O<sub>4</sub> Nanoparticles  
*Analytical Chemistry*, **2018**, 90, 4569-4577.
- 5) Wen-Yi Zhou, Shan-Shan Li, Jie-Yao Song, Min Jiang, Tian-Jia Jiang, Jin-Yun Liu,\* Jin-Huai Liu,\* Xing-Jiu Huang\*  
High Electrochemical Sensitivity of TiO<sub>2-x</sub> Nanosheets and Electron-Induced Mutual Interference Effect toward Heavy Metal Ions Demonstrated Using X-Ray Absorption Fine Structure (XAFS) Spectra  
*Analytical Chemistry*, **2018**, 90, 4328-4337.
- 6) Shan-Shan Li, Wen-Yi Zhou, Min Jiang, Li-Na Li, Yu-Feng Sun, Zheng Guo, Jin-Huai Liu, Xing-Jiu Huang\*  
Insights into diverse performance for the electroanalysis of Pb(II) on Fe<sub>2</sub>O<sub>3</sub> nanorods and hollow nanocubes: Toward analysis of adsorption sites  
*Electrochimica Acta*, **2018**, 288, 42-51.
- 7) Pei-Hua Li, Yi-Xiang Li, Shi-Hua Chen, Shan-Shan Li, Min Jiang, Zheng Guo, Jin-Huai Liu, Xing-Jiu Huang, Meng Yang\*  
Sensitive and interference-free electrochemical determination of Pb(II) in wastewater using porous Ce-Zr oxide nanospheres  
*Sensors and Actuators B*, **2018**, 257, 1009-1020
- 8) Meng Yang, Pei-Hua Li, Wei-Hong Xu, Yan Wei\*, Li-Na Li\*, Yu-Ying Huang, Yu-Feng Sun, Xing Chen\*, Jin-Huai Liu, Xing-Jiu Huang\*  
Reliable electrochemical sensing arsenic(III) in nearly groundwater pH based on efficient adsorption and excellent electrocatalytic ability of AuNPs/CeO<sub>2</sub>-ZrO<sub>2</sub> nanocomposite  
*Sensors and Actuators B*, **2018**, 255, 226-234
- 9) Min Jiang, Hui-Ru Chen, Shan-Shan Li, Rui Liang, Jin-Huai Liu, Yang Yang,\* Yue-Jin Wu, Meng Yang,\* and Xing-Jiu Huang\*  
The selective capture of Pb<sup>2+</sup> in rice phloem sap using glutathione-functionalized gold

nanoparticles/multi-walled carbon nanotubes: enhancing anti-interference electrochemical detection  
*Environmental Science: Nano*, **2018**, 5, 2761-2771

## 2017

- 10) Tian-Jia Jiang, Meng Yang, Shan-Shan Li, Ming-Jun Ma, Nan-Jing Zhao, Zheng Guo,\* Jin-Huai Liu,  
Xing-Jiu Huang\*  
In Situ Underwater Laser-Induced Breakdown Spectroscopy Analysis for Trace Cr(VI) in Aqueous  
Solution Supported by Electrosorption Enrichment and a Gas-Assisted Localized Liquid Discharge  
Apparatus  
*Analytical Chemistry*, **2017**, 89, 5557-5564
- 11) Zhen Jin, Meng Yang, Shao-Hua Chen, Jin-Huai Liu, Qun-Xiang Li,\* Xing-Jiu Huang\*  
Tin Oxide Crystals Exposed by Low-Energy {110} Facets for Enhanced Electrochemical Heavy  
Metal Ions Sensing: X-ray Absorption Fine Structure Experimental Combined with  
Density-Functional Theory Evidence  
*Analytical Chemistry*, **2017**, 89, 2613-2621
- 12) Wen-Yi Zhou, Jin-Yun Liu, Jie-Yao Song, Jin-Jin Li, Jin-Huai Liu,\* Xing-Jiu Huang\*  
Surface-Electronic-State-Modulated, Single-Crystalline (001) TiO<sub>2</sub> Nanosheets for Sensitive  
Electrochemical Sensing of Heavy-Metal Ions  
*Analytical Chemistry*, **2017**, 89, 3386-3394
- 13) Shan-Shan Li, Min Jiang, Tian-Jia Jiang, Jin-Huai Liu,\* Zheng Guo,\* Xing-Jiu Huang\*  
Competitive adsorption behavior toward metal ions on nano-Fe/Mg/Ni ternary layered double  
hydroxide proved by XPS: Evidence of selective and sensitive detection of Pb(II)  
*Journal of Hazardous Materials*, **2017**, 338, 1-10
- 14) Meng Yang, Tian-Jia Jiang, Zheng Guo, Jin-Huai Liu, Yu-Feng Sun\*, Xing Chen\*, Xing-Jiu Huang\*  
Sensitivity and selectivity sensing cadmium(II) using amination functionalized porous SnO<sub>2</sub> nanowire  
bundles-room temperature ionic liquid nanocomposite: Combined efficient cation capture with  
control experimental conditions  
*Sensors and Actuators B*, **2017**, 240, 887-894
- 15) Meng Yang, Tian-Jia Jiang, Yu Wang, Jin-Huai Liu, Li-Na Li\*, Xing Chen\*, Xing-Jiu Huang\*  
Enhanced electrochemical sensing arsenic(III) with excellent anti-interference using  
amino-functionalized graphene oxidized decorated gold microelectrode: XPS and XANES evidence  
*Sensors and Actuators B*, **2017**, 245, 230-237
- 16) Zheng Guo, Meng Yang, Xing-Jiu Huang\*  
Recent developments in electrochemical determination of arsenic  
*Current Opinion in Electrochemistry*, **2017**, 3, 130-136

## 2016 年

- 17) Chao Gao, Qiangqiang Meng, Kun Zhao, Huajie Yin, Dawei Wang, Jun Guo, Shenlong Zhao, Lin  
Chang, Meng He, Qunxiang Li, Huijun Zhao, Xing-Jiu Huang\*, Yan Gao,\* and Zhiyong Tang\*  
Co<sub>3</sub>O<sub>4</sub> Hexagonal Platelets with Controllable Facets Enabling Highly Efficient Visible-Light  
Photocatalytic Reduction of CO<sub>2</sub>  
*Advanced Materials*, **2016**, 28, 6485-6490

- 18) Shan-Shan Li, Wen-Juan Li, Tian-Jia Jiang, Zhong-Gang Liu, Xing Chen, Huai-Ping Cong, Jin-Huai Liu, Yu-Ying Huang, Li-Na Li\*, Xing-Jiu Huang\*  
Iron Oxide with Different Crystal Phases ( $\alpha$ - and  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub>) in Electroanalysis and Ultra-Sensitive and Selective Detection of Lead(II): An Advancing Approach Using XPS and EXAFS  
*Analytical Chemistry*, 2016, 88, 906–914
- 19) Juan Wei, Shan-Shan Li, Zheng Guo, Xing Chen, Jin-Huai Liu, Xing-Jiu Huang\*  
Adsorbent Assisted In Situ Electrocatalysis: An Ultra-Sensitive Detection of As(III) in Water at Fe<sub>3</sub>O<sub>4</sub> Nanosphere Densely decorated with Au Nanoparticles  
*Analytical Chemistry*, 2016, 88, 1154-1161.
- 20) Meng Yang, Xing Chen,\* Tian-Jia Jiang, Zheng Guo, Jin-Huai Liu,\* Xing-Jiu Huang\*  
Electrochemical Detection of Trace Arsenic(III) by Nanocomposite of Nanorod-Like  $\alpha$ -MnO<sub>2</sub> Decorated with ~5 nm Au Nanoparticles: Considering the Change of Arsenic Speciation  
*Analytical Chemistry*, 2016, 88, 9720-9728
- 21) Tian-Jia Jiang, Zheng Guo, Jin-Huai Liu, Xing-Jiu Huang\*  
Gold electrode modified with ultrathin SnO<sub>2</sub> nanosheets with high reactive exposed surface for electrochemical sensing of As(III)  
*Electrochimica Acta*, 2016, 191142-191148.
- 22) Tian-Jia Jiang, Zheng Guo, Ming-Jun Ma, Li Fang, Meng Yang, Shan-Shan Li, Jin-Huai Liu, Nan-Jing Zhao\*, Xing-Jiu Huang\*, Wen-Qing Liu  
Electrochemical laser induced breakdown spectroscopy for enhanced detection of Cd(II) without interference in rice on layer-by-layer assembly of graphene oxides  
*Electrochimica Acta*, 2016, 216, 188-195.
- 23) Meng Yang, Xing Chen,\* Jin-Huai Liu, Xing-Jiu Huang\*  
Enhanced anti-interference on electrochemical detection of arsenite with nanoporous gold in mild condition  
*Sensors and Actuators B*, 2016, 234, 404-411
- 24) Meng Yang, Zheng Guo, Li-Na Li, Yu-Ying Huang, Jin-Huai Liu, Qi Zhou, Xing Chen\*, Xing-Jiu Huang\*  
Electrochemical determination of arsenic(III) with ultra-high anti-interference performance using Au–Cu bimetallic nanoparticles  
*Sensors and Actuators B*, 2016, 231, 70-78

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- 25) Tian-Jia Jiang, Zheng Guo, Jin-Huai Liu, Xing-Jiu Huang\*  
Electroadsorption-Assisted Direct Determination of Trace Arsenic without Interference Using Transmission X-ray Fluorescence Spectroscopy  
*Analytical Chemistry*, 2015, 87, 8503-8507.
- 26) Juan Wei, Zheng Guo, Xing Chen, Dong-Dong Han, Xiang-Ke Wang\*, Xing-Jiu Huang\*  
Ultrasensitive and Ultrasensitive Impedimetric Detection of Cr(VI) Using Crown Ethers as High-Affinity Targeting Receptors  
*Analytical Chemistry*, 2015, 87, 1991-1998.
- 27) Fanli Meng, Zheng Guo, Xing-Jiu Huang\*  
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- 28) Xing Chen, Zheng Guo, Zhong-Gang Liu, Yu-Jing Jiang, Dong-Ping Zhan, Jin-Huai Liu, Xing-Jiu Huang\*  
A Versatile Environmental Impedimetric Sensor for Ultrasensitive Determination of Persistent Organic Pollutants (POPs) And Highly Toxic Inorganic Ions  
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- 29) Zhong-Gang Liu, Yu-Feng Sun, Wen-Kai Chen, Yuan Kong, Zhen Jin, Xing Chen, Xiao Zheng,\* Jin-Huai Liu, Xing-Jiu Huang\*, Shu-Hong Yu\*  
Facet-Dependent Stripping Behavior of Cu<sub>2</sub>O Microcrystals Toward Lead Ions: A Rational Design for the Determination of Lead Ions  
*Small*, 2015, 11, 2493-2498
- 30) Zheng Guo, Min-Qiang Li, Jin-Huai Liu, Xing-Jiu Huang\*  
Cation Exchange Synthesis and Unusual Resistive Switching Behaviors of Ag<sub>2</sub>Se Nanobelts  
*Small*, 2015, 11, 6285-6294
- 31) Wei-Hong Xu, Lei Wang, Zheng Guo, Xing Chen, Jin-Huai Liu, Xing-Jiu Huang\*  
Copper Nanowires as Nanoscale Interconnects: Their Environmental Stability, Electrical Transport, and Mechanical Properties  
*ACS Nano*, 2015, 9, 241-250.

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Sub-20 nm-Fe<sub>3</sub>O<sub>4</sub> squared and circular nanoplates: Synthesis and facet-dependent magnetic and electrochemical properties  
*Chemical Communications*, 2014, 50, 15952-15955
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Investigation of the facet-dependent performance of alpha-Fe<sub>2</sub>O<sub>3</sub> nanocrystals for heavy metal determination by stripping voltammetry  
*Chemical Communications*, 2014, 50, 5011-5013
- 34) Lijuan Wan, Jinhui Liu, Xing-Jiu Huang\*  
Novel magnetic nickel telluride nanowires decorated with thorns: synthesis and their intrinsic peroxidase-like activity for detection of glucose  
*Chemical Communications*, 2014, 50, 13589-13591
- 35) Zhong-Gang Liu, Xing-Jiu Huang\*  
Voltammetric determination of inorganic arsenic  
*Trends in Analytical chemistry*, 2014, 60, 25-35
- 36) Xian-Zhi Yao, Zheng Guo, Qing-Hong Yuan, Zhong-Gang Liu, Jin-Huai Liu, Xing-Jiu Huang\*  
Exploiting Differential Electrochemical Stripping Behaviors of Fe<sub>3</sub>O<sub>4</sub> Nanocrystals toward Heavy Metal Ions by Crystal Cutting  
*ACS Applied Materials & Interfaces*, 2014, 6, 12203-12213
- 37) Xin-Yao Yu, Xian-Zhi Yao, Tao Luo, Yong Jia, Jin-Huai Liu, Xing-Jiu Huang\*  
Facile Synthesis of Urchin-like NiCo<sub>2</sub>O<sub>4</sub> Hollow Microspheres with Enhanced Electrochemical

Properties in Energy and Environmentally Related Applications

*ACS Applied Materials & Interfaces*, 2014, 6, 3689-3695

- 38) Zhong-Gang Liu, Xing Chen, Yong Jia, Jin-Huai Liu, Xing-Jiu Huang\*  
Role of Fe(III) in preventing humic interference during As(III) detection on gold electrode:  
Spectroscopic and voltammetric evidence  
*Journal of Hazardous Materials*, 2014, 267, 153-160.
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Robust electrochemical analysis of As(III) integrating with interference tests: A case study in  
groundwater  
*Journal of Hazardous Materials*, 2014, 278, 66-74.
- 40) Zhen Jin, Yong-Xing Zhang, Fan-Li Meng, Yong Jia, Tao Luo, Xin-Yao Yu, Jin Wang, Jin-Huai Liu,  
Xing-Jiu Huang\*  
Facile synthesis of porous single crystalline ZnO nanoplates and their application in photocatalytic  
reduction of Cr(VI) in the presence of phenol  
*Journal of Hazardous Materials*, 2014, 276, 400-407.
- 41) Fang Fang, Lingtao Kong\*, Jiarui Huang, Shibiao Wu, Kaisheng Zhang, Xuelong Wang, Bai Sun,  
Zhen Jin, Jin Wang, Xing-Jiu Huang\*, Jinhui Liu\*  
Removal of cobalt ions from aqueous solution by an amination graphene oxide nanocomposite  
*Journal of Hazardous Materials*, 2014, 270, 1-10
- 42) Chao Gao, Xin-Yao Yu, Tao Luo, Yong Jia, Bai Sun, Jin-Huai Liu, Xing-Jiu Huang\*  
Millimeter-sized Mg–Al-LDH nanoflake impregnated magnetic alginate beads (LDH-n-MABs): a  
novel bio-based sorbent for the removal of fluoride in water  
*Journal of Materials Chemistry A*, 2014, 2, 2119-2128.
- 43) Tao Luo, Min He, Chao Gao, Jin-Huai Liu, Xing-Jiu Huang\*  
Specific size-matching strategy for electrochemical selective and sensitive detection of mercury(II)  
based on a three-dimensional-gap-net in a Au-thiol coordination polymer  
*Electrochemistry Communications*, 2014, 42, 26-29.

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Electrochemical detection of arsenic(III) completely free from noble metal: Fe<sub>3</sub>O<sub>4</sub>  
microspheres-room temperature ionic liquid composite showing better performance than gold  
*Analytical Chemistry*, 2013, 85, 2673-2680.
- 45) Lei Wang, Wei-Hong Xu, Ran Yang, Ting Zhou, Dong Hou, Xiao Zheng\*, Jin-Huai Liu, Xing-Jiu  
Huang\*  
Electrochemical and density functional theory investigation on high selectivity and sensitivity of  
exfoliated nano-zirconium phosphate toward lead (II)  
*Analytical Chemistry*, 2013, 85, 3984-3990.
- 46) Chao Gao, Xing-Jiu Huang\*  
Voltammetric determination of mercury(II)  
*Trends in Analytical chemistry*, 2013, 51, 1-12.
- 47) Xing Chen, Zhong-Gang Liu, Zhi-Qiang Zhao, Jin-Huai Liu, Xing-Jiu Huang\*

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- 53) Zhong-Gang Liu, Xing Chen, Jin-Huai Liu, Xing-Jiu Huang\*  
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*Analytica Chimica Acta*, **2013**, 790, 31-38.
- 55) Ren-Xia Xu, Xin-Yao Yu, Chao Gao, Jin-Huai Liu, Richard G. Compton, Xing-Jiu Huang\*  
Enhancing selectivity in stripping voltammetry by different adsorption behaviors: The use of nanostructured Mg-Al-layered double hydroxides to detect Cd(II)  
*Analyst*, **2013**, 138, 1812-1818
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Sensitive and selective electrochemical detection of dopamine using an electrode modified with carboxylated carbonaceous spheres  
*Analyst*, **2013**, 138, 2683-2690.
- 57) Yan Wei, Zhong-Gang Liu, Xing Chen, Jin-Huai Liu, Xing-Jiu Huang\*  
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Selective detection toward Hg(II) and Pb(II) using polypyrrole/carbonaceous nanospheres

modifiedscreen-printed electrode

***Electrochimica Acta*, 2013**, 105, 218- 223.

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Hydroxylation/carbonylation carbonaceous microspheres: A route without the need for an external functionalization to a "hunter" of lead(II) for electrochemical detection  
***Electrochimica Acta*, 2013**, 87, 46-52.
- 60) Qiao-Xin Zhang, Yu-Xue Chen, Zheng Guo, Hong-Lin Liu, Da-Peng Wang, **Xing-Jiu Huang\***  
Bioinspired Multifunctional Hetero-Hierarchical Micro/Nanostructure Tetragonal Array with Self-Cleaning, Anticorrosion, and Concentrators for the SERS Detection  
***ACS Applied Materials & Interfaces*, 2013**, 5, 10633-10642.
- 61) Yu-Jing Jiang, Xin-Yao Yu, Tao Luo, Yong Jia, Jin-Huai Liu, **Xing-Jiu Huang\***  
 $\gamma$ -Fe<sub>2</sub>O<sub>3</sub> Nanoparticles Encapsulated Millimeter-Sized Magnetic Chitosan Beads for Removal of Cr(VI) from Water: Thermodynamics, Kinetics, Regeneration, and Uptake Mechanisms  
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- 62) Yang Yu, Xing Chen, Yan Wei, Jin-Huai Liu, **Xing-Jiu Huang\***  
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*CdSe quantum dots enhanced electrical and electrochemical signals of nanogap device for bioanalysis*  
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- 64) Weihong Xu , Yongxing Zhang, Zheng Guo, Xing Chen, Jinhuai Liu, **Xing-Jiu Huang\***, Shu-Hong Yu\*  
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***Electrochemistry Communications*, 2012**, 23, 21-24.
- 67) Yan Wei, Ren-Xia Xu, Chao Gao, Jin-Huai Liu, **Xing-Jiu Huang\***  
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***Electrochemistry Communications*, 2012**, 18, 78-80.
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- 74) Xin-Yao Yu, Ren-Xia Xu, Chao Gao, Tao Luo, Yong Jia, Jin-Huai Liu, Xing-Jiu Huang\*  
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*Nanoscale*, **2012**, 4, 3466-3474
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*Materials Today*, 2011, 14, 42-49

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