



# 北京大学

PEKING UNIVERSITY

## 水沙科学教育部重点实验室

Key Laboratory of Water and Sediment Sciences, Ministry of Education



您的位置: 网站首页 » 发表论文

### 2012年发表论文

实验室2012年发表论文如下:

- (1) Yue, Yao; Ni, Jinren; Borthwick, Alistair G. L.; Miao, Chiyuan, Diagnosis of river basin s as CO2 sources or sinks subject to sediment movement, EARTH SURFACE PROCESSES AND LANDFORMS, 37(13),1398-1406, 2012. [SCI](#)
- (2) Ni, Jinren; Yue, Yao; Borthwick, Alistair G. L.; Li, Tianhong; Miao, Chiyuan; He, Xiaojia, Erosion-induced CO2 flux of small watersheds, GLOBAL AND PLANETARY CHANGE, 94-95,101-110, 2012. [SCI](#)
- (3) Chang, Ming; Zhou, Shungui; Sun, Qihong; Li, Tiexiang; Ni, Jinren, Recovery of Bacillus thuringiensis based biopesticides from fermented sludge by cross-flow microfiltration, DESALINATION AND WATER TREATMENT, 43,17-28, 2012. [SCI](#)
- (4) Ni, Jinren; Sun, Jinshui; Borthwick, Alistair G. L.; Fang, Yuan, Rapid Assessment of Intertidal Wetland Sediments, SOIL & SEDIMENT CONTAMINATION, 21(5),574-585, 2012. [SCI](#)
- (5) Zhang, Guangzhi; Sun, Weiling; Hu, Hao; Lu, Xuemei; Ni, Jinren, Sorption of phenanthrene on to soil fractions in the presence of Triton X-100, ENVIRONMENTAL TECHNOLOGY, 33(3),321-327, 2012. [SCI](#)
- (6) Xing, Xuan; Zhu, Xiuping; Li, Hongna; Jiang, Yi; Ni, Jinren, Electrochemical oxidation of nitrogen-heterocyclic compounds at boron-doped diamond electrode, CHEMOSPHERE, 86(4),368-375, 2012. [SCI](#)
- (7) Li, HN; Ni, JR, Electrogeneration of disinfection byproducts at a boron-doped diamond anode with resorcinol as a model substance, ELECTROCHIMICA ACTA, 69,268-274, 2012. [SCI](#)
- (8) Weiling Sun, Leixin Sang, Bofeng Jiang, Trace metals in sediments and aquatic plants from the Xiangjiang River, China; Journal of Soils and Sediments, 12 (10), 1649-1657, 2012. [SCI](#)

#### 实验室概况

- 实验室简介
- 实验室构成
- 学术委员会

#### 科研人员

- 固定人员

#### 学术研究

- 研究方向
- 研究成果
- 科研项目
- 发表论文
- 获得专利
- 学术会议

#### 仪器设备

#### 合作交流

- 合作平台
- 合作项目
- 访问学者

#### 招生信息

- 研究生招生
- 博士后招生
- 研究生课程进修班招生

#### 运行管理

- 实验室管理
- 办公室管理
- 访问学者管理
- 项目管理
- 成果管理
- 学生管理

- (9) Weiling Sun, Jing Xia, Si Li, Fang Sun, Effect of natural organic matter (NOM) on Cu (II) adsorption by multi-walled carbon nanotubes: Relation with NOM properties, Chemical Engineering Journal, 200-202, 627–636, 2012. [SCI](#)
- (10) Fang Sun, Wei-Ling Sun, A simultaneous removal of beryllium and ammonium-nitrogen from smelting wastewater in bench- and pilot-scale biological aerated filter, Chemical Engineering Journal, 210, 263-270, 2012. [SCI](#)
- (11) Jin, Yinjia; Liu, Fei; Tong, Meiping; Hou, Yanglong , Removal of arsenate by cetyltrimethylammonium bromide modified magnetic nanoparticles, JOURNAL OF HAZARDOUS MATERIALS, 227,461-468, 2012. [SCI](#)
- (12) Jiang, Xujia; Tong, Meiping; Lu, Ruiqing; Kim, Hyunjung, Transport and deposition of ZnO nanoparticles in saturated porous media, COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, 401,29-37, 2012. [SCI](#)
- (13) Tong, Meiping; Shen, Yun; Yang, Haiyan; Kim, Hyunjung, Deposition kinetics of MS2 bacteriophages on clay mineral surfaces, COLLOIDS AND SURFACES B-BIOINTERFACES, 92,340-347, 2012.[SCI](#)
- (14) Yang, Haiyan; Kim, Hyunjung; Tong, Meiping , Influence of humic acid on the transport behavior of bacteria in quartz sand, COLLOIDS AND SURFACES B-BIOINTERFACES, 91,122-129, 2012.[SCI](#)
- (15) Jiang, X., Tong\*, M., Kim\*, H., Influence of natural organic matter on the transport and deposition of zinc oxide nanoparticles in saturated porous media, Journal of Colloid and Interface Science , 15(1),34-43, 2012. [SCI](#)
- (16) Han, Y., Kim\*, H., Tong, M\*, .Characterization of stone powder sludge foams and their application to wastewater treatment: Role of Pore connectivity, Materials Chemistry and Physics , 134(1), 26-30, 2012. [SCI](#)
- (17) Yang, Haiyan, Tong\*, M., Kim\*, H, Influence of Bentonite Particles on Representative Gram Negative and Gram Positive Bacterial Deposition in Porous Media.
- (18) Environ. Sci. Technol., 46 (21), 11627–11634, 2012. [SCI](#)
- (19) Liu, Guo-hua; Zhu, Shi-Ni; Ye, Zhengfang, Reduction in the Acute Toxicity of Explosive Wastewater Containing Toxic Nitroaromatic Compounds by a Nanoscale Zerovalent Iron Pretreatment Process, WATER AIR AND SOIL POLLUTION, 223(8),5049-5055, 2012. [SCI](#)
- (20) Meng, Qingqiang; Zhao, Quanlin; Zhao, Xu; Wu, Tong; Ye, Zhengfang, Removal of Nitro Aromatic Compounds from 2,4,6-Trinitrotoluene Red Water Using 1,2-Ethanediamine Modified Macroporous Polystyrene Microspheres, CLEAN-SOIL AIR WATER, 40(8),823-829, 2012.[SCI](#)

- (21) Zhu, Shi-Ni; Liu, Guo-hua; Ye, Zhengfang; Zhao, Quanlin; Xu, Ying, Reduction of dinitrotoluene sulfonates in TNT red water using nanoscale zerovalent iron particles, ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, 19(6),2372-2380, 2012. [SCI](#)
- (22) Ye, Zhengfang; Meng, Qingqiang; Lu, Shengtao , Adsorption of 2,4,6-trinitrotoluene on carboxylated porous polystyrene microspheres, APPLIED SURFACE SCIENCE, 258(8),3624-3628, 2012. [SCI](#)
- (23) Ye, Zhengfang; Wang, Feng; Bi, Haitao; Wang, Zhongyou; Liu, Guo-hua, Denitrification of nitrate-contaminated groundwater using a simple immobilized activated sludge bioreactor, WATER SCIENCE AND TECHNOLOGY, 66(3),517-524, 2012. [SCI](#)
- (24) Xiaoli Li, Zhengfang Ye, Yun Zhang, Xiaojie Ma, Liuqing Yang Yanfeng Li , Efficient Removal of Hg(II) by Polymer-Supported Hydrated Metal Oxides From Aqueous Solution, SEPARATION SCIENCE AND TECHNOLOGY, 47(5),729-741, 2012. [SCI](#)
- (25) Guo-hua Liu, Zhengfang Ye, Haoyang Li, Ran Che, Lili Cui, Biological treatment of hexanitrostilbene (HNS) produced wastewater using an anaerobic-aerobic immobilized microbial system, CHEMICAL ENGINEERING JOURNAL, 213,118-124, 2012. [SCI](#)
- (26) Xu Zhao, Quanlin Zhao, Qingqiang Meng, Wei Xia and Zhengfang Ye, REDUCTIONS IN COD AND ACUTE TOXICITY OF WASTEWATER GENERATED FROM REFINED COTTON PRODUCTION USING ACTIVATED CARBON FIBRE (ACF), THE CANADIAN JOURNAL OF CHEMICAL ENGINEERING, 9999, 1-8, 2012.[SCI](#)
- (27) Meng, QQ; Song, K; Zhao, QL; Ye, ZF, Removal of nitro aromatic compounds and sulfite acid from distillate of 2,4,6-trinitrotoluene red water using modified porous polystyrene microspheres, JOURNAL OF APPLIED POLYMER SCIENCE, 127(3),1578-1584, 2012. [SCI](#)
- (28) Zhao, Bin; Zhao, Huazhang; Dockko, Seok; Ni, Jinren, Arsenate removal from simulated groundwater with a Donnan dialyzer, JOURNAL OF HAZARDOUS MATERIALS, 215,115-121, 2012.[SCI](#)
- (29) Zhao, Huazhang; Zhang, Yan; Zhao, Bin; Chang, Yingyue; Li, Zhenshan, Electrochemical Reduction of Carbon Dioxide in an MFC-MEC System with a Layer-by-Layer Self-Assembly Carbon Nanotube/Cobalt Phthalocyanine Modified Electrode, ENVIRONMENTAL SCIENCE & TECHNOLOGY, 46(9),5198-5204, 2012. [SCI](#)
- (30) Zhao, Hua-Zhang; Zhang, Yan; He, Xiao-Jia; Wang, Hong-Yu, Stability and coagulation behavior of solid Al-13 purified with an ethanol-acetone fractional precipitation method, CHEMICAL ENGINEERING JOURNAL, 179,203-203, 2012.[SCI](#)
- (31) Zhao HZ, Du Q, Li ZS, \*Yang QZ, Mechanisms for the direct electron transfer of cytochrome c

hrome c induced by multi-walled carbon nanotubes, *Sensors*, 12(8): 10450-10462, 2011.

## 2. [SCI](#)

- (32) Zhao HZ, Zhang Y, Chang YY, Li ZS, Conversion of a substrate carbon source to formic acid for carbon dioxide emission reduction utilizing series-stacked microbial fuel cells, *JOURNAL OF POWER SOURCES*, 217: 59-64, 2012. [SCI](#)
- (33) Yang, Yonghui; Wang, Cuiyu; Guo, Huaicheng; Sheng, Hu; Zhou, Feng, An integrated SOM-based multivariate approach for spatio-temporal patterns identification and source apportionment of pollution in complex river network, *ENVIRONMENTAL POLLUTION*, 168,71-79, 2012. [SCI](#)
- (34) Sheng, Hu; Liu, Hui; Wang, Cuiyu; Guo, Huaicheng; Liu, Yong; Yang, Yonghui, Analysis of cyanobacteria bloom in the Waihai part of Dianchi Lake, China, *ECOLOGICAL INFORMATICS*, 10,37-48. , 2012. [SCI](#)
- (35) Ji, Guodong; Wu, Yingchao; Wang, Chen, Analysis of microbial characterization in an upflow anaerobic sludge bed/biological aerated filter system for treating microcrystalline cellulose wastewater, *BIORESOURCE TECHNOLOGY*, 120,60-69, 2012. [SCI](#)
- (36) Ji, Guodong; Zhang, Baolong; Wu, Yingchao , Combined ultrasound/ozone degradation of carbazole in APG(1214) surfactant solution, *JOURNAL OF HAZARDOUS MATERIALS*, 225,1-7, 2012. [SCI](#)
- (37) Ji, Guodong; Wang, Rongjing; Zhi, Wei; Liu, Xuexin; Kong, Yaping; Tan, Yufei, Distribution patterns of denitrification functional genes and microbial floras in multimedia constructed wetlands, *ECOLOGICAL ENGINEERING*, 44,179-188, 2012. [SCI](#)
- (38) Ji, Guodong; Zhi, Wei; Tan, Yufei, Association of nitrogen micro-cycle functional genes in subsurface wastewater infiltration systems, *ECOLOGICAL ENGINEERING*, 4,269-277, 2012.[SCI](#)
- (39) Ji Guo-dong; Zhou Guo-hui, Elution of 17 alpha 25-Norhopanes and Triaromatic Steroids from Weathered Soils by Mixed Triton X-100/Na<sub>2</sub>SiO<sub>3</sub> Surfactant Solution, *CHEMICAL RESEARCH IN CHINESE UNIVERSITIES*, 28(3),419-423, 2012. [SCI](#)
- (40) Zhi W, Ji GD.\* , Constructed wetlands, 1991–2011: A review of research development, current trends, and future directions, *Science of The Total Environment*, 441(15):19–27, 2012. [SCI](#)
- (41) Chen, Qian; Ni, Jinren, Ammonium removal by *Agrobacterium* sp LAD9 capable of heterotrophic nitrification-aerobic denitrification, *JOURNAL OF BIOSCIENCE AND BIOENGINEERING*, 113(5),619-623, 2012. [SCI](#)
- (42) Zhou Hui-fen; Li Zhen-shan; Xue Dong-qian; Lei Yang, Time Use Patterns Between Maintenance, Subsistence and Leisure Activities: A Case Study in China, *SOCIAL INDICAT*

- (43) Xie, Qinglong; Kong, Sifang; Liu, Yangsheng; Zeng, Hui, Syngas production by two-stage method of biomass catalytic pyrolysis and gasification, *BIORESOURCE TECHNOLOGY*, 110,603-609, 2012. [SCI](#)
- (44) Wang, Jun-Jian; Guo, Ying-Ying; Guo, Da-Li; Yin, Sen-Lu; Kong, De-Liang; Liu, Yang-Sheng; Zeng, Hui, Fine Root Mercury Heterogeneity: Metabolism of Lower-Order Roots as an Effective Route for Mercury Removal, *ENVIRONMENTAL SCIENCE & TECHNOLOGY*, 46(2),769-777, 2012. [SCI](#)
- (45) Wen, Donghui; Li, Guozheng; Xing, Rui; Park, Seongjun; Rittmann, Bruce E., 2,4-DNT removal in intimately coupled photobiocatalysis: the roles of adsorption, photolysis, photocatalysis, and biotransformation, *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*, 95(1),263-272, 2012. [SCI](#)
- (46) Zhao, Cui; Wen, Donghui; Zhang, Yin; Zhang, Jing; Tang, Xiaoyan, Experimental and Mathematical Methodology on the Optimization of Bacterial Consortium for the Simultaneous Degradation of Three Nitrogen Heterocyclic Compounds, *ENVIRONMENTAL SCIENCE & TECHNOLOGY*, 46(11),6205-6213, 2012. [SCI](#)
- (47) Wen, Donghui; Bai, Yaohui; Shi, Qing; Li, Zongxun; Sun, Qinghua; Sun, Renhua; Feng, Chuanping; Tang, Xiaoyan, Bacterial diversity in the polluted water of the Dianchi Lakeshore in China, *ANNALS OF MICROBIOLOGY*, 62(2),715-723, 2012. [SCI](#)
- (48) Bai, Yaohui; Sun, Qinghua; Wen, Donghui; Tang, Xiaoyan, Abundance of ammonia-oxidizing bacteria and archaea in industrial and domestic wastewater treatment systems, *FEMS MICROBIOLOGY ECOLOGY*, 80(2),323-330, 2012. [SCI](#)
- (49) Bai, Yaohui; Sun, Qinghua; Sun, Renhua; Wen, Donghui; Tang, Xiaoyan, Comparison of denitrifier communities in the biofilms of bioaugmented and non-augmented zeolite-biological aerated filters, *ENVIRONMENTAL TECHNOLOGY*, 33(17),1993-1998, 2012. [SCI](#)
- (50) Wu, Weizhong; Yang, Feifei; Yang, Luhua, Biological denitrification with a novel biodegradable polymer as carbon source and biofilm carrier, *BIORESOURCE TECHNOLOGY*, 118,136-140, 2012.[SCI](#)
- (51) Yan, Mingquan; Wang, Dongsheng; Xie, Jiankun; Liu, Chunxia; Cheng, Jixia; Chow, Christopher W. K.; van Leeuwen, John, Investigation of the adsorption characteristics of natural organic matter from typical Chinese surface waters onto alumina using quartz crystal microbalance with dissipation, *JOURNAL OF HAZARDOUS MATERIALS*, 215,115-121, 2012. [SCI](#)
- (52) Yan, Mingquan; Korshin, Gregory; Wang, Dongsheng; Cai, Zhenxiao, Characterization of dissolved organic matter using high-performance liquid chromatography (HPLC)-size e

xclusion chromatography (SEC) with a multiple wavelength absorbance detector, CHEMOSPHERE, 87(8),879-885, 2012. [SCI](#)

- (53) 邢瑞;温东辉;唐孝炎; 外与真空紫外深度处理焦化废水的试验研究, 北京大学学报(自然科学版), 48(04),630-637
- (54) 陈佳利; 吴为中;杨春平; 严森; 沈志强, 基于BDPs的多级土壤渗滤系统处理受污染河水的试验研究, 环境科学学报, 32,(4) 909-915
- (55) 严森; 吴为中; 杨春平; 谌建宇; 曾光明; 陈佳利; 于茜; 水力负荷及固相碳源对BAF+多级土壤渗滤组合工艺处理污水的影响研究, 环境科学学报, 32,(8) 1793-1800
- (56) 李天宏, 王祉宁; 基于GIS、RS和CASA模型的深圳市逐月NPP估算及其变化特征研究, 应用基础与工程科学学报, 20(增), 126-135
- (57) 周涛;李天宏; 延河流域土壤侵蚀经济损失评估, 水土保持研究, 19(05),115-119,291
- (58) 李天宏;郑丽娜; 基于RUSLE模型的延河流域2001—2010年土壤侵蚀动态变化, 自然资源学报, 27(07),1164-1175
- (59) 谢旺成;李天宏; 流域泥沙输移比研究进展, 北京大学学报(自然科学版), 48(04),676-685
- (60) 白凤姣;李天宏; 基于GIS和L-THIA模型的深圳市观澜河流域非点源污染负荷变化分析, 环境科学, 33(08),2667-2673
- (61) 曾秋兰, 李振山, 卢傅安,王艺淋, 高速公路透风型挡风墙不同位置防风特性的数值模拟研究, 中国沙漠, 32(6): 1542-1550.
- (62) 王荣华 李振山; 多壁碳纳米管同时吸附铅离子和对硝基酚的实验研究, 应用基础与工程科学学报, 20(5):787-799
- (63) 王曦溪;李振山; 1998—2008年我国废水污水处理的碳排放量估算, 环境科学学报, 32(07),1764-1776
- (64) 袁丽;刘阳生; 铅锌尾矿中重金属在模拟酸雨淋溶下的浸出规律, 环境工程, 30(S2),586-590,292
- (65) 衣静;刘阳生; 垃圾焚烧烟气中氯化氢产生机理及其脱除技术研究进展, 环境工程, 30(05),50-54,113
- (66) 马涵宇;李芸邑;刘阳生; 城市生活垃圾筛上物制备RDF及其燃烧特性研究, 环境工程, 30(04),96-100
- (67) 任春蕊;刘阳生;曾辉; 堇青石-莫来石和工业石蜡的低温节能特性对比研究, 北京大学学报(自然科学版), 48(05),812-816
- (68) 闵玉涛;袁丽;刘阳生, 载硫活性炭纤维(ACF/S)吸附脱除模拟烟气中的铅, 北京大学学报(自然科学版), 48(6),989-998

- (69) Wei Lin; Liu Yangsheng, Present Status of e-waste Disposal and Recycling in China, *Procedia Environmental Sciences*, 16,506-514
- (70) Hui Liu; Sifang Kong; Yangsheng Liu; Hui Zeng, The status and progress of resource utilization technology of e-waste pollution in China. *Procedia Environmental Sciences*,
- (71) 朱婷婷; 倪晋仁; 表面活性剂对 *Bacillus pumilus* strain Bap9 降解苯并[a]芘的影响, *环境工程学报*, 6(09), 3344-3348
- (72) 鲁雪梅; 熊鹰; 张广之; 倪晋仁; 锰氧化物-阳离子交换树脂复合材料的制备及其对水中重金属的吸附性能, *环境化学*, 31(10), 1580-1589
- (73) 朱婷婷; 倪晋仁; 降解苯并[a]芘的 *Bacillus pumilus* strain Bap 9 菌株的分离、鉴定与降解特性, *应用基础与工程科学学报*, 20(02), 169-178
- (74) 常明; 周顺桂; 孙启宏; 摆亚军; 陈晨; 倪晋仁; 城市污泥中重金属镉对苏云金杆菌发酵的影响机制, *生态环境学报*, 21(03), 524-530
- (75) 常明; 摆亚军; 孙启宏; 陈晨; 倪晋仁;  $Pb^{2+}$  对城市污水处理厂污泥中苏云金芽孢杆菌发酵的影响, *环境科学研究*, 25(08), 933-940
- (76) 孙锐; 舒帆; 孙卫玲; 郝伟; 李丽, 典型铅锌矿区水稻土重金属污染特征, *北京大学学报(自然科学版)*, 48(1), 139-146
- (77) 孙芳; 孙卫玲; 曝气生物滤池处理高氨氮含铍废水研究, *环境科学与技术*, 35(04), 153-157
- (78) 张石磊; 晋银佳; 童美萍; 单极并联式电絮凝反应器处理含  $Zn^{2+}$  和  $Cd^{2+}$  冶金废水, *工业水处理*, 32(10), 19-22
- (79) 张默贺; 叶正芳; 赵泉林; 华刚; 马金明; 王延庆; 张德龙, 铁碳微电解预处理 TNT 红水, *环境工程学报*, 6(09), 3115-3120
- (80) 朱世妮; 徐颖; 叶正芳; 活性焦和活性炭负载纳米铁处理 TNT 红水中的二硝基甲苯磺酸钠, *环境工程学报*, 6(10), 3503-3508