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个人主页：	



个人简历

教育背景：

1980年9月至1984年7月，北京大学地质系，本科生
 1984年9月至1987年7月，中国地质大学（北京）地矿系，硕士生
 1989年9月至1993年12月，中国地质大学（北京）地矿系，博士生

工作经历：

1987年8月至1992年11月，中国地质大学（北京）地矿系，助教、讲师
 1992年12月至1997年11月，中国地质大学（北京）地矿系、材料系，副教授
 1997年12月至2000年5月，中国地质大学（北京）材料系，教授
 2000年6月至今，北京大学地球与空间科学学院，教授

学术或社会职务：

第十一届全国政协委员，
 中国民盟同盟北京大学委员会主委。
 国际矿物学协会(IMA)理事会执行理事（5位专家理事之一），
 中国矿物岩石地球化学学会理事
 环境矿物学专业委员会主任委员，
 中国地质学会理事
 矿物学专业委员会副主任委员，
 中国矿业联合会矿山环境保护与治理工作委员会理事，
 中国材料学会环境材料分会理事，
 国际SCI刊物美国《Elements》编委，
 日本《Journal of Mineralogical and Petrological Sciences》编委，
 国内核心刊物《岩石矿物学杂志》编委，
 《矿物岩石地球化学通报》编委，
 《水文地质与工程地质》编委。

工作情况及研究方向

教学与主讲课程：

研究生必修课：环境矿物学
 主持研究生必修课：材料及环境矿物学专题研讨
 本科生选修课：材料及环境矿物学

所在专业与主要研究方向：

地质学（材料及环境矿物学）专业
 环境矿物学研究
 环境矿物材料研究

主持的主要科研课题：

国家自然科学基金面上项目, 49672071, 天然铁的硫化物处理重金属污染物机理研究, 1997.1—1999.12
 国土资源部攻关课题, 9505207, 利用天然铁的硫化物治理电镀废水应用研究, 1998.6—2001.12
 科学技术部攀登-特别支持项目, 99019, 环境矿物材料基本性能及开发应用研究, 1999.6—2001.6
 中国地质调查局综合研究项目, 9902007, 北京地区垃圾填埋场选址防渗与地下水污染防治环境矿物材料利用研究, 1999.9—2002.12
 国家自然科学基金面上项目, 49972017, 天然铁锰氧化物及氢氧化物治理土壤重金属污染方法研究, 2000.1—2002.12
 国家自然科学基金面上项目, 40172022, 天然钛的氧化物降解水体中卤代有机污染物方法研究, 2002.1—2004.12
 科技部基础研究重大项目前期研究专项项目, 2001CCA02400, 无机界矿物环境属性中天然自净化功能研究, 2002.1—2004.12
 国家自然科学基金面上项目, 40572022, 天然闪锌矿降解多卤芳香烃有机污染物方法研究, 2006.1—2008.12
 国家重点基础研究发展计划(973)项目首席科学家, 2007CB815600, 若干生命活动中矿化作用的环境响应机制研究, 2007.7—2011.8
 国家自然科学基金面上项目, 40972210, 人体心血管系统钙化物矿物学特征及临床与病理表现研究, 2010.1-2012.12

科研成果与主要论著

国内外学术刊物:

- Lu Anhuai, Chen Jie, Shi Junxian, Lu Xiaoying, Tang Junli, Guo Min. One-step disposal of Cr(VI)-bearing wastewater by natural pyrrhotite. *Chinese Science Bulletin*, 2000, 45(17): 1614-1616
- Chen C. X., Lu A. H., Cai K. Q. and Zhai Y. S. Sedimentary characteristics of Mg-rich carbonate formations and minerogenic fluids of magnesite and talc occurrences in early Proterozoic in eastern Liaoning province, China. *Science in China Series B-Chemistry*, 2002, 45:84-92
- Wang Hejing, Lu Anhuai and Chen Tao. A new method for clay mineral analysis and its application in geology. *Acta Geologica Sinica*, 2002, 76(4): 429-436
- Shan Qin, Zhe Li, Ziyu Wu and Anhuai Lu. The Mossbauer spectrum of the new mineral fluorannite. *Eur. J. Mineral.*, 2002, 14:1049-1052
- Lu Anhuai, Gao Xiang, Qin Shan, Wang Changqiu. Cryptomelane (KxMn8-xO16): Natural active octahedral molecular sieve (OMS-2). *Chinese Science Bulletin*, 2003, 48(9):920-923
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- Qin Shan, Wu Xiang, Liu Jun, Liu Jing, Wu Ziyu, Li Xiaodong, Lu Anhuai. Compressibility of epidote up to 20 Gpa at 298 K. *Chin. Phys. Lett.*, 2003, 20(7): 1172- 1174
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- Lu Anhuai. Environmental properties of minerals and contaminants purified by mineralogical method. *Acta Geologica Sinica*, 2004, 78(1):192-203
- Ruixia Hao, Anhuai Lu, Guanyu Wang. Crude oil-degraded thermophilic bacterium from oil field. *Canadian Journal of Microbiology*, 2004, 50(3):175-182
- Ruixia Hao, Anhuai Lu, Yishan Zeng. Effect on crude oil by thermophilic bacterium. *Journal of Petroleum Science and Engineering*, 2004, 43(3/4):247-258
- Chen TH, Xu HF, Lu AH, Xu XC, Peng SC, Yue SC. Direct evidence of transformation from smectite to palygorskite: TEM investigation. *Sci. China Ser. D-Earth Sci.*, 2004, 47 (11): 985-994
- Anhuai Lu, Shaojun Zhong, Jie Chen, Junxian Shi, Junli Tang, Xiaoying Lu. Removal of Cr(VI) and Cr(III) from aqueous solutions and industrial wastewaters by natural clino-pyrrhotite. *Environmental Science & Technology*, 2006, 40(9):3064-3069 (该刊华盛顿编辑部特别对此文重点配发了题为“ One-step process removes chromium from wastewater: A simple and inexpensive new method developed in China for removing chromium from industrial wastewater could prove useful throughout the world” 的专题新闻报道)
- Lu Anhuai, Huang Shanshan, Liu Rui, Zhao Dongjun, Qin Shan. Environmental effects of micro- and ultramicro-channel structures of natural minerals. *Acta Geologica Sinica*, 2006, 80(2):163-173
- Lijuan Wang, Anhuai Lu*, Changqiu Wang, Xishen Zheng, Dongjun Zhao and Rui Liu. Nano-fibriform production of silica from natural chrysotile. *Journal of Colloid and Interface Science*, 2006, 295(2): 436-439
- Liu Rui, Lu Anhuai*, Qin Shan. Synthesis of Pb-feldspar by ion exchange reaction and its implications. *Acta Geologica Sinica*, 2006, 80(2):180-185
- Li Yan, Lu Anhuai*, Wang Changqiu. Photocatalytic Reduction of Chromium (VI) by Natural Sphalerite suspensions under visible light irradiation. *Acta Geologica Sinica*, 2006, 80(2):282-289
- Wang Lijuan, Lu Anhuai*, Wang Changqiu, Li Xuejun, Zheng Xishen, Zhao Dongjun, Liu Rui. Porous properties of nano-fibriform silica from natural chrysotile. *Acta Geologica Sinica*, 2006, 80(2):186-191
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- Yan Li, Anhuai Lu*, Song Jin, Changqiu Wang, 2009. Photoreductive decolorization of an azo dye by natural sphalerite: case study of a new class of visible-light-driven photocatalysts. *Journal of Hazardous Materials*, 170: 479-486
- Yan Li, Anhuai Lu*, Hongrui Ding, Song Jin, Yunhua Yan, Changqiu Wang, Cui ping Zeng, Xin Wang, 2009. Cr(VI) reduction at rutile-catalyzed cathode in microbial fuel cells. *Electrochemistry Communications*, 11: 1496-1499
- Yan Li, Anhuai Lu* and Changqiu Wang, 2009. Semiconducting mineralogical characteristics of natural sphalerite gestating visible-light photocatalysis. *Acta Geologica Sinica*, 80 (3): 633-689
- Wang LJ, Lu AH, Xiao ZY, Ma JH, Li YY, 2009. Modification of nano-fibriform silica by dimethyldichlorosilane. *Applied surface science*, 255(17): 7542-7546
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- Hongrui Ding, Yan Li, Anhuai Lu*, Song Jin, Chao Quan, Changqiu Wang, Xin Wang, Cui ping Zeng, Yunhua Yan. Photocatalytically Improved Azo Dye Reduction in a Microbial Fuel Cell with Rutile-Cathode. *Bioresource*