

研究队伍

您现在的位置: 首页 > 研究队伍

- 两院院士
- 百人计划
- 杰出青年
- 研究员
- 副研究员
- 人才招聘
- 博士后

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更多信息:

【English】 青藏高原研究室

简历:

孔屏, 1985年毕业于北京大学技术物理系, 1996年3月在日本东京都立大学获得博士学位。之后在日本东京都立大学, 德国的科隆大学和美国的加州大学伯克利分校的空间科学实验室从事地球科学研究。2000年5月应中国科学院“百人工程”招聘回国, 归国后在中国科学院地质与地球物理研究所建立起了国内第一家原地生成宇宙成因核素实验室, 开展了地表剥蚀速率, 河流与湖泊演化, 冰川进退, 陨石在宇宙空间的暴露历史等方面的研究工作, 与澳大利亚, 英国, 法国和美国建立起了合作关系。

研究方向:

研究领域: 地球化学和宇宙化学, 核化学和放射化学
主攻方向: 宇宙成因核素在地球科学中的应用

学科类别:

宇宙成因核素及地质地表过程

职务:

社会任职:

获奖及荣誉:

承担科研项目情况:

- 2000年5月-2003年5月 百人计划: 地质样品和陨石样品的元素和同位素地球化学
- 2002年1月-2005年12月 杰出青年基金(40125010): 原地生成宇宙成因核素 ^{10}Be 和 ^{26}Al 在地貌演化中的应用
- 2006年1月-2008年12月 面上项目(40573041): 青藏高原末次大湖期高湖面宇宙核素成因年代学研究
- 2007年1月-2009年12月 面上项目(40673054): 内蒙东乌旗铁陨石的地球化学特征及其对中铁陨石成因的启示
- 2006年10月-2008年12月 国际合作交流项目(中澳科技合作特别基金)(40711120187): 宇宙暴露年代学研究 青藏高原湖泊的演化和长江阶地的形成年代
- 2007年10月-2010年10月 创新群体(40721003): 青藏高原东部隆升的深部结构与地表过程响应
- 2008年10月-2010年12月 国家重点实验室专项基金: 宇宙成因核素埋藏年龄法研究

代表论著:

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- Kong P. and Chai C. F. (1990) A new selective chemical dissolution procedure for chemical speciation studies of anomalous iridium in geological samples. Chem. Geol. 82, 51-56.
- Kong P., Chai C. F., Mao X. Y. and Ma S. L. (1991) Chemical species of iridium and other trace elements in the Cretaceous-Tertiary boundary clays and their implications. J. Radioanal. Nucl. Chem. 151, 201-211.
- Kong P., Ebihara M., Nakahara H. and Endo K. (1995) Chemical characteristics of metal phases of the Richardton H5 chondrite. Earth and Planetary Science Letters 136, 407-419.
- Kong P. and Ebihara M. (1996) Distribution of W and Mo in ordinary chondrites and implications for nebular and parent body thermal processes. Earth and Planetary Science Letters 137, 83-93.
- Kong P. and Ebihara M. (1996) Metal phases of L chondrites: Their formation and evolution in the nebula and in the parent body. Geochim. Cosmochim. Acta 60, 2667-2680.

7. Kong P., Ebihara M. and Nakahara H. (1996) Determination of 18 siderophile elements including all platinum group elements in chondritic metals and iron meteorites by instrumental neutron activation. *Anal. Chem.* 68, 4130-4134.
8. Kong P. and Ebihara M. (1997) The origin and nebular history of the metal phase of ordinary chondrites. *Geochim. Cosmochim. Acta* 61, 2317-2329.
9. Kong P. and Ebihara M. (1997) Reproducibility of elemental concentrations for JB-1, a GSJ rock reference sample, with special reference to Mo, W and Ta. *Geochem. J.* 31, 339-344.
10. Kong P., Tadashi M. and Ebihara M. (1997) Compositional continuity of enstatite chondrites and implications for heterogeneous accretion of the enstatite chondrite parent body. *Geochim. Cosmochim. Acta* 61, 4895-4914.
11. Kong P., Ebihara M. and Xie X. (1998) Reevaluation of formation of metal nodules in ordinary chondrites. *Meteoritics Planet. Sci.* 33, 993-998.
12. Kong P., Ebihara M. and Palme H. (1999) Siderophile elements in martian meteorites and implications for core formation in Mars. *Geochim. Cosmochim. Acta* 63, 1865-1875.
13. Kong P., Ebihara M. and Palme H. (1999) Distribution of siderophile elements in CR chondrites: Evidence for evaporation and recondensation during chondrule formation. *Geochim. Cosmochim. Acta* 63, 2637-2652.
14. Kong P. and Palme H. (1999) Compositional and genetic relationships between chondrules, chondrule rims, metal and matrix in the Renazzo chondrite. *Geochim. Cosmochim. Acta* 63, 3673-3682.
15. Kong P., Deloule E. and Palme H. (2000) REE-bearing sulfide in Bishunpur, a highly unequilibrated ordinary chondrite. *Earth and Planetary Science Letters* 177, 1-7.
16. Kong P. and Xie X. (2003) Redistribution of elements in heavily shocked Yanzhuang chondrite. *Meteoritics and Planetary Science* 38, 739-746.
17. Kong P., Na C., Fink D., Ding L., Huang F. (2007) Erosion in the northwest Tibet from in situ produced cosmogenic ^{10}Be and ^{26}Al in bedrocks. *Earth Surface Processes and Landforms* 32, 116-125.
18. Kong P., Na C., Fink D., Huang F., Ding L. (2007) Cosmogenic ^{10}Be inferred lake-level changes in Sumxi Co Basin, Western Tibet, *Journal of Asian Earth Sciences* 29, 698-703.
19. Kong P., Fabel D., Brown R., Freeman S. (2007) Cosmic-ray exposure age of Martian meteorite GRV99027. *Science in China Series D* 50(10), 1521-1524.
20. Kong P., Su W., Li X., Spettel B., Palme H., Tao K. (2008) Geochemistry and origin of metal, olivine clasts and matrix of Dongujimqin mesosiderite. *Meteoritics and Planetary Science* 43, 451-460.
21. Kong P., Granger D.E., Wu F., Caffee M.W., Wang Y., Zhao X., Zheng Y., 2009. Cosmogenic nuclide burial ages and provenance of the Xigeda paleo-lake: implications for evolution of the Middle Yangtze River. *Earth and Planetary Science Letters* 278, 131-141.
22. Kong P., Fink D., Na C., Huang F., 2009. Late Quaternary glaciation of the Tianshan, Central Asia, using Cosmogenic ^{10}Be surface exposure dating. *Quaternary Research* 72, 229-233.
23. Kong P., Na C., Fink D., Zhao X., Xiao W., 2009. Moraine dam related to late Quaternary glaciation in the Yulong Mountains, southwest China, and impacts on the Jinsha River. *Quaternary Science Reviews*, in press.
24. Kong P., Ding L., Lai Q., Huang F., 2009. Cosmogenic ^{21}Ne concentrations and exposure ages of summit bedrocks in Grove Mountains, Antarctica. *Science in China Series D*, in press.