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高精度分析数据的获取是高质量地球化学研究的重要前提。微区原位分析是当今地球化学和化学地球动力学发展的主要方向之一。激光剥蚀技术是微区原位微量元素丰度和同位素组成分析的重要支撑技术。本人主要从事该技术的开发及其在地球科学中的应用研究，并在全岩和矿物的微量元素含量准确分析，锆石U-Pb定年/微量元素/Lu-Hf同位素、硫化物Pb同位素组成等研究方面取得了重要创新成果。主持国家自然科学青年基金（40302015）和面上项目（40672029，40973011，41373004）和国家自然科学基金委员会国家重大科研仪器研制项目（41427804），科技部国家重点实验室自主研究重点课题（BJ08132-1，CJ11070），霍英东教育基金会第十一届高等院校青年教师基金项目一项（111018），教育部新世纪优秀人才支持计划一项（NCET-07-0687）；参加教育部科学研究重大项目（306021），国家自然科学重点基金（40133020）、国家重点基础研究发展计划（973计划，2003CB214606）、国家自然科学基金委员会"创新研究群体科学基金"（40521001）、教育部"长江学者、创新团队发展计划资助"（IRT0441，IRT0458）及高等学校学科创新引智计划（111计划）各1项。 获侯新世纪优秀人才支持计划、德封矿物岩石地化青年科学家奖、孙贤鉌奖、World Laboratory Wilhelm Simon Fellowships、陕西省科技新星等奖项。在国内外核心刊物上发表论文127篇（其中SCI论文90篇，第一作者及通讯作者SCI论文11篇，第三作者Nature论文一篇）。SCI论文共被引用4842次，其中他引3768次，第一作者SCI论文他引592次，单篇最高他引324次；近5年来，SCI论文总被引3807次，他引3147次；7篇论文入选ISI 高引用率论文（引用截至2015年12月31日），申请专利13项(5项发明专利）。 近5年培养学士7人，硕士8人，博士3人，博士后1人。

招生情况：可在地质学系招收硕士、博士研究生和博士后；在化学与材料科学学院招收分析化学硕士研究生。

发表论文：

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