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研究队伍

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研究员

孙力玲 简介

简介:

(女), 1994年在中国科学院金属研究所获得博士学位。1994 - 1996年为中国科学院物理研究所博士后。曾先后在日本科技厅无机材料研究所高压研究中心和美国康奈尔大学从事高压物理研究工作多年。现任中国科学院物理研究所研究员, 博士生导师。美国物理学会会员。

主要研究方向:

高压-低温-磁场条件下超导及其它电子关联系统的物态及物性的研究。超导及其它先进材料的高温高压合成。

过去的主要工作及获得的成果:

开展了新型超导材料及其它电子关联材料的高压下物性、物态及量子相变研究; 金属氢与富氯化物的绝缘体-金属转变及超导电性的研究; 金刚石的无机触媒合成等。发展先进的高压原位物性测量系统与实验技术, 建立了综合极端条件联合测量系统。在国内外学术刊物上发表SCI收录论文130多篇, 包括Nature, Nature子刊, PRL, ROPP, PNAS, Adv. Mater. 等。在国际学术会议上做邀请报告40余次。与国内外多个优秀研究组保持长期的合作关系。作为主要完成人曾获国家科技发明二等奖, 国家科技进步二等奖, 中国科学院科技进步一等奖和自然科学二等奖等奖励, 并获得中国物理学会胡刚复实验技术奖。

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目前的研究课题及展望:

目前承担国家自然科学基金重点项目、科技部重点专项项目和中科院B类先导项目等。发挥先进的高压原位测试设备与技术优势,开展新型超导体和新型拓扑材料的前沿研究。继续与国内外相关领域优秀研究小组开展合作。

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