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主要研究方向

1. 材料的变形与断裂行为：铝合金、金属间化合物、金属基复合材料的变形断裂行为及其微观机制；特殊条件（高速撞击、低温等）下材料的变形行为及微观机制；材料变形行为的计算机模拟。
2. 磁性材料：硬磁材料性能优化、组织表征及应用研究；磁性材料的辐照效应及磁性能稳定性研究；新型磁性材料设计与制备。
3. 功能纳米材料：复杂氧化物一维纳米材料、空心结构、介孔体系的制备、表征及其在环境与能源领域的应用；功能纳米材料的微波介电性能。
4. 金属陶瓷：新型金属陶瓷的制备及其应用基础研究。

社会兼职

中国机械工程学会材料分会 副秘书长、常务理事

中国材料学会青年工作委员会 常务理事

黑龙江省物理学会 常务理事

主要学术成果

1. Xu CY, **Zhen L**, Yang RS, Wang ZL, Synthesis of single-crystalline niobate nanorods via ion-exchange based on molten-salt reaction, *J. Am. Chem. Soc.* 2007, 129: 15444-15445
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