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## 个人简介：

阎鹏勋，理学博士，教授，博士生导师，国务院政府特殊津贴专家，兰州大学等离子体与金属材料研究所所长，全国热统教学与学术研究会副主任，甘肃省材料热处理与表面工程专业委员会主任，中国航天“国防科技表面工程国家重点实验室”学术委员；中科院兰州化学物理研究所兼职研究员和兼职博士生导师；并担任Nanotechnology, Appl. Phys. Lett., Cryst. Growth & Des., J. Appl. Phys, J. Phys. D, 物理学报, 摩擦学学报等数十种国际国内著名刊物的编委或审稿人。相关研究成果在Nanotechnology, Appl. Phys. Lett., 中国科学等著名刊物上发表论文200余篇，具有较高引用率；获得专利3项，并均成功实现产业化；以第一获奖人获得甘肃省科技进步二等奖1项，甘肃省高校科技进步一等奖1项，甘肃省高校科技进步二等奖3项；中科院科技进步三等奖1项；曾分别在德国国家核研究中心和新加坡南洋理工大学作两期博士后研究工作，并赴美国，日本，英国，瑞典，荷兰等国家的相关大学和研究单位学习和进行学术交流；获得2004年全国归侨先进个人；2005年九三学社建社60周年全国先进个人；光明日报，科技日报，中新社，甘肃日报，中央人民广播电台等数十家媒体都对本人及研究成果作过专题报道。

## 研究方向：

1. 低温等离子应用
2. 金属材料表面改性
3. 薄膜物理
4. 低维功能纳米材料
5. 金属纳米粉体制备技术、应用研究及其产业化
6. 场发射显示材料
7. 高效率太阳能电池材料
8. 锂离子二次电池电极材料

## 研究工作：

- 1) 自组制备DLC纳米锥点阵列及FED器件
- 2) 金属纳米粉体制备技术、应用研究及其产业化
- 3) 金属材料表面改性
- 4) 太阳能电池材料SnS薄膜制备及其光电转换特性
- 5) 锂锰氧化物形态控制及其充放电特性
- 6) 纳米ZnO形态控制及其导电和吸波特性
- 7) 半导体及磁性纳米线阵列自组制备
- 8) 碳基及金属氮化物硬质薄膜摩擦学特性
- 9) 先进真空等离子体镀膜设备研制

近五年发表的代表性论文(\*为通讯联系人)：

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研究成果： 长期从事纳米材料，材料物理，低温等离子体等方面的研究工作，在基础研究和应用开发方面均作出突出成绩。曾主持国家自然科学基金4项，甘肃省重大科技攻关项目2项，其它省部市及横向课题20余项。相关研究成果在 Nanotechnology, Appl. Phys. Lett., 中国科学等著名刊物上发表论文200余篇，具有较高引用率；出版教材1部，获得专利3项，并均成功实现产业化，以第一获奖人获得甘肃省科技进步二等奖1项，甘肃省高校科技进步一等奖1项，甘肃省高校科技进步二等奖3项。光明日报，科技日报，中新社，甘肃日报，中央人民广播电台等十多家媒体都对本人及研究成果作过专题报道。

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登陆修改