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材料科学与工程

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武汉科技大学

材料科学与工程博士后流动站简介

本站依托材料学博士点(1998)。材料学为国家重点(培育)学科(2007),材料科学与工程为湖北省重点学科(2006)和优势学科(2008)。本学科建有耐火材料与高温陶瓷省部共建国家重点实验室培育基地、湖北省高等学校材料学实验教学示范中心、湖北省中小企业共性技术冶金材料研发推广中心、湖北省耐火材料产品质量监督检验站等科研与检测机构。

材料科学与工程学科拥有一支学历层次高、理论基础扎实、学术思想活跃、富有创新精神的科研队伍,其中首席教授1人,博士生导师18人,湖北省“楚天学者计划”特聘教授2人,有2人为国家有突出贡献的专家2人,3人为湖北省有突出贡献的中青年专家3人,4人获宝钢优秀教师奖4人,2人为湖北省跨世纪学术骨干2人,有42人次在国内外各类学术团体兼职。

近五年承担了国家973计划前期专项1项、863计划面上项目和重点项目各1项、“十一五”支撑计划项目2项、国家自然科学基金15项、省部级和地方政府项目、厂企合作项目360项。获国家科技进步二等奖1项,省部级科技进步奖20项,国家发明专利授权52项。

本站主要研究方向有“先进耐火材料设计与制备技术”、“耐火材料服役过程与仿真技术”、“钢铁材料的组织控制与强韧化”、“钢铁材料的表面与界面”、“金属材料加工设备及其工艺控制技术”、“低维材料微结构与性能”。

Wuhan University of Science and Technology

Postdoctoral research station of materials science and engineering

This postdoctoral research station is relied on Doctoral Degree Program of Materials Science (1998), a key state-level (breeding) disciplines (2007). In this station, there are many institutions including key State laboratory breeding base of refractories and ceramics, university demonstration center for experimental teaching of materials science in Hubei province, Hubei province supervision and testing center for refractory product quality.

An academic and research team with high academic degrees, solid theoretical basis, active academic thoughts and innovation spirit has been built in the discipline of materials science and technology in this station. The group is composed of well-known scholars and researchers including 1 chair professor, 18 doctoral advisors, 2 Hubei province Chutian Scholars. In addition, 2 of its members are State-certified Experts with Outstanding Contributions, 3 Province-certified Experts of Middle and Young Ages with Outstanding Contributions, 4 as Excellent Teachers rewarded by Bao Steel Company Education Fund, 2 trans-century Backbone Researchers of Hubei Province, and some members hold posts for more than 40 person times in a wide variety of academic societies at home or abroad.

In recent 5 years, this station has undertaken many projects including the National High Technology Research and Development Program of China (863 Program), Significant Fundamental Research Development and Planning of China (973 Program), 15 Projects in the National Science & Technology Pillar Program during the Eleventh Five-Year Plan Period, projects from the National Natural Science Foundation of China, projects funded by provincial, ministerial and local government, as well as 360 corporate projects supported by industrial enterprise. This station has owned 20 state-level and provincial and ministerial-level awards, such as National S&T Progress Award, provincial and ministerial S&T Progress Award. This station has owned 50 National Invention Patents.

The main research aspects of the discipline include advanced designs and manufacturing technologies for refractory materials, material service process and its numerical simulation, microstructure control and strengthening and toughening of steel materials, surface and interface of steel materials, materials forming equipments and process control technologies, macrostructures and properties of low dimensional materials.

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