

Hefei Institutes of Physical Science, Chinese Academy of Sciences

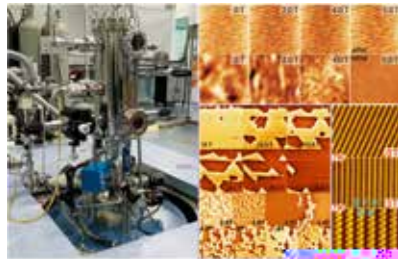
The research group has broken the international technical barriers and achieved a major breakthrough in the design, manufacturing, and key technology of steady high magnetic field facility through independent self-reliance. It builds three water-cooled magnets that set world records, the world's second hybrid magnet at 40-telsa level, and a series of state-of-art scientific experiment systems including the world's only scanning tunneling microscope usable in water-cooled magnets, the unique STM-MFM-AFM combo system, and the world-leading integrated extreme experimental conditions (high magnetic field, ultra high pressure and low temperature), which makes China now own the world's first-class scientific research condition of steady high magnetic field. The successful construction of the Steady High Magnetic Field Facility has strongly supported China's frontier scientific exploration, including physics, material science, chemistry, life sciences etc. It has produced a number of scientific achievements that have significant international influences. The facility not only becomes a core foundation of Hefei Science Center, Chinese Academy of Sciences, but also a key foundation for the construction of Hefei National Science Center.

Outstanding contributors of this research group

which the magnet technology and the overall



28MW



STM MFM AFM

As the chief engineer, he guided the design and construction of different types of

Zhang Yuheng

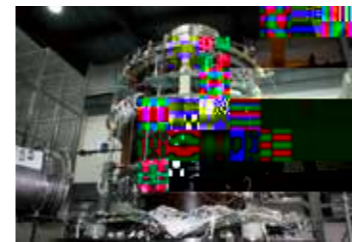
As the chief scientist, he determined the scientific goal and research direction



- Ye Chaohui
- Liu Xiaoning
- Zhang Xiaodong
- Qiu Ning
- Chen Wenge
- Ouyang Zhengrong
- Wu Zhongcheng
- Wu Jiefeng
- Tan Yunfei
- Pi Li
- Lu Qingyou
- Wang Junfeng
- Zhong Kai
- Wang Qiuliang
- Chen Zhiyou
- Zhang Yong



40T



CICC Nb3Sn

稳态强磁场实验装置研究集体

研究集体主要科技贡献:



研究集体突出贡献者

U[UU ` t 3e,



研究集体主要完成者

Zhang Yuheng



The world's only scanning tunnel microscope

The world-leading integrated extreme