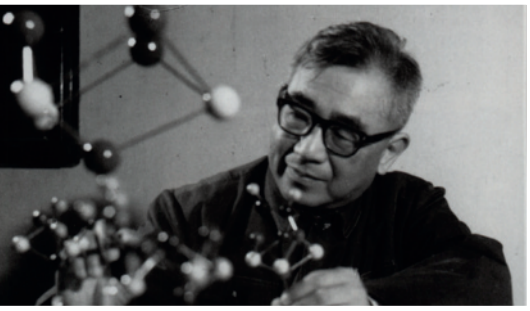

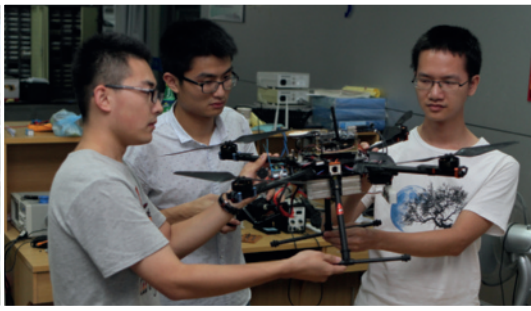

Fuzhou University

Engine promoting innovation in Southeast China

Founded in 1958, Fuzhou University is in Fuzhou city, the capital of Fujian Province in southeast China. It is one of a 100 universities selected as part of the Ministry of Education's prestigious 211 Project aimed at strengthening higher education and scientific research.

Fuzhou University has been listed in the global top 1 per cent for chemistry, engineering and materials science research by Thomson Reuters' Essential Science Indicators (ESI) 2014. The university was ranked 36 in Nature Index 2014 China and 23 in ESI's top 100 highly cited Chinese universities. In 2014, eight Fuzhou professors featured in Elsevier's Most Cited Chinese Researchers. Some of the university's latest research is highlighted below.

Chemistry

Photocatalysis. Fuzhou University's Research Institute of Photocatalysis, initiated by Xianzhi Fu in 1997, became a State Key Laboratory in 2013. It focuses on searching for new types of photocatalysts and co-catalysts for a range of applications. It has won one second-class Chinese National Award for Advancement in Science and Technology, two first-class, provincial-level awards within the same category, and one first-class award from the People's Liberation Army. In 2009, Fu was elected as an academician of the Chinese Academy of Engineering (CAE).

Industrial catalysis and biological analysis. The National Engineering Research Center of Chemical Fertilizer Catalysts (NERC-CFC) was founded by Kemei Wei, a CAE academician. Focused on environmentally friendly catalysts for ammonia and hydrogen production, exhaust gas treatment and clean fuel production, NERC-CFC has won five national awards, and seven provincial and ministerial awards.

The Key Laboratory of Analysis and Detection Technology for Food Safety of the Ministry of Education (MOE) explores electrochemiluminescence bioanalysis, nano-biosensors and biomarker analysis in living biological systems. The laboratory has been awarded nine provincial and ministerial awards.

Materials science

Jiaxi Lu, a key founding member of Fuzhou University, established the field of crystalline materials science. Over the past six decades, the field has become an influential research subject in China and one of the distinctive disciplines of Fuzhou University. It focuses on the synthesis of diverse crystalline materials, the relationship between structures and properties, and the application of specific crystalline materials to magneto-optics, lasers, and nonlinear optics.

Researchers at the Institute of Advanced Energy Materials have developed a new synthetic strategy for the self-assembly of mesostructural materials with controllable crystal phases, facets, dimensions, sizes, pores and morphologies, and discovered the relationships between the intrinsic characteristics of mesostructural materials and their photovoltaic and electrochemical properties.

The biomedical materials research group focuses on novel biomedical materials and their applications in diagnostics, theranostics, tissue engineering and biosimulation.

Physics

The Laboratory of Quantum Optics, led by Shibiao Zheng, a Yangtze River Scholar Professor, has proposed many important cavity-quantum-electrodynamics-based schemes for realizing entanglement and quantum logic operations. Of their papers published in Physics Review Letters, one has been cited over 700 times in Thomson Reuters's Science Citation Index journals. Zheng won the second-class National Award for Natural Science, and the National Award for Youth in Science and Technology.

The National Engineering Laboratory for Flat Panel Display focuses on the design, preparation and performance optimization of novel photoelectronic devices, such as printing displays and light-harvesting devices.

Mathematics and computer science

The Center for Discrete Mathematics and Theoretical Computer Science (DIMACS-FU), headed by Genghua Fan, became the MOE Key Laboratory of Discrete Mathematics with Applications in 2007. Its research focuses on graph theory and combinatorics, mathematical methods in very large-scale integration.

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