


Personal Resume				
name	Wenyuan Gao	Gender	male	
Title	Professor	Education	PH.D	
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Information

Professor Gao Wenyuan, male, doctor of engineering, master tutor. He is currently director of Liaoning Province Key Laboratory of New Materials and Materials Modification, executive director of China Silicate Society Ceramics Branch, editorial board on "China Ceramic Industry" Journal, National "863" project review expert library experts, National High-tech Innovation Entrepreneurship project review experts, Natural Science Foundation of Liaoning Province project review experts, Dalian City science and technology project review experts, Dalian High-tech Enterprise Accreditation Evaluation Experts. He has repeatedly won the Liaoning Province College Students "Challenge Cup" outstanding instructors, outstanding school Communist Party members.

Research (field) direction

1. The main academic research direction: New energy materials and low temperature solid oxide fuel cell material synthesis and battery assembly; solid waste recycling of functional green materials; ultrafine particles flow and heat transfer characteristics.
2. Recruiting a master's subject: Materials Science and Engineering.
3. The main courses: Inorganic materials processing principles, Inorganic material forming and processing technology, New energy materials, New building materials.
4. Guided master graduate student: There are 30 graduated students and 7 students enrolled.

Undertake scientific research projects:

presided over more than 10 research projects about national,

provincial and municipal levels, eg:

1. The China Environmental Protection Foundation "Green motion Future" 2010 Environmental Protection Research and Application Program of Colleges and Universities Outstanding Growth Project " Optimization of assembly process for Intermediate Temperature Solid Oxide Fuel Cell ";
2. Natural Science Foundation of Liaoning Province Project " Microwave synthesis and properties of key materials for Intermediate Temperature Solid Oxide Fuel Cell ";
3. Department of education of Liaoning Province higher school science research Project "Microwave synthesis and characterization of alkaline earth metal doped $\text{La}_{0.7}\text{Sr}_{0.3-x}\text{Ca}_x\text{Co}_{1-y}\text{Fe}_y\text{O}_{3-\delta}$ cathode material ";
- 4 Dalian Science and Technology Project " Microwave synthesis new cathode material of Alkali earth elements of double-doped perovskite A-based and Its application in ITSOFC";
5. Department of education of Liaoning Province higher school science research Project "The study of the Nano-crystals on Co-Ti Series Preparation using the Mechanochemical effect ";
6. Key Laboratory Project of Department of Education of Liaoning Province "Preparation of intelligent self-cleaning ceramic permeable brick with solid waste as raw material ";
7. Dalian Urban and Rural Construction Committee of Project "The research of the lightweight green building insulation materials with solid waste as raw material ";
8. Dalian Urban and Rural Construction Committee Project " Preparation of intelligent self-cleaning water-saving self-cleaning ceramic permeable brick with solid waste as raw material ";
9. Dalian Urban and Rural Construction Committee Project " Development of light insulation composite board from Dalian Dongtai ripe sludge ";
10. Natural Science Foundation of Liaoning Province Project "Study the service mechanism of Alkaline Earth double doped cathode on ITSOFC based on Dry Pressing assembly process ";

Representative Books and Papers

Rare Metal Materials and Engineering, Functional Materials, Power Technology, Battery, Rare earth, Chemical engineering, Petrochemical equipment, Modern chemical industry, China Ceramic Industry, Chinese pottery, New building materials.

Scientific research achievements (awards, patents, etc.)

1. The key technologies and industrialization of recycling carbohydrates of carbon filters, the clean production of functional materials, the second prize of 2014 China Light Industry Confederation Award for science and technology invention (2014-F-2-1) (ranked first)
2. Based on the key technologies of solid waste functional ceramic materials, 2013 Dalian Science and Technology Award for science and technology invention (2013F-2-04-01) (ranked first)

Declare 9 national invention patents, authorized invention patents 8

1. A method for making porous ceramic material by using carbon sugar filter mud (ZL200810229165.0)
2. The use of sugar filter made of biological filter media and methods (ZL200910220738.8)
3. The use of sugar filter mud made of lightweight closed-cell insulation materials and methods (ZL200910220739.2)
4. A method for preparing permeable material using municipal sludge and sugar filter mud (ZL 201110441890.6)
5. A mosaic of titanium dioxide permeable brick and its preparation method (ZL201210036703.0)
6. A perovskite Co-based composite cathode material and its preparation and

application (ZL201210017638.7)

7. A light non-burning insulation material and its preparation method
(ZL201310347940.3)

8. A method for preparing a low content sugar filter mud insulation material
(ZL201310343819.3)