Teacher Information				
Name	Jing-Xiao LIU	Gender	Female	
Academic tile	Professor	Education	Ph.D.	
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Individual Introduction:

Professor Jing-Xiao Liu，as a supervisor of master student, she received a Ph.D degree in material science from Dalian University of Technology in 2001. She was awarded the Thousand Talents Project Level Candidates of Liaoning Province in 2004, and was honored with the Title of Outstanding Teachers of Liaoning High Education Institutes in 2006. She worked as a visiting scholar in Tohoku University in Japan from 2008 to 2009. She was a member of the Materials Research Society during 2014-2015. She is a member of the Glass Association of Chinese Ceramic Society. She has been invited to act as a reviewer for more than 20 academic Journals.

Research:

The main research direction is ecological environment friendly materials and special functional materials (including biomedical materials). In recent years, about more than 50 articles have been cited by Science Citation Index (SCI), and 15 Chinese Invention Patents have been authorized. In addition, the following projects have been completed or carried out:

(1) the 2015 Science & Technology Project from the Ministry of Housing and Urban-Rural Development of China (2015-K1-042);
(2) the 2016 Dalian City Construction Science & Technology Project (201612);
(3) the National Natural Science Foundation of China (51278074);
(4) The Opening Project of State Key Laboratory of High Performance Ceramics and Superfine Microstructure (SKL201514SIC);
(5) Other projects from some relevant companies.

Awards and Honors:

2017 Project “Ambient pressure drying techniques and applications of mesoporous SiO_2 composite aerogels”, is awarded the Technical Innovation Third Prize of Liaoning Province;

2017 Paper “ Morphology and phase controlled synthesis of Cs_xWO_3 powders by solvothermal method and their optical properties”, is awarded the Academic Achievement Third Prize of Natural Science of Liaoning Province;

2017 Paper “Morphology and phase controlled synthesis of Cs_xWO_3 powders by solvothermal method and their optical properties”, is awarded the Excellent Academic Papers Third Prize of Natural Science of Dalian City;

2015 Paper “ Applications of surface modification in biomedical materials (in Chinese), was awarded the Excellent Paper by the Chinese Journal of Materials Research;

2015 Paper “Preparation and characterization of TiO_2 and Si-doped octacalcium phosphate composite coatings on zirconia ceramics (Y-TZP) for dental implant applications”, was awarded the Excellent Academic Papers of Natural Science of Dalian City;

2006 the Title of Outstanding Young Teachers of Liaoning High Education Institutes;

2004 the Thousand Talents Project Level Candidates of Liaoning Province.

Representative Publications:

1. Zhengjie Shan, **Jingxiao Liu*** et al. A new strengthening theory for improving the fracture strength of lithium disilicate glass-ceramics by introducing Rb or Cs ions. Journal of Non-Crystalline Solids, 2018, 481:479-485
2. Shuai Ean, **Jingxiao Liu*** et al. Greatly improved heat-shielding performance of K_xWO_3 by trace Pt doping for energy-saving window glass applications. Solar Energy Materials and Solar Cells, 2018, 174: 342-350
3. **Jingxiao Liu*** et al. Fabrication of $Cs_{0.32}WO_3/SiO_2$ aerogel multilayer composite coating for thermal insulation applications. Materials Letters, 2016, 181: 140-143.
4. Xia Huang, **Jing-Xiao Liu*** et al. Ambient pressure drying synthesis of $Cs_{0.33}WO_3/SiO_2$ composite aerogels for efficient removal of Rhodamine B from water. Materials and Design, 2016, 110: 624-632.
5. **Jingxiao Liu*** et al. Synthesis of mesoporous SiO_2 aerogel/W_xTiO_2 nanocomposites with high adsorptivity and photocatalytic activity. Advanced Powder Technology, 2016, 27: 1781-1789.
6. **Jing-Xiao Liu*** et al. Morphology and phase controlled synthesis of Cs_xWO_3 powders by solvothermal method and their optical properties. Powder Technology, 2015, 270:329-336.
7. **Jingxiao Liu*** et al. Synthesis and characterization of F-doped $Cs_{0.33}WO_{3-x}F_x$ particles with improved near infrared shielding ability. Journal of Solid State Chemistry, 2015, 221: 255-262.
8. **Jingxiao Liu*** et al. Dispersion of $Cs_{0.33}WO_3$ particles for preparing its coatings with higher near infrared shielding properties. Applied Surface Science, 2014, 309: 175-180 (SCI)
9. **Jing-xiao Liu*** et al. Synthesis of TiO_2-SiO_2 aerogel via ambient pressure drying: effects of sol pre-modification on the microstructure and pore characteristics. Journal of Sol-Gel Science and Technology, 2014, 69: 93-101. (SCI)
10. Lei Bao, **Jingxiao Liu*** et al. Preparation and characterization of TiO_2 and Si-doped octacalcium phosphate composite coatings on zirconia ceramics (Y-TZP) for dental implant applications. Applied Surface Science, 2014, 290: 48-52.

11. **Jingxiao Liu*** et al. Nanocrystalline Cs_xWO_3 particles: Effects of N_2 annealing on microstructure and near-infrared shielding characteristics. Materials Characterization, 2013, 84: 182-187.

12. **Jingxiao Liu*** et al. Solvothermal synthesis and characterization of tungsten oxides with controllable morphology and crystal phase. Journal of Alloys and Compounds, 2013, 84: 1482-1488

13. **Jingxiao Liu*** et al. Microstructure and electrical optical properties of cesium tungsten oxides synthesized by solvothermal reaction followed by ammonia annealing. Journal of Solid State Chemistry, 2010,183(10): 2456-2460

14. **Jingxiao Liu*** et al. Synthesis of chitosan-hydroxyapatite composites and its effect on properties of bioglass bone cement. Journal of Materials Science and Technology, 2009, 25(4): 1-5.

15. **Jingxiao Liu*** et al. Sol–gel deposited TiO_2 film on NiTi surgical alloy for biocompatibility improvement, Thin Solid Films, 2003, 429:225-230.