

Candidate application to the ISGS Board of Directors

Prof. / Dr. SHEN Jun

Age: 46

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CV with main research interests:

Prof. Dr. SHEN Jun, male, born in 1967, who is now the Director of Pohl Institute of Solid State Physics, Tongji University, Shanghai, China, and also the Director of Shanghai Key Laboratory of Special Artificial Microstructure Materials and Technology, Deputy Director of the council of the branch of sol-gel, Chinese academy of silicate.

The main research interests including preparation, investigation and application of sol-gel derived nano-structured porous solids and thin films, focusing on the properties of optic, thermal and electric of nano-structured materials such as aerogels.

More than 300 papers have been published in scientific journals. According to the database of EI (The Engineering Index) and SCI (Science Citation Index), Prof. SHEN ranked No.1 and No.4 respectively for the amount of published papers in the topic of aerogels.

Prof. SHEN is very active in the international activities of sol-gel, who has taken part in almost every international sol-gel conferences from 1999, and acted as the co-chairman of the 16th International Sol-Gel Conference.

Recently, Prof. SHEN devotes himself to the application of aerogels and aerogel composites in energy saving and environmental protection, such as super thermal insulations, solar cell technology, super capacitors, water and air purification, some of them are under industrialization.

5 recent publications

1) Xiaoguang Li, Jun Shen *, A facile two-step dipping process based on two silica systems for a superhydrophobic surface, **Chem. Commun.** (2011) 47: 10761-10763.

2) Xiaoguang Li, Mark Gross, Bob Oreb, Jun Shen*. Increased laser-damage resistance of sol-gel silica coating by structure modification. **J. Phys. Chem. C** (2012), 116: 18367-18371

3) Xiaodong Wang, Guangming Wu, Bin Zhou and Jun Shen*, Improvement on laser-induced damage threshold of sol-gel ZrO₂ coatings by crystal structure tuning, **Optics Express**, (2012), 20(22): 24482-24487

4) Dong Liu, Jun Shen*, et al, Preparation of activated carbon aerogels with hierarchically porous structures for electrical double layer capacitors, **Electrochimica Acta** (2013) 89: 571

5) Nianping. Liu, Jun Shen*, Dong Liu, Activated high specific surface area carbon aerogels for EDLCs, **Microporous and Mesoporous Materials** (2013) 167: 176.

6)

Statement of interest

To act as a bridge between sol-gel workers of different countries, and between academia and industry.