



Cai Chu-jiang, Ph. D. Associate Professor

School of Aeronautic Science and Engineering, Beihang University

Professional Experience

2009-present, Associate Professor, Beihang University

2008-2009, Lecturer, Beihang University

2006-2008, Post-doctor, Beihang University

Education

2001-2006, Ph.D., Beihang University

1997-2001, B.S., Beihang University

Research Interest

- 1 Preparation and application of the two-dimensional nanomaterial
- 2 Preparation of the micro/nano particles by air jet mill
- 3 Application of the micro/nano particles in fluid mechanics experiments

Selected Publication

- [1] **Cai Chujiang**, Liang Shuaishuai, Shen Zhigang etc. The study and preparation of petroleum coke oil slurry for diesel engine [J]. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 2014, 36(22): 2458-2463.
- [2] **Cai Chujiang**, Liang Shuaishuai, Shen Zhigang etc. AFM study of the vinyl triethoxysilane (A-151) film prepared by spraying deposition and dipping deposition [J]. *Journal of Adhesion Science and Technology*, 2013, 27(21): 2315-2325.

- [3] **Cai Chujiang**, Wu Yun, Shen Zhigang etc. The integration of carborundum powder comminution and surface modification in an air jet mill [J]. Minerals Engineering, 2012, 26(1): 1-4.
- [4] Wu Yun, **Cai Chujiang**, Shen Zhigang etc. Surface Topography of Vinyltriethoxysilane Films Deposited on the Silicon Dioxide Substrate (0001) Investigated by Atomic Force Microscopy[J]. Advanced Materials Research, 2012, 418: 513-522.
- [5] **Cai Chujiang**, Li Jinzhi, Shen Zhigan, Ma Shulin and Xing Yushan. Synthesis of hydrophobic corn starch with high flowability by surface modification [J]. Starch - Stärke, 2009, 61(6): 344-351.
- [6] **Cai Chujiang**, Shen Zhigang, Zhen Yanhong, et al. A novel technology for powder dispersion and surface modification [J]. Journal of Materials Science, 2007, 42(11): 3745-3753
- [7] **Cai Chujiang**, Shen Zhigang, Ma Shulin, et al. Growth behavior and surface topography of different silane coupling agents adsorbed on the silicon dioxide substrate (0001) for vapor phase deposition [J]. Journal of Materials Science, 2007, 42(15): 6108-6116
- [8] **Cai Chujiang**, Yu Xiaozheng, Shen Zhigang¹ and Xing Yushan, A comparison of two methods for metallizing the fly-ash cenosphere particles: electroless plating and magnetron sputtering[J]. Journal of Physics D: Applied physics, 2007, 40(19): 6026-6033
- [9] **Cai Chujiang**, Shen Zhigang, Xing Yushan, et al. Surface topography and character of γ -Aminopropyltriethoxysilane and Dodecyltrimethoxysilane films adsorbed on the silicon dioxide substrate via vapor phase deposition [J]. Journal of Physics D: Applied physics, 2006,39(22): 4829-4837
- [10] **Cai Chujiang**, Shen Zhigang, Wang Mingzhu, et al. Surface metallization of cenospheres and precipitators by electroless plating [J]. China Particuology, 2003,1(4): 156~161

Email: chujiang2008@gmail.com, ccj@buaa.edu.cn