

Linan An, Ph.D.

Department of Materials Science and Engineering
Advanced Materials Processing and Analysis Center
University of Central Florida, Orlando, FL 32816
Phone: 407-823-1009; E-mail: lan@mail.ucf.edu

EDUCATION

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|---------|----------------------------------------------------------------|------|
| • Ph.D. | Materials Science and Engineering, Lehigh University, USA | 1996 |
| • MS | Materials Science and Engineering, Tsinghua University, China | 1991 |
| • BS | Chemistry and Chemical Engineering, Tsinghua University, China | 1986 |

APPOINTMENTS

- 2012-present: Professor
Department of Materials Science and Engineering
University of Central Florida, Orlando, FL
- 2007-2012: Associate Professor
Department of Mechanical, Materials and Aerospace Engineering
University of Central Florida, Orlando, FL
- 2001-2007: Assistant Professor
Department of Mechanical, Materials and Aerospace Engineering
University of Central Florida, Orlando, FL
- 1998-2000: Director for Research
Sporian Microsystem, Inc., Boulder, CO
- 1996-2000: Research Associate
Department of Mechanical Engineering
University of Colorado at Boulder, Boulder, CO
- 1996-1996: Postdoctoral Research Associate
Department of Materials Science and Engineering
Cornell University, Ithaca, NY

MAJOR HONORS & AWARDS

- DRPA (Dean's Research Professorship Award), College of Engineering, UCF, 2013.
- Research Incentive Award, UCF, 2012.
- Wang Kuan-Cheng Foundation Award, Wang Kuan-Cheng Foundation, Hong Kong, 2009.
- Research Incentive Award, UCF, 2007.

RESEARCH INTERESTS/AREAS

- Harsh environmental sensors
- Polymer-derived ceramics
- Nanostructured materials and nanocomposites
- Mechanical, electronic, dielectric and optical behavior of advanced materials

SELECTED PUBLICATIONS

- *Journal papers:*

(Total >120; citation: > 2700; *h*-index: 30)

1. C. Wang, S. Li and **L. An**. Hierarchically porous Co₃O₄ hollow spheres with tunable pore structure and enhanced catalytic activity. **Chemical Communications**, 49(67), 7427-7429 (2013).
2. Y. Li, Y. Yu, H. San, Y. Wang and **L. An**. Wireless passive polymer-derived SiCN ceramic sensor with integrated resonator/antenna. **Applied Physics Letters**, 103, 163505 (2013).
3. Y. Chen, F. Yang and **L. An**. On electric conductivity of polymer-derived amorphous silicon carbonitride. **Applied Physics Letters**, 102, 231902 (2013).
4. Y. Yu, X. Yang, C. Xu, J. Fang and **L. An**. Ultralow-temperature synthesis of nanostructured SiC using self-assembled polymer micelle precursor. **Journal of Materials Chemistry**, 21, 17619-17622 (2011).
5. Y. Chen, C. Li, Y. Wang, Q. Zhang, C. Xu, B. Wei and **L. An**. Self-assembled C/SiCN nanocomposites: high-performance anode materials for Li-ion batteries. **Journal of Materials Chemistry**, 21, 18186-18190 (2011).
6. Y. Zhao, K. Tamhane, X. Zhang, **L. An** and J. Fang. Heterogeneous elasticity of self-assembled lipid tubules. **ACS Nano**, 2, 1466-1472 (2008).
7. Y. Zhao, **L. An** and J. Fang. Buckling of self-assembled lipid tubules and helical ribbons in shrinking liquid droplets. **Nano Letters**, 7(5), 1360-1363, (2007).
8. S. Xu, Y. Fan, J. Luo, L. Zhang, W. Wang, B. Yao and **L. An**. Phonon characteristics and photoluminescence of bamboo structured silicon-doped boron nitride nanotubes. **Applied Physics Letters**, 90[1], 013115 (2007).
9. L. Zhang, W. Yang, H. Jin, Z. Zheng, Z. Xie, H. Miao and **L. An**. Ultraviolet photoluminescence from 3C-SiC nanorods. **Applied Physics Letters**, 89[14], 143101 (2006).
10. S. Liu, L. Zhang, Y. Fan, J. Luo, P. Zhang and **L. An**. Ultraviolet irradiation-induced photoluminescence degradation in γ -alumina nanoparticles. **Applied Physics Letters**, 89[5], 051911 (2006).
11. L. Zhang, H. Jin, W. Yang, Z. Xie, H. Miao and **L. An**. Optical properties of single-crystalline α -Si₃N₄ nanobelts. **Applied Physics Letters**, 86, 061908 (2005).
12. **L. An**, W. Xu, S. Rajagopalan, C. Wang, H. Wang, J. Kapat, L. Chow, Y. Fan, L. Zhang, D. Jiang, B. Guo, J. Liang and R. Vaidyanathan. Carbon nanotube reinforced polymer-derived ceramic composites. **Advanced Materials**, 16[22], 2036-2040 (2004).

- *Patents:*

1. J. Kapat, **L. An** and S. Bharani. “Ultra-high temperature micro-electro-mechanical-systems (MEMS)-based sensors” U.S. patent, 7,338,202 (2008).
2. W. Fei, A. Hill and **L. An**. “A method to make bulk ceramics and structures from polymeric ceramic precursors” U.S. patent, 8,119,057 (2012).
3. X. Gong and **L. An**, “Ceramic sensors for wireless high-temperature sensing” U.S. patent, 8,558,705 (2013).