## Dr. Liang Li

Assistant Professor of Instruction

Ingram School of Engineering, Texas State University

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### EDUCATION

**Doctor of Engineering**, Materials Chemistry and Physics — Jul. 2008
**Graduate University of Chinese Academy of Sciences**, Shanghai, China

DISSERTATION: Synthesis and sustained drug-release property of nanostructured calcium-based inorganic biodegradable materials

**Bachelor of Engineering**, Material Science and Engineering — Jun. 2003
**Zhejiang University**, Hangzhou, China

THESIS: Photovoltaic efficiency improvement of TiO2/FeS2 complex film solar cell

### EXPERIENCE

**Texas State University**
in Ingram School of Engineering — San Marcos, TX, USA

Jan. 2019 – Aug. 2020
Jan. 2021 – present

Courses Taught:

- Introduction to Data Analysis
- Engineering Statistics
- Engineering Economic Analysis
- Statistical Design of Experiment
- Advanced Statistical Design of Experiment

Service:

- ISoE Rising Doctoral Institute Program Development (Fall 2024 – Now)
- Bobcat Day (Fall 2024 – Now)
- ISoE Award Nomination Committee (Fall 2024 – Now)
- Summer Transportation Camp (2024, 2026)
- ABET Assessment Data Collection (Fall 2022, Fall 2025)
- ISoE IT Oversight Committee (Fall 2024, Spring 2025)
- SWE 2024 Career Fair
- Education Abroad 2025 Engineering Summer Hub Program Promotion and Student Recruitment
- Course information update in Course Inventory Management (CIM) System (Fall 2024)
- National Summer Transportation Institute 2023
- National Summer Transportation Institute 2022 Program Promotion and Student Recruitment
- Technical advisor in Senior Design Project (Spring 2022, Fall 2022)

Award:

- Teaching Award of Honor (Spring 2020)

**Semiconductor Manufacturing International Corporation (SMIC)**
in Technology R&D / Advanced Module — Shanghai, China

**Senior Engineer** — Jul. 2010 – Oct. 2010

- Assessed equipment performance for new technology node product development
- Developed advanced processes (SiGe, USJ, High-k gate, etc.)
- Gave lectures on new technology introduction in engineer development training
- Designed and developed training materials for engineer and operator development program

**Engineer** — Jul. 2008 – Jun. 2010

- Developed and continuously improved new product process flows
- Transferred frozen process flows to engineering department and manufacturing department
- Optimized critical processes and did in-depth researches on various projects
- Gave lectures on fundamental of process and equipment in engineer development training

**Shanghai Institute of Ceramics, Chinese Academy of Sciences (SICCAS)**
in State Key Laboratory — Shanghai, China

**Research Assistant** — Jul. 2004 – Jun. 2008

- Designed and set up feasible experimental system, and executed experimental projects
- Maintained and fixed laboratory equipment
- Mentored new members of laboratory
- Assisted managing laboratory and handled general laboratory affairs

**Zhejiang University**
in Institute of Metallic Materials — Hangzhou, China

**Research Assistant** — Feb. 2003 – Jun. 2003

- Prepared specimens, maintained experimental equipment, managed experimental reagents, and organized laboratory
- Communicated with purchasing, testing departments and other collaborative labs

## GRANTS, PATENTS AND PUBLICATIONS

1. Luo, Xiaohua (Principal), Wang, Feng (Co-Principal), Yuan, Yihong (Co-Principal), Li, Liang. Summer Transportation Camp (formerly National Summer Transportation Institute), Federal Highway Administration, Federal, $65000. (Submitted: September 2025, Funded: **October 2025 - September 2026**). Grant.
2. Luo, Xiaohua (Principal), Wang, Feng (Co-Principal), Li, Liang (Co-Principal). Summer Transportation Camp (formerly National Summer Transportation Institute), Texas Department of Transportation, State, $58000. (Submitted: December 2023, Funded: **February 2024 - October 2024**). Grant.
3. Luo, Xiaohua (Principal), Wang, Feng (Co-Principal), Yuan, Yihong (Co-Principal), Li, Liang (Co-Principal). National Summer Transportation Institute, Federal Highway Administration, Federal, $64000. (Submitted: September 2022, Funded: **June 2023 - October 2023**). Grant.

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1. L. Li, Y.H. Shen, H.J. Tu, H.L. Song, Y.Z Shi, Application of ion implantation (IMP) to line edge roughness (LER) improvement, CN201010102431.0, **2010**
2. H.J. Tu, Y.J. Shen, H.L. Song, L. Li, A manufactured method of 65 flash memory product common source area thickness reduction, CN200910196205.0, **2009**

3. Y.H. Shen, H. Zhu, H.J. Tu, L. Li, S.F. Zhang, A method of manufacturing solar cells with pre-rugged poly texture, CN200910195637.X, **2009**
4. H.L. Song, Y.Z. Shi, L. Li, Y.J. Shen, A method to improve quality of high temperature oxide (HTO) film as tunnel oxide in FLASH memory manufacturing, CN200910052537.1, **2009**

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1. L. Li, Y.J. Zhu*, S.W. Cao and M.Y. Ma, Preparation and Drug Release Properties of Nanostructured CaCO3 Porous Hollow Microspheres, Journal of Inorganic Materials 24 (**2009**) 166.
2. L. Li, Y.J. Zhu* and M.Y. Ma, Microwave-assisted preparation of calcium sulfate nanowires, Materials Letters 62 (**2008**) 4552.
3. M.Y. Ma, Y.J. Zhu*, L. Li and S.W. Cao, Nanostructured porous hollow ellipsoidal capsules of hydroxyapatite and calcium silicate: preparation and application in drug delivery, Journal of Materials Chemistry 18 (**2008**) 2722.
4. S.W. Cao, Y.J. Zhu*, M.Y Ma, L. Li and L. Zhang, Hierarchically Nanostructured Magnetic Hollow Spheres of Fe3O4 and γ-Fe2O3: Preparation and Potential Application in Drug Delivery, Journal Physical Chemistry C 112 (**2008**) 1851
5. L.X. Yang, Y.J. Zhu*, H. Tong, L. Li and L. Zhang, Multistep synthesis of CuO nanorod bundles and interconnected nanosheets using $Cu_2(OH)_3Cl$ plates as precursor, Materials Chemistry and Physics 2 (**2008**) 442
6. L.X. Yang, Y.J. Zhu*, H. Tong, Z.H. Liang, L. Li and L. Zhang, Hydrothermal synthesis of nickel hydroxide nanostructures in mixed solvents of water and alcohol, Journal of Solid State Chemistry 7 (**2007**) 2095
7. H. Tong, Y.J. Zhu*, L.X. Yang, L. Li, L. Zhang, J. Chang, L.Q. An, and S.W. Wang, Self-assembled ZnS nanostructured spheres: controllable crystal phase and morphology, Journal of Physical Chemistry C 111 (**2007**) 3893
8. L. Li and Y.J. Zhu*, High chemical reactivity of silver nanoparticles toward hydrochloric acid, Journal of Colloid and Interface Science 303 (**2006**) 415.
9. H. Tong, Y.J. Zhu*, L.X. Yang, L. Li and L. Zhang, Lead chalcogenide nanotubes synthesized by biomolecule-assisted self-assembly of nanocrystals at room temperature, Angewandte Chemie-International Edition 45 (**2006**) 7739.
10. L.X. Yang, Y.J. Zhu*, L. Li, L. Zhang, H. Tong, W.W. Wang, G.F. Cheng and J.F. Zhu, A facile hydrothermal route to flower-like cobalt hydroxide and oxide, European Journal of Inorganic Chemistry 23 (**2006**) 4787.