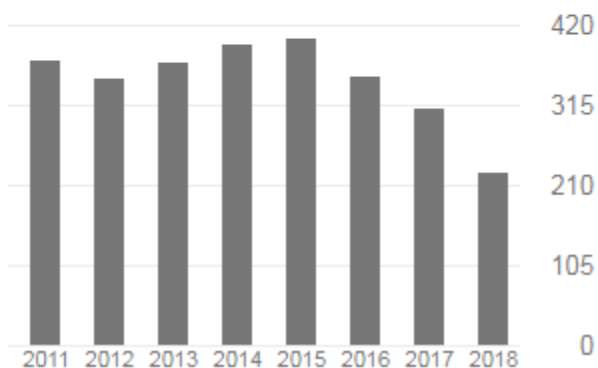


**Dr. Cuikun Lin**  
 Senior Scientist  
 Physics Department, Texas Tech University  
 Telephone: (806)834-8276, E-mail: cuikun.lin@ttu.edu

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**WORK EXPERIENCE**

❖ **Senior Scientist** Mar. 2016 – Present  
 Center for Emerging Energy Sciences, Physics  
 Department, Texas Tech University

❖ **Senior Research Associate** Mar. 2015 – Mar 2016  
 Center for Emerging Energy Sciences, Physics  
 Department, Texas Tech University

❖ **Visiting Scholar** Jul. 2014 – Mar 2015  
 Imaging Center, Texas Tech University

*Responsibility & Achievements:* Leading in training of electron/optical/confocal Raman microscope instruments. Specific job duties: Troubleshoot and problem solve in areas of expertise; Perform investigation on any out-of-specification or otherwise unexpected results; Manage Lab Instruments, responsible for the maintenance and training of electron/optical/confocal Raman microscope instruments; computer trouble shooting and data recovery;

❖ **Research professor** Jul. 2010 – June 2014  
 Department of Chemistry, University of South Dakota Supervisor: P. Stanley May  
Mary T. Berry

*Responsibility & Achievements:* As a research scientist in PANS group (Photo active nanoscale

system), my responsibility includes: Collect preliminary data for establishing and implementing new research directions; Supervise undergraduates and graduates and cooperate with scientists to complete complex projects; Troubleshoot and problem solve in areas of expertise; Perform investigation on any out-of-specification or otherwise unexpected results; Manage Lab Instruments, responsible for the maintenance and training of TEM, lasers and spectroscopy instruments; computer trouble shooting and data recovery; Write scientific papers and proposals.

Achievements: 9 papers were published, and 1 proposal was submitted.

❖ **TEM manager**

Department of Chemistry, University of South  
Dakota

Jul. 2010 – June 2014

Supervisor: P. Stanley May  
Mary T. Berry

*Responsibility & Achievements:* responsible for the maintenance and training of TEM, supervise TEM operation. TEM characterization for research groups in the chemistry department and exterior collaborators to support their researches.

❖ **Postdoctoral researcher**

AMRI, University of New Orleans

Jul. 2009 - Jun. 2010

Supervisor: Gabriel Caruntu

*Responsibility & Achievements:* Synthesis and characterization of multiferrous magnetic nanomaterials. *AFM/MFM/PFM microscope setup, adjustment and maintenance. 3 ACS papers were published.*

❖ **Postdoctoral researcher**

Department of Chemistry, University of South  
Dakota

Aug. 2007 - Jun. 2009

Supervisor: P. Stanley May  
Mary T. Berry

*Responsibility & Achievements:* Synthesis and characterization of luminescence nanomaterials. Supervise students' research. Order Lab supply and maintenance the lab. Support and maintain lab/field equipment as necessary. 3 papers published.

❖ **Research Assistant**

Chinese Academy of Science, Changchun Institute  
of Applied Chemistry

Aug. 2002 - Jun. 2007

Supervisor: Jun Lin

*Responsibility & Achievements:* Synthesis and characterization of luminescence nanomaterials and core-shell structured materials using Ems and laser spectroscopy as major characterization instruments.

**Instrumental Expertise and Computer Simulation Techniques**

- Material microstructure and composition analysis (SEM, TEM, EDS, AFM, XPS, XRD, DSC, TG-DTA, FTIR)
- Spectroscopic characterizations: YAG laser, Dye laser, N<sub>2</sub> laser, OPO laser, CW laser, Ar ion laser, UV-Vis spectrometer, diffuse reflectance spectrometer, Fluoromax spectrometer, home-built monochromator controlled by self-programed labview.
- Ferroelectric measurements (ferroelectric tester (Radiant technology), PFM (Asylum))
- Surface Characterization (SEM&TEM/EDS, XPS, FTIR)
- Laser Induced Fluorescence Spectroscopy including time-resolved UV-Vis and NIR emission.
- FDTD simulation (FDTD solutions) and Electronic structure simulation (DFT, Material studio)
- Image processing and labview programmer, Measurement & Control System Engineering

## Publications

### 2017

59. High-Indexed Pt<sub>3</sub>Ni Alloy Tetrahedral Nanoframes Evolved through Preferential CO Etching, Chenyu Wang, Lihua Zhang, Hongzhou Yang, Jinfong Pan, Jingyue Liu, Charles Dotse, Yiliang Luan, Rui Gao, **Cuikun Lin**, Jun Zhang, James P Kilcrease, Xiaodong Wen, Shouzhong Zou, Jiye Fang, Nano letters 17 (4), 2204-2210.

### 2015

58. Calculation of Judd-Ofelt parameters for Er<sup>3+</sup> in  $\beta$ -NaYF<sub>4</sub>: Yb<sup>3+</sup>, Er<sup>3+</sup> from emission intensity ratios and diffuse reflectance spectra, G Yao, **C Lin**, Q Meng, PS May, MT Berry, Journal of Luminescence 160, 276-281

57. Spectroscopic Imaging and Power Dependence of Near-Infrared to Visible Upconversion Luminescence from NaYF<sub>4</sub>:Yb<sup>3+</sup>,Er<sup>3+</sup> Nanoparticles on Nanocavity Arrays, J Fisher, B Zhao, **C Lin**, M Berry, PS May, S Smith, The Journal of Physical Chemistry C 119 (44), 24976-24982

56. Spectroscopic Imaging of NIR to Visible Upconversion from NaYF<sub>4</sub>:Yb, Er Nanoparticles on Au Nano-cavity Arrays, J Fisher, B Zhao, **C Lin**, M Berry, PS May, S Smith - Bulletin of the American Physical Society, 2015

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### 2014

54. Wang, C.; **Lin, C.**; Zhang, L.; Quan, Z.; Sun, K.; Zhao, B.; Wang, F.; Porter, N.; Wang, Y.; Fang, J. Pt<sub>3</sub>Co Concave Nanocubes: Synthesis, Formation Understanding and Enhanced Catalytic Activity toward Hydrogenation of Styrene, *Chemistry-A European Journal*, 2014, Chemistry–A European Journal 20 (6), 1753-1759.

53. Peng, R; **Lin, C.**; Baltrusaitis J.; Wu, C.; Dimitrijevic. N.; Rajh T.; May. PS, and Koodali. R. Insight into Band Positions and Inter-particle Electron Transfer Dynamics between CdS Nanoclusters and Spatially Isolated TiO<sub>2</sub> Dispersed in Cubic MCM-48 Mesoporous Materials: A Highly Efficient System for Photocatalytic Hydrogen Evolution under Visible Light Illumination, *Physical Chemistry Chemical Physics*, 2014, Physical Chemistry Chemical Physics 16 (5), 2048-2061.

## 2013

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51. Chen, J., Meng, Q., May, S., Berry, M., **Lin, C.\***, (2013), Sensitization of Eu<sup>3+</sup> Luminescence in Eu:YPO<sub>4</sub> Nanocrystals, *The Journal of Physical Chemistry C*, vol. 117, iss. 11, pp. 5953-5962.
50. Wu, H., Wang, Y., Porter, N., **Lin, C.**, Fang, J., (2013), Electrocatalytic Evaluation of Shape-Dependent Platinum Nanocatalysts towards Methanol Oxidation Reaction, *Mater. Res. Soc. Symp. Proc.*, vol. 2, p. 1491.

## 2012

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## 2011

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43. Paudel, H. P.; Zhong, L. L.; Bayat, K.; Baroughi, M. F.; Smith, S.; **Lin, C. K.**; Jiang, C. Y.; Berry, M. T.; May, P. S., Enhancement of Near-Infrared-to-Visible Upconversion Luminescence Using Engineered Plasmonic Gold Surfaces. *J Phys Chem C* **2011**, 115 (39), 19028-19036.

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## **2007**

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## **2004-2005**

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5. Luo, Y.; Lin, J.; Duan, H. X.; Zhang, J.; **Lin, C. K.**, Self-directed assembly of photoactive perylene-diimide-bridged silsesquioxane into a superlong tubular structure. *Chemistry of Materials* **2005**, 17, (9), 2234-+.
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#### **Patents (in China)**

- Lin Jun, **Lin Cuikun**, Yu Min, Wang Huan: Method for preparing oxide core shell structured spherical luminescent material. Changchun Institute Of Applied Chemistry July 2006: CN 200610016561
- Lin Jun, **Lin Cuikun**: Blue/white luminous materials and prepn. thereof. Changchun Inst Of Applied Chemistry September 2006: CN 200610016562

#### **Education**

<b>Year</b>	<b>Institute</b>	<b>Degree/position</b>
09/2002~07/2007	State Key Laboratory of Rare Earth Resource Utilization, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences (CIAC, CAS)	Ph. D. Inorganic Chemistry
09/1998~07/2002	Department of Chemistry, Shandong Normal University	Bachelor of Science

#### **Presentations**

- 2012 MRS spring meeting, San Francisco, CA, April 8<sup>th</sup>, 2012, Oral Presentation.
- 26th Rare Earth Research Conference, Santa Fe, NW, June 19<sup>th</sup>, 2011, Poster
- Annual AMRI Mardi Gras Review and Symposium, New Orleans, LA, February 11<sup>th</sup>, 2010, poster,
- 2008 South Dakota EPSCoR State Conference, Sioux Falls, SD, September 9<sup>th</sup>, 2008, poster
- Nanoscience for Energy Research and Development Symposium, Rapid City, SD, April 4<sup>th</sup>, 2008
- 2008 Meeting of PANS (Photo Active Nanoscale Systems), Mitchell, SD, March 11<sup>th</sup>, 2008, poster



- 3rd Annual Minnesota Technology Conference, University of Minnesota, Minneapolis , November 13<sup>th</sup>, 2007, poster
- 1<sup>st</sup> Sino-Japan Joint Symposium on New Rare Earth Materials, Changchun, China, September 26<sup>th</sup>, 2006.