

**Name: Ling-Ling Hsieh**

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**Education :**

PHD, Biomedical Engineering and Environmental Science, National Tsing Hua University, Taiwan

**Career Experience :**

1. Chairman, Graduate Institute of Biotechnology and Biomedical Engineering, Central Taiwan University of Science and Technology.
2. Professor, Department of Radiological Technology, Central Taiwan University of Science and Technology.

**Courses Taught :**

Radiochemistry  
Chemistry  
Scientific Paper Writing

**Professional Fields :**

Radiochemistry  
Application of Radiation  
Environmental Analysis

**Research Interests :**

Application of Radiation

**Representative Publication in 5 Years :**

**2016**

1. Kai-Yuan Chen , **Ling-Ling Hsieh\***, Cheng-Ting Shih (2016, May). A Comprehensive Evaluation of NIPAM Polymer Gel Dosimeters on Three Orthogonal Planes and Temporal Stability Analysis. PLOS ONE, 11(5):e0155797. (Co-first author)
2. Kai-Yuan Cheng, Sih-Ying Chen, Jiunn-I Shieh, Yi-Ying Wu , **Ling-Ling Hsieh\*** (2016, Jan). A novel polymer gel-loading phantom for magnetic resonance imaging. Arabian Journal for Science and Engineering, 41, 163–167.

**2015**

3. Yen-Li Chen, Bor-Tsung Hsieh, Huey-Lih Shyu, **Ling-Ling Hsieh\*** (2015, Mar). Evaluation of Radiation-sensitive Composite Gels in Clinical Dose Verification . C J Radiologic Tech, 39(1), 46-51.

**2014**

4. Jiunn-I Shieh, Kai-Yuan Cheng , Huey-Lih Shyu, Yi-Chen Yu , **Ling-Ling Hsieh\*** (2014, Nov). Effects of composition interactions on the response of a turnbull blue radiochromic gel dosimeter. Radiation

Physics and Chemistry, 104,40-44.

5. Y.R.Huang, Y.J.Chang, **L.L.Hsieh**, M.H.Liu, J.S.Liu, C.H.Chu, B.T.Hsieh (2014, Nov). Dosimetry study of diagnostic X-ray using doped iodide normoxic polymer gels. Radiation Physics and Chemistry, 104,414-419.
6. Yen-Li Chen, Bor-Tsung Hsieh, Chih-Ming Chiang, Cheng-Ting Shih, Kai-Yuan Cheng, **Ling-Ling Hsieh\*** (2014, Nov). Dose Verification of a Clinical Intensity-Modulated Radiation Therapy Eye Case by the Magnetic Resonance Imaging of N-Isopropylacrylamide Gel Dosimeters . Radiation Physics and Chemistry, 104,188-191.

### **2013**

7. Chih-Ming Chiang, Bor-Tsung Hsieh, Jiunn-I Shieh, Kai-Yuan Cheng, **Ling-Ling Hsieh\*** (2013, Nov). An approach in exploring the fundamental dosimetric characteristics for a long shelf life irradiated acrylamide-based gel. Journal of Radioanalytical and Nuclear Chemistry, 298(2),1435-1445.
8. Y.R.Huang\*, **L.L.Hsieh\***, Y.J.Chang, T.H.Wang, and B.T. Hsieh (2013, Aug). Characterization of the Chemical Stability of Irradiated N-isopropylacrylamide gel Dosimeter. Radiation Physics and Chemistry, 89,76-82.
9. YJ Chang,**LL Hsieh**, MH Liu, JS Liu and BT Hsieh (2013, Jun). The study of N-isopropylacrylamidegel dosimeter doped iodinated contrast agents. Journal of Physics:Conference Series, 444,012109.
10. YR Huang,**LL Hsieh**, YJ Chang,BT Hsieh (2013, Jun). The effect of chemical stability on the NIPAM gel dosimeter using 1H-NMR. Journal of Physics: Conference Series, 444,012095.
11. YR Huang,YJ Chang,**LL Hsieh**,BW Yu,CH Chu,BT Hsieh (2013, Jun). Preliminary dosimetry investigation of Tc-99m diagnostic radionuclide by NIPAM gel dosimeter. Journal of ysics:Conference Series, 444,012106.

### **2012**

12. Po-Yuan Lee,Bor-Tsung Hsieh,Tain Lee,Shih Chung Yang,Tzu-Yung Chen,**Ling-Ling Hsieh\*** (2012, Sep). Analysis of the Domestic Characteristics of Normoxic NIPAM Gel by Magnetic Resonance Images. Chinese Journal of Radiologic Technology, 26,P.157-P.164.
13. **Ling-Ling Hsieh\***,Kai-Yuan Cheng,Bor-Tsung Hsieh (2012, Mar). A novel thin NIPAM gel cassette dosimeter for photon-beam radiotherapy. PLoS ONE, 7(3),e31836.

### **2011**

14. B.T.Hsieh, Y.J.Chang, R.P.Han, J.Wu, **L.L.Hsieh**, C.J.Chang (2011, Sep). A study on dose response of NIPAM-based dosimeter used in radiotherapy. Journal of Radioanalytical and Nuclear Chemistry, 290,P.141-P.148.