

Son D N Luu, PhD

Center for Innovative Materials and Architectures (INOMAR),
Vietnam National University, Ho Chi Minh City (VNUHCM)

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Education

Ph.D, Solid State Chemistry

Heriot-Watt University, Edinburgh, Scotland, UK.

MSc, Intelligent Microsystem

Konkuk University, Seoul, South of Korea.

BSc, Materials Science

University of Science, Ho Chi Minh City, VietNam.

Experience

MSc student

2007 - 2010

Department of Advanced Technology Fusion, Konkuk University, Seoul, South of Korea

PhD student

2011 - 2015

Institute of Chemical Sciences, Heriot-Watt University, Edinburgh, Scotland, UK.

Remote Chemistry Researcher/ Consultant

Kymira Ltd, Reading, England, UK.

2016 - present

Researcher

2017 - present

Center for Innovative Materials and Architectures, Vietnam National University, Ho Chi Minh City

Teaching Assistant

Chemistry demonstrator for 2nd and 3rd year undergraduate students

Institute Chemical Sciences, Heirot-Watt University, Edinburgh, Scotland, UK.

Current Research

1. Thermoelectric materials.
2. Oxide materials for energy storages and catalytic applications.
3. Nano materials and applications.

Curriculum Vitae

International Publications (SCI)

1. Man-Jong Lee, Hae-Won Cheong, **Son D. N. Luu**, and Young-Soo Yoon, "Surface Reaction Mechanism of Acetonitrile on Doped SnO₂ Sensor Element and Its Response Behavior", Japanese Journal of Applied Physics, 47 (2008), pp. 2119-2121.
2. Tran Le, Tuan Tran, Huu Chi Nguyen, **Son D. N. Luu**, Minh Nam Hoang, Dinh Quan Nguyen "Fabrication and Characterization of Multi-layer Heat Mirror with Photocatalytic Properties", Chinese Physics Letters, Vol.26, No.11 (2009), 116801.
3. **Son D. N. Luu** and Paz Vaqueiro, "Synthesis, structural characterisation and thermoelectric properties of Bi_{1-x}Pb_xOCuSe", Journal of Materials Chemistry A (2013) 1, 12270-12275.
4. **Son D. N. Luu** and Paz Vaqueiro, "Thermoelectric properties of BiOCu_{1-x}M_xSe (M = Cd and Zn)", Semiconductor Science and Technology (2014) 29 064002.
5. **Son D. N. Luu** and Paz Vaqueiro, "Synthesis, characterisation and thermoelectric properties of the oxytelluride Bi₂O₂Te", Journal of Solid State Chemistry, Vol.226, (2015), pp 219-223 (selected in ChemInform 07/2015, 46 (27)).
6. Paz Vaqueiro, Rabih Al Rahal Al Orabi, **Son D. N. Luu**, Gabin Guélou, Anthony V. Powell, Ron I. Smith, Jeong-Pil Song, Daehyun Wee, and Marco Fornari, "The Role of Copper rattling in thermoelectric oxychalcogenides, Do Lone Pairs Matter?", Physical Chemistry Chemical Physics, 2015, 17, 31735 – 31740.
7. **Son D. N. Luu** and Paz Vaqueiro, "Layered oxychalcogenides: Structural chemistry and thermoelectric properties", Journal of Materiomics 2, 2016, 131-140.
8. Thi Ngoc Tu Le, **D. N. Son Luu**, Quang Minh Ngo, Thi Hanh Thu Vu, "Enhanced photocatalytic activity of TiO₂ Nanotubes with Acid Treatments", Journal of Nanoscience and Nanotechnology, Accepted (2017).

AWARDS

2012

The Best Research Student Award

Heriot-Watt University, Edinburgh, Scotland, UK.

ACADEMIC ACTIVITIES

Member

2015 – present

Royal Society of Chemistry (RSC)