

CURRICULUM VITAE

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PHAN VAN CUONG

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Gender: Male

Phan Van Cuong holds a PhD in Physics from the renowned Bergen University in Norway. His research focuses on material sciences, including nanotechnology, in the electronics field, and is closely linked with the leading electronics networks in Vietnam.

EDUCATION

2009-2012: Bergen University, Norway

Ph.D. in Physics

2006-2008: Kyungpook National University, South Korea

Master of Science in Physics

1999-2003: Hanoi University of Science and Technology, Vietnam

Bachelor in Information Technology

1993-1997: University of Pedagogics, Vietnam

Bachelor of Science in Physics

RESEARCH EXPERIENCE and PROJECTS

- **SSC – Ramore project** (Molecular dynamics simulations to study the interactions between atom or molecule and surface), at the Department of Physics and Technology, University of Bergen, Norway, 2009-2012
- **Brain Korea 21 (BK21)** (Synthesis, characterization, and application of nanomaterials) at the Nano Applied Physics Laboratory, Kyungpook National University, South Korea, 2006-2008
- **TR2004-33-06** (Designing, manufacturing data reception, storage and processing equipment, and displaying the experiment outcome by Laser diffraction, at the Department of Physics, Nha Trang University, Vietnam, 2004-2005)

SELECTED PUBLICATIONS

Jinsik Ju, Hayeon Won, JinJoo Jung, Junyeob Yeo, **Phan Van Cuong***, and Do-Hyung Kim* (*Corresponding author), Enhanced X-ray excited luminescence of LaF₃:Ce/CdSeS nanocomposites by resonance energy transfer for radiation detection, **Journal of ELECTRONIC MATERIALS**, Vol. 46, No. 8 (2017), pp. 5319-5323. (SCI, ISSN: 0361-5235 (Print) 1543-186X (Online))

Phan Van Cuong, Bjørn Kvamme, Tatiana Kuznetsova, and Bjørnar Jensen, Molecular dynamics study of calcite, hydrate and temperature effect on CO₂ transport and

- adsorption stability in geological formations, **Molecular Physics**, Vol. 110 (2012), pp.1097-1106. (SCI, ISSN 0026-8976 (print) 1362-3028 (web))
- Phan Van Cuong**, Tatiana Kuznetsova, Bjørn Kvamme, and Bjørnar Jensen, Adsorption energy and stability of H₂O and CO₂ on calcite effect by short-range force field parameters and temperature, **Recent Researches in Applied Mathematics and Economics**, (2012), pp.66-72. (ISBN 978-1-61804-076-3)
- Phan Van Cuong**, Bjørn Kvamme, Tatiana Kuznetsova, Adsorption of water and CO₂ on calcite and clathrate hydrate: the effect of short-range forces and temperature, **INTERNATIONAL JOURNAL of ENERGY and ENVIRONMENT**, Vol. 6, Issue.3(2012), pp. 301-309. (ISSN 2076-2895 (Print). ISSN 2076-2909 (Online))
- Phan Van Cuong**, Joonghoe Dho, Hyo Yeol Park, and Do-Hyung Kim, A sonochemical assisted synthesis and annealing temperature effect of La_{0.7}Sr_{0.3}MnO₃ nanoparticles, **Applied Physics A-Materials Science & Processing**, Vol. 95 (2009), pp.567-571. (SCI, ISSN: 0947-8396 (Print) 1432-0630 (Online))
- Phan Van Cuong** and Do-Hyung Kim, Effect of strontium doping level on electrical transport and magnetic properties of La_{1-x}Sr_xMnO₃ perovskite nanoparticles, **Journal of Physics: Conference Series**, Vol. 187 (2009), pp.012090. (ISSN 1742-6588 (print) 1742-6596 (web)).
- Phan Van Cuong**, Jinsik Ju, and Do-Hyung Kim, Enhanced X-ray Excited Luminescence of LaF₃:Ce/CdSeS Nanocomposites for Radiation Detection, The 3rd International Conference on Advanced Materials and Nanotechnology, October 02-05 (ICAMN 2016), Hanoi, Vietnam. (ISBN 978-604-95-0010-7)
- Phan Van Cuong**, Tran Tien Phuc, Synthesis of the Indium-Tin Oxide nanowires by the Vapor-Liquid-Solid technique, National conference on Technical Physics and Applications, Hue, Vietnam, October 8-12 (2013) (*Invited talk*). (ISBN 978-604-913-232-2)
- Phan Van Cuong**, Bjørn Kvamme, Tatiana Kuznetsova, and Bjørnar Jensen, The Impact of Short-Range Force Field Parameters and Temperature Effect On Selective Adsorption of Water and CO₂ On Calcite, International Conference on HEAT and MASS TRANSFER, [January 25-27 \(2012\)](#), [Harvard, Cambridge, United States of America](#). (ISBN 978-1-61804-065-7)
- Phan Van Cuong**, CdSeS, LaF₃:Ce³⁺/CdSeS, and CsPbI₃ nanostructures: Synthesis and X-ray luminescence properties, The 9th International Workshop on Advanced Materials Science and Nanotechnology (IWAMSN2018), 8-11 November (2018) □ Ninh Binh, Vietnam. (ISBN 978-604-973-306-2).
- Phan Van Cuong**, Joonghoe Dho, and Do-Hyung Kim, Effect of strontium doping level on electrical transport and magnetic properties of La_{1-x}Sr_xMnO₃ perovskite nanoparticles, Asean Workshop on Advanced Materials Science and Nanotechnology, September 15 - 20 (2008), Nha Trang, Vietnam. (ISBN 978-90-9023470).