

CURRICULUM VITAE

1. Personal details

1	Full name	Luc Huy Hoang	Birth date	10/11/1972	Sex: M ☒ F ☐
	Academic degree	Ph.D	Position/ title	Director/ Professor	
2	Institution & address: Hanoi National University of Education, 136 Xuanthuy, Cau Giay, Hanoi.				
	Department/ division/ faculty				
	3	Office tel.	84.4.37547797	Mobile phone No.	0903200023
	Fax		E-mail	hoanglhsp@hnue.edu.vn	

2. Qualifications:

Years	Academic institutions	Major/ Specialty	Academic degree
1989-1993	Hanoi University of Education	Physics	Bachelor
1994-1996	Hanoi National University of Education	Solid state physics	Master
2000-2004	Hanoi National University of Education	Solid state Physics	Ph.D

3. Professional experience:

Years	Institution	Professional address	Position
1994-1996	Hanoi National University of Education	136 Xuan Thuy Road, Cau Giay, Hanoi, Vietnam	Master student
1996-2000	Hanoi National University of Education	136 Xuan Thuy Road, Cau Giay, Hanoi, Vietnam	Lecturer
3/1998-	Science Institute of Taiwan	PIDC, Hshinchu, Taiwan	Guest Researcher

8/1998			
2000- 2004	Hanoi National University of Education	136 Xuan Thuy Road, Cau Giay, Hanoi, Vietnam	Ph.D student
5/2000-11/2000	Science Institute of Taiwan	PIDC, Hshinchu, Taiwan	Guest Researcher
11/2000-10/2005	Hanoi National University of Education	136 Xuan Thuy Road, Cau Giay, Hanoi, Vietnam	Lecturer
10/2005-now	Hanoi National University of Education	136 Xuan Thuy Road, Cau Giay, Hanoi, Vietnam	Lecturer, vice Dean
3-9/2007	Ewha Womans University	Seoul 120-750, Korea	Post-Doctor
3-6/2009	Ewha Womans University	Seoul 120-750, Korea	Visiting Researcher
2009-2012	Hanoi National University of Education	136 Xuan Thuy Road, Cau Giay, Hanoi, Vietnam	Ass. Prof., Lecturer, Vice dean.
2012-2022	Hanoi National University of Education	136 Xuan Thuy Road, Cau Giay, Hanoi, Vietnam	Prof., Lecturer, Dean.
2022-2024	Hanoi National University of Education	136 Xuan Thuy Road, Cau Giay, Hanoi, Vietnam	Prof., Lecturer, Head
2024-now	Hanoi National University of Education	136 Xuan Thuy Road, Cau Giay, Hanoi, Vietnam	Prof., Lecturer, Director
2015-2025	National ChiaoTung University	No. 1001, Daxue Road, East District, Hsinchu City, Taiwan 30	Visiting Professor

4. Language (rating: A- Poor/ deficient; B- Fair; C- Sufficient; D- Fluent)

Language	Reading	Writing	Speaking
English	d	d	c

5. Expertise and research interests

5.1. Last five year's research interests.

- *Photocatalytic materials,*
- *Optical characterization and its application in materials science*
- *DMS materials*
- *Nanomaterials and its applications*

5.2. Research funding received:

No	Project name	Funding institution	Project duration	Position/ role in the project
1	CuO and Cu ₂ O based visible photocatalysts: synthesis and investigation on their catalytic mechanism for the CO ₂ reduction, organic dye decomposition.	Basic Research Program	2023 - 2025	Principle Investigator
2	Modified Bi ₂ WO ₆ nanoparticles: synthesis, photophysics, and enhancement of visible-light photocatalytic activity	Basic Research Program	2017 - 2020	Principle Investigator
3	Photocatalytic nanomaterials: Preparation, properties and application	Basic Research Program	2011 - 2013	Principle Investigator
4	Using Raman spectroscopy to study DMS materials: B2009 17-188	Basic Research Program	2009 - 2010	Principle Investigator
5	Prepare and study optical properties of nano ZnO doped with Co,Mn, Al ĐHQG 07-192	Basic Research Program	2007 - 2009	Principle Investigator

5.3. Publications

1. Hien Doan-Thi, Linh Tran-Phan-Thuy, Hai Pham-Van, Hoang Luc-Huy, *Structural properties, thermodynamic stability and reaction pathways for solid-state synthesis of Bi₂WO₆ polymorphs*, Dalton Transactions 54 (2025) 700-718.
2. Vu Quoc Trung, Nguyen Dang Phu, Pham Van Hai, Chung-Li Dong, Ta Thi Thuy Nga, Wu-Ching Chou, Nguyen Thi Ngoc Hue, Pham Thi Hue, Luu Anh Tuyen, Nguyen Quang Hung, Luc Huy Hoang, *Enhancing Photocatalytic Performance in Bi₂WO₆ Nanolayers via Ultrasound-Assisted Oxygen Vacancy Engineering*, Journal of Alloys and Compounds (2025) 177747.
3. L.H.Hoang et al., *Unlocking the Origin of Enhanced Piezo-Photocatalytic Performance via Thermodynamic Insights: A Study of Surface Active-Site Engineering in ZnO*, Small 21 (2025) 2412719.

4. Dang B. Tran, Ly T. Le, Duc N. Nguyen, Quyen T. Nguyen, Ta Thi Thuy Nga, Wu-Ching Chou, Hoang H. Luc, Chung-Li Dong and Phong D. Tran, A novel method for the synthesis of MoSSe using an $(Et_4N)_2[Mo_3S_4Se_3Br_6]$ complex as the sole precursor, *Dalton Transactions* 53 (2025) 15638.
5. Dinh Ngoc Quy, Vu Quoc Trung, Nguyen Dang Phu, Pham Van Hai, Nguyen Manh Nghia, Luc Huy Hoang, *Enhanced photocatalytic activity of $SnO_2/g-C_3N_4$ nanocomposite synthesized using sonochemistry method*, *The European Physical Journal Applied Physics* 99 (2024) 8.
6. Thi Thu Mai, Jin-Ji Dai, Wu-Ching Chou, Hua-Chiang Wen, Le Trung Hieu, Huy Hoang Luc, *Improving Optical and Electrical Characteristics of GaN Films via 3D Island to 2D Growth Mode Transition Using Molecular Beam Epitaxy*, *Coatings* 14 (2024) 191.
7. Vy Anh Tran, Ha Tran Huu, Hong Nhung Thi Ngo, Lan Nguyen Thi, Thuy Trang Thi Phan, Tan Lam Nguyen, Huy Hoang Luc, Vien Vo, Magnesiothermic reduction synthesis of N-deficient g-C₃N₄ with enhanced photocatalytic performance under visible light, *Chemical Physics* 575 (2023) 112061.
8. Tu Vu-Minh, Anh Dao-Hong, Phuong Bui-Bich, Nam Nguyen-Tran-Thanh, Cuong Tran-Manh, Linh Tran-Phan-Thuy, Hien Doan-Thi, Hoang Luc-Huy, Hai Pham-Van, Evaporation-driven assembly of colloidal nanoparticles into clusters: A dissipative particle dynamics study, *Physical Review E* 108 (2023) 014602.
9. Ha Tran Huu, Ngoc Phi Nguyen, Vuong Hoang Ngo, Huy Hoang Luc, Minh Kha Le, Minh Thu Nguyen, My Loan Phung Le, Hye Rim Kim, In Young Kim, Sung Jin Kim, Vien Vo, In situ magnesiothermic reduction synthesis of a Ge@ C composite for high-performance lithium-ion batterie anodes, *Beilstein Journal of Nanotechnology* 14 (2023) 751-761.
10. Jin-Ji Dai, Thi Thu Mai, Umeshwar Reddy Nallasani, Shao-Chien Chang, Hsin-I Hsiao, Ssu-Kuan Wu, Cheng-Wei Liu, Hua-Chiang Wen, Wu-Ching Chou, Chieh-Piao Wang, Luc Huy Hoang, The effect of heavy Fe-doping on 3D growth mode and Fe diffusion in GaN for high power HEMT application, *Materials* 15 (2022) 2058.
11. Wenjuan Huang, Mengting Song, Yue Zhang, Yadi Zhao, Huayi Hou, Luc Huy Hoang, Xiangbai Chen, Chemical vapor deposition growth of nonlayered γ -In₂Se₃ nanosheets on SiO₂/Si substrates and its photodetector application, *Journal of Alloys and Compounds* 904 (2022) 164010.
12. Nghia Manh Nguyen, Hue Thi Nguyen, Nobuaki Negishi, Khang Cao Nguyen, Hoang Huy Luc, Van Quoc Duong, Effects of Ni Doping and Silica Gel Bead Support on Characteristics of TiO₂ Catalyst, *Journal of Electronic Materials* 51(2022) 6204-6212.
13. Wenjuan Huang, Mengting Song, Yue Zhang, Yadi Zhao, Huayi Hou, Luc Huy Hoang, Xiangbai Chen, Defects-induced oxidation of two-dimensional β -In₂S₃ and its optoelectronic properties, *Optical Materials* 119 (2021) 111372.
14. Ha Tran Huu, My Duyen Nguyen Thi, Van Phuc Nguyen, Lan Nguyen Thi, Thi Thuy Trang Phan, Quoc Dat Hoang, Huy Hoang Luc, Sung Jin Kim, Vien Vo, One-pot synthesis of S-scheme MoS₂/g-C₃N₄ heterojunction as effective visible light photocatalyst, *11* (2021) 14787.

15. Tran Phan Thuy Linh, Nguyen Dang Phu, Pham Van Hai, Luc Huy Hoang, Improvement of Photocatalytic Activity of Bi_2WO_6 by Doping Ag and Y: A DFT Study, *Journal of Electronic Materials* 50 (2021) 4027-4033.
16. Doan An Tran, Chi Thanh Nguyen Pham, Tri Nguyen Ngoc, Hung Nguyen Phi, Qui Thanh Hoai Ta, Duy Huong Truong, Huy Hoang Luc, Ngoc Nhiem Dao, Sung Jin Kim, Vien Vo, One-step synthesis of oxygen doped g-C $_3$ N $_4$ for enhanced visible-light photodegradation of Rhodamine B, *Journal of Physics and Chemistry of Solids* 151 (2021) 109900.
17. Thi Thuy Nguyen, Manh Cuong Tran, Huy Hoang Luc, Tomoyuki Koganezawa, Satoshi Yasuno, Dinh Lam Vu, Shin-Ichiro Kuroki, Characterization of selectively oriented polycrystalline silicon thin films formed by multiline beam continuous-wave laser lateral crystallization with overlapping, *Japanese Journal of Applied Physics* 59 (2020) 115504
18. Manh Cuong Tran, Van Hai Pham, Dac Tuyen Le, Dinh Lam Vu, Huy Hoang Luc, Resonance tuning effect using nanoparticle cluster configuration in the infrared regime, *Journal of Optics* 49 (2020) 311-314.
19. Cheng-Wei Liu, Jin-Ji Dai, Ssu-Kuan Wu, Nhu-Quynh Diep, Sa-Hoang Huynh, Thi-Thu Mai, Hua-Chiang Wen, Chi-Tsu Yuan, Wu-Ching Chou, Ji-Lin Shen, Huy-Hoang Luc, Substrate-induced strain in 2D layered GaSe materials grown by molecular beam epitaxy, *Scientific reports* 10 (2020) 1-8.
20. Nguyen Dang Phu, Luc Huy Hoang, Pham Van Hai, Tran Quang Huy, Xiang-Bai Chen, Wu Ching Chou, Photocatalytic activity enhancement of Bi_2WO_6 nanoparticles by Ag doping and Ag nanoparticles modification, *Journal of Alloys and Compounds* 824 (2020) 153914.
21. Hai Pham-Van, Linh Tran-Phan-Thuy, Cuong Tran-Manh, Bich Do-Danh, Hoang Luc-Huy, Two-dimensional clusters of colloidal particles induced by emulsion droplet evaporation, *Nanomaterials*, (2020) 156.
22. Nguyen Dang Phu, Pham Khac Vu, Dang Duc Dung, Luc Huy Hoang, Nguyen Van Hung, Pham Van Hai, Temperature-dependent preparation of bismuth pyrostannate $\text{Bi}_2\text{Sn}_2\text{O}_7$ and its photocatalytic characterization, *Materials Chemistry and Physics*, 221 (2019) 197-202.
23. Hai Pham-Van, Cuong Tran-Manh, Bich Do-Danh, Thuy Nguyen-Minh, Hoang Luc-Huy: Evaporation-induced assembly of colloidal clusters into superclusters with nonconvex deltahedral geometry. *AIP Advances* 12/2018; 8(12):125116., DOI:10.1063/1.5055638
24. Nguyen Dang Phu, Pham Khac Vu, Dang Duc Dung, Do Danh Bich, Le Mai Oanh, Luc Huy Hoang, Nguyen Van Hung, Pham Van Hai: Temperature-dependent preparation of bismuth pyrostannate $\text{Bi}_2\text{Sn}_2\text{O}_7$ and its photocatalytic characterization. *Materials Chemistry and Physics* 09/2018; 221., DOI:10.1016/j.matchemphys.2018.09.027
25. Hai Pham-Van, Hoang Luc-Huy, Thuy Nguyen-Minh: Template-assisted assembly of asymmetric colloidal dumbbells into desirable cluster structures. *Colloid and Polymer Science* 06/2018; 296(7422)., DOI:10.1007/s00396-018-4360-5

26. Luc Huy Hoang, Nguyen Dang Phu, Heng Peng, Xiang-Bai Chen: High photocatalytic activity N-doped Bi₂WO₆ nanoparticles using a two-step microwave-assisted and hydrothermal synthesis. *Journal of Alloys and Compounds* 02/2018; 744., DOI:10.1016/j.jallcom.2018.02.094
27. Khac Vu Pham, Van Hung Nguyen, Dang Phu Nguyen, Danh Bich Do, Mai Oanh Le, Huy Hoang Luc: Hydrothermal Synthesis, Photocatalytic Performance, and Phase Evolution from BiOCl to Bi₂Ti₂O₇ in the Bi-Ti-Cl-O System. *Journal of Electronic Materials* 08/2017; 46(12):1-5., DOI:10.1007/s11664-017-5749-5
28. Nguyen Dang Phu, Luc Huy Hoang, Peng-Cheng Guo, Xiang-Bai Chen, Wu Ching Chou: Study of photocatalytic activities of Bi₂WO₆/BiVO₄ nanocomposites. *Journal of Sol-Gel Science and Technology* 06/2017; 83(3)., DOI:10.1007/s10971-017-4450-8
29. Luc Huy Hoang, Nguyen Dang Phu, Pham Do Chung, Peng-Cheng Guo, Xiang-Bai Chen, Wu Ching Chou: Photocatalytic activity enhancement of Bi₂WO₆ nanoparticles by Gd-doping via microwave assisted method. *Journal of Materials Science Materials in Electronics* 05/2017; 28(16):1-6., DOI:10.1007/s10854-017-7034-z
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31. Dao Tri Thuc, Tran Quang Huy, Luc Huy Hoang, Tran Huy Hoang, Anh-Tuan Le, Dang Duc Anh: Antibacterial Activity of Electrochemically Synthesized Colloidal Silver Nanoparticles Against Hospital-Acquired Infections. *Journal of Electronic Materials* 02/2017;., DOI:10.1007/s11664-017-5315-1
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35. Vien Vo, Nguyen Van Kim, Nguyen Thi Viet Nga, Nguyen Tien Trung, Le Truong Giang, Pham Van Hanh, Luc Huy Hoang, Sung-Jin Kim: Preparation of g-C₃N₄/Ta₂O₅ Composites with Enhanced Visible-Light Photocatalytic Activity. *Journal of Electronic Materials* 12/2015; 45(5)., DOI:10.1007/s11664-015-4280-9
36. Ji-eun Park, Vien Vo, Nguyen Thi Vuong Hoan, Luc Huy Hoang, Sung Jin Kim: Synthesis of hollow carbon-W₁₈O₄₉ composite and its photocatalytic properties.

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39. Luc Huy Hoang, Pham Van Hanh, Nguyen Dang Phu, Xiang-Bai Chen, Wu Ching Chou: Synthesis and characterization of MnWO₄ nanoparticles encapsulated in mesoporous silica SBA-15 by fast microwave-assisted method. Journal of Physics and Chemistry of Solids 02/2015; 77., DOI:10.1016/j.jpcs.2014.10.013
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41. Nguyen Dang Phu, Nguyen Van Hung, Luc Huy Hoang, Nguyen Van Minh, Le Mai Oanh, Danh Bich Do: Crystallization Process and Magnetic Properties of Amorphous NiFe₂O₄ Nanoparticles. IEEE Transactions on Magnetism 06/2014; 50(6):1-4., DOI:10.1109/TMAG.2013.2297520
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46. Nguyen Van Minh, Le Mai Oanh, Pham Van Doan, Pham Van Hai, Luc Huy Hoang: Investigation of structural, optical and magnetic properties in PbTi_{1-x}Fe_xO₃ ceramics. Ceramics International 12/2011; 37(8):3785-3788., DOI:10.1016/j.ceramint.2011.06.017

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Hanoi, November 17, 2025



Prof. Luc Huy Hoang
Director, Institute of Natural Sciences