

SCIENTIFIC CURRICULUM VITAE

I. Personal Information

Name	NGUYEN QUOC DUNG
Gender	Male
Date of birth	July 17, 1982
Place of birth	Binh Luc District – Ha Nam Province
Homeland	Binh Luc District – Ha Nam Province
Position	Lecturer of Chemistry Faculty of Thai Nguyen University of Education.
Degree	Doctor Year: 2013 Major: Materials Science
Scientific title	Doctor
Teaching subjects	Natural Science II (Chemistry), Chemistry (for Physics, Biology majour), Electrochemistry and physical chemistry experiment.
Research area	Electrochemical biosensors, electrochemical sensors, electrochemical, nanomaterials and applications
Foreign Language	English
Address	Thai Nguyen University of Education - Thai Nguyen University.
Phone Number	+84 913989269
E-mail	dungnq@tnue.edu.vn



II. Education

- 2004: B.Sc in Chemistry in Education, Hanoi University of Education.
- 2006: M.Sc in Materials Science, Hanoi University of Technology.
- 2013: Ph.D in Materials Science, Chungnam National University - Korea.

III. Scientific Publications

❖ Articles on International Journals:

1. Nguyen Van Hieu, **Nguyen Quoc Dung**, Phuong Dinh Tam, Tran Trung, Nguyen Duc Chien (2009), “Thin film polypyrrole/SWCNTs nanocomposites-based NH_3 sensor operated at room temperature”, *Sensors and Actuators B* 140, 500-507.
2. Nguyen Duc Hoa, Sea Yong An, **Nguyen Quoc Dung**, Nguyen Van Quy, Dojin Kim (2010), “Synthesis of p-type semiconducting cupric oxide thin films and their application to hydrogen detection”, *Sensors and Actuators B* 146, 239-244.
3. Thanh-Tung Duong, **Quoc-Dung Nguyen**, Soon-Ku Hong, Dojin Kim, Soon-Gil Yoon, Thanh-Huy Pham (2011), “Enhanced Photoelectrochemical Activity of the TiO_2 /ITO Nanocomposites Grown onto Single-Walled Carbon Nanotubes at a Low Temperature by Nanocluster Deposition”, *Advanced Materials* 23, 5557-5562.
4. Dewyani Patil, **Nguyen Quoc Dung**, Hyuck Jung, Se Yong Ahn, Dong Mi Jang, Dojin Kim, 2012, “Enzymatic glucose biosensor based on CeO_2 nanorods synthesized by non-isothermal precipitation”, *Biosensors and Bioelectronics* 31, 176-181.
5. **Nguyen Quoc Dung**, Thanh-Tung Duong, Hyuck Jung, Dojin Kim, Soon-Gil Yoon (2012), “An amperometric glucose biosensor based on GOx entrapped TiO_2 -SWCNT composite”, *Sensors and Actuators B* 166-167, 103-109.
6. Hoang Nhat Hieu, **Nguyen Quoc Dung**, Jimin Kim and Dojin Kim (2013), “Urchin-like nanowire array: a strategy for high-performance ZnO -based electrode utilized in photoelectrochemistry”, *Nanoscale* 5, 5530-5538.
7. **Nguyen Quoc Dung**, Dewyani Patil, Hyuck Jung, and Dojin Kim (2013), “High performance nonenzymatic glucose sensor made of CuO -SWCNT nanocomposites”, *Biosensors and Bioelectronics* 42, 280-286.
8. **Nguyen Quoc Dung**, Dewyani Patil, Hyuck Jung, Jimin Kim, and Dojin Kim (2013), “ NiO -decorated single-walled carbon nanotubes for high performance nonenzymatic glucose sensing”, *Sensors and Actuators B* 183, 381-387.
9. L.T.H. THANH, N.B. DOAN, **N.Q. DUNG**, L.V. CUONG, L.H. BAC, N.A. DUC, P.Q. BAO, and D.D. DUNG (2017), “Origin of Room Temperature Ferromagnetism

- in Cr-Doped Lead-Free Ferroelectric $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3$ Materials”, *Journal of Electronic Materials*, 46, 3367–3372.
10. Man Minh Hue, **Nguyen Quoc Dung**, Nguyen Ngoc Trung, Luong Huu Bac, Luong Thi Kim Phuong, Nguyen Van Duc, Dang Duc Dung (2018), “Tunable magnetic properties of $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3$ materials via solid solution of NiTiO_3 ”, *Applied Physics A*, 588, 1-7.
 11. Man Minh Hue, **Nguyen Quoc Dung**, Luong Thi Kim Phuong, Nguyen Ngoc Trung, Nguyen Van Duc, Luong Huu Bac, Dang Duc Dung (2019), “Magnetic properties of $(1 - x)\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3 + x\text{MnTiO}_3$ materials”, *Journal of Magnetism and Magnetic Materials*, 471, 164-168.
 12. Loan T. T. Nguyen, Lan T. H. Nguyen, Nhung Chu Manh, **Dung Nguyen Quoc**, Hai Nguyen Quang, Hang T. T. Nguyen, Duy Chinh Nguyen, and Long Giang Bach (2019), “A Facile Synthesis, Characterization, and Photocatalytic Activity of Magnesium Ferrite Nanoparticles via the Solution Combustion Method”, *Journal of Chemistry*, 1-8. <https://doi.org/10.1155/2019/3428681>
 13. L T K Phuong, D D Dung, **N Q Dung**, M M Hue, N X Duong, P D Luong, L H Bac, N A Duc, N N Trung, N V Duc (2019), “Structural, optical, and magnetic properties of a new system of $\text{Bi}(\text{Mn}_{0.5}\text{Ti}_{0.5})\text{O}_3$ -modified $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3$ materials”, *Materials Research Express*, 6, 106112
 14. D.D. Dung, N.B. Doan, **N.Q. Dung**, L.H. Bac, N.H. Linh, L.T.H. Thanh, D.V. Thiet, N.N. Trung, N.C. Khang, T.V. Trung, N.V. Duc (2019), “Role of Co dopants on the structural, optical and magnetic properties of lead-free ferroelectric $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ materials”, *Journal of Science: Advanced Materials and Devices*, 4, 584-590
 15. **Nguyen Quoc Dung**, Tran Thi Thuy Duong, Tran Dai Lam, Dang Duc Dung, Nguyen Nhat Huy, Dang Van Thanh (2019), “A simple route for electrochemical glucose sensing using background current subtraction of cyclic voltammetry technique”, *Journal of Electroanalytical Chemistry*, 848, 113323
 16. D. D. Dung, N. B. Doan, **N. Q. Dung**, N. H. Linh, L. H. Bac, L. T. H. Thanh, N. N. Trung, N. V. Duc, L. V. Cuong, D. V. Thiet, S. Cho (2019), “Tunable Magnetism of

- $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ Materials via Fe Defects”, *Journal of Superconductivity and Novel Magnetism*, 32, 3011–3018
17. D. D. Dung, M. M. Hue, **N. Q. Dung**, N. H. Lam, L. T. K. Phuong, L. H. Bac, N. N. Trung, N. V. Duc, D. Odkhuu (2020), “Enhancing room-temperature ferromagnetism in $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3$ via FeTiO_3 solid solution”, *Journal of Electroceramics*, <https://doi.org/10.1007/s10832-020-00203-w>.
 18. D. D. Dung, **N. Q. Dung**, N. B. Doan, N.H. Linh, L. H. Bac, N. N. Trung, N. V. Duc, L.T. H. Thanh, L. V. Cuong, D. V. Thiet & S. Cho (2020), “Defect-Mediated Room Temperature Ferromagnetism in Lead-Free Ferroelectric $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ Materials”, *Journal of Superconductivity and Novel Magnetism*, 33, 911–920.
 19. D.D. Dung, M.M. Hue, **N.Q. Dung**, L.T.K. Phuong, L.H. Bac, N.X. Duong, P.D. Luong, N.A.Duc, N.N. Trung, N.H. Thoan, D. Odkhuu (2020), “Influenced of $\text{Bi}(\text{Ti}_{1/2}\text{Ni}_{1/2})\text{O}_3$ concentration on the structural, optical and magnetic properties of lead-free $\text{Bi}_{1/2}\text{Na}_{1/2}\text{TiO}_3$ materials”, *Vacuum*, 177, 109306
 20. D.D. Dung, N.Q. Dung, M.M. Hue, N.H. Lam, L.H. Bac, L.T.K. Phuong, N.N. Trung, D. D. Tuan, N.D. Quan, D. Sangaa, D. Odkhuu (2020). “Experimental and theoretical studies on the room-temperature ferromagnetism in new $(1-x)\text{Bi}_{1/2}\text{Na}_{1/2}\text{TiO}_3+x\text{CoTiO}_3$ solid solution materials”, *Vacuum*, 179, 109551

❖ Articles on Domestic Journals

1. Do Tra Huong, Nguyen Thanh Hai, **Nguyen Quoc Dung**, Dang Van Thanh (2016), “KOH Adsorption of As (III) in water by KOH modified tea residue adsorbent”, *Vietnam Journal of Analytical Chemistry, Physics and Biology* 21, 3, 131-140.
2. **Nguyen Quoc Dung**, Nguyen Van Tien, Do Tra Huong, Nguyen Hong Nhung (2017), “Cyclic voltametric method for determination of glucose based on CuO/ITO electrode”, *Vietnam Journal of Analytical Chemistry, Physics and Biology* 22, 3, 98-105.
3. Tran Thi Thuy Duong, **Nguyen Quoc Dung**, Tran Dai Lam (2018), “Chronoamperometry technique in glucose sensor based on CuO/ITO electrode”, *Vietnam Journal of Chemistry*, no. 3E12-2018,15-20.
4. Do Tra Huong, **Nguyen Quoc Dung**, Nguyen Thi Kim Ngan, Nguyen Thi Anh Tuyet, Ha Xuan Linh (2018) “Adsorption of Cd (II) in aqueous environment by

KOH modified tea residue adsorbent material”, *Vietnam Journal of Chemistry* 55, 5E12, 54-58

5. Do Tra Huong, Nguyen Phuong Chi, Nguyen Thanh Trung, Nguyen Duc Thanh, **Nguyen Quoc Dung**, Vilaykone Phakaxoum, Nguyen Anh Tien (2019), “Methylene blue adsorption in water using Fe₃O₄/bentonite nano composite material prepared by ultrasonic activation method”, *Vietnam Journal of Chemistry* 57, (4e1,2), 181-187.
6. Duong Thi Thuy Tran, **Dung Quoc Nguyen***, Chuyen Hong Pham, Lam Dai Tran, Dai Tien Nguyen (2020), "Facile Synthesis of CuO/ITO Film Via the Chronoamperometric Electrodeposition for Nonenzymatic Glucose Sensing", *Communications in Physics*, Vol. 30, No. 2 (2020), pp. 161-170.

IV. Science and Technology Grants (Leader - all levels)

❖ National level

1. National Foundation for Science & Technology Development (NAFOSTED):
“*Preparation and characterization of copper oxide nanowires, and nanotubes using electrochemical method, and their applications for electrochemical sensor and solar hydrogen production*” 103.02-2016.63. Being sponsored.

❖ University level

1. TNU – The University of Education: “*Preparation of CuO/ITO electrode for glucose sensor*”. CS.2016-SP-13. Accepted in 2017 - good grade.
2. Ha Nam college of teacher training: “*Applying graphing software to build titration curves in the teaching and learning in the analytical module 3 of Chemistry Education College Program*”, Accepted in 2015, good grade.
3. Ha Nam college of teacher training: “*Applying some informatics programming software to simulate probability density function and orbital in general chemistry program for Chemical Education College*”, Accepted in 2014, good grade.

V. Published Books

1. Nguyen Van Truong, **Nguyen Quoc Dung**, Nguyen Nhat Huy, Pham Van Hao and Dang Van Thanh (2019), Chapter: Ultrasonic-Assisted Cathodic Plasma Electrolysis Approach for Producing of Graphene Nanosheets, Book: Sonochemical Reactions, *IntechOpen*, DOI: 10.5772/intechopen.89267.
2. Hoang Thi Chien, Tran Quoc Toan, Chu Manh Nhung, **Nguyen Quoc Dung** (2019), Chemistry history, Thai Nguyen University Publishing House.

VI. Supervisor (Master)

No	Name	Degree	Training organization	Guidance year	Graduation year
1	Nguyen Van Tien	Master	Hong Duc University	2015	2016
2	Nguyen Hong Nhung	Master	Thai Nguyen University	2016	2017
3	Do Ngoc Anh	Master	Thai Nguyen University	2017	2018
4	Ha Van Anh	Master	Thai Nguyen University	2018	2019
5	Nguyen Hai Yen	Master	Thai Nguyen University	2018	2019
6	Vilaykone	Master	Thai Nguyen University	2019	2020

VII. Honors and Awards

1. Merit certificate from the Rector of the The University Education - TNU for the achievements in the International Announcement of the 2018-2019 school year (Decision No. 4680/QĐ-ĐHSP, September 6th 2019) .

2. Merit certificate from the Director of Thai Nguyen University for the excellent achievement of the tasks for the 2018-2019 school year (Decision No. 1544/QĐ-ĐHTN, September 5th 2019)

3. Merit certificate from the Rector of the TNU - University of Education for outstanding achievements in scientific research and international publication in 2017 (Decision No 3209/QĐ-ĐHTN, May 19th 2017).

4. Emulative soldier at the grassroots level school year of Ha Nam college of teacher training 2013-2014.

5. Merit certificate from the Ambassador Extraordinary and Plenipotentiary in Korea for academic achievement and work in 2012.

Thai Nguyen, September 10, 2020

Nguyen Quoc Dung