SCIENTIFIC CURRICULUM VITAE

I. Personal Information

Name	**BUI DUC NGUYEN**
Gender	Male
Date of birth	July 30, 1977
Place of birth	Kim Boi District - Hoa Binh Province
Homeland	Quoc Oai District - Hoa Binh Province
Position	Senior lecturer, Faculty of Chemistry, Thai Nguyen University of Education.
Degree	Doctor Year: 2011 Major: Inorganic Chemistry
Scientific title	Associate Professor Accreditation year: 2016
Teaching subjects	Chemistry of Non-metallic Elements, Chemistry of Metallic Elements, Chemistry of Coordination Compounds
Research area	Synthesis of nanomaterial photocatalysts and their applications in degradation of organic pollutants.
Foreign Language	English
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II. Qualifications

1999: BSc in Chemistry in Education, Thai Nguyen University of Education.

2006: MSc in Inorganic Chemistry, Hanoi National University of Education.

2011: PhD in Inorganic Chemistry, East China University of Science and Technology (ECUST).

2018: BSc in Political-administrative law, Ho Chi Minh National Academy of Politics and Public Administration.

III. Scientific Publications

❖ Articles in international Journals

1. **D. N. Bui**, X. L. Zhao, S.-Z. Kang, J. Mu (2011), CuO loaded $SrTiO_3$ nanoparticles: an efficient pt-free photocatalyst for H_2 evolution from water, *Wolrd Scientific*, pp.604-607.

2. **Duc-Nguyen Bui**, Shi-Zhao Kang, Xiangqing Li, Jin Mu (2011), Effect of Si doping on the photocatalytic activity and photoelectrochemical property of TiO_2 nanoparticles, *Catalysis Communications*, Volume 13, Issue 1, pp. 14–17.

3. **Duc-Nguyen Bui**, Jin Mu, Lei Wang, Shi-Zhao Kang, Xiangqing Li (2013), Preparation of Cu-loaded $SrTiO_3$ nanoparticles and their photocatalytic activity for hydrogen evolution from methanol aqueous solution, *Applied Surface Science*, Volume 274, pp. 328-333.

4. **Duc-Nguyen Bui**, Shi-Zhao Kang, Lixia Qin, Xiang-Qing Li, Jin Mu (2013), Relationship between the electrochemical behavior of multiwalled carbon nanotubes (MWNTs) loaded with CuO and the photocatalytic activity of Eosin Y-MWNTs-CuO system, *Applied Surface Science*, Volume 266, pp. 288–293.

5. Loan T. T. Nguyen, Lan T. H. Nguyen, Anh T. T. Duong, **Bui Duc Nguyen**, Nguyen Quang Hai, Viet Ha Chu, Trinh Duy Nguyen, Long Giang Bach (2019), Preparation, Characterization and Photocatalytic Activity of La-Doped Zinc Oxide Nanoparticles, *Materials*, Volume 12, p. 1195.

❖ **Articles in national Journals**

6. **Bui Duc Nguyen**, Do Tra Huong (2012), Effect of Si doping on the structural characteristics and Rhodmine B decomposition photocatalytic activity of TiO_2 nanoparticles, *Vietnam Journal of Chemistry*, Vol 50, No. 5B, pp. 97-100.

7. Do Tra Huong, Dao Viet Hung, **Bui Duc Nguyen** (2012), Fabrication and research on the adsorption capacity of $Fe^{3+,}$ $Ni^{2+,}$ Cr (VI) ions of the sand-coated MnO_2 nano oxide material, *Vietnam Journal of Chemistry*, Vol. 50, No. 5B, pp. 221-226.

8. Do Tra Huong, **Bui Duc Nguyen** (2013), Research on methylene blue adsorption capacity of the MWCNTs/Fe_2O_3 nanocomposite adsorbent, *Vietnam Journal of Chemistry*, Vol. 51, No. 3AB, pp. 137-141.

9. **Bui Duc Nguyen** (2013), Enhanced photocatalytic activity of TiO_2 nanoparticles by Ag_2O cocatalyst for degradation of methyl orange, *Vietnam Journal of Chemistry*, Vol. 51 (3AB), pp. 422 – 425.

10. **Bui Duc Nguyen**, Nguyen Hoang Hau, Do Tra Huong (2013), Effect of CuO as cocatalytic on photocatalytic of tio_2 nanoparticles for degradation of methyl orange, *Vietnam Journal of Chemistry*, Vol. 51 (3AB), pp. 549 – 553.

11. **Bui Duc Nguyen** (2014), Preparation, characteration of La_2O_3/TiO_2 nanocomposites and their photocatalytic activity for degradation of Rhodamine B, *Vietnam Journal of Chemistry*, Vol. 52 (5A), pp. 32-35.

12. **Bui Duc Nguyen**, Do Tra Huong (2014), Effect of Cu, N co-doping on structural properties and photocatalytic activity for degradation of Rhodamine B of TiO_2 nanoparticles, *Vietnam Journal of Chemistry*, Vol. 52(5A), pp. 36-40.

13. **Bui Duc Nguyen**, Nguyen Dinh Cuong, Dang Thi Thanh Le (2015), Effects of preparation methods on structural properties and photocatalytic activity for degradation of methyl orange of $AgInS_2$ nanoparticles, *Vietnam Journal of Chemistry*, Vol. 53, No.3E12, pp. 433-436.

14. **Bui Duc Nguyen**, Nguyen Van Anh (2015), Preparation, characteration and comparison photocatalytic activity of $AgIn_5S_8$ nanomaterials for degradation of methyl orange, *Vietnam Journal of Chemistry*, Vol. 53, No. 3E12, pp. 437-440.

15. Nguyen Van Hai, **Bui Duc Nguyen** (2016), Preparation, characteration of La-doped TiO_2 nanoparticles and their photocatalytic activity for degradation of blue methylen, *TNU Journal of Science and Technology*, Vol. 151, No. 6, pp. 31 – 35.

16. Bui Duc Nguyen (2016), Synthesis, characterization and photocatalytic activity of TiO_2 nanotubes modified by Ag_2O for degradation of methyl orange, *TNU Journal of Science and Technology*, Vol. 151, No. 6, pp. 3 – 7.

17. **Bui Duc Nguyen** (2017), Enhanced photocatalytic activity of tio_2 nanoparticles by $AgIn_5S_8$ cocatalyst for degradation of 2,4-dicholorophenol, *Vietnam Journal of Chemistry*, Vol. 55, No.3e12, pp. 254- 257.

18. **Bui Duc Nguyen**, Dang Thi Thanh Le (2017), Preparation, characterization and photocatalytic activity of $CuInS_2$ nanomaterials for degradation of methyl orange, *Vietnam Journal of Chemistry*, Vol. 55, No. 3e12, pp. 250- 253.

19. Nguyen Danh Nam, **Bui Duc Nguyen** (2018), Strategic plan for Thai Nguyen University of Education to meet the requirements of The Industrial Revolution 4.0, *Journal of Education Management*, Vol. 10, No. 10, pp. 7-11.

20. Nguyen Thi Hien Lan, **Bui Duc Nguyen**, Nguyen Thi Thanh Yen (2018), Synthesis and properties of acetylsalicylate complexes of some light rare earth elements, *Vietnam Journal of Chemistry*, Vol. 56, No. 6E2, pp. 101-104.

21. 54. Nguyen Thi Hien Lan, **Bui Duc Nguyen**, Ngo Thi Chien (2018), Synthesis and luminescence property of dimeric Tb(III), Dy(III), Er(III) complexes based on benzoate and o-phenantroline ligans, *Vietnam Journal of Chemistry*, Vol. 56, No. 6E2, pp. 105-108.

22. Nguyen Thi Hien Lan, **Bui Duc Nguyen** (2019), Prepararion and investigation of dime benzoate complexes of some light rare earth elements, *Vietnam Journal of Chemistry*, Vol. 57, No. 4E1,2, pp. 168-171.

IV. Research Grants/ Projects

❖ **Ministry level**

1. Project name: Study on fabrication of doped-TiO_2 nanoparticles application as a highly active photocatalyst for the treatment of polluted organic matter in textile wastewater Code: ĐH2013-TN04-04, Finished 2015.

2. Project name: Study on fabrication of the multi-component metal sulfide nanoparticles and application as a highly active photocatalyst for the treatment of polluted organic matter in textile wastewater under visible light irradiation, Code: B2015-TN03-01, Finished 2017.

3. Project name: Synthesis of nanocomposites of multiwalled carbon nanotubes – supported semiconductor photocatalyst and their applications in degradation of organic pollutants.Code: B2020-TNA-12, on-going.

❖ **University level**

4. Project name: Using Macromedia Flash software to design some mechanisms of organic chemical reaction, CS.2007.01A. Finished 2007.

V. Published Books

1. Inogranic Chemistry II (2014), Education Publishing House, Viet Nam.

2. Chemistry of non-metallic elements (2018), Thai Nguyen University Publishing House, Viet Nam.

VI. Supervisor (Master)

No	Name, Project	Degree	Training organization	Guidance year	Graduation year
1.	Nguyen Hoang Hau, Project name: Preparation, characterization and photocatalytic activity of TiO_2 co-doped Cu, N nanoparticles for degradation of methyl orange.	Master	TNUE	2012	2013
2.	Nguyen Thi Thanh Mai, Project name: Preparation, characterization and photocatalytic activity of Ag_2O, CoO, La_2O_3 -loaded TiO_2 nanoparticles.	Master	TNUE	2013	2014

3.	Nguyen Van Anh, Project name: Preparation, characterization and photocatalytic activity of $AgIn_5S_8$ nanoparticles.	Master	TNUE	2014	2015
4.	Nguyen Đinh Cuong, Project name: Preparation, characterization and photocatalytic activity of $AgIn_5S_8$ nanoparticles for the treatment of polluted organic matter in textile wastewater.	Master	TNUE	2014	2015
5.	Nguyen Khac Đat, Project name: Preparation, characterization and photocatalytic activity of $CuInS_2$ nanoparticles for degradation of organic pollutants.	Master	TNUE	2014	2015
6.	Nguyen Van Hai, Project name: Preparation, characterization and photocatalytic activity of $AgInS_2/AgIn_5S_8$ nanocomposite.	Master	TNUE	2015	2017
7.	Nguyen Duc Thang, Project name: Preparation, characterization and photocatalytic activity of CuO, NiO nanoparticle - loaded TiO_2 nanotubes.	Master	TNUE	2015	2016
8.	Bui Van Ly, Project name: Preparation, characterization and photocatalytic activity of	Master	TNUE	2015	2016

	$AgIn_5S_8$ -loaded TiO_2 nanoparticles				
9.	Ngo Duy Hai Project name: Preparation, characterization and photocatalytic activity of $SrTiO_3$ nanoparticles	Master	TNUE	2016	2017
10.	Hau Van Huong, Đề tài: Preparation, characterization and photocatalytic activity of multiwalled carbon nanotubes – supported TiO_2 nanoparticles.	Master	TNUE	2016	2017
11.	Hoang Thi Linh, Project name: Preparation, characterization and photocatalytic activity of Ag_2O, CuO -loaded TiO_2 nanoparticles.	Master	TNUE	2017	2018
12.	Pham Trung Dung, Project name: Preparation, characterization and photocatalytic activity of Ag_2O, -loaded $SrTiO_3$ nanoparticles.	Master	TNUE	2019	2020
13.	Nguyen Thị Thu Duyen, Project name: Preparation, characterization and photocatalytic activity of TiO_2 nanoparticles loaded with NiO, CuO.	Master	TNUE	2019	2020
14.	Bui Van Hoang, Project name: Preparation, characterization and photocatalytic activity of	Master	TNUE	2019	2020

	TiO_2 nanoparticles loaded with CuO, Fe_2O_3				
15.	Bui Trong Minh, Project name: Preparation, characterization and photocatalytic activity of TiO_2 nanoparticles loaded with NiO, Fe_2O_3	Master	TNUE	2019	2020
16.	Ma Van Chien, Project name: Preparation, characterization and photocatalytic activity of multiwalled carbon nanotubes – supported $SrTiO_3$ nanoparticles	Master	TNUE	2020	-

VII. Honors and Awards

1. Certificate of Merit from the Director of Thai Nguyen University, Decision No. 962-QĐ/KT, August 29, 2012.

2. Certificate of Merit certificates from the Minister of Education and Training, Decision No. 5229/QĐ-BGDĐT, July 11, 2013.

3. Certificate of Merit certificates from the Minister of Education and Training, Decision No. 4205/QĐ-BGDĐT, October 7, 2015.

4. Awarded the ministerial-level emulation soldier, 2016 (Decision No. 5634/QĐ-BGDĐT, November 28, 2016, of the Minister of Education and Training).

Thai Nguyen, September 10, 2020

Bui Duc Nguyen