

SCIENTIFIC CURRICULUM VITAE



I. Personal Information

Name	DUONG THI TU ANH		
Gender	Female		
Date of birth	January 24, 1970		
Place of birth	Quang Minh Commune – Hiep Hoa District – Bac Giang Province		
Hometown	Quang Minh Commune – Hiep Hoa District – Bac Giang Province		
Position	Faculty of Chemistry, Thai Nguyen University of Education		
Degree	Doctor	Year 2012;	Major: Analytical Chemistry
Scientific title	Associate Professor	Accreditation year: 2018	
Teaching subjects	Fundamental theory of Analytical Chemistry, Quantitative Analytical Chemistry; Advanced Analytical Chemistry; Methods of modern Electrochemical Analysis; Environmental Chemistry and Environmental Analysis; Methods of Identification, Separation and Refined Substances.		
Research area	Electrochemical Analysis, Environmental Analysis.		
Foreign Language	English		
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II. Qualifications

- 1993: B.Sc in Chemistry in Education, Thai Nguyen University of Education.
- 1997: M.Sc in Inorganic Chemistry, Thai Nguyen University of Education.
- 2012: Ph.D in Analytical Chemistry, Institute of Chemistry - Vietnam Academy of Science and Technology.
- 2020: M.Sc in Political-administrative law, Ho Chi Minh National Academy of Politics and Public Administration

III. Scientific Publications

❖ Articles in international Journals

1. Loan T. T. Nguyen , Lan T. H. Nguyen, **Anh T. T. Duong**, Bui Duc Nguyen, Nguyen Quang Hai, Viet Ha Chu, Trinh Duy Nguyen and Long Giang Bach

- (2019), Preparation, Characterization and Photocatalytic Activity of La-Doped Zinc Oxide Nanoparticles, *Materials*, 12(8), 1195-
<https://doi.org/10.3390/ma12081195>
2. Nguyen Thi To Loan, Nguyen Thi Hien Lan, Nguyen Thi Thuy Hang, Nguyen Quang Hai, **Duong Thi Tu Anh**, Vu Thi Hau, Lam Van Tan and Thuan Van Tran (2019), "CoFe₂O₄ Nanomaterials: Effect of Annealing Temperature on Characterization, Magnetic, Photocatalytic, and Photo-Fenton Properties", *Processes* 12(08), 885; <https://doi.org/10.3390/pr7120885>.
 3. Thi Mai Viet Ngo, Thi Hoa Truong, Thi Hien Lan Nguyen, **Thi Tu Anh Duong**, Thi Hau Vu, Thi Thu Trang Nguyen, Tien Duc Pham (2020), Surface Modified Laterite Soil with an Anionic Surfactant for the Removal of a Cationic Dye (Crystal Violet) from an Aqueous Solution, *Water Air Soil Pollut* (2020) 231:285 <https://doi.org/10.1007/s11270-020-04647-2>.

❖ **Articles in national Journals**

1. Nguyen Trong Uyen, Dao Van Chung, Le Huu Thieng, **Duong Thi Tu Anh** (1997), Complexation of Europi and Dysprozi with L-Glutamic acid in solution by pH measurement titration., *Journal of Analytical Sciences*, Vol. 2, No. 3, pp. 17-19.
2. Trinh Xuan Gian, **Duong Thi Tu Anh** và CCS (2008), Investigation on electronalytical chemical methods for trace metal speciation in natural sea water , *Journal of Analytical Sciences* , Vol.13, No.3, pp. 82-86.
3. **Duong Thi Tu Anh**, Trinh Xuan Gian (2009), Research on simultaneous determination of trace amounts of Cd (II), Pb (II), Cu (II) by the anodic stripping Von-ammetry method, *Journal of Science and Technology*, Thai Nguyen University, Vol. 49, No.1, pp. 42-46.
4. **Duong Thi Tu Anh**, Trinh Xuan Gian, Tong Thị Thanh Thuy (2009), Research on the simultaneous determination of trace concentrations of As (III) and Hg (II) by the anodic stripping Von-ammetry method using gold-film electrodes, *Journal of Analytical Sciences*. Vol. 14, No. 4, pp. 44 – 48, 60.
5. **Duong Thi Tu Anh**, Mai Xuân Trường, Vu Van Nhung (2010), Simultaneous determination of trace concentrations of Cd (II), Pb (II) and Cu (II) in some soil samples in Thai Nguyen City by anodic stripping Von-ammetry method, *Journal of Science and Technology*, Thai Nguyen University, Vol. 65, No. 3, pp.105 - 109.
6. **Duong Thi Tu Anh**, Trinh Xuan Gian, Tong Thị Thanh Thuy (2010), Research on speciation of some chemical speciess of chromium in natural water by stripping Von-ammetry method, *Journal of Analytical Sciences*, Vol. 15, No. 4, pp. 11-16.

7. Cao Van Hoang, Nguyễn Thị Liễu, **Duong Thi Tu Anh**, Trinh Xuan Gian, Trinh Anh Duc, Tu Vong Nghi, Nguyen Van Hop, Bui Tuan Minh (2010), Determination of ultratrace lead in natural waters by anodic stripping vonammetry, using a modified nano carbon paste electrode, Journal of Analytical Sciences, Vol. 15, No.4, pp. 75-81.
8. Vu Duc Loi, **Duong Thi Tu Anh**, Nguyen Thanh Nga, Trinh Anh Duc, Pham Gia Mon, Trinh Hong Quan, Duong Tuan Hung, Tran Thi Le Chi (2010), Speciation of heavy metals in sediments of Nhue and Day river basin, Journal of Analytical Sciences, Vol. 15, No. 4, pp. 26-33.
9. Vu Duc Loi, **Duong Thi Tu Anh**, Trinh Anh Duc, Pham Gia Mon, Trinh Hong Quan, Trinh Thu Ha (2010), Speciation of chromium in sediments of Nhue and Day river basin, Journal of Analytical Sciences, Vol.15, No. 4, pp. 34-40.
10. **Duong Thi Tu Anh**, Trinh Xuan Gian, Cao Van Hoang, Vu Duc Loi (2010), Research to determine speciations of lead in natural water by anodic stripping vonammetry method, Vietnam Journal of Chemistry, Vol. 48, No. 4C, pp. 496-502.
11. Cao Van Hoang, **Duong Thi Tu Anh**, Trinh Xuan Gian, Trinh Anh Duc, Tu Vong Nghi, Cao Thế Hà, Nguyen Van Hop, Nguyen Thi Lieu, (2010), Research on the simultaneous determination of the trace levels of In, Cd, and Pb by anodic stripping vonammetry method with the bitmut film on carbon nano-paste electrode, Vietnam Journal of Chemistry – *Tập 48, số 4C*, trang 479-484.
12. Cao Van Hoang, **Duong Thi Tu Anh**, Trinh Xuan Gian, Trinh Anh Duc, Tong Thi Thanh Thuy, Tu Vong Nghi, Nguyen Van Hop (2010), Study on the development of a nano carbon paste electrode plated with bismuth film electrode for trace In and Pb determination by anodic stripping vonammetry, Vietnam Journal of Chemistry, Vol. 48, No. 4C, pp. 437-441.
13. Trinh Xuan Gian, Le Duc Liem, **Duong Thi Tu Anh**, Vu Duc Loi, Trinh Hong Quan (2011), “ Investigation on electrochemical methods for trace metal speciation in natural seawater samples, Journal of Science and Technology, Vietnam Academy of Science and Technology, Vol. 49, No. 3A, trang 329-334.
14. **Duong Thi Tu Anh**, Cao Van Hoang, Le Thu May (2011), Research on speciation of some chemical species of chromium in natural water by catalytic adsorptive stripping vonammetry in Thai Nguyen region”, Journal of Science and Technology, Thai Nguyen University, *Tập 86, số 10*, trang 101 - 106.
15. **Duong Thi Tu Anh**, Cao Van Hoang, Trần Thị Khánh Hòa (2011), Simultaneous determination of trace amounts of cadmium, lead, and copper in

- sediments samples the Cau river valley of Thai Nguyen city”, Journal of Science and Technology, Thai Nguyen University, Vol.86, No. 10, pp. 133 - 138.
16. Cao Van Hoang, Trinh Xuan Gian, Dinh Thi Truong Giang, **Duong Thi Tu Anh** (2011), Determination of trace metals by anodic stripping voltammetry using a bismuth-modified nano silver and carbon nanotube electrode, Journal of Science and Technology, Vietnam Academy of Science and Technology, Vol.49, No. 3A, pp.125-133.
 17. **Duong Thi Tu Anh**, Cao Van Hoang (2012), Research optimal conditions for simultaneous determination of trace Zn (II), Cd (II), Pb (II) and Cu (II) by anodic stripping voltammetry method, Journal of Science and Technology, Thai Nguyen University, Vol. 100, No. 12, pp. 117-122.
 18. **Duong Thi Tu Anh**, Cao Van Hoang (2013), Simultaneous determination of trace concentrations Zn (II), Cd (II), Pb (II) and Cu (II) in sediments of Cau River basin-Thai Nguyen city, Vietnam Journal of Science and Technology, Science and Technology MOET, No.8, (651), pp 57-60.
 19. **Duong Thi Tu Anh**, Cao Van Hoang, Trinh Xuan Gian (2013), Research on optimal conditions to determine some forms of Pb existence in natural water by dissolving Von-Ampe method, Vietnam Journal of Chemistry tập 51, số 3AB, tr 142-148.
 20. Cao Van Hoang, **Duong Thi Tu Anh**, Trinh Xuan Gian (2013), “The simultaneous determination of Indium (III), Lead (II) and Cadmium (II) by anodic stripping voltammetry using Bismut film electrode on the support of nano-silver and carbon nano tubes”, Vietnam Journal of Chemistry, Vol. 51, No. 3AB, pp. 524-529.
 21. **Duong Thi Tu Anh** (2014), Determination speciation of heavy metals in sediment under the Cau river basin”, Journal of Analytical Sciences, Vol.19, No. 4, pp. 44-50.
 22. Do Tra Huong, **Duong Thi Tu Anh** (2014), Fabrication adsorption magnetic nanoparticle impregnated on to tea waste, Journal of Analytical Sciences, Vol. 19, No.3, pp.79-85.
 23. Cao Van Hoang, **Duong Thi Tu Anh** (2015), Study on determination of zinc trace by stripping voltammetry with the bismuth film on paste nano carbon electrode, Journal of Analytical Sciences, Vol. 20, No. 3, pp. 252-257.
 24. Tran Dinh Khai, Cao Van Hoang, **Duong Thi Tu Anh** (2015), Study on the simultaneous determination of cytidine 5'-monophosphate disodium and uridine 5'-monophosphate disodium in the lyophilized injection by high-performance liquid chromatography (HPLC) method, Journal of Analytical Sciences, Vol.20, No. 3, pp.258-267.

25. **Duong Thi Tu Anh**, Nguyen Manh Hung, Cao Van Hoang (2015), Study on the distribution of heavy metals in sediment under Cau river basin”, Journal of Analytical Sciences, Vol. 20, No. 4, pp. 36-43.
26. **Duong Thi Tu Anh**, Cao Van Hoang (2015), Research and determination optimal conditions trace levels vitamin C by the anod stripping vonammetry method, Journal of Analytical Sciences, Vol. 20, No. 4, pp. 67-73.
27. Cao Van Hoang, **Duong Thi Tu Anh** (2015), Study on the simultaneous determination of ultra trace levels copper and cadmium in tea samples by stripping vonammetry, using modified carbon nanotubes paste electrode, Journal of Analytical Sciences, Vol. 20, No. 4, pp. 311-316.
28. **Duong Thi Tu Anh**, Cao Van Hoang (2016), Research and determination optimal condition trace leaves vitamin C in leaf moringa oleifera by anod stripping vonammetry method, Journal of Analytical Sciences, Vol. 21, No. 2, pp.10-18.
29. **Duong Thi Tu Anh**, Cao Van Hoang (2016), Research manufacture of modified nano carbon electrodes, determine application trace levels of lead in some natural water samples, Journal of Analytical Sciences, Vol. 21, No.3, pp. 149-160.
30. **Duong Thi Tu Anh**, Le Thi Phuong, Nghiem Thi Huong (2016), Study on the distribution of trace levels of Zn, Cd, Pb and Cu in sediments of Cau river basin - Southern area of Thai Nguyen city”, Journal of Science and Technology, Thai Nguyen University, Vol. 157, No. 12/1, pp.155-159.
31. **Duong Thi Tu Anh**, Ta Thi Thao (2017), Study on the distribution of the bonding speciation of Zn, Cd, Pb and Cu in sediments in Lo river basin-Tuyen Quang city area, Vietnam Journal of Chemistry, Vol. 55(5E1,2), pp. 38-43.
32. **Duong Thi Tu Anh**, Nityakone Khrinyayer, Ngo Thi Mai Viet, Le Thi Phuong (2018), Study on the simultaneous determination of ultra trace levels of zincat, cadmium, lead and copper in tea samples by stripping voltammetry method, using modified carbon nanotubes paste electrode, Journal of Analytical Sciences, Vol. 23, No. 2, pp.76-83.
33. **Duong Thi Tu Anh**, Ngo Thi Mai Viet, Lavanh Sitthilath, Vu Thi Hai Yen (2019), Study on the simultaneous determination of ultra trace levels of zincat, cadmium, lead and copper in some soil and vegetable samples by stripping voltammetry method, using modified carbon nanotubes paste electrode, Journal of Analytical Sciences, Vol. 24, No. 2, pp. 95-102.
34. Nguyen Thi Hien Lan, Hoang Hai Van, **Duong Thi Tu Anh** (2019), Synthesis, properties of mixed ligands complexes of benzoate and 2,2'-dipyridyl n,n'-dioxide

- with some light rare earth elements, Vietnam Journal of Chemistry, Vol. 57, No. 2e1,2, pp. 58-62.
35. Nguyen Thi Hien Lan, Nguyen Thi To Loan, **Duong Thi Tu Anh** (2019), Prepararion, investigation into mass spectra and luminescence of acetylsalicylate complexes of some light rare earth elements, Journal of Analytical Sciences, Vol. 24, No. 4, pp. 154-159.
 36. Ngo Thi Mai Viet, **Duong Thi Tu Anh** (2020), Removal of cationic dyes methylene blue and crystal violet from aqueous solution using anionic surfactant modified laterite soil, Journal of Analytical Sciences, Vol. 25, No. 1, pp. 12-19.
 37. Nguyen Thi Hien Lan, **Duong Thi Tu Anh**, Tran Nhu Quynh (2020), Synthesis, properties of mixed ligands complexes of acetylsalicylic and 2,2'-dipyridyl N,N'-dioxide with some heavy rare earth elements, Journal of Analytical Sciences, Vol. 25, No. 2, pp. 1-6.
 38. Ngo Thi Mai Viet, **Duong Thi Tu Anh** (2020), Study on adsorption capacity of some heavy metal ions on natural laterite and natural apatite ore, Journal of Analytical, Vol. 25, No. 2, pp. 14-22.
 39. Do Tra Huong, **Duong Thi Tu Anh**, Ta Thi Quynh, Nghiem Thi Huong (2020), Preparation of activated carbon from moringa oleifera seed pod and its applications for adsorption of methylene blue from aqueous solution, Journal of Analytical Sciences, Vol. 25, No.2, pp. 171-176.
 40. **Duong Thi Tu Anh**, Pham Thanh Tung, Doan Manh Cuong (2020), Simultaneous identification of aspartame and saccharin in some daily beverages by using high performance liquid chromatography method, Journal of Analytical Sciences, Vol. 25, No. 2, pp.207 – 213.

IV. Research Grants/ Projects

❖ Ministry level

1. Project name: "*Simultaneous determination trace amounts of heavy metals in natural water using modern analytical methods* ", Funding institution: MOET, B2007-TN-04-05. Accepted in 2008 - good grade.
2. Project name: "*Analysis determines the form of heavy metals Zn, Cd, Pb and Cu in sediments of the Cau river basin* ", Funding institution: Thai Nguyen University, ĐH2014-TN04-09. Accepted in 2017 – good grade.

❖ University level

1. Project name: "*Investigate the biological activity of $HEu(Glu)_2 \cdot 3H_2O$ complex on the development of green bean germ*", Funding institution: Thai Nguyen University of Education, Accepted in 1999 - good grade.

V. Published Books

1. Tool analysis methods (2014), Education Publishing House, Vietnam.
2. Analytical Chemistry Experiment (2014), Education Publishing House, Vietnam.
3. Chemistry with life I (2018), Thai Nguyen University Publishing House, Vietnam.

VI. Supervisor (Master)

No	Name	Degree	Training organization	Guidance year	Graduation year
1	Pham Tuan Nghia	Master	Thai Nguyen University	2013	2014
2	Chu Thi Oanh	Master	Thai Nguyen University	2013	2014
3	Nguyen Manh Hung	Master	Thai Nguyen University	2014	2015
4	Vu Thị Giang	Master	Thai Nguyen University	2014	2015
5	Vu Duy Hung	Master	Thai Nguyen University	2015	2016
6	Nguyen Thi Hoa	Master	Thai Nguyen University	2015	2016
7	NityakoneKhrinyayer	Master	Thai Nguyen University	2015	2016
8	Sengaloun Khamsing	Master	Thai Nguyen University	2016	2017
9	Pham Thi Thao	Master	Thai Nguyen University	2016	2017
10	Hoang Thi Dien	Master	Thai Nguyen University	2016	2017

11	La vanh Sithilath	Master	Thai Nguyen University	2017	2018
12	Dao Bach Diep	Master	Thai Nguyen University	2017	2018
13	Le Thu May	Master	Thai Nguyen University	2019	2020
14	Pham Thanh Tung	Master	Thai Nguyen University	2019	2020
15	Dao Thi Mai Giang	Master	Thai Nguyen University	2019	2020

VII. Honors and Awards

+ 01 awarded the ministerial-level emulation soldier, 2018 (Decision No. 1616/QĐ-BGDĐT, April 23, 2018, of the Minister of Education and Training).

+ 01 merit certificates from the Minister of Education and Training 2013 (Decision No. 5229/QĐ/BGDĐT, November 07, 2013 of the Minister of Education and Training).

Thai Nguyen, September 10, 2020

Duong Thi Tu Anh