

SCIENTIFIC CURRICULUM VITAE



I. Personal Information

Name	NHUONG CHU MANH		
Gender	Male		
Date of birth	October 25, 1983		
Place of birth	Vinh Khuc Commune - Van Giang District - Hung Yen Province		
Homeland	Vinh Khuc Commune - Van Giang District - Hung Yen Province		
Position	Lecturer of Chemistry Department of Thai Nguyen University of Education		
Degree	Doctor	Year: 2015	Major: Analytical Chemistry
Scientific title	Main Lecturer	Accreditation year: 2020	
Teaching subjects	Analytical Chemistry, Applied Chemistry, Data Processing by Statistical Mathematics.		
Research area	Analytical Chemistry, Applied Chemistry, Chromatography Methods, Data Processing by Statistical Mathematics for Chemistry.		
Foreign Language	English.		
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II. Education

- 2005: B.Sc in Chemistry in Education, Thai Nguyen University of Education.
- 2007: M.Sc in Analytical Chemistry, Thai Nguyen University of Education.
- 2015: Ph.D in Analytical Chemistry at Viet Nam Atomic Energy Institute (VINATOM).

III. Scientific Publications

❖ Articles on International Journals:

1. **Chu Manh Nhuong**, Nguyen Thi Hien Lan, Nguyen Dat Son, Mai Xuan Truong (2017), Investigation of direct determination of many impurities in high purity $ZrCl_4$ material and after separation of the matrix Zr using solvent extraction using

- 2-Ethyl hexyl phosphonic acid mono 2-Ethyl hexyl ester (PC88A) by ICP-MS, *International journal of advanced research*, Vol 5. Issue 12. pp: 1401-1409. 1.
2. **Chu Manh Nhung**, Nguyen Thi Hien Lan, Mai Xuan Truong (2018), Determination of Impurities in High Purity ZrCl_4 Material by ICP-MS after Separation of the Matrix using D2EHPA and ZrO_2 Nanostructure Product, *Journal of Applicable Chemistry* (JOAC), 7(3), pp. 587-593.
 3. **Manh Nhung Chu**, Lan T. H. Nguyen, Xuan Truong Mai, Doan Van Thuan, Long Giang Bach, Duy Chinh Nguyen, Duc Cuong Nguyen (2018), Nano ZrO_2 Synthesis by Extraction of Zr(IV) from $\text{ZrO}(\text{NO}_3)_2$ by PC88A, and Determination of Extraction Impurities by ICP-MS, *Journal of Metals*, Volume 8, Issue 10, October 2018, 851; doi:10.3390/met8100851.
 4. 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*, Volume 2019, Article ID 3428681, 8 pages, <https://doi.org/10.1155/2019/3428681>, SCIE, IF = 1,726, Print - ISSN: 2090-9063; Online- ISSN: 2090-9071.
 5. T.H.T. Nguyen, T.T.U. Dao, G.V. Pham, T.S. Do, T.T.L. Nguyen, T.H.L. Nguyen, **M. N. Chu** and D. Nguyen Quoc, N.A Tien, "Effect of pH on the adsorption behaviour of Congo Red Dye on the MgAl layered double hydroxide", *IOP Conference Series: Materials Science and Engineering* **736** (2020) 022077; 8 pages; <https://doi.org/10.1088/1757-899X/736/2/022077>; Scopus IF = 4,081.

❖ Articles on Domestic Journals

1. Le Ba Thuan, Nguyen Xuan Chien, **Chu Manh Nhung** (2014), Separation of zirconium from impurities by Di-2-Ethylhexylphosphoric acid for determination of them by ICP-MS, *Journal of Analytical Sciences*, Vol. 19, No. 4, pp: 71-78 (ISSN 0868-3224).
2. Le Ba Thuan, Nguyen Xuan Chien, **Chu Manh Nhung** (2014), Determination of impurities by ICP-MS after separation of zirconium matrix from by solvent extraction with 2-Ethylhexylphosphonic acid mono 2-ethylhexyl ester, *Journal of Analytical Sciences*, Vol. 19, No. 4, pp: 79-85 (ISSN 0868-3224).
3. **Chu Manh Nhung** (2015), Separation of zirconium(IV) from impurities with Tributylphosphate for determination of them by ICP-MS, *Journal of Analytical Sciences*, Vol. 20, No. 3, pp: 200-207 (ISSN 0868-3224).

4. **Chu Manh Nhung**, Le Ba Thuan, Nguyen Xuan Chien (2015), Separation of Zirconium from impurities in HNO_3 by solvent extraction with TBP, D2EHPA, PC88A for determination of them by ICP-MS, *Viet Nam Journal of Chemistry*, Vol. 53, No. 3e(1,2), pp: 340-345 (ISSN 0866 -7144).

5. Nguyen Thi Anh Tuyet, **Chu Manh Nhung** (2016), Solvent extraction of Zr(IV) in sunfuric acid media by high amin Cetyl Trimetyl Amoni Bromua/ CCl_4 , *Journal of Science and Technology Thai Nguyen University*, Vol. 157, No. 12/1, pp: 35-40.

6. **Manh Nhung Chu**, Thi Mai Phuong Nguyen, Van Trung Nguyen (2017), Determination of impurities by ICP-MS after separating them from the Zr(IV) matrix by solvent extraction with TBP/Toluene, *Journal of Science and Technology Viet Nam*, Vol. 20, No. 9B, pp: 1-5.

7. **Chu Manh Nhung**, Nguyen Quang Bac (2017), Detemination of rare earths impurities in high purity ZrOCl_2 by ICP-MS after separation of the zr matrix by solvent extraction with D2EHPA/Toluene/ HNO_3 , *Viet Nam Journal of Chemistry*, Vol. 55, No. 3e(1,2), pp: 278-283 (ISSN 0866 -7144).

8. Nguyen Thi Anh Tuyet, **Chu Manh Nhung** (2018), Determination of impurities after separation of the Zr matrix by solvent extraction with PC88A-PTL and purity ZrO_2 nanometer, *Journal of Science and Technology Thai Nguyen University*, Vol. 188, No. 12/2, pp: 43-50.

9. **Chu Manh Nhung** (2018), Determination of impurities in high purity ZrO_2 by ICP-MS after separation of the Zr matrix by solvent extraction with TBP/toluene/ HNO_3 and nano- ZrO_2 product, *Viet Nam Journal of Chemistry*, Vol. 56, No. 3e(1,2), pp: 21-26 (ISSN 0866 -7144).

10. **Chu Manh Nhung**, Mai Xuan Truong (2019), Extraction, separation and purification of nano-sized zirconia from nitrate medium using D2EHPA, *Viet Nam Journal of Chemistry*, Vol. 57, No. 4e(1,2), pp: 335-339 (ISSN 0866 -7144).

11. **Chu Manh Nhung**, Nguyen Trung Kien, Tran Quoc Toan (2019), Analysis of impurities in high purity ZrCl_4 by ICP-MS after separation of the Zr/ HNO_3 matrix by solvent extraction with D2EHPA/Xylene and purity nano- ZrO_2 , *Viet Nam Journal of Chemistry*, Vol. 57, No. 2e(1,2), pp: 170-174 (ISSN 0866 -7144).

12. **Chu Manh Nhung**, Nguyen Thi Anh Tuyet, Nguyen Van Que (2020), Liquid-liquid extration of Zirconium (IV) using high amine CTBA/n-hexan from sunfuric acid media, *TNU Journal of Science and Technology*, Vol. 225, No.06, pp:

243-248.

13. **Chu Manh Nhung**, Pham Van Huan, Nguyen Thi Minh Tam, Ly Thi Van, Bui Van Ly (2020), Synthesis of nanocomposite ZrO_2/ZnO and ZrO_2/CuO doped Ce^{4+} applications in photocatalytic, *TNU Journal of Science and Technology*, Vol. 225, No.06, pp: 375-380.

14. Do Tra Huong, **Chu Manh Nhung**, Le Thi Phuong (2020), Equilibrium, kinetic and thermodynamic studies for adsorption of phosphate from aqueous solution using nanopararticles ZnO , *Journal of Analytical Sciences*, Vol. 25, No. 2, pp: 162-167 (ISSN 0868-3224).

❖ **International conference:**

1. Le Ba Thuan, Nguyen Xuan Chien, **Chu Manh Nhung** (2014), “Separation of zirconium from impurities in HNO_3 by solvent extraction with tbp , D2EHPA , PC88A for determination of them by ICP-MS”, *Viet Nam - Malaysia International Chemical Conference (VMICC)*, from 7th to 9th November 2014 in Hanoi, Vietnam.

2. **Manh-Nhung Chu**, Hien-Lan T. Nguyen, Xuan-Truong Mai (2018), “Determination of impurities in high purity ZrO_2 by ICP-MS after separation by solvent extraction with 2-ethylhexyl phosphonic acid mono 2-ethylhexyl ester (PC88A) and adsorption of colorants by ZrO_2 nanostructure”, *Multi-scale Modelling of Materials for Sustainable Development* (ACCMS-TM 2018) to be held within the period from 7th to 9th September 2018 in Hanoi, Vietnam.

❖ **Domestic conferences**

1. **Chu Manh Nhung**, Le Ba Thuan, Nguyen Xuan Chien (2014), “Separation of Zirconium from other elements in HCl acid with potassium, ammonium salts using solvent extraction by $\text{PC88A}/n\text{-hexane}$ for determination them by ICP-MS”, *The 4th Scientific Workshop for Young Researchers in Pedagogic Universities*, ISBN 9786045417102, pp: 545-553.

2. **Chu Manh Nhung**, Nguyen Thanh Nga (2016), “Solvent Extraction of Zr(IV) from HNO_3 media by Cyanex 272 extractant”, *The 6th Scientific Workshop for Young Researchers in Pedagogic Universities*, pp: 962 - 970.

3. **Chu Manh Nhung**, Tran Quoc Toan, Nguyen Dat Son (2018), Determination of impurities by ICP-MS after extracting the Zr (IV) substrate by solvent extraction with PC88A -toluene, *The 7th Scientific Workshop for Young Researchers in Pedagogic Universities*, pp: 56-62.

4. **Chu Manh Nhuong**, Duong Ngoc Toan, Nguyen Thi Minh Hong, Nguyen Trung Kien (2018), Separation of the Zr(IV) matrix by solvent extraction with PC88A-PTL to determine impurities and purify ZrO₂ nanometer, *The 7th Scientific Workshop for Young Researchers in Pedagogic Universities*, pp: 63-71.

5. Pham Van Huan, Nguyen Dac Thong, Bui Thi Hue, **Chu Manh Nhuong**, Bui Thi Hoan, Nguyen Viet Tung, Cao Xuan Thang, Pham Hung Vuong (2019), Effect of the concentration of Li⁺, Ca²⁺, Al³⁺ on the luminescent properties of ZrO₂ nanoparticles, The 10th National Conference of Solid Physics and Materials Science (SPMS 2019), Vol. 2, pp: 654-658, ISBN: 978-604-98-7506-9.

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

❖ Ministry level

❖ University level: 02

1. Thai Nguyen University of Science and Technology: *"Determination of some impurities in grade Zirconium after separation of the matrix by liquid - liquid method"*. Code: DH2011-04-12. Accepted in December 23, 2012 - Excellent grade.

2. Thai Nguyen University of Science and Technology: *"Establish procedure determination of impurities in high purity zirconium materials by ICP-MS method"*. Code: DH2016-TN04-05. Accepted in December 21, 2018 - Excellent grade.

V. Published Books

1. **Chu Manh Nhuong** (2019), Quantitative Analysis (for E_Learning), 222 pages, Learning Resources Center - Thai Nguyen University ([http://lrc.tnu.edu.vn/dhsp/M3-Phantichdinhluong/Fulltext/BAI GIANG CHI TIET HOC PHAN.pdf](http://lrc.tnu.edu.vn/dhsp/M3-Phantichdinhluong/Fulltext/BAI%20GIANG%20CHI%20TIET%20HOC%20PHAN.pdf)).

2. Hoang Thi Chien, Tran Quoc Toan, **Chu Manh Nhuong**, Nguyen Quoc Dung (2019), History of Chemistry (Reference book), ISBN 978-604-915-828-5, Code: 04-104/ĐHTN-2019, 234 pages, Thai Nguyen University Publishing House.

3. **Chu Manh Nhuong** (2020), Quantitative Analytical Chemistry Problems, ISBN 978-604-915-907-7, Code: 01-54/ĐHTN-2020, 196 pages, Thai Nguyen University Publishing House.

VI. Supervisor (Master)

No	Name	Degree	Training organization	Guidance year	Graduation year
1	Phuong Nguyen Thi Mai	Master	Thai Nguyen University of Education	2017	2018
2	Kien Nguyen Trung	Master	Thai Nguyen	2018	2019

			University of Education		
3	Van Ly Thi	Master	Thai Nguyen University of Education	2019	2020
4	Tam Nguyen Thi Minh	Master	Thai Nguyen University of Education	2019	2020
5	Thao Vu Thi	Master	Thai Nguyen University of Education	2018	2020

VII. Honors and Awards

- ❖ 01 merit certificate from the Minister of Education and Training, 2019 (Decision No. 4494/QĐ-BGDĐT, November 19, 2019 of the Minister of Education and Training).
- ❖ 01 merit certificate from the Director of Thai Nguyen University, 2011 (Decision No. 1258/QĐ-KT, November 04, 2011 of the Director of TNU).
- ❖ 01 merit certificate from the Director of Thai Nguyen University, 2013 (Decision No. 630/QĐ-KT, June 15, 2013 of the Director of TNU).
- ❖ 01 merit certificate from the Director of Thai Nguyen University, 2018 (Decision No. 1860/QĐ-KT, August 20, 2018 of the Director of TNU).
- ❖ 01 merit certificate from the Rector of Thai Nguyen University of Education, 2019 (Decision No. 4680/QĐ-ĐHSP, September 6, 2019 of the Rector of TNUE).

Thai Nguyen, September 14, 2020

Chu Manh Nhung