Curriculum Vitae

Name: **VU Thi Ngan**
Gender: Female
Date of birth: 14-01-1981
Place of birth: Nghe An - Vietnam
Civil Status: Married
Nationality: Vietnamese
Languages: Vietnamese (mother tongue)
English (fluent), Dutch (basic)

Work Address:
Laboratory of Computational Chemistry and Modelling (LCCM)
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Education:

10.2006 – 8.2011: PhD student in Quantum Chemistry
Division of Quantum Chemistry and Physical Chemistry,
Department of Chemistry, KU Leuven, Belgium
Supervisor: Prof. Dr. Minh Tho NGUYEN

09.2002 – 10.2004: Master in Physical and Theoretical Chemistry
Hanoi National University of Education, Hanoi, Vietnam

09.1998 – 07.2002: Bachelor in Chemistry
Hanoi National University of Education, Hanoi, Vietnam

Work Experience:

07.2019-present: Head, Department of Chemistry,
Faculty of Natural Sciences, Quy Nhon University

01.2018-06.2019: Chair, Division of Physical and General Chemistry
Department of Chemistry, Quy Nhon University

11.2016 – present: Associate professor in Chemistry, Quy Nhon University

12.2012 – 11.2016: Lecturer
Department of Chemistry, Quy Nhon University

09.2011 – 09.2012: Postdoctoral Fellow
Division of Quantum Chemistry and Physical Chemistry,
Department of Chemistry, KU Leuven, Belgium

11.2004 – 09.2006: Lecturer, Department of Chemistry,
Hanoi National University of Education, Hanoi, Vietnam

Publications: More than 30 articles in international peer-reviewed journals with some typical as follows:

1. Insight into chemical bonding of the transition metal-doped cluster Ge_2M (M = Sc–Zn) series using NBO and NRT theory, Nguyen Duc Minh, Chau Hung Cuong, Nguyen Tien Trung, **Vu Thi Ngan,** *Theoretical Chemistry Accounts*, 137, 131 (**2018**).
2. Electron Counting Rules for Transition Metal-Doped Si_{12} Clusters, Nguyen Duy Phi, Nguyen Tien Trung, Ewald Janssens, **Vu Thi Ngan,** *Chemical Physics Letters*, *643*, 103-108 (**2016**).

3. Nature of the interaction between rare gas atoms and transition metal doped silicon clusters: the role of shielding effects, **Vu Thi Ngan**, E. Janssens, P. Claes, A. Fielicke, M. T. Nguyen and P. Lievens, *Physical Chemistry Chemical Physics 17*, 17584-17591 (**2015**).
4. $MnSi_{14}^{+}$: A Singlet Fullerene-like Endohedrally Doped Silicon Cluster, **Vu Thi Ngan**, K. Pierloot, M. T. Nguyen, *Physical Chemistry Chemical Physics*, 15, 5493 (**2013**).
5. High Magnetic Moments in Manganese Doped Silicon Clusters, **Vu Thi Ngan**, E. Janssens, P. Claes, J. T. Lyon, A. Fielicke, M. T. Nguyen and P. Lievens, *Chemistry - a European Journal*, 49, 15788-15793 (**2012**).
6. Disparate Effects of Cu and V on Structures of Exohedral Transition Metal-Doped Silicon Clusters: A Combined Far-Infrared Spectroscopic and Computational Study, **Vu Thi Ngan**, P. Gruene, P. Claes, E. Janssesns, A. Fielicke, M. T. Nguyen, P. Lievens, *Journal of the American Chemical Society 132*, 15589 (**2010**).
7. Aromatic 8-electron Cubic Silicon Clusters $Be@Si_8$, $B@Si_8$+ and $C@Si_8^{2+}$, **Vu Thi Ngan**, M. T. Nguyen, *Journal of Physical Chemistry A. 114, 7609-7615* (**2010**).
8. Experimental Detection and Theoretical Characterization of Germanium-Doped Lithium Clusters Li_nGe (n = 1-7), **Vu Thi Ngan**, J. De Haeck, H. T. Le, G. Gopakumar, P. Lievens and M. T. Nguyen, *The Journal of Physical Chemistry A 113, 9080-9091* (**2009**).

Projects:

2016-2019: Studying effects of cluster size and dopant on the geometrical structures, stabilities and electronic properties of the 3d transition metal doped germanium clusters using quantum chemical methods
Funded by National Foundation for Science and Technology Development (NAFOSTED) of Vietnam; Research team includes 6 members; Role: Principal Investigator

2017-2019: A thorough study on complexes formed by interactions of some functional organic compounds with carbon dioxide and water by quantum chemical methods
Funded by NAFOSTED; Research team includes 6 members. Role: Key Researcher

2015-2017: A Comparative Study on Stability and Origin of the Hydrogen Bond C-H···Y (Y = O, N, pi) by quantum chemical methods
Funded by NAFOSTED; Research team includes 6 members; Role: Key Researcher

2014-2016: Theoretical study of some transition metal doped silicon clusters: growth mechanisms and chemical bonding
Funded by NAFOSTED; Role: Principal Investigator

2016-2020: Reinforcing the capabilities of Quy Nhon University-Vietnam in solving local problems by building up a doctoral training program
Funded by VLIR-UOS under TEAM project; Role: Key Member

2019-2021: Research-based curriculum development in molecular and materials sciences in Vietnam (7 partners: 3 European universitiies (KU Leuven, University of Rostock and University of Twente) and 4 Vietnamese universities (Hanoi University of Education, University of Education-The Da Nang University, Quy Nhon University and Can Tho University)
Funded by the Erasmus+ programme of the European Union; Role: Local Project Manager (website: https://momavietnam.com/)

Supervision: supervised 12 master students; are supervising 4 master students and 2 PhD students.