

CURRICULUM VITAE

Tran Thi Minh Thu

Current position

Lecturer, Faculty of Materials Science and Technology, University of Science, Vietnam National University, Ho Chi Minh City, Vietnam.

Post-doc

Lodz University of Technology, Lodz, Poland, 2021-2022.

Education

PhD: Engineering Physics, Faculty of Applied Science, University of Technology, Vietnam National University, Ho Chi Minh City, Vietnam, 2015-2020.

Master: Physical Electronics, Faculty of Physics, University of Science, Vietnam National University, Ho Chi Minh City, Vietnam, 2008-2010.

Bachelor: Computational Physics, Faculty of Physics, University of Science, Vietnam National University, Ho Chi Minh City, Vietnam, 2002-2006.

Contact:

Email: ttmthu@hcmus.edu.vn,

Mobile: +84 983 432 567

Implementation achievements

Fellowships: Odon Vallet scholarship for graduated student, 2019.

Honors: PhD student having good publications, Third prize, Vietnam National University, 2019.

List of Publications

1. Nguyen Hoang Linh, **Tran Thi Minh Thu**, Phan Minh Truong, Pham Dang Lan, Man Hoang Viet, Phuong H. Nguyen, T. Ly Anh, Y-C. Chen, and Mai Suan Li, A β 41 Aggregates More Like A β 40 Than Like A β 42: In silico and in vitro Study, *J. Phys. Chem. B*, 120, 7371-7379, 2016.

2. Nguyen Hoang Linh*, **Tran Thi Minh Thu***, Ly Anh Tu, C-K Hu, and Mai Suan Li, Impact of mutations at C-Terminus on structures and dynamics of A β 40 and A β 42: Molecular simulation study, *J. Phys. Chem. B*, 121, 4341-4354, 2017. (*Contribute equally)

3. **Tran Thi Minh Thu**, Nguyen Truong Co, Ly Anh Tu, and Mai Suan Li, Aggregation rate of amyloid beta peptide is controlled by beta-content in monomeric state, *J. Chem. Phys.* 2019, 150, 225101.

4. **Tran Thi Minh Thu***, Shu-Hsiang Huang*, Ly Anh Tu, Shang-Ting Fang, Mai Suan Li, Yi-Cheng Chen, G37V mutation of A β 42 induces a nontoxic ellipse-like aggregate: an in vitro and in silico study, *Neurochemistry International*. 2019, 129, 104512. (*Contribute equally)

5. Adolfo B. Poma*, **Tran Thi Minh Thu***, Lam Tang Minh Tri, Hoang Linh Nguyen, and Mai Suan Li, Nanomechanical Stability of A β Tetramers and Fibril-like Structures: Molecular Dynamics Simulations , J. Phys. Chem. B 2021, 125, 28, 7628–7637.
6. **Tran Thi Minh Thu**, Rodrigo A. Moreira, Stefan A. L. Weber and Adolfo B. Poma, Molecular Insight into the Self-Assembly Process of Cellulose I β Microfibril, Int. J. Mol. Sci. , 23, 8505, 2022.
7. **Tran Thi Minh Thu**, Mai Suan Li, Protein aggregation rate depends on mechanical stability of fibrillar structure, J. Chem. Phys. 157, 055101, 2022.

Conference

Talk

1. **Tran Thi Minh Thu**, Ly Anh Tu, and Mai Suan Li, Gly37Leu mutation reduces toxicity of amyloid beta 42 through enhanced the β -turn and β -hairpin structure at C-terminal, The Conference of University of Science, Vietnam National University - Ho Chi Minh city, 9-10 November 2018.
2. **Tran Thi Minh Thu**, Nguyen Truong Co, Ly Anh Tu, and Mai Suan Li, Aggregation rate of amyloid beta peptide is controlled by beta-content in monomeric state, The Fourth International Conference on Computational Science and Engineering (ICCSE – 4), 24-27 July 2019.
3. Tran Thi Minh Thu, Ly Anh Tu, and Mai Suan Li, Gly37Leu mutation reduces toxicity of amyloid beta 42 through enhanced the β -turn and β -hairpin structure at C-terminal, The 11th Vietnam National Conference of Solid Physics and Materials Science, 2-4 November 2019.
4. **Tran Thi Minh Thu**, Ho Anh Kiet, Mai Suan Li, Relationship between mechanical stability of the fibril state and fibril formation time of polypeptide chains, [The 5th Workshop of Vietnamese Students in Poland](#), 28-29 November, 2020.
5. **Tran Thi Minh Thu**, Ho Anh Kiet, Mai Suan Li, Relationship between mechanical stability of the fibril state and fibril formation time of polypeptide chains, The Conference of University of Science, Vietnam National University - Ho Chi Minh city, 18-19 December 2020.
6. **Tran Thi Minh Thu**, The 7th workshop of Vietnamese students in Poland (WVSP2022), 17 – 18 November 2022, Krakow - Poland, Oral presentation.
7. **Tran Thi Minh Thu**, The International workshop between Academia Sinica, Taiwan and Faculty of Materials Science and Technology-HCMUS, 26-27th November, 2022, HCMC - Vietnam, Oral presentation.
8. **Tran Thi Minh Thu**, The Asia Pacific Conference of Theoretical and Computational Chemistry APATCC-10, 19 – 23th February 2023, Quy Nhon-Vietnam, Oral presentation.
9. **Tran Thi Minh Thu**, Work shop between Japan Advance Institute of Science and Technology (JAIST) and Faculty of Materials Science and Technology - HCMUS, 20-21th March, HCMC-Vietnam, Oral presentation.
10. **Tran Thi Minh Thu**, Work shop between National Tsing hua University (Taiwan) and Faculty of Materials Science and Technology - HCMUS, 25th April , HCMC-Vietnam, Oral presentation.

Poster: 07 poster presentations.