

# Curriculum Vitae

## Personal information



### Tung Duy Vu, PhD

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## Research Areas

- Development of novel multifunctional nanomaterials.
- Development of optical and electrochemical sensors for environmental and biomedical applications.
- Chemometrics in data analysis.

## Education

| Period  |         | Level                              | School name                                                      | Major                |
|---------|---------|------------------------------------|------------------------------------------------------------------|----------------------|
| From    | To      |                                    |                                                                  |                      |
| 09/2010 | 08/2013 | Bachelor                           | Hanoi University of Science – Vietnam National University, Hanoi | Chemistry            |
| 09/2013 | 08/2015 | Bachelor                           | College of Natural Sciences – Hanyang University, Seoul, Korea   | Chemistry            |
| 09/2015 | 02/2021 | Master-Doctorate integrated course | College of Natural Sciences – Hanyang University, Seoul, Korea   | Analytical Chemistry |

## Work Experiences

|                  |                                                                                                  |
|------------------|--------------------------------------------------------------------------------------------------|
| 4/2021 - present | Faculty of Chemistry, University of Science, Vietnam National University Hanoi - <i>Lecturer</i> |
| 6/2023 – 8/2023  | Leibniz Institute for Catalysis (LIKAT), Rostock, Germany - <i>Postdoc</i>                       |

## Selective Publications

1. Huy Hoang Do, Cong Doanh Sai, Quang Hoa Nguyen, Bach Pham, Le Thanh Son, **Tung Duy Vu\***; 2025; Facile preparation of Three-Dimensional Copper foam incorporated with Au/CuO nanorods as a durable, reusable and efficient SERS substrate; *Materials Chemistry and Physics*; 329; 130067.
2. Thu Thuy Bui, Cong Doanh Sai, Ngac An Bang, Tien Duc Pham, Bach Pham, Hoeil Chung\*, **Tung Duy Vu\***; 2025; Highly Durable and Reusable 3D Copper Foam-Based SERS Substrate with CuO-Ag Nanorods for Ultrasensitive Measurements of Rhodamine-6G and Human Urine; *ACS Applied Nano Materials*; 8; 844-853.
3. **Tung Duy Vu\***, Nguyen Duc Thang, Nguyen Thi Hai Yen, Huy Hoang Do, Tien Duc Pham, Le Thanh Son, Vu Ngoc Linh; 2024; A facile paper-based chromatography coupled Au nanodendrite on nickel foam for application in separation and SERS measurement; *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*; 313; 124137.
4. Cong Doanh Sai, Quang Hoa Nguyen, Thi Ngoc Anh Tran, Van Thanh Pham, Thanh Binh Nguyen, Huy Hoang Do, **Tung Duy Vu\***; 2023; CuO nanorods decorated gold nanostructures as an ultra-sensitive and recyclable SERS substrate; *Materials Chemistry and Physics*; 293; 126962.
5. Thu Thuy Bui, **Tung Duy Vu\***, Eunjin Jang, Geum-sook Hwang, Dongho Choi and Hoeil Chung\*; 2022; Feasibility for SERS-based discrimination of gallbladder cancer from polyp by indirect recognition of components in bile; *Analytica Chimica Acta*; 1221; 340152; ISSN: 0003-2670.