

## CONTENTS

### Original Articles

1. **Dinh Thi Thuy Hang, Nguyen Dinh Bang, Nguyen Thanh Binh**, Efficient Photoreduction of CO<sub>2</sub> to CH<sub>4</sub> on AgCl/Ag/g-C<sub>3</sub>N<sub>4</sub> Ternary Composites 1
2. **Phan Thi Hong Thao, Le Thi Tra, Tran Thi Huong, Dang Thi Nhung, Nguyen Thi Hong Lien, Nguyen Thi Thanh Ngoc, Dao Thi Hong Van**, Influencing Factors to Biodispersant Biosynthesis of *Bacillus subtilis* S343 8
3. **Le Thi Thanh Nhan, Ha Thao Van, Bui Phuong Thao, Le Lan Phuong, Trinh Hong Thai**, *In silico* Identification of the HLA-DRB1\*15:01 Restricted B-cell and T-cell Epitopes of the Autoantigens MOG and AQP4 Associated with Autoimmune Neuropathy 21
4. **Pham Ngoc Huyen, Nguyen Thi Quynh Trang, Nguyen Thi Van Anh, Luan Luong Chu**,  $\alpha$ -amylase Inhibitor Based on Oleanolic Acid: *In vitro* and *in silico* Studies 35
5. **Le Thi Hong, Phan Thi Dao, Trinh Xuan Dai**, Adsorption of Antibiotic in Aqueous Solution by a Family of Zirconium-based Metal Organic Frameworks 44
6. **Mai Duc Huynh, Nguyen Quang Minh, Tran Huu Trung, Do Van Cong, Nguyen Thi Thai, Nguyen Tien Minh, Dang Thanh Huyen, Nguyen Minh Viet, Ngo Hong Anh Thu, Do Van Son, Nguyen Vu Giang**, Fabrication of Porous Biochip Carrier Based on HDPE with Microbial Compatibility for Domestic Wastewater Treatment Using MBBR Technology 54
7. **Dinh Thi Hien, Phan Thi Thu Ha, Nguyen Minh Hai**, Structure and Luminescent Property of Y(III) and Eu(III) Complexes Containing Tris( $\beta$ -Diketonate) for Singlet Oxygen Detection 68
8. **Pham Van Khuong, Hoang The Vu, Nguyen Manh Tuong**, Studying Nitrocellulose Decomposition Process in Nitrocellulose-Cellulose-Trinitrotoluene System 74
9. **Quach Manh Dung, Nguyen Nang Tu, Nguyen Xuan Tan, Trinh Xuan Dai**, Fabrication of  $\alpha$ -MnO<sub>2</sub>/UiO-66-NO<sub>2</sub>/TFC-PA Photocatalytic Membrane Applied for the Decomposition of Methylene Blue in Aqueous Solution 90
10. **Dang Thanh Huyen, Nguyen Minh Viet**, Research on the Synthesis, Characterization, and Photocatalytic Activity of BiVO<sub>4</sub>/g-C<sub>3</sub>N<sub>4</sub> and its Application in Treating Ciprofloxacin Antibiotic in Water Environment 98
11. **Nguyen Kien Cuong**, A Gold Nanoparticle-based SERS Platform for Trace-Level Detection of Organic Contaminants in Municipal Tap Water 107