

CONTENTS

1.	Synthesis and <i>In vitro</i> Cytotoxic Evaluation of New Quinazolinone-Based Chalcones	1
	<i>Truong Thuc Bao Nguyen, Ta Hong Duc, Tran Khac Vu*</i> <i>Hanoi University of Science and Technology, Hanoi, Vietnam</i>	
2.	A Study on the Effect of Support on the Catalytic Activity of OMS-2 for Oxidation of Toluene in Gas Phase	9
	<i>Trung Thanh Nguyen^{1,2}, Ngoc Hanh Nguyen^{2,3}, Thuy Nguyen Thi^{2,4}, Tri Thich Le^{1,2}, Phuoc Toan Phan^{1,2,3}, Nhat Huy Nguyen^{2,3*}</i> <i>¹An Giang University, An Giang, Vietnam</i> <i>²Vietnam National University Ho Chi Minh City, Ho Chi Minh City, Vietnam</i> <i>³Ho Chi Minh City University of Technology, Ho Chi Minh City, Vietnam</i> <i>⁴International University, Ho Chi Minh City, Vietnam</i>	
3.	Simulation Study on the Effects of Operating Temperature on Cell Electrodes in Solid Oxide Fuel Cells	17
	<i>Xuan Vien Nguyen*, An Quoc Hoang, Hong Son Nguyen Le</i> <i>HCMC University of Technology and Education, Ho Chi Minh City, Vietnam</i>	
4.	Quantitative Fragrance Durability Evaluation Depending on Keeping Condition of Knitted Fabric Treated by Microcapsules Containing Star Anise Essential Oil	25
	<i>Chu Dieu Huong*, Nguyen Thi Tu Trinh</i> <i>Hanoi University of Science and Technology, Hanoi, Vietnam</i>	
5.	Phenolic Compounds from <i>Dendrobium Nobile</i> Lindl.	34
	<i>Nguyen Thi Viet Thanh^{1*}, Pham Hai Yen²</i> <i>¹Hanoi University of Science and Technology, Hanoi, Vietnam</i> <i>²Vietnam Academy of Science and Technology, Hanoi, Vietnam</i>	
6.	Simulation Study on the Effect of Biodiesel Ratio Derived from Waste Cooking Oil on Performance and Emissions of a Single Cylinder Diesel Engine	42
	<i>Nguyen Tuan Nghia, Trinh Dac Phong, Nguyen Xuan Khoa*</i> <i>Hanoi University of Industry, Hanoi, Vietnam</i>	
7.	Effects of Fe Dopant on Structural, Optical and Electrical Properties of NiTiO ₃ Materials	51
	<i>Tran Vu Diem Ngoc, Luong Huu Bac*</i> <i>Hanoi University of Science and Technology, Hanoi, Vietnam</i>	
8.	Improving the Strength of Prestressed Steel ASTM A633 Grade C by Combination of the Cr-Ti Alloying and Heat Treatment	59
	<i>Cao-Son Nguyen, Quoc-Dung Ngo, Anh-Hoa Bui*</i> <i>Hanoi University of Science and Technology, Hanoi, Vietnam</i>	
9.	Modeling of Steam Generation Process in the Supercritical Once-Through Boiler in the Thermal Power Plant with MATLAB Application	67
	<i>Nguyen Dang Binh Thanh, Nguyen Trung Dung, Ta Hong Duc*</i> <i>Hanoi University of Science and Technology, Hanoi, Vietnam</i>	

10. On a Matlab/Simulink of Power Quality Issues in Distribution System with the Presence of Electric Arc Furnaces and Mitigation Solution Using Active Filter 75

Ngo Van Thai^{1,2}, Bach Quoc Khanh^{1}*

¹Hanoi University of Science and Technology, Hanoi, Vietnam

²Thanh Vinh Trade & Services Company Ltd., Hanoi, Vietnam