CONTENTS

1.	Fabrication of Superhydrophobic Copper via Chemical Etching and Modification	1
	Le Thi Thu Hang*, Hoang Thi Bich Thuy Hanoi University of Science and Technology, Hanoi, Viet Nam	
2.	Synthesis and Cytotoxicity Evaluation of 2-Benzoylbenzoxazoles by Reaction of <i>o</i> -Aminophenol with Acetophenone Catalyzed by Sulfur in DMSO	9
	Doan Thi Yen Oanh ^{1,2} , Tran Thi Yen ¹ , Nguyen Le Anh ¹ , Ngo Quoc Anh ^{1*} ¹ Institute of Chemistry, Vietnam Academy of Science and Technology, Hanoi, Vietnam ² Publishing House for Science and Technology, Vietnam Academy of Science and Technology, Hanoi, Vietnam	
3.	Evaluation of Height Equivalent Theoretical Plate of Packing Distillation Column for Benzaldehyde Purification Processing	17
	Nguyen Trung Dung, Phan Ngoc Quang, Pham Duc Anh, Do Nguyen Ha Thu, Nguyen Van Anh, Ta Hong Duc, Cao Hong Ha* Hanoi University of Science and Technology, Hanoi, Vietnam	
4.	Influence of Temperature and pH Conditions on the Swelling Properties of Rice Straw Derived Cellulose Hydrogel	25
	Vu Tung Lam, Nguyen Ngoc Mai* Hanoi University of Science and Technology, Hanoi, Viet Nam	
5.	Effects of Triisopropanolamine and Triethanolamine on Some Properties of Portland Cement	33
	Ta Ngoc Dung ^{1*} , Pham Thanh Mai ² ¹ Hanoi University of Science and Technology, Hanoi, Vietnam ² Hanoi Architectural University, Hanoi, Vietnam	
6.	A Study on Performance and Emission Characteristics of Direct Injection Natural Gas Engine	40
	Vu Minh Hieu ¹ , Ho Huu Chan ^{1,2} , Van Cong Le ³ , Chan Woo Park ^{3,4} , Tran Dang Quoc ^{1*} ¹ Hanoi University of Science and Technology, Hanoi, Vietnam. ² Vinhlong University of Technology Education, Vinh Long, Vietnam. ³ Department of Energy Storage/Conversion Engineering, Jeonbuk National Univ., Jeollabuk-do, South Korea. ⁴ School of Mechanical Design Engineering, Jeonbuk National Univ., Jeollabuk-do, South Korea.	
7.	Cloning and Expression of a Recombinant NS1 Antigen from a Dengue 3 Serotype Viral Isolate in <i>Escherichia Coli</i>	48
	Truong Quoc Phong ^{1*} , Nguyen Quang Anh ¹ , Nguyen Thi Thu Thuy ² ¹ Hanoi University of Science and Technology, Hanoi, Vietnam ² Arbo Laboratory, National Institute of Hygiene and Epidemiology, Hanoi, Vietnam	
8.	Study of the Matrix Shrinkage on a Polymer Matrix Composite under a Drop of Temperature	57
	Le Thi Tuyet Nhung, Trieu Van Sinh, Vu Dinh Quy* Hanoi University of Science and Technology, Hanoi, Vietnam	

JST: Engineering and Technology for Sustainable Development

Volume 32, Issue 4, October 2022

9. Metal-Film-Coated Silica Nanoparticle Monolayers for Application in Surface Enhanced Raman Scattering

64

Nguyen Thi Thanh Lan¹, Nguyen Thi Hai Yen^{1,2},

Luu Thi Lan Anh², Chu Manh Hoang^{1*}

¹International Training Institute for Materials Science,

Hanoi University of Science and Technology, Hanoi, Vietnam

²School of Engineering Physics,

Hanoi University of Science and Technology, Hanoi, Vietnam

10. Selection of Sheath Voltage Limiter for Mixed Overhead-Underground Cable in 220 kV 69 Transmission Lines

Pham Thanh Chung^{1*}, Pham Hong Thinh², Tran Van Top¹

¹Hanoi University of Science and Technology, Hanoi, Viet Nam

²PSEG Long Island, Hicksville, New York, USA