## VIETNAM JOURNAL OF SCIENCE AND TECHNOLOGY

Volume 62, Number 3, 2024

## **CONTENTS**

		Page
1	<b>Sandeep Kumar Soni, Manoj Kumar Solanki -</b> Chemical potential and biomedical activity of gold nanoparticles in cancer and drug delivery systems: <i>an update</i> .	405-424
2	<b>Thi Van Anh Nguyen, Duc Huy Bui, Hong Luyen Le -</b> Potent inhibitory effect on human platelet aggregation of the aerial part of <i>Canna edulis</i> .	425-434
3	Ho Van Ban, Vu Van Chien, Nguyen Thi Hue, Pham Thi Hang, Pham Van Cuong, Nguyen Quoc Vuong, Nguyen Le Tuan - Anti-inflammatory activity and phytochemistry of the leaf extracts of <i>Baccaurea sylvestris</i> Lour.	435-445
4	<b>Tran Thi Thoa, Nguyen Trong Nghia, Hoang Van Hung, Nguyen Thi Minh Hue</b> - How to construct the most stable structure of (110) surface from rutile TiO <sub>2</sub> bulk?	446-452
5	Huy Quoc Tran, Huong Thi Diem Nguyen, Hoang Van Nguyen, Nhung Thi Tran, Tung Thanh Nguyen, Long Hoang Ngo, Thach Ngoc Tu - Synthesizing and investigating the electrical properties of carbonized metal-organic frameworks.	453-462
6	Tuan Nguyen Van, Tuan Anh Nguyen, Ha Pham Thi, Ly Pham Thi, Phuong Nguyen Thi, Quy Le Thu - Effect of heat treatment on corrosion resistance of Al <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> ceramic coating impregnated with aluminum phosphate.	463-474
7	<b>Ngoc Hoi Nguyen, Cuu Khoa Nguyen, Dai Hai Nguyen -</b> A modified hard-templating for hollow mesoporous silica nanoparticles with suitable particle size and shortened synthesis time.	475-485
8	<b>Do Truc Vy, Dao Phi Hung, Nguyen Tuan Anh, Tran Dai Lam, Nguyen Thien Vuong -</b> Curing process, mechanical property and thermal stability of acrylic polyurethane/Fe <sub>2</sub> O <sub>3</sub> nanocomposite coatings.	486-495
9	Le The Tam, Nguyen Thi Ngoc Linh, Saonilan Thapphanya, Dinh Thi Truong Giang - Study on fabrication and optical properties of monodisperse AgAu alloy nanostructure.	496-507
10	Vu Hung Sinh, Duong Tuan Quang, Tran Quy Phuong, Tran Thai Hoa, Nguyen Van Hieu, Nguyen Duc Cuong - A high-sensitivity hydrogen gas sensor based on Ag nanoparticle-decorated porous Co <sub>3</sub> O <sub>4</sub> nanorods.	508-520
11	Le Thi Thuy, Do Quang Minh, Le Thi Thu Hang, Dong Van Quyen, Anne-Laure Bañuls, Nguyen Quang Huy - Initial establishment of a multiplex real-time PCR assay for simultaneous detection of common colistin and carbapenemase genes.	521-529
12	<b>Nguyen Hai Doan, Kiwao Kadokami, Vu Le Minh, Hanh Thi Duong -</b> A preliminary investigation of occurrence of pharmaceuticals and personal care products in total suspended particulate matter in Ha Noi, Viet Nam.	530-538
13	Tran Phuong Ha, Ha Vinh Hung, Nguyen Duc Quang, Vu Minh Trang, Dao Duy Nam, Dinh Le Phuong Anh, Nguyen Thi Thu Huyen, Huynh Trung Hai - Waste solar panel generation in Viet Nam: waste estimation and management orientation.	539-550

14 Vu Thi Lan Anh, Nguyen Thi Nhan, Dang Thi Ha Thu, Pham The Hai, 551-561 Nguyen Quoc Dinh, Ngo Thi Thuy Huong, Tran Van Tuan - A snapshot of bacterial endophytes isolated from the roots of Vetiver grass (Chrysopogon zizanioides) grown at Bien Hoa airbase, Dong Nai province. Kinjal R Sheth Vishal S Vora - Preserving authenticity: transfer learning 15 562-576 methods for detecting and verifying facial image manipulation. Van Thinh Pham, Bach Tuyet T. Dao, Thi Kim Ngan Tran, Ngoc Quyen 577-587 Tran, Long Giang Bach - Synthesis of nickel-doped BiVO<sub>4</sub> materials by hydrothermal method and evaluation of their photocatalytic ability to decompose methylene blue under visible light. Nguyen Hong Thai, Phung Van Thom - Replacing the involute profile with an 588-600 improved cycloid profile to improve the bearing capacity for the elliptical gear drives. Nguyen Thi Dung, Do Thi Cam Nhung, Pham Thi Hue, Pham Van Sang -601-611 Hemodynamics in coronary arteries: using open-source software-simvascular to investigate the Hemodynamicsin coronary arteries of the Patient-Specific modeling.