TABLE OF CONTENTS

01	Nguyen Trang Minh, Tran Ngoc Thanh, Nguyen Manh Thang Research and development of strategic technologies for military and defense missions: A review.	03 – 09
	Electronics & Automation	
02	Hoang Manh Tuong Enhancing the kinematic quality of a single-axis stabilizing platform on a high-speed spinning-body aircraft.	10 – 17
03	Cao Duc Sang, Le Tran Thang, Nguyen Trong Khuyen A robust adaptive controller for underactuated ASVs in loose path-following with an added error and a new control handpoint.	18 – 27
04	Pham Van May, Tran Duc Thuan, Vu Manh Tuan, Tran Quoc Huy A study on control command synthesis algorithm for single-channel flying equipment with linear steering vane.	28 – 39
05	Truong Tat Thuan, Tran Ngoc Binh Dual-Stage Quaternion Estimator: An advanced method for orientation and angular kinematics estimation based on IMU sensor fusion.	40 – 47
06	Pham Van Nam, Nguyen Vu Thang, Trinh Trong Chuong, Tran Thi Hang Multi-domain feature-based early detection of bearing faults using MLP classifier on NASA IMS dataset.	48 – 54
07	Nguyen Thanh Trung Reconstructing degraded SPECT myocardial images via deep biophysical models: A modern computational approach.	55 – 62
	Chemistry, Biology & Environment	
08	Vu Ngoc Toan, Nguyen Thi Thu Huong, Nguyen Minh Tri, Le Hong Minh, To Phuong Linh, Dang Thi Ngoc Chau Analyzing some main components of MDF-500 disinfectant produced in the United States.	63 – 71
09	Nguyen Thi Phuong, Nguyen Thi Thu Huong, Vu Thi Van Phuong, Pham Thi Hong Nhung, Truong Thi Lien, Nguyen Ngoc Hoa, Le Thi Phuong Thao, Nguyen Que Chau Development of a natural functional supplement from <i>pleurotus ostreatus</i> and <i>cordyceps militaris</i> to mitigate side effects of chemotherapy and radiotherapy.	72 – 79
10	Ngo Minh Tien, Nguyen Thi Phuong Investigation of polyphenol derivative extraction from <i>Terminalia catappa leaves</i> and assessment of their corrosion inhibition performance on CB300 steel in saline solution.	80 – 86
11	Dao The Nam, Doan Tuan Anh, Dinh Van Long, Doan Minh Cuong, Nguyen Thi Huong, Nguyen Ngoc Son, Vu Thi Thao, Le Gia Khiem, Vu Minh Thanh Study on the effects of temperature, deposition cycle number, and cobalt additives on the properties of the positive active material in nickel-cadmium batteries.	87 – 93
12	Dinh Trong Nghia, Vu Thi Mai, Phi Hoang Thuy Quynh, Doan Cong Danh Study on the removal capability of trinitrotoluene in water using the UV/WO ₃ /H ₂ O ₂ photo oxidation method.	94 – 10

Physics & Materials Science

13	Mai Huu Thuan, Trinh Duc Giang Study on the determination of pharmaceutical products containing amoxicillin and clavulanic acid by HPLC/DAD method.	102 – 112
14	Tran Tien Bao, Pham Dinh Quy, Tran Xuan Tien Designing a high-performance eyepiece for a 0.97-inch OLED microdisplay.	113 – 120
15	Nguyen Thanh Lam, Nguyen Dinh Phuong A method for designing pixelated camouflage patterns for forest terrain backgrounds.	121 – 128
	Information Technology & Applied Mathematics	
16	Ngo Huu Phuc, Vi Bao Ngoc, Phan Hai Hong, Nguyen Chi Cong Mutual information optimization for mitigating catastrophic forgetting in continual learning: An information-theoretic approach.	129 – 136
17	Nguyen Dao Truong, Doan Thi Bich Ngoc A secure search method for cloud data storage.	137 – 144
	Mechanics & Mechanical Engineering	
18	Do Trong Dai, Le Thanh Dat, Dinh Van Duy, Nguyen Lan Phuong, Pham Quoc Tuan Identification of process parameters in CDA-110 copper T-shaped tube hydroforming.	145 – 153
19	Bui Xuan Son, Kongsathit Phanthavong, Pham Duc Hung, Dao Van Toan, Dinh Hoang Hung, Vu Duc Hien, Ngo Tien Sy Establishing the sensitivity diagram of the inertia impact mechanism in the V-25 fuze.	154 – 162
20	Nguyen Dinh Duy, Phan The Son, Do Tien Can, Tran Ngoc Thanh Regarding the calculation method for a spring-driven gyroscope in rotating aircraft.	163 – 170