



HANOI UNIVERSITY OF CIVIL ENGINEERING

JOURNAL OF
SCIENCE AND TECHNOLOGY IN
CIVIL
ENGINEERING

p-ISSN 1859-2996
e-ISSN 2734-9268

(ACI Indexed Journal - www.stce.huce.edu.vn)

Vol.16 No.3

6 - 2022

Table of Contents

1. Long short-term memory for nonlinear static analysis of functionally graded plates <i>Dieu T. T. Do, Son Thai, Tinh Quoc Bui</i>	1
2. Navier solution for static and free vibration analysis of sandwich plate with auxetic honeycomb core resting on Pasternak elastic foundation <i>Nguyen Tat Thang, Nguyen Van Long, Tran Minh Tu, Nguyen Hoang Nam, Mai Chau Anh</i>	18
3. Distinguished punching shear behaviour of unbonded post-tensioned concrete slab – CFT column vs reinforced concrete slab – CFT column connections <i>Binh Luu-Thanh, Long Nguyen-Minh, Takayuki Namba, Kei Nakagawa, Koji Oki, Cuong Ngo-Huu</i>	29
4. Effect of spatial variability of creep rock on the stability of a deep double-lined drift <i>Tran Ngoc Tuyen, Duc-Phi Do, Dashnor Hoxha, Minh-Ngoc Vu, Gilles Armand</i>	46
5. Experimental study on the wave dissipation performance of a perforated semi-circular floating breakwater <i>Vu Minh Tuan, Bach Duong, Vu Quoc Hung, Nguyen Duc Manh, Nguyen Manh Linh</i>	59
6. Topology and size optimization for X-bracing system of nonlinear inelastic space steel frames <i>Qui X. Lieu, Khanh D. Dang, Van Hai Luong, Son Thai</i>	71
7. Predicting tensile properties of strain-hardening concretes containing hybrid fibers from single fiber pullout resistance <i>Duy-Liem Nguyen, Tri-Thuong Ngo, Tan-Duy Phan, Thanh-Tu Lai, Duc-Viet Le</i>	84
8. Assessing the shear behavior of steel fiber reinforced concrete beams corroded under chloride attacks <i>Nguyen Thi Thanh Thao, Tran Phi Son Tung, Nguyen Duc Nhan, Nguyen Ngoc Tan</i>	97
9. Evaluation of long-term strength and durability performance of cementitious composites with low polypropylene fiber content and local river sand <i>Viet-Hung Vu, Lanh Si Ho, Trong-Phuoc Huynh</i>	111
10. Bearing capacity and failure mechanism of nonwoven geotextile reinforced clay: A verification <i>Minh-Duc Nguyen</i>	123
11. Developing a method for estimation of plastic waste leaked into the ocean <i>Hoang Minh Giang</i>	139
12. Assessing the shear behavior of corroded steel fiber reinforced concrete beams without shear reinforcement using nonlinear finite element analysis <i>Nguyen Ngoc Tan, Nguyen Thi Thanh Thao, Nguyen Tien Van, Du Duc Hieu</i>	152