

## Table of Contents

1. Properties evaluation of terrazzo tiles produced for external use using a fine aggregate from a domestic waste incineration plant <i>Trong-Phuoc Huynh, Dan-Thuy Van-Pham, Tri-Khang Lam, Van-Linh Tran, Quoc-Trung Bui</i> . . . . .	1
2. Analysis of the effect of construction technology factors on controlling thermal cracking in mass concrete <i>Le Van Minh, Nguyen Anh Duc, Ho Ngoc Khoa, Le Hong Ha, Luu Van Thuc</i> . . . . .	12
3. Effect of nano-calcium carbonate on mechanical properties of interfacial transition zone between fiber surface and concrete <i>Dang Van Phi, Ngo Tri Thuong</i> . . . . .	30
4. Formulas for determining the critical buckling stress of I-shaped members under pure bending <i>Chiem Dang Tu Quoc, Bui Hung Cuong, Han Ngoc Duc</i> . . . . .	41
5. Improvement of biofilm activities in sequencing batch reactor via polyvinyl alcohol (PVA) granules addition <i>Nguyen Xuan Lan, Dang Thi Thanh Huyen, Pham Thi Thuy, Nguyen Manh Khai</i> . . . . .	54
6. Dynamic analysis of carbon nanotube-reinforced composite plates using reduced order isogeometric model <i>Van Hai Luong, Qui X. Lieu</i> . . . . .	69
7. Causes of crane safety risk in the Vietnamese construction industry <i>Ngo Thanh Long, Nguyen Hoang Giang</i> . . . . .	83
8. Ensemble learning methods for the mechanical behavior prediction of tri-directional functionally graded plates <i>Dieu T. T. Do</i> . . . . .	98
9. Assessing the social costs of public transport in a mixed traffic environment with endogenous demand <i>Tam Vu</i> . . . . .	109
10. Investigating the impacts of passive design solutions on building energy consumption using OpenStudio: Case study of a primary school, Hanoi, Vietnam <i>Bui Thi Hieu</i> . . . . .	123
11. Enhancing program evaluation and review technique (PERT) for construction project scheduling with Bayesian updating and appropriate probability distributions <i>Nguyen Anh Duc</i> . . . . .	132