## Achievements in Mechanical Engineering and Green Building Materials

## **Table of Contents**

_		_	
D	140	F۵	00
г		14	r.F

Nano Biomaterial Coating of Stainless Steel Alloys (516 and 504) as a Corrosion Inhibitor in Saliva Medium	
S.A. Jasim, A. Ayesh and A. Kadeem	1
The FTIR Test and Behavior Mechanical Concrete with Pozzolan Substitution A. Yusra, H. Husin, S. Samsunan, M. Hasan, T.B. Aulia, F. Fachruddin and B. Tripoli	13
Augmenting Material Characterisation via Numerical Analysis to Improve Robustness in Mechanical Property Evaluation R.K. Mishra, B. Venugopal and S.P. Mathew	27
Enhancing Structural Vibration Damping in Marine Machinery: A Comprehensive Numerical Investigation with Modal and Harmonic Analysis G. Sharma, A. Kumaraswamy and S. Rath	39
Development of the Extrusion Based Food 3D Printer Machine by Modifying Fused Deposition Modelling (FDM) 3D Printer F. Bestiara, K. Saptaji, T.K. Dewi, F. Triawan, A.I. Ramadhan and A. Azhari	57
Experimental Study of the Liquid Cold Plate Cooling System for Lithium-Ion Battery in Electric Vehicle M.R. Hilmy, M.A. Rahman, I. Pranoto, K. Khasani and J. Waluyo	67
Research on the Effect of Thermal Coating Temperature on the Fatigue Performance of Wind Turbine Blade Bolts S.J. Wu, H. Wei, G. Xiong, W. Feng and H. Ban	75
, , , , , , , , , , , , , , , , , , , ,	