

Indian Journal of Engineering & Materials Sciences

<http://www.niscair.res.in>; <http://nopr.niscair.res.in>; Impact Factor: 0.881 (JCR 2020)

VOLUME 28

NUMBER 5

OCTOBER 2021

CODEN : IEMSEW 28(5) 427-542

ISSN : 0971-4588 (Print); 0975-1017 (Online)

CONTENTS

Review Articles

- Influence of industrial by-products on the behavior of geopolymer concrete for sustainable development 433
Nakul Gupta, Kamal Kishore, Kuldeep Kumar Saxena & Tilak C Joshi
- Nitinol shape memory alloy spring 446
Tameshwer Nath & Sunil Kumar Singh

Research Articles

- Integrated TOPSIS-PROMETHEE-MOORA model for material selection of crankcase cover 454
Sumit Chawla & Ranganath M Singari
- Thermal and acoustic performance of cement fibreboard and bamboo buildings 462
Siddharth Singh, Ajay Chourasia, Ravindra Singh Bisht & Sameer Yadav
- Effect of acyl chloride functionalized carbon black on mechanical and thermal properties of acrylonitrile butadiene styrene/polyaniline blend 472
Narayan Debnath, Souvik Bag, Vinay Panwar, Mitali Saha & Kaushik Pal
- Surrogate safety evaluation and validation with crash history for interurban midblock sections under heterogeneous traffic conditions in India 480
Satbir Singh Puwar, A Mohan Rao & S Velmurugan
- Performance enhancements in powder-mixed near-dry electric discharge machining 493
Sanjay Sundriyal, Vipin & RS Walia
- Experimental and finite element analysis of titanium based medial tibial condyle using incremental sheet metal forming 502
Mohanraj Ramasamy, Elangovan Sooriya Moorthy, Pratheesh Kumar Selva Kumaran & Arun Prakash Rangasamy
- Effect of internal heat source modulations on the onset of triple diffusive convection in viscoelastic liquids 509
Noor Arshika S, Sameena Tarannum & Subbarama Pranes
- Energy consumption analysis and cutting cost reduction strategies in granite cutting operations 520
Murat Yurdakul
- Phase I-Designing a biofeedback device for quadriceps re-education-bridging the gap in exercise compliance 529
Lakshmi Prabha P, Oinam Robita Chanu, Anandhi D, Malarvizhi D, Ponmathi P & Anusha A
- Machinability aspects in dry turning of Ti6Al4V alloy with HiPIMS coated carbide inserts 533
Girish Joshi & Atul Kulkarni