

# Indian Journal of Engineering & Materials Sciences

<http://www.niscair.res.in>; <http://nopr.niscair.res.in>

**VOLUME 23**  
CODEN : IEMSEW

**NUMBER 5**

**OCTOBER 2016**  
ISSN : 0971-4588

## CONTENTS

Factors influencing the mechanical properties of lightweight aggregate concrete Tao Wu, Hui Wei, Xi Liu & Guohua Xing	301
Evaluation of the mechanical, durability microstructural and mineralogical properties of cement composites treated with waste tire rubber Ozlem Celik Sola & Cemil Ozyazgan	312
Study the surface modification and characterization for powder mixed electrical discharge machining of tungsten carbide Jagdeep Singh & Rajiv Kumar Sharma	321
Strain-rate sensitivity of tensile behaviors for nickel-based superalloys GTI3044 and GH4033 at room temperature Changying Wang, Qinglong An, QiuLin Niu & Ming Chen	336
Numerical study of TTP curves upon welding of 6063-T5 aluminium alloy and optimization of welding process parameters by Taguchi's method José L. Meseguer-Valdenebro, Antonio Portoles & J. Oñoro	341
Effect of cutting parameters on machining surface and cutting tool in milling of Ti-6Al-4V alloy Yahya Hışman Çelik & Ahmet Karabiyik	349
New sharpening method and the behaviour of the multi-flute twist drill with curved cutting edge in machining operations Nicușor Baroiu, Virgil Gabriel Teodor, Silviu Berbinschi, Florin Susac & Nicolae Oanță	357