

Applied Engineering Letters

Journal of Engineering and Applied Sciences

Vol.4 | No.2 | 2019 year

Publisher:

The Association of Intellectuals for the Development of Science in Serbia - "The Serbian Academic Center"

Publisher address:

Stevana Mokranjca 18/31, 21000 Novi Sad, Serbia

Editor-in-Chief:

Ph.D. Blaža Stojanović, Kragujevac, Serbia

Associate editor-in-Chief:

Ph.D. Aleksandar Ašonja, Novi Sad, Serbia

Editorial Board:

Ph.D. Aleksandar Marinković, Belgrade, Serbia

Ph.D. Vlastimir Nikolić, Niš, Serbia

Ph.D. Radoslav Tomović, Podgorica, Montenegro

Ph.D. Alexander A. Minewitsch, Garbsen, Germany

Ph.D. Eleonora Desnica, Zrenjanin, Serbia

Ph.D. Lozica Ivanović, Kragujevac, Serbia

Ph.D. Ružica Nikolić, Žilina, Slovakia

Ph.D. Achilles Vairis, Crete, Greece

Academician Ph.D. Valerii Georgievic Kuhtov, Kharkiv, Ukraine

Ph.D. Vladimir Petrovic Miklus, Minsk, Belorussia

Ph.D. Sergei Pavlovic Kazancev, Moscow, Russia

Ph.D. Aleksandr Gennadievic Pastuhov, Belgorod, Russia

Ph.D. Monika Neda, Las Vegas, USA

Ph.D. Imre Kiss, Hunedoara, Romania

Ph.D. Kamyar Shirvani Moghaddam, Melbourne, Australia

Ph.D. Himanshu Monga, Punjab, India

Ph.D. Petr Svoboda, Brno, Czech Republic

Ph.D. Mara Kandeveva, Sofia, Bulgaria

Technical editor:

Ph.D. Ivan Miletić, Kragujevac, Serbia

Associate technical editor:

M.Sc. Saša Milojević, Kragujevac, Serbia

Proofreader:

MA. Neda Vidanović, Kragujevac, Serbia

Journal cover design:

M.Sc. Nenad Petrović, Kragujevac, Serbia

Published in four issues annually**Address of the Editorial Board:**

Stevana Mokranjca 18/31, 21000 Novi Sad, Serbia

E-mail: publisher@aeletters.com

www.aeletters.com

Applied Engineering Letters

Journal of Engineering and Applied Sciences

Vol.4 | No.2 | 2019 year

Aim and Scope

The journal Applied Engineering Letters publishes original and review articles covering the concepts of Applied Mechanics, Fluids Engineering, Thermodynamics, Energy and Environment, Renewable Energy Sources, Energy Efficiency, Mechatronics and Robotics, Material Science, Tribology, Machine Design, Productional, Industrial, Agricultural Engineering, Mechanization, Applied and Industrial Mathematics.

Contents:

M.R. Sunil Kumar, E. Schmidova

DEFORMATION RESPONSE OF DUAL PHASE STEEL IN STATIC AND DYNAMIC CONDITIONS 41

T. Skrucany, S. Semanova, S. Milojević, A. Ašonja

NEW TECHNOLOGIES IMPROVING AERODYNAMIC PROPERTIES OF FREIGHT VEHICLES 48

K. Varalakshmi, K.Ch. Kishore Kumar, A.J. Babu

ANALYSIS OF DRY SLIDING WEAR BEHAVIOUR OF AL 6061- COCONUT SHELL ASH METAL MATRIX COMPOSITES USING STIR CASTING 55

M. Spasic, Dj. Dihovicni

PROTECTION OF DATABASE IN MACHINE INDUSTRY AND DEFENSE OF CYBER ATTACK WITH ANTIVIRUS AND FIREWALL PROTECTION 66

L. Natrayan, M. Senthil Kumar

MECHANICAL, MICROSTRUCTURE AND WEAR BEHAVIOUR OF LM25/SiC/MICA METAL MATRIX COMPOSITE FABRICATED BY SQUEEZE CASTING TECHNIQUE 72