

## Table of Contents

<b>Investigation of Effective Parameters on the Surface Temperature Gradient under Equal Channel Angular Pressing Process of AA2017.....</b>	<b>5</b>
Fasrhid Ahmadi, Hadi Mansouri, Elyas Sarami Foroushani	
<b>Prediction of Heusler Alloys with Giant Magnetocaloric Effect using Machine-Learning .....</b>	<b>25</b>
Tasnim Gharaibeh, Pnina Ari-Gur, Elise de Doncker	
<b>Raman Analysis of DLC Nanostructure Coating on AL 6061-T6 Made by DC Pulsed- PACVD.....</b>	<b>35</b>
Seyed Mohammad Mahdi Shafiei, Hamed Raeisifard	
<b>Implementation and Simulation of an Automated PLC Hydraulic System for a Double-acting Actuator Using a Proportional Valve.....</b>	<b>41</b>
Karim Sobbouhi, Farshid Aghadavoudi, Mehdi Baharizadeh	
<b>Path Optimization of Moving Object in Presence of Obstacles Using Messy Genetic Algorithm for N-dimensional Space Machining of Makrana White .....</b>	<b>51</b>
Ali Hasanabadi	
<b>Investigation of the Effect of Ferrite Grain Size on Acoustic Emission Signals.....</b>	<b>61</b>
Mehdi Khosravi, Ramin Khamedi	