

<b>PAGES</b>	<b>PAPERS</b>
13 - 26	<b>Investigation of Heat Transfer and Swirl Flow Between Concentric Cylinders</b> <i>Mohanad Abdulkhudhur Jasim, Yaser Alaiwi, Zainab Al-Khafaji</i> <a href="https://doi.org/10.59038/jmie/190102">https://doi.org/10.59038/jmie/190102</a>
27 - 40	<b>Enhancing the Hardness and Wear Resistance of AA5052 by Reinforcing with Alumina and Bauxite Natural Particles</b> <i>Sattar Hantosh A. Alfatlawi, Fatma Hentati, Neila Masmoudi Khabou</i> <a href="https://doi.org/10.59038/jmie/190103">https://doi.org/10.59038/jmie/190103</a>
41 - 65	<b>Techno-economic Evaluation of an Innovative Integrated System for Water and Power Supply in Sudan under Variable Climatic Conditions</b> <i>Moataz Abdelgadir Ali, Iman El Gheriany, Wael M. El-Maghlany, Mohammed El-Adawy</i> <a href="https://doi.org/10.59038/jmie/190104">https://doi.org/10.59038/jmie/190104</a>
67 - 77	<b>Optimization of Filling Time and Volumetric Shrinkage Rate in Simulation of Plastic Product Injection Molding Process Using RSM and NSGA-II</b> <i>Cong Chi Tran, Van Tuu Nguyen</i> <a href="https://doi.org/10.59038/jmie/190105">https://doi.org/10.59038/jmie/190105</a>
79 - 90	<b>Assessment of Frugal Innovation in Spare Parts of End-of-Life Vehicles</b> <i>Abbas Al-Refaie, Laila Daboseh, Natalija Lepkova</i> <a href="https://doi.org/10.59038/jmie/190106">https://doi.org/10.59038/jmie/190106</a>
91 - 104	<b>Investigation of the Milling Methods Effects on Machining Performance of AA 7075-T6 Aluminum Alloy and Process Parameters Optimization</b> <i>BayramSeran BAYRAM, Mehmet Okan KABAKÇI, İhsan KORKUT</i> <a href="https://doi.org/10.59038/jmie/190107">https://doi.org/10.59038/jmie/190107</a>
105 - 128	<b>The Role of Logistics 4.0 and Industry 4.0 in Promoting Sustainable Operations and Performance</b> <i>Asif Nawaz Wassan, Muhammad Ahmed Kalwar</i> <a href="https://doi.org/10.59038/jmie/190108">https://doi.org/10.59038/jmie/190108</a>
129 - 146	<b>Influence of Concentration and Particle Size of Yellow Oil Fly Ash on Thermal and Mechanical Properties of High-Density Polyethylene</b> <i>Saif S. Irhayyim, Farouk M. Mahdi, Saad R. Ahmed</i> <a href="https://doi.org/10.59038/jmie/190109">https://doi.org/10.59038/jmie/190109</a>
147 - 155	<b>Experimental Investigation of Inception Cavitation Phenomena Effect in Centrifugal Pumps Using Hydrophone Sensor</b> <i>Rahma Essam Adjmi, Hashim Abd Hussein, Ali Hussein Nuaman</i> <a href="https://doi.org/10.59038/jmie/190110">https://doi.org/10.59038/jmie/190110</a>
156 - 161	<b>Unveiling Efficiency: A Comparative Study of 3-Axis and 4-Axis Additive Manufacturing for pHEMA</b> <i>Y. Kartal, A.U. Metin, M.T. Das</i> <a href="https://doi.org/10.59038/jmie/190111">https://doi.org/10.59038/jmie/190111</a>

**PAGES****PAPERS**

---

163 - 170	<b>Identify Microstructure and Mechanical Behavior of Aluminum Hybrid Nano Composite Prepared by Casting Technique</b> <i>Khaldun Aldawoudi, Ayad Mohammed Nattah, Nabaa Sattar Radhi, Zainab S. Al-Khafaji, Manar Khaleel Ibrahim</i> <a href="https://doi.org/10.59038/jmie/190112">https://doi.org/10.59038/jmie/190112</a>
171 - 177	<b>Improvement of Corrosion and Wear Resistance of (Ti12Mo5Ta) Alloy by Germanium Addition Used in Biomedical Applications</b> <i>Malik Abdul-husien, Haydar H.J Jamal Al Deen, Ahmed O. Al-Roubaiy</i> <a href="https://doi.org/10.59038/jmie/190113">https://doi.org/10.59038/jmie/190113</a>
179 - 192	<b>Enhancing Corrosion Resistance and Mechanical Strength In Dissimilar Steel Welding Through Controlled Waveform</b> <i>Ratchagaraja Dhairiyasamy , Deepika Gabriel</i> <a href="https://doi.org/10.59038/jmie/190114">https://doi.org/10.59038/jmie/190114</a>
193 - 202	<b>A Five-Point-Scale Group Fuzzy-TOPSIS Contractor Selection Model Considering Minimum Expectations</b> <i>Hala Sabaneh, Shereen Ababneh, Omar Al-Araidah, Khairedin Abdalla, Nikos D. Lagaros</i> <a href="https://doi.org/10.59038/jmie/190115">https://doi.org/10.59038/jmie/190115</a>
203 - 214	<b>Influence of friction stir processing on mechanical properties and the microstructure of aluminum-silicon cast alloys</b> <i>Alaa Mohammed Hussein Wais, Jassim M.Salman Ahmed, Ouda Al-Roubaiy</i> <a href="https://doi.org/10.59038/jmie/190116">https://doi.org/10.59038/jmie/190116</a>
215 - 228	<b>Analyzing the Effects of Axially Defective Blades on Wind Turbine Performance Optimization Using Taguchi-based Grey Relational Analysis</b> <i>Abdulhamid Hamdan Al-Hinai, Karu Clement Varapasad, V. Vinod Kumar</i> <a href="https://doi.org/10.59038/jmie/190117">https://doi.org/10.59038/jmie/190117</a>
229 - 236	<b>Solar Salt Doped with Nano Additive Expanded Graphite as a Promising Phase Change Material for Thermal Energy Storage Systems</b> <i>Priyanka, N Shanmuga priya</i> <a href="https://doi.org/10.59038/jmie/190118">https://doi.org/10.59038/jmie/190118</a>
237 - 248	<b>Diagnosis of Hydrodynamic Bearings by Evaluation based on Orbital Analysis Approach</b> <i>Imad El Adraoui , Youssef Jabari , Hassan Gziri</i> <a href="https://doi.org/10.59038/jmie/190119">https://doi.org/10.59038/jmie/190119</a>

---