



Page No.	Papers Titles
1 - 17	*Modeling and Optimization of Bobbin Friction Stir Welding for AA6061-T6 alloy Utilizing Response Surface Methodology <i>Samir Ali Amin & Mohannad Yousif Hanna & Alhamza Farooq Mohamed</i>
18 - 32	* Comparing The Accuracy of Different Map Projections and Datums Using Truth Data <i>Amjed Naser Mohsin AL-Hameedawi</i>
33 - 40	* Parametric Study for the Effect of Suspension Composition on Electrophoretic Deposition of Zirconia <i>-Alaa Abdul hasan Atiyah & Saad Badry Hasson Farid & Awham Jumah Salman</i>
41 - 54	* A Comparative Study of Transient Stability Power System Analysis Using Energy Function Methods for High Performance of Critical Clearing Time <i>-Inas Jabbar Mohammed</i>
55 - 69	* Suggested Safe Design for U-turn Under Different Levels of Flow <i>-Hamid Athab Al-Jameel & Jasim Mohammed Ali Al- Hamami</i>
70 - 84	* Hydrogeological Properties of Groundwater in Karbala'a Governorate – Iraq <i>-Hussein Ilaibi Zamil Al-Sudani</i>
85 - 92	* The Effect of Heat Treatment on the Machinability, Tensile Strength, Hardness, Ductility and Microstructure of Carbon steel (GOST 50). <i>-Sattar Hantosh A. Alfatlawi</i>
93 - 103	*Investigating the Effects of Microwave Furnaces Heat on the Mechanical Properties and Fatigue Life of AA6061-T6 Alloy <i>-Ahmed Adnan Shandookh</i>
104 - 123	*Manufacturing A Refrigerator with Heat Recovery Unit* <i>-Mustafa Mohammed Kadhim</i>
124 - 131	*Simulation and Comparison Between Slow and Fast FH/BPSK Spread Spectrum Using Matlab <i>-Sanaa Said Kadhim</i>
132 – 146	*Numerical Prediction of a Radial Turbine Performance designed for Automotive engines Turbocharger <i>-Layth H. Jawad</i>
147 - 157	* The Effect of Turbulences Flow on a Gas-Liquid Mixing Process Downstream of a Curved Duct <i>-Abdul Satar Jawad Mohammed & Huda Ali Nasser-allah</i>
158 - 171	* Simulation of Evacuated Tube Collector and Storage of Hybrid Air-conditioning System <i>-Mustafa Ahmed Abdulhussain</i>
172 - 184	*Optimization of Power Consumption for the Design of 802.11n MIMO_OFDM System <i>-Muthna Jasim Fadhil</i>
185 - 194	* Vertical Hydraulic Conductivity of Unsaturated Zone by Infiltrometer Analysis of Shallow Groundwater Regime (KUISG) <i>-Arkan Radhi Ali</i>
195 - 207	*The Comparative Study Some of Reactive and Proactive Routing Protocols in The Wireless Sensor Network <i>-Anas Ali Hussien & Safa Ihsan Matloob</i>
208 - 221	* Analysis of the Modeling Outputs of Shape Factor Effect on Flow Structure between Bridge Piers <i>-Shaker Abdulatif Jalil</i>
222 - 236	*Evaluating The Performance of Asphalt Concrete Mixes by Utilizing Carbon Black as Asphalt Modifier <i>-Aliaa Faleh Al.ani</i>
237 - 248	* Fatigue Analysis of Welding Joints of ASTM A36 Low Carbon Steel by Using Finite Element Method <i>- Manar Abdulameer AL-Musawi & Abdul Rheem. K. Abid Ali</i>
249 - 255	* The Effect of Adding Graphite on the Structural and Mechanical Properties of Titanium Carbide <i>*Ahmed Al-Ghaban & Kadhum Mutter Shabeeb & Aseel Hadi Hamaza</i>

256 - 271	* The Effect of Thickness Ratio in Cantilever Pipe for Rectangular Cross Section Conveying water at turbulent flow on Transverse Free Vibrations <i>-Nawal Hussein Al Raheimy</i>
272 - 281	* Medical Image Denoising Using Mixed Transforms <i>-Jaleel Sadoon Jameel</i>
282 - 291	*The Effect of Catalyst Type on The Microstructure and Magnetic Properties of Synthesized Hard Cobalt Ferrite Nanoparticles. <i>-Shaima'a Jaber Kareem &Ali Abdul Hameed Rajeh</i>
292 - 306	* Optimal Trajectory Tracking Control for a Wheeled Mobile Robot Using Fractional Order PID Controller <i>-Ameer L. Saleh& Maab A. Hussain& Sahar M.Klim</i>
307 - 315	* Experimental Investigation of Rice Husk Particles as Filler in Hybrid Composites <i>-Sawsan D. Ahmed Shubbar-</i>
316 - 330	* Integration of the Assessment and Design of Cellular Manufacturing System <i>-Sanaa Ali Hamza</i>
331 - 344	* Improving Behavior of Castellated Beam by Adding Spacer Plat and Steel Rings <i>-Hayder Wafi Ali Al-Tabhawee&Muslim Abdul-Ameer Al-Kannoon</i>
345 - 353	*Synthesis of Expanded clay Aggregate Pellets by Using Local Raw Materials <i>-Elham Abid Almajeed&Samer Karim Turki</i>