|  |  |  |  |
| --- | --- | --- | --- |
| **البحوث المنشورة لتدريسسي قسم الهندسة الميكانيكية للعام الدراسي 2017-2018 ووضمن الخطة البحثية** | | | |
| ت | اسم التدريسي | البحث | الفترة المخصصة للتنفيذ |
| 1 | م.د. اياد طارق مصطفى | Solar vortex engine: Experimental modelling and evaluation | [Renewable Energy](https://www.sciencedirect.com/science/journal/09601481)  [Volume 121](https://www.sciencedirect.com/science/journal/09601481/121/supp/C), June 2018, Pages 389-399 |
| 2 | أ.م.د. فينوس مجيد حميد | Effect of new type of enhancement on inside and outside surface of the tube side in single pass heat exchanger | [Applied Thermal Engineering](https://www.sciencedirect.com/science/journal/13594311)  [Volume 122](https://www.sciencedirect.com/science/journal/13594311/122/supp/C), 25 July 2017, Pages 484-491 |
| 3 | أ.م.د. اياد مراد طخاخ | Manufacturing and analysis of ankle disarticulation prosthetic socket | International Journal of Mechanical Engineering and Technology (IJMET)  Volume 9, Issue 7, July 2018, pp. 560–569 |
| 4 | أ.م.د. اياد مراد طخاخ | Surface modification of AA 7075-T651 plate using friction stir processing with sic particles | emirates journal for engineering research |
| 5 | أ.م.د. اياد مراد طخاخ | Characterization of material used in manufacturing the ankle foot ortheses |  |
| 6 | أ.م.د. اياد مراد طخاخ | Manufacturing, testing, and numerical modeling a lower limb orthosis for a patient that has a partial foot amputation |  |
| 7 | أ.م.د. اياد مراد طخاخ | An investigation to the effect of copper addition on the characteristics of Ni-Ti shape memory alloy |  |
| 8 | د.غانم شاكر صادق | Microstructure Analysis and Compression Strength Investigation of the Copper Reinforced with Nano & Micro Particles of Alumina | International Journal of Applied Engineering Research ISSN 0973-4562 Volume 13, Number 8 (2018) pp. 5926-5934 |
| 9 | د.غانم شاكر صادق | Effect of laser shock energy on surface hardness and tensile strength of 6061-T6 aluminum alloy | international journal of advance engineering and research development |
| 10 | ا.م.د. أحمد فخري خضير | Numerical Analysis of forced convection heat transfer on a straight finned tube with AL203-Water Nano Fluid | International Journal of Applied Engineering Research ISSN 0973-4562 Volume 13, Number 16 (2018) pp. 12817-12822 |
| 11 | ا.م.د. أحمد فخري خضير | The influence of single slotted flap, distance of gap and angle of attack on wake propagation downward airfoil |  |
| 12 | ا.م.د. أحمد فخري خضير | Enhancement of forced convection heat transfer for sio2 flow through channel with ribs at constant heat flux |  |
| 13 | ا.م.د. أحمد فخري خضير | Numerical investigation of forced convection heat transfer on a circular finned tube with AL203-Water nano fluid |  |
| 14 | ا.م.د. أحمد وحيد مصطفى | Natural convection in a parabolic enclosure with an internal vertical heat source filled with Cu-water nanofluid | Heat Transfer-Asian Research |
| 15 | ا.م.د. أحمد وحيد مصطفى | The optimal spacing between diamond-shaped tubes cooled by free convection using constructal theory |  |
| 16 | ا.م.د. عقيل عبدالله محمد | - Experimental investigation of mixed convection heat transfer in a vertical and horizontal annulus with rotating inner cylinder | **International Journal of Mechanical and Mechatronics Engineering** Volume 19 Issue 05 |
| 17 | ا.م.د. عقيل عبدالله محمد | Combined convection heat transfer at the entrance tegion of horizontal semicircular duct | international journal of engineering and applied science |
| 18 | م.د. أحمد رياض عباس | Studying the Effect of Using Assist Gas with Low Power CO2 Laser Glass Drilling | American Journal of Engineering Research (AJER) |
| 19 | م.د. أحمد رياض عباس | GLASS IONOMER CEMENT MECHANICAL PROPERTIES ENHANCEMENT USING HYDROXYAPATITE MICRO AND NANO PARTICLES | ARPN Journal of Engineering and Applied Sciences |
| 20 | م.د. كاظم حسين صفر | Aerodynamics and model analysis for combined van type vertical axis wind turbine | journal of engineering and applied science (JEAS) |