

| تعاون مع باحثين خارج القسم | البحوث المفهرسة في (scopus) للفترة (2017-2024) |        |               | ت |
|----------------------------|------------------------------------------------|--------|---------------|---|
|                            | المجموع                                        | Scopus | نوع المجلة    |   |
| 2                          | 2                                              | 2      | 2017          | 1 |
| 1                          | 2                                              | 2      | 2018          | 2 |
| 4                          | 11                                             | 11     | 2019          | 3 |
| 4                          | 18                                             | 18     | 2020          | 4 |
| 5                          | 11                                             | 11     | 2021          | 5 |
| 5                          | 16                                             | 16     | 2022          | 6 |
| 7                          | 10                                             | 10     | 2023          | 7 |
| 5                          | 14                                             | 14     | 2024          | 8 |
| 28                         | 70                                             | 70     | المجموع الكلي |   |

| البحوث المنجزة لتدريسي قسم الهندسة الميكانيكية والمنشورة في مجلات ضمن تصنيف سكوبس للفترة (2017-2024) |                                                           |                                                                                                                                |                                                                                         |           |            |                            |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------|------------|----------------------------|
| ت                                                                                                    | إسم الباحث                                                | عنوان البحث                                                                                                                    | إسم المجلة                                                                              | سنة النشر | نوع المجلة | الملاحظات                  |
| 1                                                                                                    | احمد فؤاد النعمة<br>اخرين                                 | An experimental and numerical investigation of the use of liquid flow in serpentine microchannels for microelectronics cooling | Applied Thermal Engineering                                                             | 2017      | Scopus     | تعاون مع باحثين خارج القسم |
| 2                                                                                                    | عمار حازم صابر<br>واخرون                                  | Soot reduction in an entrained flow gasifier of biomass by active dispersion of fuel particles                                 | Fuel                                                                                    | 2017      | Scopus     | تعاون مع باحثين خارج القسم |
| 3                                                                                                    | محمد نجيب عبدالله                                         | Numerical and Experimental Investigation on the Effect of Billet Preforming in the Flange Forming                              | International Journal of Engineering & Technology                                       | 2018      | Scopus     |                            |
| 4                                                                                                    | احمد فؤاد النعمة<br>اخرين                                 | Thermal management of GaN HEMT devices using serpentine minichannel heat sinks                                                 | Applied Thermal Engineering                                                             | 2018      | Scopus     | تعاون مع باحثين خارج القسم |
| 5                                                                                                    | عمر ذنون جمعه<br>اخرين                                    | Numerical Simulation And Optimization Of Gallium Nitride Growth In Mocvd Manufacturing Process                                 | 3rd Thermal and Fluids Engineering Conference                                           | 2019      | Scopus     | تعاون مع باحثين خارج القسم |
| 6                                                                                                    | عمر ذنون جمعه<br>اخرين                                    | The Effect of Carrier Gas and Reactor Pressure on Gallium Nitride Growth in MOCVD Manufacturing Process                        | Journal of heat transfer (ASME)                                                         | 2019      | Scopus     | تعاون مع باحثين خارج القسم |
| 7                                                                                                    | زياد شكيب عبد الباقي<br>ماجد مدحت سعيد                    | Design And Analysis Of Slotted Block Horn Used For Ultrasonic Power Applications                                               | Journal Of Southwest Jiaotong University                                                | 2019      | Scopus     |                            |
| 8                                                                                                    | زياد محمد مجيد<br>ماهر هاشم هادي                          | Heat Transfer Characteristics For A Fin Exposed To Fully Wet Air                                                               | International Journal of Mechanical and Production Engineering Research and Development | 2019      | Scopus     |                            |
| 9                                                                                                    | زياد محمد مجيد<br>رائد احمد علي<br>معن سعد الدين محمد     | Effect of staggered non – conductive partition on heat transfer in a variable shape cavity                                     | International Journal of Mechanical and Production Engineering Research and Development | 2019      | Scopus     |                            |
| 10                                                                                                   | خالد عباس صالح<br>قيس حازم اسماعيل<br>محمد شعلان عبد فتحي | Estimation of Abrasive Wear of Brass Alloy Impeller                                                                            | Journal of Southwest Jiaotong University                                                | 2019      | Scopus     |                            |

|                                  |        |      |                                                                                         |                                                                                                                                                      |                                                                       |    |
|----------------------------------|--------|------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----|
|                                  | Scopus | 2019 | International Journal of Mechanical and Production                                      | An Effect Of Welding Type On The Mechanical Properties Of Welding Joints                                                                             | خالد عباس صالح<br>قيس حازم اسماعيل<br>محمد شعلان عبد فتحي             | 11 |
|                                  | Scopus | 2019 | International Journal of Scientific & Technology Research                               | Ultrasonic investigation of thermoplastic polymers                                                                                                   | محمد شعلان عبد فتحي                                                   | 12 |
| تعاون مع<br>باحثين خارج<br>القسم | Scopus | 2019 | Sustainable Energy Technologies and Assessments                                         | State of the art single objective optimization of small scale cylindrical cavity receiver                                                            | عمار يونس ابراهيم<br>ياسر شكر محمود<br>اخرون                          | 13 |
|                                  | Scopus | 2019 | International Journal of Mechanical and Production Engineering Research and Development | Heat and mass transfer by hydromantic mixed convection flow along a vertical cylinder embedded in a non-Darcy porous medium with heat source.        | صدام عطيه محمد                                                        | 14 |
| تعاون مع<br>باحثين خارج<br>القسم | Scopus | 2019 | Computer Science and Data Engineering,                                                  | Optimization Methodology of Small Scale Horizontal Axis Shrouded Tidal Current Turbine                                                               | علي عزام محمد الخباز<br>In Cheol Kim<br>HyunTae Jeong<br>Young Ho Lee | 15 |
| تعاون مع<br>باحثين خارج<br>القسم | Scopus | 2020 | International Journal of Energy and Environmental Engineering                           | The suitability of microscale compressed air axial turbine for domestic solar powered Brayton cycle                                                  | زهراء يوسف قريشات<br>رنا محمد فرجات<br>اخرون                          | 16 |
|                                  | Scopus | 2020 | Thermal Science and Engineering Progress                                                | Performance analysis of hybrid photovoltaic thermal solar system in Iraq climate condition                                                           | عمر محمد حمدون                                                        | 17 |
|                                  | Scopus | 2020 | International Journal of Heat and Mass Transfer                                         | Analysis of two-phase flow in a double-pipe heat exchanger filled with porous media                                                                  | عمر محمد حمدون                                                        | 18 |
|                                  | Scopus | 2020 | Frontiers in Heat and Mass Transfer (FHMT)                                              | Effects of Variable Viscosity on Heat and Mass Transfer by MHD Mixed Convection Flow Along a Vertical Cylinder Embedded in a Non-Darcy Porous Medium | صدام عطيه محمد                                                        | 19 |
| تعاون مع<br>باحثين خارج<br>القسم | Scopus | 2020 | Journal of Orofacial Sciences                                                           | A Finite Element Analysis of Biomechanics in Distraction Osteogenesis of Ascending Ramus Lengthening between males and females – A Comparative Study | محمد نجيب عبدالله<br>عماد حازم قاسم<br>اخرون                          | 20 |
|                                  | Scopus | 2020 | International Journal of Mechanical and Production Engineering Research and Development | Specific Exergy Costing Analysis and Optimization of CCPP Power Plant                                                                                | محمد صالح محمد<br>طه احمد عبدالله                                     | 21 |
|                                  | Scopus | 2020 | International Journal of Mechanical and Production Engineering Research and Development | Analysis of The Natural Convection Heat Transfer Inside Square Enclosure Partially Divided by Non-Conductive Partitions                              | رائد احمد علي                                                         | 22 |
|                                  | Scopus | 2020 | International Journal of Advanced Science and Technology                                | Effect of natural and industrial fibers reinforcement on mechanical properties of polymeric matrix composites                                        | غيداء ابراهيم حسين<br>سهى هاشم أحمد                                   | 23 |
| تعاون مع<br>باحثين خارج<br>القسم | Scopus | 2020 | Sustainable Energy Technologies and Assessments                                         | Performance investigation and design optimization of micro scale compressed air axial turbine for domestic solar powered Brayton cycle               | خالد الياس حمو<br>عمر عبدالرحمن محمد<br>اخرون                         | 24 |
|                                  | Scopus | 2020 | International Journal of Mechanical and Production Engineering Research and Development | Finding the best rotational speed affecting the stresses analysis for gas turbine blades subjected to centrifugal forces.                            | سهى هاشم احمد<br>غيداء ابراهيم حسين                                   | 25 |
|                                  | Scopus | 2020 | International Journal of Mechanical and Production Engineering Research and Development | Measurement correction of two dimensional-wind tunnel with porous walls using singularity method                                                     | طه احمد عبدالله<br>محمد صالح محمد                                     | 26 |

|                            |        |      |                                                                                         |                                                                                                                                                       |                                                           |    |
|----------------------------|--------|------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|----|
|                            | Scopus | 2020 | International journal of mechanical and production                                      | Determination the stretch bending limit ratio for sheet metals during the stretch bending process                                                     | انس عبيد ادريس                                            | 27 |
|                            | Scopus | 2020 | International Journal of Mechanical and Production Engineering Research and Development | Appropriate selection of mechanical element used in manufacturing load cell                                                                           | احمد سعدون عبدالعزيز<br>احمد نافع راشد                    | 28 |
|                            | Scopus | 2020 | International Journal of Mechanical and Production Engineering Research and Development | Design And Performance Analysis Of A Heat Exchanger Used In A Vapour Compression Refrigeration System                                                 | عدنان محمد عبدالله<br>معن سعد الدين محمد                  | 29 |
|                            | Scopus | 2020 | Journal of Engineering Science and Technology                                           | Comparison between dynamic discrete element method and static discrete element method to determine neck size between powders during sintering process | انس عبيد ادريس<br>زياد شكيب عبدالباقى                     | 30 |
|                            | Scopus | 2020 | International Journal of Mechanical and Production Engineering Research and Development | Numerical investigation on wing performance using singularity method                                                                                  | طه احمد عبدالله                                           | 31 |
|                            | Scopus | 2020 | Journal of Southwest Jiaotong University                                                | Mechanical properties of nano-composite materials                                                                                                     | محمد شعلان عبد فتحي                                       | 32 |
| تعاون مع باحثين خارج القسم | Scopus | 2020 | International Journal of Heat and Mass Transfer                                         | Analysis of two-phase flow in a double-pipe heat exchanger filled with porous media                                                                   | عمر محمد حمدون<br>اخرين                                   | 33 |
|                            | Scopus | 2021 | Journal of Mechanical Engineering Research                                              | Evaluation of Vibration Amplitude Stepping and Welding Performance of 20 kHz and 40 kHz Ultrasonic Power of Metal Welding                             | زياد شكيب الصراف<br>احمد فتاح احمد<br>خالد الياس حمو      | 34 |
|                            | Scopus | 2021 | International Journal of Mechanical and Production Engineering Research and Development | Effect of combustion duration on the performance and emission of four stork spark ignition engine using gasoline biofuel blend                        | عبدالرحمن حيو محمد<br>نورالدين صالح خضر<br>ياسر شكر محمود | 35 |
| تعاون مع باحثين خارج القسم | Scopus | 2021 | Journal of Orofacial Sciences                                                           | Does the flatting of the curve of spee affect the chewing force distribution in mandible? (3D finite element study)                                   | محمد نجيب عبدالله<br>عماد حازم قاسم<br>اخرين              | 36 |
| تعاون مع باحثين خارج القسم | Scopus | 2021 | Journal of Manufacturing Science and Engineering                                        | Influence of precursor concentration on crystalline quality of GaN thin films grown on a sapphire wafer                                               | عمر ذنون جمعه<br>اخرين                                    | 37 |
|                            | Scopus | 2021 | Proceedings of the 7th world congress on mechanical, chemical, and material engineering | Hydromagnetic mixed convection along a vertical cylinder in a stratified non-Darcian porous medium                                                    | صدام عطيه محمد<br>عبدالكريم يونس                          | 38 |
|                            | Scopus | 2021 | Journal of Mechanical Engineering Research                                              | Evaluation of Vibration Amplitude Stepping and Welding Performance of 20 kHz and 40 kHz Ultrasonic Power of Metal Welding                             | زياد شكيب عبدالباقى<br>احمد فتاح احمد<br>خالد الياس حمو   | 39 |
| تعاون مع باحثين خارج القسم | Scopus | 2021 | Journal of Heat Transfer                                                                | Experimental Study of the Effect of Precursor Composition on the Microstructure of Gallium Nitride Thin Films Grown by the MOCVD Process              | عمر ذنون جمعه<br>اخرين                                    | 40 |
|                            | Scopus | 2021 | Journal Europeen des Systemes Automatis                                                 | Using Artificial Neural Networks to Predict the Effect of Input Parameters on Weld Bead Geometry for SAW process                                      | ماجد مدحت سعيد<br>زياد شكيب عبد الباقى                    | 41 |
|                            | Scopus | 2021 | Journal of Mechanical Engineering Research and Developments                             | The combining effect of changing forming path and heating effect during stretch forming process to enhance the formability of Al 6061 sheet           | انس عبيد ادريس<br>عامر يحيى محمد                          | 42 |
| تعاون مع باحثين خارج القسم | Scopus | 2021 | Journal of Orthodontic Science                                                          | The effect of floride gel on tensile properties, surface morphology and chemical composition of two types of orthodontic wires (an in-vitro study)    | محمد طارق سليمان<br>واخرين                                | 43 |

|                            |        |      |                                                                                      |                                                                                                                  |                                                                                                             |    |
|----------------------------|--------|------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----|
| تعاون مع باحثين خارج القسم | Scopus | 2021 | Renewable Energy                                                                     | A novel linearization approach of chord and twist angle distribution for 10 kW horizontal axis wind turbine      | علي عزام محمد الخباز<br>Ho-Seong Yang<br>A.H Samitha<br>Weerakoon<br>Young-Ho Lee                           | 44 |
|                            | Scopus | 2022 | International Journal of Mechanical Engineering                                      | ON CFD WING PERFORMANCE FOR ULTRA-LIGHT AIRPLANE                                                                 | طه احمد عبدالله<br>محمد صالح محمد<br>يونس محل نجم                                                           | 45 |
|                            | Scopus | 2022 | International Journal on Technical and Physical Problems of Engineering (IJTPE)      | PARTIALLY SHADING A PV MODULE: ANALYSIS AND DESIGN WITH SIMULATION                                               | احمد خالد ابراهيم<br>رامز ابراهيم سعيد<br>رائد احمد علي                                                     | 46 |
| تعاون مع باحثين خارج القسم | Scopus | 2022 | Gongcheng Kexue Yu Jishu/Advanced Engineering Science                                | Experimental Assessment of a Hot Water Solar Collector for Sustainable Buildings in Iraq                         | احمد خالد ابراهيم<br>رائد احمد محمود<br>علي غازي محمد                                                       | 47 |
| تعاون مع باحثين خارج القسم | Scopus | 2022 | Symmetry publisher MDPI                                                              | Fault Diagnosis of Crack on Gearbox Using Vibration-Based Approaches                                             | سفيان عبدالحكيم محمد اخرون                                                                                  | 48 |
|                            | Scopus | 2022 | International Journal on "Technical and Physical Problems of Engineering" (IJTPE)    | TURBULENT FLAME SPEED IN SPARK IGNITION ENGINES FOR BIOFUEL AND GASOLINE BLEND                                   | نورالدين صالح خضر<br>عبدالرحمن حبو محمد<br>ياسر شكر محمود                                                   | 49 |
|                            | Scopus | 2022 | International journal on technical and physical problems of engineering              | Effect of applied static stresses on the behaviour of mechanical elements                                        | احمد سعدون عبدالعزيز<br>احمد نافع راشد                                                                      | 50 |
|                            | Scopus | 2022 | International Journal on "Technical and Physical Problems of Engineering             | EFFECT OF CHANGE IN FORMING DIES SHAPE AND METALS ON EXTRUSION FORCE - NUMERICAL ANALYSIS AND EXPERIMENTAL STUDY | ماجد مدحت سعيد<br>محمد نجيب عبدالله<br>علاء دحام يونس                                                       | 51 |
|                            | Scopus | 2022 | International journal on technical and physical problems of engineering (IJTPE)      | Effect of applied static stresses on the behavior of mechanical element                                          | احمد سعدون عبد العزيز<br>احمد نافع راشد<br>د.عبدالحق عبدالقادر الدباغ                                       | 52 |
|                            | Scopus | 2022 | International Research Journal of Innovations in Engineering and Technology (IRIJET) | Select the Optimum Die Design for Flange Coupling Forming By Hot Forging                                         | محمد نجيب عبدالله<br>باحث اخر                                                                               | 53 |
|                            | Scopus | 2022 | AIP Conference Proceedings                                                           | The effect of sulfurous water on the corrosion behavior of carbon steel with different carbon ratio              | غيداء ابراهيم حسين السراج<br>سهي هاشم أحمد                                                                  | 54 |
|                            | Scopus | 2022 | International Journal on Technical and Physical Problems of Engineering(IJTPE)       | The effect of forming speed on the position of necking during sheets metals forming process                      | انس عبيد ادريس<br>قيس حازم اسماعيل قاسم<br>محمد شعلان عبد فتحي                                              | 55 |
|                            | Scopus | 2022 | Journal of Vibration Engineering and Technologies                                    | Active Balancing Disk of Rotor-Bearing Systems Based on Vibration Amplitude Data: MATLAB-Aided Wireless Control  | محمد طارق سليمان العبود                                                                                     | 56 |
| تعاون مع باحثين خارج القسم | Scopus | 2022 | International J. Mechanical Science                                                  | Impacts of compact diffuser shroud on wind turbine aerodynamic performance: CFD and Experimental study           | علي عزام محمد الخباز<br>Ho-Seong Yang<br>Watchara Tongphong<br>Young-Ho Lee                                 | 57 |
| تعاون مع باحثين خارج القسم | Scopus | 2022 | Energies                                                                             | FOWT stability study according to number of columns considering amount of materials used                         | Ho-Seong Yang<br>علي عزام محمد الخباز<br>Watchara Tongphong<br>Dylan Sheneth<br>Edirisinghe<br>Young-Ho Lee | 58 |

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|----------------------------|--------|------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----|
| تعاون مع باحثين خارج القسم | Scopus | 2022 | Proceedings of the institution of mechanical engineers part C: Journal of              | Preferred location of the porous sleeve in a concentric annulus depending on the thermal insulation                                                               | Hudhaifa Hamzah Laith M. Jasim<br>علي عزام محمد الخباز                                  | 59 |
| تعاون مع باحثين خارج القسم | Scopus | 2023 | Energy Reports                                                                         | Thermal conductivity improvement in a green building with Nano insulations using machine learning methods                                                         | Mohammad Ghalandari Azfarizal Mukhtar Ahmad Shah Hizam Md Yasir<br>علي عزام محمد الخباز | 60 |
| تعاون مع باحثين خارج القسم | Scopus | 2023 | ASME International Mechanical Engineering Congress and Exposition, Proceedings (IMECE) | Gearbox Vibration Analysis Using a Spectrogram and Power Spectrum Approach                                                                                        | سفیان عبدالحکیم محمد نوبی مهدي غزالي جميل عبدو                                          | 61 |
| تعاون مع باحثين خارج القسم | Scopus | 2023 | International Journal on Technical and Physical Problems of Engineering (IJTPE)        | A PRACTICAL MEASUREMENTS OF FRICTION COEFFICIENTS DURING COMPACTION PROCESS OF DIFFERENT CERAMIC POWDERS                                                          | د. عبدالحق عبدالقادر حامد د. حازم محمد عبد                                              | 62 |
| تعاون مع باحثين خارج القسم | Scopus | 2023 | Renewable Energy                                                                       | Numerical and experimental investigation on water vortex power plant to recover the energy from industrial wastewater                                             | علي عزام محمد الخباز and others                                                         | 63 |
| تعاون مع باحثين خارج القسم | Scopus | 2023 | Journal of Oral Biology and Craniofacial Research                                      | PowerScope 2 functional appliance: A 3D finite element simulation of its action on the mandible                                                                   | محمد نجيب عبدالله وباحثون اخرون                                                         | 64 |
| تعاون مع باحثين خارج القسم | Scopus | 2023 | Applied Thermal Engineering                                                            | Local thermal equilibrium analysis of complete phase change process inside porous diffuser using NanoFluids                                                       | د. عمر محمد حمدون وباحثون اخرون                                                         | 65 |
|                            | Scopus | 2022 | CFD Letters                                                                            | Numerical Investigation on the Effect of Profile and Blade Numbers in a Savonius Vertical Axis Wind Turbine                                                       | احمد خالد ابراهيم رامز ابراهيم سعيد                                                     | 66 |
|                            | Scopus | 2023 | Journal of Thermal science and engineering application                                 | -Manufacturing of Gallium Nitride Thin Films in a Multi Wafer MOCVD Reactor                                                                                       | عمر ذنون جمعه                                                                           | 67 |
| تعاون مع باحثين خارج القسم | Scopus | 2023 | International Journal on Technical and Physical Problems of Engineering (IJTPE)        | EXPERIMENTAL COMPARISON OF THERMAL PERFORMANCE BETWEEN V-CORRUGATED AND FLAT PLATE SOLAR COLLECTORS                                                               | عدنان محمد عبد الله وباحثان اخران                                                       | 68 |
| تعاون مع باحثين خارج القسم | Scopus | 2024 | Ocean Engineering                                                                      | The aero-hydrodynamic interference impact on the NREL 5-MW floating wind turbine experiencing surge motion                                                        | علي عزام محمد الخباز وباحثون اخرون                                                      | 69 |
| تعاون مع باحثين خارج القسم | Scopus | 2024 | Ocean Engineering                                                                      | Cross-comparison analysis of environmental load -components in extreme conditions for pontoon connected semi-submersible FOWT using CFD and potential-based tools | علي عزام محمد الخباز وباحثون اخرون                                                      | 70 |
| تعاون مع باحثين خارج القسم | Scopus | 2024 | Journal of Sustainability                                                              | The Effect of Nacelle Shape and Blade Geometry on the Performance of Small Scale Wind Turbine                                                                     | علي عزام محمد الخباز وباحثون اخرون                                                      | 71 |
| تعاون مع باحثين خارج القسم | Scopus | 2024 | Energy Conversion and Management                                                       | Thirteen vital factors for micro-scale radial turbine vane s design of geo-solar-powered Brayton cycle ' applications                                             | علي عزام محمد الخباز وباحثون اخرون                                                      | 72 |
|                            | Scopus | 2024 | Al-Rafidain Engineering Journal (AREJ)                                                 | Energy Consumption Enhancement of a Solar Under Floor Heating System in a Small Family House Located in Mosul City, Iraq                                          | سارة قيس خليل د. عمر محمد حمدون زياد محمد مجيد                                          | 73 |
| تعاون مع باحثين خارج القسم | Scopus | 2024 | Mathematical Modelling of Engineering Problems                                         | Enhancing Solar Panel Cooling and Thermal Efficiency Using Nanoparticle-Enhanced Phase Change Materials                                                           | زياد محمد مجيد وباحثون اخرون                                                            | 74 |
|                            | Scopus | 2024 | Al-Qadisiyah Journal for Engineering Sciences                                          | Study the corrosion behavior of low-carbon steel weldments immersed in tap water                                                                                  | زينة ميسر عبد جادر قيس حازم اسماعيل محمد شعلان عبد فتحي                                 | 75 |
|                            | Scopus | 2024 | Al-Rafidain Engineering Journal (AREJ)                                                 | Thermodynamic Design of 10 TR Single-Effect LiBr-H2O Absorption Refrigeration System                                                                              | طالب ماجستير صدام عطية محمد                                                             | 76 |
|                            | Scopus | 2024 | Journal of Composite and Advanced Materials                                            | Enhancement of Mechanical Properties in Copper Matrix Composites through Cold and Hot Powder Compaction Techniques                                                | عبدالحق عبدالقادر حامد                                                                  | 77 |
|                            | Scopus | 2023 | Al-Rafidain Engineering Journal (AREJ)                                                 | A Solid Particle Erosion of Composite Materials: Review Paper                                                                                                     | طالب ماجستير عبدالحق عبدالقادر حامد                                                     | 78 |

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|--|--------|------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----|
|  | Scopus | 2024 | Al-Rafidain Engineering Journal (AREJ)                                | Simulation of Direct Extrusion Process of Aluminum Alloy Using the Finite Element Method                                         | طالب ماجستير<br>محمد نجيب عبدالله            | 79 |
|  | Scopus | 2024 | International Journal of Mechanical Engineering and Robotics Research | Optimal Design of Catenoidal Sonotrode for Ultrasonic Welding Process                                                            | عبدالحق عبدالقادر حامد<br>محمد نجيب عبد الله | 80 |
|  | Scopus | 2024 | International Journal of Mechanical Engineering and Robotics Research | Experimental Investigation of the Effect of Die Shape on Mechanical Properties of Aluminum Alloy by Hot Direct Extrusion Process | طالب ماجستير<br>محمد نجيب عبدالله            | 81 |
|  | scopus | 2024 | Lecture Notes in Mechanical Engineering                               | Three Dimensional CFD Analysis of Horizontal Wind Turbine Designed for Mosul City Weather Conditions                             | ياسر شكر محمود                               | 82 |
|  | Scopus | 2023 | Al-Rafidain Engineering Journal (AREJ)                                | Mathematical Modelling and PID Controller Implementation to Control Linear and Nonlinear Quarter Car Active Suspension           | طالب ماجستير<br>علاء دحام يونس               | 83 |
|  | Scopus | 2024 | Al-Qadisiyah Journal for Engineering Sciences                         | Thermal analysis of an integrated solar combined cycle power plant and its application in southern Iraq                          | طالب ماجستير<br>عبدالرحمن حبو                | 84 |