



وزارة التعليم العالي والبحث العلمي
جامعة بغداد – كلية الهندسة
قسم الهندسة الميكانيكية
السيرة الذاتية لأعضاء الهيئة التدريسية



- **الاسم:** هيثم هاشم محمد حسن
- ❖ **دكتوراه في الهندسة الميكانيكية / عمليات تصنيع**
- ❖ **ماجستير في الهندسة الميكانيكية / عمليات تصنيع**
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- **الدرجة العلمية:** مدرس
- **الاسم المستخدم بحساب google scholar**
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- **الاتجاهات البحثية:**

- 1- المواد المركبة (Composite materials)
- 2- العمليات التشغيلية (Machining Processes)
- 3- عمليات التشكيل (Metal Forming)
- 4- عمليات البثق (Extrusion Process)
- 5- الضغط الزاوي في قناة متساوية المقطع (ECAP)
- 6- اللحام (Welding)

• **الابحاث المنشورة:**

- 1- تصميم وتصنيع الشكل الهندسي للمفاصل الاصطناعية باستخدام الحاسوب لأغراض التطبيقات الطبية المؤتمر القطري الأول للهندسة الميكانيكية والمعادن وهندسة المواد الكوفة ، العراق (2000).
- 2- "The effect of non linearity of the material on the contact profiles in the manufacture of artificial joint " The Iraqi journal for Mechanical and materials Engineering (2009) .
- 3- A Thermal Elasto Hydrodynamic Lubrication analysis for Work Zone Film Thickness in Cold Strip Rolling (The 5th Conference of Baghdad University ,Collage of Engineering (2003).



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- 4- Elasto Hydrodynamic lubrication analysis of artificial joint with porous material under Quasi statistic condition .(The 6th Engineering Conference ,Baghdad university) Baghdad , Iraq (2009).
- 5- Effect of Angle of Rotation for fiber Aligned in a composite material wall of inclined Enclosure on heat transfer. (International journal of Computer Applications IJCA) ,(2014)
- 6- Effect of fiber orientation for fiber glass reinforced composite material on mechanical properties (International Conference of mechanical , Engineering Materials (IJMAME'13) Kuala Lumpur ,Malaysia,(2013).
- 7- Effect of Volume fraction on toughness and strength for aluminum carbon fiber and carbon powder composite.(International Conference of Engineering sciences , Baghdad Iraq, (2014) .
- 8- Comparison Between Effect Of Continuous and Discontinuous Fiber Glass Of Reinforced Composite Material On Mechanical Properties, (The Ministry of Industry Conference), Baghdad , (2014).
- 9- Students assessment for faculty member of mechanical department of Baghdad university .(conference of Quality assurance and academic accreditation, Alkuffa university UNESCO ,Iraq) (2014).
- 10- Continuous improvement and its role in promoting quality assurance programs through training program and development for students of Engineering Mechanical Department of Baghdad university .(conference for Quality assurance and academic accreditation, Alkuffa university , UNESCO ,Iraq) (2014).



- 11- " Combined Forward-Backward Extrusion Process For Aluminum Alloys), 1st International Symposium on Light Alloys and Composite Materials (ISLAC 18), p. 176, Karabük, Turkey, March (2018).
- 12- "Evaluation of ECAP process of magnesium alloys for biomedical applications," 1st International Symposium on Light Alloys and Composite Materials (ISLAC'18), Karabuk, Turkey , March 22-24, (2018).
- 13- " Studying the Effect of Temperature During Hot Forming for Combined Backward Forward Extrusion Process for Copper Alloys), 3rd International Conference of Material Science and Technology in Cappadocia (IMSTEC 18), pp. 456-460). Nevşehir, Turkey, September (2018).
- 14- " Effect of curvature angle on ECAP process results for copper alloys," 3rd International Conference on Material Science and Technology in Cappadocia (IMSTEC'18), Nevsehir, Turkey ,September 17-19, (2018).
- 15- " Effect of Lubrication and Friction Coefficients on Temperature Distribution for Combined Backward Forward Extrusion Process For Alloy Steel". 6th International Symposium on Innovative Technologies in Engineering and Science (ISITES 18), pp. 352-357, Alanya, Antalya, Turkey, November (2018).
- 16-Effect of die angle on temperature distribution for Al6061 in ECAP process," International Symposium on Innovative Technologies in the 2018 Published in 6 Engineering and Science 09-11 November 2018 (ISITES, Alanya-Antalya. Turkey, (2018) .
- 17- "Investigation of the Effect of Lubrication and Friction Factors on Loads in Forward Extrusion Processes For Aluminum Alloy 7075 by QForm), 2nd International Congress on Engineering and Architecture (ENAR), pp. 1117-1122, Marmaris, Turkey, April (2019).



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- 18- " Investigation of the effect of velocity on stress for ECAP process of aluminum alloy 7075 by QForm " 2nd International Congress on Engineering and Architecture, Marmaris/Turkey, 22-24 April (2019).
- 19- "Numerical Analysis to Investigate the Effect of Velocity on Stress For Backward Extrusion Process of Aluminum Alloy 6082", 2nd International Congress on Engineering and Architecture (ENAR), pp. 1613-1618, Marmaris, Turkey, April (2019).
- 20- " Numerical analysis to investigate the effect of friction factor and lubrication on load in ECAP process of aluminum alloy 6061," 2nd International Congress on Engineering and Architecture, Marmaris/Turkey, 22-24 April (2019).
- 21- " Effects of Zinc Content and Velocity on Load During Backward Extrusion Processes in Aluminum Alloys) The International Conference on Materials Science, Mechanical and Automotive Engineering and Technology (IMSMATEC 19), pp. 433-437, Cappadocia, Turkey, June (2019).
- 22- "Velocity and die angle influence on stress distribution during ECAP process for aluminum alloy," The International Conference on Materials Science, Mechanical and Automotive Engineering and Technology in Cappadocia/Turkey (IMSMATEC'19), June 21-23 (2019).
- 23- "Simulation of Forward Extrusion Process for Aluminum Alloys To Investigate the Influence of Lubrication on Stress Generated", International Symposium on Automotive Science and Technology (ISASTECH), pp. 175-180, Ankara, Turkey, September (2019).



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- 24- " Investigation for lubrication effect on stress distribution during ECAP process by QForm analysis to improve mechanical properties for aluminum alloy," International Symposium on Automotive Science and Technology Ankara, Turkey , 5-6 September (2019).
- 25- " QForm Simulation of Temperature Influence on Load During Combined Backward Forward Extrusion Process of Cu OFE" , 4th International Conference on Material Science and Technology (IMSTEC), pp. 476-480, Kızılcahamam, Ankara, Turkey, October (2019).
- 26- " The influence of curvature angle of ECAP process on the residual stresses for the copoer (OFE)," 4th International Conference on Material Science and Technology in Kızılcahamam /Ankara (IMSTEC) & 18-20 October (2019).

• الإشراف على رسائل الماجستير:

• الإشراف على أطاريح الدكتوراه:

• براءات الاختراع المسجلة:

• الكتب والمؤلفات:

• كتب الشكر والتقدير:

- 1- وزير التعليم العالي عدد 4
- 2- رئيس جامعة بغداد عدد 2
- 3- عميد كلية الهندسة عدد 9
- 4- رئيس قسم الميكانيك عدد 6