

Curriculum Vitae

Personal Information

Name: Hussein Alaa Jaber Mustafa Al-Tabtabaie
Date & Place of Birth: 15/11/1984 (Baghdad, Iraq)
Degree: PhD in Materials Engineering
Scientific Title: Professor
Work Location: Department of Materials Engineering/
University of Technology- Iraq
General and Precise Specialty: Materials Engineering/ Ceramic Materials
Marital Status: Married
Languages: Arabic (Native) and English
Residence Address: Baghdad - Al-Saydia
Phone Number: 00964-7708041318
E-Mail: 130078@uotechnology.edu.iq



Academic Achievement

Degree	Specialization	University	Year
B.Sc.	Materials Engineering	University of Technology- Iraq	(2005-2006) (The first student in the department during the four years)
M.Sc.	Materials Engineering	University of Technology- Iraq	2009 Thesis: "Preparation and Study of Some Factors Effecting on Some Physical and Mechanical Properties of Ceramic"
Ph.D.	Materials Engineering	University of Technology- Iraq	2013 Thesis: "Preparation and Characterization of Boron Carbide at Low Temperatures"

Academic Titles and Grant Dates

- 1- **M. Engineer in 2006.**
- 2- **Assistant Teacher in 2009.**
- 3- **Teacher in 2013.**
- 4- **Assistant Professor in 2016.**
- 5- **Professor in 2023**

Positions and Jobs

- 1- **2008 - 2006:** m. Engineer, Materials Engineering Department/University of Technology.
- 2- **2009 -up to date:** Lecturer, Department of Materials Engineering/University of Technology.
- 3- **2014 - 2019:** Member of the examination committee for postgraduate studies in the Department of Materials Engineering.
- 4- **2014 - 2016:** Director of the Quality Assurance and University Performance Division in the Materials Engineering Department/University of Technology.
- 5- **2019 - 2023:** Head of the Ceramic and Building Materials Engineering Branch in the Materials Engineering Department/University of Technology.
- 6- **2019 - 2023:** Head of the Materials Engineering Department/Deputy at the University of Technology.

Academic and Scientific Experiences

- Teaching the subject of **refractories**, fourth stage.
- Teaching **engineering and functional ceramic materials**, fourth stage.
- Teaching the subject of **powder technology**, fourth stage.
- Teaching the subject of **powder technology processes**, doctoral level.
- Teaching **ceramic materials and manufacturing methods**, master's degree.
- Teaching the subject of **refractories Lab.**, fourth stage.
- Teaching subject of **computer laboratory**, first stage,
- Teaching **engineering drawing**, first stage.
- Evaluating many international and local scientific researches in the field of materials engineering.
- Discussing many doctoral theses and master's theses in the field of materials engineering.

Conferences, Seminars and Training Courses

- Participation in the first international scientific conference on materials engineering and laser applications.
- Participation in the scientific symposium of the Materials Engineering Department/University of Technology.
- Participation in the International Scientific Conference for the second and fourth sessions of Materials Science and Engineering/Malaysia.
- Participation in the workshop on the quality system and university performance evaluation in the Materials Engineering Department.
- Obtaining a computer proficiency certificate from the University of Technology.
- Obtaining the International Computer Proficiency Certificate (IC3) at the University of Baghdad.
- Participation in the computer teaching and learning methods course at the University of Technology - Center for Continuing Education.
- Obtaining a certificate from the German company Knauf for rapid prefabricated construction (dry wall system).
- Participation in a training course on the quality system and academic accreditation within the American IREX organization program, which was held in Erbil/ Iraq.
- Obtaining a certificate from the Administrative Leadership Skills Development Course at the University of Technology - Center for Continuing Education.

Participation in Committees

- Chairman of the Quality Assurance and Performance Evaluation Committee in the Materials Engineering Department for three years.
- Member of the examination committee for postgraduate studies for six years.
- Member of the graduate studies documents audit committee.
- Member of the Scientific Promotions Committee in the Materials Engineering Department.
- Member of the comprehensive examination committee for doctoral students in the Materials Engineering Department.

- Member of the Scientific Committee of the Ceramic and Building Materials Engineering Branch in the Materials Engineering Department.
- Head of the Delisting Committee in the Materials Engineering Department.
- Chairman of the Voluntary Work and Donations Committee in the Materials Engineering Department.
- Chairman and member of many postgraduate student discussions (Master's and PhD).
- Chairman of the ministerial committee formed for the purpose of creating postgraduate studies (master's studies) in the Department of Materials Engineering/University of Diyala- Iraq.

Some published scientific researches

- ❖ Mohamed H. AL-Taie, Fadhil A. Chyad and Hussein A. Jaber, "**Effect of Zirconia Addition on Some Physical and Mechanical Properties of Porcelain**", Eng. & Tech. Journal, Vol. 27, No. 11, 2009.
- ❖ Fadhil A. Chyad, Mohamed H. AL-Taie and Hussein A. Jaber, "**Preparation and Studying Some Physical and Mechanical Properties of Porcelain with Using Feldspar Replacement**", The Iraqi Journal For Mechanical and Material Engineering, Vol. 10, No. 3, 2010.
- ❖ Hussein Alaa Jaber and Sinan Salman Hamde, "**Preparing and Studying the Effect of HA and ZrO₂ Addition on Fracture Strength of Dental Ceramic**", Eng. & Tech. Journal, Vol. 28, No. 6, 2010.
- ❖ Fadhil A. Chyad, Mohamed H. AL-Taie, and Hussein A. Jaber, "**Synthesis of B₄C/YTZP Composite Powder and Studying Effect of its Addition on Mechanical Properties of B₄C**", Eng. & Tech. Journal, Vol. 32, Part (A), No. 5, 2014.
- ❖ Mohamed H. AL-Taie, Fadhil A. Chyad and Hussein A. Jaber, "**An Experimental Investigation of B₄C Preparation from Boric Acid – Polymeric Gel Precursors at Low Temperature**", the Iraqi Journal for Mechanical and Material Engineering, Vol.14, No.4, 2014.
- ❖ Hussein AlaaJaber, "**Synthesis of Mullite Powder from Aluminum Nitrate and Precipitated Silica using Sol-Gel Process**", Eng. & Tech. Journal, Vol. 34, Part (A), No. 8, 2016.
- ❖ Hussein Alaa Jaber, "**Fabrication of Carbon Nanotube Reinforced Al₂O₃/Cr₂O₃ Nanocomposites by Coprecipitation Process**", Al-Khwarizmi Engineering Journal, Vol. 12, No. 4, 2016.
- ❖ Hussein Alaa Jaber, "**Effect of Glass Wool Addition on Some Properties of Cement Mortar**", Eng. & Tech. Journal, Vol. 34, Part (A), No. 14, 2016.
- ❖ Hussein Alaa Jaber, "**Study the Effect of Glass and Carbon Fibers on the Firebrick Properties**", Eng. & Tech. Journal, Vol. 35, Part (A), No. 4, 2017.
- ❖ Ahmed M. Al-Ghaban, Hussein A. Jaber and Aya A. Shaher, "**Investigation of Addition Different Fibers on the Performance of Cement Mortar**", Eng. & Tech. Journal, Vol. 36, Part A, No. 9, 2018.

- ❖ Ahmed M. Al-Ghaban, Hussein A. Jaber and Aya A. Shafer, "**A Comparative Investigation on Mechanical Properties of Various Fibers Reinforced Concrete**", Eng. & Tech. Journal, Vol. 37, Part A, No. 1, 2019.
- ❖ Hussein Alaa Jaber, Rawnaq Salahuddin Mahdi and Ayad K. Hassan, "**Influence of eggshell powder on the Portland cement mortar properties**", Materials Today: Proceedings, Elsevier, Vol. 20, 2020.
- ❖ Aseel M. Abdullah, Hussein A. Jaber and Hanaa A. Al-Kaisy, "**Impact Strength, Flexural Modulus and Wear Rate of PMMA Composites Reinforced by Eggshell Powders**", Eng. & Tech. Journal, Vol. 38, Part A, No. 07, 2020.
- ❖ Huda Sattar Ali, Hussein Alaa Jaber and Saad B.H. Farid, "**Investigation of fluorescent lamp glass waste as a fluxing agent in porcelain bodies**", Materials Today: Proceedings, Elsevier, Vol. 21, 2021.
- ❖ Israa Z. Ahmed, Hussein A. Jaber and Shaymaa M. Salih, "**Electrophoretic deposition used to prepare and analyze the microstructure of chitosan/hydroxyapatite nano-composites**", Eng. & Tech. Journal, Vol. 39, No. 11, 2021.
- ❖ Suha Q AL-Shahrabalee, Hussein Alaa Jaber, "**The Impacts of Calcium Ions Substitution in Hydroxyapatite with Neodymium and Zinc on Biological Properties and Osteosarcoma Cells**", Eng. & Tech. Journal, Vol. 40, No. 12, 2022.
- ❖ Suha Q AL-Shahrabalee, Hussein Alaa Jaber, "**Investigation of the Nd-Ce-Mg-Zn/Substituted Hydroxyapatite Effect on Biological Properties and Osteosarcoma Cells**", Journal of Renewable Materials, Elsevier, Vol. 11, No. 3, 2022.
- ❖ Nariman Hussein Mohammed, Shihab A. Zaidan, Hussein Alaa Jaber, "**Studying Dielectric Properties and Characterization of Glazw Procelian after Adding Micro PZT to The Porcelian Glaze Layer**", Harbin Gongye Daxue Xuebao/Journal of Harbin Institute of Technology, Vol. 54 No. 4, 2022.
- ❖ Israa Zuhair Ahmed, Hussein Jaber, Shayma Salih, "**Hydroxyapatite/Chitosan Coating By Electrophoretic Deposition on SS 316L For Biomedical Application**", Egyptian Journal of Chemistry, Vol. 65, No. 132, 2022.
- ❖ Suha Q AL-Shahrabalee, Hussein Alaa Jaber, "**Bioinorganic Preparation of Hydroxyapatite and Rare Earth Substituted Hydroxyapatite for Biomaterials Applications**", Bioinorganic Chemistry and Applications, Hindawi, 2023.
- ❖ Suha Q AL-Shahrabalee, Hussein Alaa Jaber, "**Investigation in Hydroxyapatite after Cationic Substitution with Neodymium and Magnesium**", Journal of Population Therapeutics and Clinical Pharmacology, Vol. 30, No. 4, 2023.
- ❖ Israa Zuhair Ahmed, Hussein Alaa Jabber, Shaymaa M. Salih, "**Electrophoretic Deposition and Characterization of Chitosan-Hydroxyapatite Nanocomposite Coatings**", AIP Conf. Proc., Vol. 2457, No. 1, 2023.
- ❖ Abeer F Al-Attar, Hussein Alaa Jaber, "**Statistical study of optimizing preparation new SOFC anode**", IEEE 3rd International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic Control and Computer Engineering (MI-STA), 2023.
- ❖ Shaimaa A Naser, Rana A Anaee, Hussein A Jaber, "**Deposition of GdSmTi Coating for Corrosion Control of SS 316L in Bio-Field**", Eng. & Tech. Journal, Vol. 41, No. 6, 2023.
- ❖ Abeer Farouk Al-Attar, Hussein Alaa Jaber, Rana A Anaee, "**Produce Solid Oxide Fuel Cell Anodes as (BaTiO₃)_{100-x}-(MgO) x for Clean Energy**", Results in Engineering, Vol. 19, 2023.

- ❖ Abeer F. Al-Attar, Hussein Alaa Jaber, Ammar Mousa Hasan, **“Enhancement of Mechanical Properties in Glass-Fiber Woven Reinforced Hybrid Composites for Aerospace Applications: An Empirical Investigation”**, *Revue des Composites et des Matériaux Avances*, Vol. 33, Issue 6, pp. 347-355, 2023.
- ❖ Shaimaa Naser, Rana Anaee, Hussein A Jaber, **“In Vitro and In Vivo Study for Behavior of Coated SS316 L with SmNiTi and GdNiTi by DC Sputtering”**, *Chemistry Africa*, Springer International Publishing, Vol. 7, pp. 1303–1310, 2024.
- ❖ Shaimaa A Naser, Rana A Anaee, Hussein A Jaber, **“Gd–Ni–Ti coating to reduce corrosion of SS 316L for bioapplication”**, *Advances in Materials and Processing Technologies*, Taylor & Francis, pp. 1-12, 2024.
- ❖ Shaimaa A Naser, Rana A Anaee, Hussein A Jaber, Anees A Khadom, **“Deposition of nickel-titanium coating on stainless steel 316L by direct current sputtering for bio-implants: Electrochemical, microstructural, and morphological investigations”**, *Inorganic Chemistry Communications*, Elsevier, Vol. 165, 112478, 2024.
- ❖ Altememy, M.A., Muhieldeen Al-Gailani, M.W., Yu, L.J., Hassan, C.S., Jaber, H.A., **“Development and characterisation of thermal properties of hybrid composites from date palm fiber and glass wool reinforced unsaturated polyester”**, *Journal of Engineering Science and Technology* This link is disabled., Vol. 19, No. (4), pp. 1401–1419, 2024.
- ❖ Altemmey, M.A., Muhieldeen, M.W., Yu, L.J., Hassan, C.S., Jaber, H.A., **“Characterization of the Mechanical and Morphological Properties of Hybrid Composites from Date Palm Fiber/Glass Wool Reinforced by Unsaturated Polyester”**, *International Journal of Computational Methods and Experimental Measurements*, Vol. 12, No. (3), pp. 309–321, 2024.

Patents

- 1- Obtaining a patent entitled **“Preparation of an advanced ceramic material used for personal protection from cheap, low-temperature materials.”** Names of the researchers: Prof. Dr. Fadel Attia Jiyad, Prof. Dr. Muhammad Haider Al-Taie and Dr. Hussein Alaa Jaber. The patent granting authority is the Central Organization for Standardization and Quality Control, Iraq, No. 4107, **2014**.
- 2- Obtaining a patent entitled **“Preparation of nano-sized substituted hydroxyapatite through the use of rare earth elements, magnesium, and zinc for biological applications.”** Names of researchers: Dr. Hussein Alaa Jaber, Engineers Suha Qais Muhammad Hassan. The patent granting authority is the Central Organization for Standardization and Quality Control, Iraq, No. 7671, **2022**.

Honors and Certificates of Appreciation

Obtaining many letters of thanks and certificates of appreciation from ministries, heads of universities and various departments, and from multiple organizations and associations.