

Sadeem Abbas Fadhil

Home Address

Iraq - Baghdad

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Date of Birth: 7.8.1980

Nationality: Iraqi

Marital state: married

A permanent Senior lecturer at Al-Nahrain University has a Ph.D. degree in Materials Physics with experience more than twelve years in lecturing and researching at Al-Nahrain University in Iraq and University of Malay in Malaysia.

Education:

2007- 2011 **Baghdad University**

College of Science\Physics Department

The given certificate: Ph.D. in Materials physics.

Thesis subject: the main research work is conducted on atomization process of aluminum to prepare fiber aluminum matrix composites and study the effect of atomization parameters on the mechanical and microstructural properties for the aluminum matrix steel fiber composites.

The overall graduation Degree: 85 %.

2002-2005 **Al-Nahrain University**

College of Science\ Physics Department.

The given certificate: M.Sc. in physics

Thesis subject: A mathematical model was developed and applied on ceramic clays that contains solid inclusions to describe the densification process during viscous sintering process of ceramic materials.

The overall graduation Degree: 81.529 %.

1998-2002 **Baghdad University**

College of Science\ Physics Department.

The given certificate: B.Sc. in Physics.

The overall graduation Degree: 82.26 % rated 2nd on graduation group composed of forty five students.

Employment:

2011- Until now Senior Lecturer Permanent staff at Al-Nahrain University-College of Science-Physics department. (given a leave from May 2013- July 2017 for accompanying his wife to finish her Ph.D. in Malaysia and also to work as a Post Doc there).

2/2016-6/2016 HIR Post Doc. at the **University of Malaya** Faculty of Engineering/ Mechanical Engineering, Centre of Advanced Materials

10/2015-12/2015 HIR Post Doc. at the **University of Malaya**, Physics Department

2/2014-9/2015 Post Doc. Research Fellow at the **University of Malaya** Faculty of Engineering/ Mechanical Engineering-AMMP

2006-2011 Assistant Lecturer at **Al-Nahrain University**-College of Science-Physics department.

Experience:

Field of specialization

Materials physics, Metal forming, Porous aluminum design and manufacturing, Fine grain materials forming, Nano and meso scale materials, Nano modeling, Multiscale modeling, Atomization system design and manufacturing, Metal 3D printing system design.

Researches:

I have the following published researches:

- 1- Sadeem Abbas Fadhil, Jazeel H. Azee, M.A. Hassan, “**Derivation of a new multiscale model: I. Derivation of the model for the atomic, molecular and nano material scales**” *Indian J Phys* (2020). (ISI cited publication)
<https://doi.org/10.1007/s12648-020-01710-w>
- 2- S. A. Fadhil, M. A. Hassan, A. S. M. . Haseeb, H. I. Jaafar, E. A. Al-Ajaj, A. H. Alrawi, and I. Maher, “**Manufacturing of porous aluminum 2024 alloy samples with impressive compression properties,**” *Mater. Res. Express*, **6** (7) (2019). (ISI cited publication)
<https://doi.org/10.1088/2053-1591/ab10af>
- 3- Sadeem Abbas Fadhil, Aoday Al Rawi, Jazeel H. Azee, M.A. Hassan ‘**A new multiscale model to describe a modified Hall-Petch relation at different scales for nano and micro materials**’ *AIP proceedings* **1948**, 020006 (2018). (ISI cited publication)
<https://doi.org/10.1063/1.5034425>
- 4- Jazeel H. Azeez, Sadeem Abbas Fadhil, Z. K. Naser-Alla, and Zamri Z Abidin, “**ALMA Study of the Lensed Galaxy SDP.81**” *Al-Nahrian J. of Science* **0** (1), 2018.
<http://anjs.edu.iq/index.php/anjs/article/view/2015/1658>
- 5- Ahmad K. Ahmad, Sadeem Abbas Fadhil, and Fadhil A. Rasen ‘**A Mathematical Model to Study the Effect of Pore Sizes Distribution on Densification Process in Ceramic Compacts**’ *Journal of Physical Science and Application* **6** (1) 10-15, 2016.
- 6- Sadeem Abbas Fadhil, Jazeel Hussein Azeez, and Abbas Fadhil Whahaeb, “**Solving the instantaneous response paradox of**

entangled particles using the time of events theory” *Eur. Phys. J. Plus* **129** (23), 2014. (ISI cited publication)

<https://link.springer.com/article/10.1140/epjp/i2014-14023-5>

- 7- S. A. Fadhil, E. A. Al-Ajaj, and H. I. Jaffer, “**A Study of the mechanical properties of aluminum composite materials prepared by atomization process,**” *Iraqi J. Phys.*, vol. **9**, no. 15, pp. 75–85, 2011. **(in English)**
- 8- A.K. Ahmad, F.A. Rasen and S. A. Fadhil, "**A mathematical model that describes the densification process during the sintering of ceramic compacts**", *Iraqi J. of Appl. Phys.*, **4** (11), 2008. **(in English)**

Patents

I have two filed patents at the Malaysian Patent’s office titled as:

1. A process for manufacturing of aluminum alloy 2024 sheets with impressive plastic properties by reactive spray deposition. Reference number 2015/PT/Y1.75/OP filed on 29/12/2015
2. A new citation system that depends on the position where the reference is cited and differentiates between the citation of review papers from the citation of research paper. Reference number 2015/PT/Y1.77/OP filed on 28/12/2015.

Reviewer

I have participated as a reviewer for the following ISI journals:

1. The (Journal of Materials and design) three times which is tier 1 journal under the Elsevier Publishing company, reviewed three papers.
2. Journal of Physics D: Applied Physics, under IOP publishing, indexed in Clarivate and Scopus.
3. Journal of Optical Communications, indexed in Scopus.

Scientific Prizes:

I won the 2nd rank in a prize which had been named as "Saddam Prize for Excellent Students" in 2002, which was a scientific prize given to the best three students on the whole Iraq in their specializations (to me physics). The winner of this prize was evaluated by participating in an exam which included the best three students from every college in Iraq in each specialization whom have the highest overall graduation degree and have graduated in the year of the exam.