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Education:

- ❖ Bachelor of Physics Science, Collage of Science, Mustansiriyah University, 2012-2013.
- ❖ Master of Physics Science, Collage of Science, Mustansiriyah University, 2018-2020. My thesis focus on plasma physics.
- ❖ PhD student, Department of physics, Collage of Science, Mustansiriyah University, 2022 to now.

Appointments:

- ❖ Lecturer in the solid state laboratory, fourth stage, 2020-2021.
- ❖ Lecturer in the electrical laboratory, first stage, 2021-2022.

Experience:

- ❖ Assistant physicist in the scientific affairs department 2014 – 2018.
- ❖ Conference and Seminar Officer in the Scientific Affairs Department 2014 – 2017.
- ❖ Responsible for the Division of Chemical Handling Control 2017 – 2018.
- ❖ Assistant teacher 2020 to now.

Publications:

- ❖ Khalaf, M. A., Ahmed, B. M. and Aadim, K. A. (2020) ‘Spectroscopic Analysis of CdO1-X: SnX Plasma Produced by Nd:YAG Laser’, *Iraqi Journal of Science*, 61(7), pp. 1665–1671.
[Doi: 10.24996/ij.s.2020.61.7.15.](https://doi.org/10.24996/ij.s.2020.61.7.15)
- ❖ Ahmed, B. M., Aadim, K. A. and Khalaf, M. A. (2020) ‘Verify the plasma parameters generated from the Tin material using the laser-induced plasma technique’, *World Scientific News*, 144(April), pp. 326–337.
[Doi: 10.24996WSN.2020.61.326.337.](https://doi.org/10.24996WSN.2020.61.326.337)

- ❖ Khalaf, M. A. (2021) 'Pulsed laser induced potassium oxide plasma analyzed by optical emission spectrum technique', 153(January), pp. 192–204.
[Doi: 10.24996WSN.2020.61.192.204.](https://doi.org/10.24996WSN.2020.61.192.204)
- ❖ Khalaf, M. A. and Hmood, W. J. (2020) 'Influence of Laser Energies on Tin Oxide Nanoparticles Plasma Parameters Prepared by Nd:YAG Laser', Scientific Journal of King Faisal University. King Faisal University, 21(2), pp. 203–206.
[Doi: 10.37575/b/sci/0009.](https://doi.org/10.37575/b/sci/0009)
- ❖ Khalaf, M. A. (2021) 'Spectroscopic Investigation of Laser-Induced Graphene Plasma', Scientific Journal of King Faisal University, 22(1), pp. 115–118.
[Doi: 10.37575/b/sci/0053.](https://doi.org/10.37575/b/sci/0053)
- ❖ Adil, B. H., Aadim, K. A. and Khalaf, M. A. (2021) 'Synthesis and Spectroscopic Characterization of Platinum Nanoparticles by Plasma Jet Method', International Journal of Nanoscience, 20(03), p. 2150030.
[Doi: 10.1142/S0219581X21500307.](https://doi.org/10.1142/S0219581X21500307)
- ❖ Mahdi, S. S., Aadim, K. A. and Khalaf, M. A. (2021) 'New Spectral Range Generations from Laser-plasma Interaction', Baghdad Science Journal, 18(4), pp. 1328–1337.
[Doi: 10.21123/BSJ.2021.18.4.1328.](https://doi.org/10.21123/BSJ.2021.18.4.1328)
- ❖ Al Hussan, S. M. A., Bakr N. A., Abd A. N., Khalaf M. A. (2021) 'Fabrication of $\text{fto/li}_2\text{o/zno/p-psi/al}$ solar cell by chemical precipitation method', Journal of Ovonic Research, 17(4), pp. 395–403.
[Doi: 10.15251/jor.2021.174.395.](https://doi.org/10.15251/jor.2021.174.395)
- ❖ Ahmed, B. M., Abdulrazaq, R. A., Khalaf, M. A., O. A. Akhil, A. D. (2022) 'Parameters for Fe_2O_3 on Staphylococcus Aureus and Acinetobacter Baumanni', Journal of Engineering Science and Technology, 17(1), pp. 552–562.
[Doi: 10.1142/S0219581R25984107.](https://doi.org/10.1142/S0219581R25984107)
- ❖ Aadim, K. A., Ahmed, B. M., Khalaf, M. A., and (2020) 'Influence of Sn doping ratio on the structural and optical properties of CdO film prepared by laser induced plasma', *Iraqi Journal of Physics*, 18(45), pp. 1–8.

[DOI: 10.20723/ijp.18.45.1-8](https://doi.org/10.20723/ijp.18.45.1-8)

- ❖ Aadim, K. A., Khalafand, M. A. and Hussain, W. D. (2021) 'Diagnosis and analysis of laser induced plasma parameters for silicon carbide produced by Nd:YAG laser', AIP Conference Proceedings, 2372(November).

[Doi: 10.1063/5.0067437](https://doi.org/10.1063/5.0067437).

Letters of appreciation and thanks :

Seq.	Donor	No.
1	Minister of Higher Education and Scientific Research	5
2	President of Mustansiriyah University	16
3	Dean of the College	3

Awards :

- ❖ Award from the College of Science / Mustansiriya University for publishing in international journals.
- ❖ The Ministry of Youth and Sports Award for the Scientific Innovations Exhibition 2022.