

Scientific Biography



PROFILE

Name: Dr. Oday Ali Hussein

Births: 1976

Gender: Male

Nationality: Iraqi

Address Work: Al-Nahrain University – College of Science – Physics

Scientific Title: Assistant Professor

E- mail: oah@sc.nahrainuniv.edu.iq

Home: Baghdad – Iraq

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DEMIC AND PROFESSIONAL QUALIFICATION

1. September **1994** - June **1998**.

Department of Physics, College of Science, Baghdad University,
Baghdad, Iraq.

B. Sc. in Physics

2. November **1998**- March **2001**.

Department of Physics, College of Science, University of Baghdad,
Baghdad, Iraq.

M. Sc. in **Theoretical Physics**

3. September **2002** - July **2005**

Department of Physics, College of Science, Al-Nahrain University,
Baghdad, Iraq.

Ph. D. in Physics of **Charged Particles Optics**

CAREER / HISTORY / ACHIEVEMENT

- 1- Lecture in Physics Department, College of Science, Al-Nahrain University - **2005 - 2010**.
 - 2- Assistant Professor in Physics Department, College of Science, Al-Nahrain University since **2010** - up to the present
 - 3- Visiting Researcher in Suleyman Demirel University – Isparta – Turkey - **2015-2016**.
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CONFERENCES / COURSES / WORKSHOPS / SCIENTIFICS SEMINARS

CONFERENCES:

1	X. International Conference on Nuclear Structure Properties, 20-22 September 2017, Karabük University - Karabük, Turkey.	International
2	Turkish Physics Society 32th International Physics Congress, 6-9 September 2016 in Bodrum, Mugla, Turkey.	International
3	6th Internationally Participated Congress on Particle Accelerators and Its Applications will be held between 29 – 30th of August, 2016 in Bodrum, Mugla, Turkey.	International
4	5th Physics Days Conference, 21-23 April 2016 in Eskisehir, Turkey.	International
5	International Conference on Natural Science and Engineering (ICNASE'16) 19-20 March, 2016, Kilis, Turkey.	International
6	9th International Physics Conference of the Balkan Physical	International

	Union – BPU9 , 24-27 August 2015 , Istanbul University , Istanbul , Turkey)	
7	1st Conference for Postgraduate Student Research, 17-18 December, 2014 at Al-Nahrain University, College of Science, Baghdad, Iraq	National
8	1st International Conference on Physics for Sustainable Development (ICPSD 2014) (28-30) Oct. 2014, in Baghdad, Iraq	International
9	Sixth Arab Conference on the Peaceful Uses of Atomic Energy, 14-18 Dec 2002, in Cairo, Egypt.	International
10	1st Iraqi conference of physics and its application, 2001 in Baghdad, Iraq.	National

COURSES:

a) under graduate:

- I. Quantum Mechanics / 3rd year
- II. Electromagnetic Theory / 3rd year
- III. Analytical Mechanics / 2nd year
- IV. Physics of waves / 2nd year s
- V. Programming in FORTRAN language / 2nd year
- VI. English Language / 2nd year

b) post graduate:

- I. Charged Particles Optics (M.Sc. course).
- II. Optical System design (M.Sc. course).
- III. Quantum Optics (Ph.D. course).

c). Many seminars for post graduate students.

d). Many projects for graduate students

SOME OF PUPLECATION RESEACHES

1	Effective parameter in extraction of ion-beam from a diode system	Optik - International Journal for Light and Electron Optics 176 (2019) 221–227
2	Comparison between the imaging properties of two different types of electrostatic quadrupole doublet lenses	Optik - International Journal for Light and Electron Optics 140 (2017) 860–865
3	Optimization of an electrostatic quadrupole doublet focusing systems	Journal of Electron Spectroscopy and Related Phenomena 217 (2017) 11–15
4	Study the most favorable shapes of electrostatic quadrupole doublet lenses	AIP Conference Proceedings 1815, 110003 (2017)
5	Effect of Rod Crystal Dimensions on Thermal Stress in Nd: YLF Laser with 20 W End-Diode Pumped	Der Chemica Sinica, 2016, 7(4):8-12
6	Study the Negative Spherical Aberration Coefficients for the Magnetic Lens with Non-Zero Initial Momentum	Proceeding of International Conference on Natural Science and Engineering (ICNASE'16) March 19-20, 2016, Kilis, Turkey
7	Effect of crystal length on the thermal characteristic in Nd: YLF laser with	AIP Conf. Proc. 1722, 230001-

	20W diode pumped	1–230001-4, (2016)
8	Computing Radial Distortion of projector Magnetic Lenses by Analytical Method	Journal of Physical Science and Application 1(6) (2016) 1-11
9	Study the negative spherical aberration coefficients for the magnetic lens	Advances in Applied Science Research , 2014, 5(2):29-34.
10	Thermal focal length of Nd: YLF laser rod crystal at 797nm and 792nm diode-end pump	Advances in Applied Science Research, 2013, 4(4):400-404.
11	Computational optimization of the radial and spiral distortion aberration coefficients of magnetic deflector	Journal of Baghdad for science, Vol.10 (2)2013.
12	The Chromatic Field Aberration of Monopole, Dipole and Quadrupole Magnetic Lenses	Asian Transactions on Fundamentals of Electronics, Communication & Multimedia Volume 02 Issue 03 , 2012
13	Design of an Einzel Lens Using Non-Classical Variation Technique	Journal of Al-Nahrain University, Vol.15 (2), June, 2012, pp.84-87
14	Design of Achromatic Combined Quadrupole Lens Using the Modified Bell-Shaped Field Distribution Model	Iraqi Journal of Physics, 2011, Vol. 9, No.16, PP. 66-72.
15	Investigation of the Optical Properties of the Achromatic	Journal of Baghdad for science,

	Quadrupole Lens by Using the Rectangular Potential Distribution Model	Vol.6(2)2009.
16	Design of the Most Favorable Shapes for the Spherical Electrostatic Quadrupole Lens.	Journal of College of Education, No.3, 2009.
17	Determination of the Most Favorable Shapes for the Cylindrical Concave Electrostatic Quadrupole Lens	Journal of Al-Nahrain University, Vol.12 (3), September, 2009, pp.86-93.
18	Radhi, R.A., Dakhil, Z.A. and Oday, A.H: Transverse Magnetic Form Factor for ^{13}C (e,e) ^{13}C with Core-Polarization Effects, .	Iraqi Journal of Physics, Vol. 5, No. 1, 2008, PP 51-54
19	Electro- Excitation Form Factor for Positive Parity States of ^{13}C Nucleus	Proceedings of the Sixth Arab Conference on the Peaceful Uses of Atomic Energy, Vol.III (Arab Atomic Energy Agency. Atomic Energy Authority (Egypt); 1702 p; Oct 2003; p. 171-183