

Curriculum Vitae

Name: Dr.Bushra Joudah Hussein

Nationality: Iraqi

Academic Title: Assistant Professor

Field of Specialization: Physics

precise specialization: Plasma Physics

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Education (Higher Degrees):

- 1. B.Sc. (physics) in 1992**
- 2. MSc. (Nuclear Physics) in 2001**
- 3. Ph.D (Plasma Physics) in 2012**

Thesis Title:

- 1. In MSc. " Determination of the Depleted Uranium Concentration in Different Human Tissues by Using CR-39"**
- 2. In Ph.D " Study the Effect of Fringing Field of Bending Magnet on Transport Systems Design"**

Employments

1992-1996/ Lecturer at the College of Medicine (Department of Medical Physics) University of AL-Anbar

1996-2022/ Lecturer at the College of Education for Pure Sciences - Ibn Al-Haytham / University of Baghdad

Academic and Professional Experiences

***I teach the below subjects for undergraduate studies:**

- 1. Analytical mechanics**
- 2. Electromagnetic theory**
- 3. Classical mechanics**
- 4. Electrical material**
- 5. Atomic and molecular physics**
- 6. Nuclear physics**

****I teach the below subjects for Postgraduate Studies:**

- 1. Classical mechanics**
- 2. linear accelerators**
- 3. plasma physics**

Participation in many workshops, training courses, seminars and scientific conferences

List of scientific publications

Publication date	Journal Name	Research Type	Research Title	No .
2/9/2004	Ibn Al-Haytham Journal of Pure and Applied Sciences	Applied Research	(A Study of the Effect of Laser Beam at Sensitivity of CR-39 Nuclear Track Detector)	1
3/1/2002	Journal of Mathematics and Physics	Applied Research	Measuring the concentration of trace elements in petroleum materials using differential neutron activation analysis technique	2

18/10/2005	Ibn Al-Haytham Journal of Pure and Applied Sciences	Applied Research	Calculation of phosphorous concentrations in the surface waters of the Tigris River with a (DNAA) technique	3
27/5/2009	Journal of the College of Education	Applied Research	Studying the relationship between the energy of the falling particle and the diameter of the impact aperture using the nuclear trace detector (CR-39	4
1/11/2009	Ibn Al-Haytham Journal of Pure and Applied Sciences	Applied Research	Measurement of organic oxygen concentrations in aldehydes using differential neutron activation analysis	5
6/4/2009	Ibn Al-Haytham Journal of Pure and Applied Sciences	Applied Research	Comparison between two types of etching solutions used to skim the surface of the nuclear trace detector CR-39	6
20/4/2011	Journal of the College of Education	Theoretical Research	Calculate the correction angle of the fringing field of bending magnet	7
20/4/2012	Journal of the College of Education	Theoretical Research	The effect of pole face angles of bending magnet on charged particle beam focus	8
24/4/2013	Journal of the College of Education	Theoretical Research	The Effect of the Length of Quadrupole Magnet on Focus of Charged Particles Beam	9
2014	Peak Journal of Physical and Environmental Science Research Vol. 2, No. 4, Sept. 2014	Theoretical Research	Studying the behavior of charged particles in rectangular bending magnet	10

15/9/2014	International Journal for Sciences and Technology Vol. 9, No. 3, Sept. 2014	Theoretical Research	Calculate Some Parameters of Quadrupole Magnet to Focusing Ions Beam From Plasma Source	11
1/7/2015	Journal of Chemical, Biological and Physical Sciences Vol. 5, No. 3, July 2015	Theoretical Research	Investigation the Cross Sections of 10B by Least Squares Polynomial Method	12
1/10/2015	Journal of Chemical, Biological and Physical Sciences Vol. 5, No. 4, October 2015	Theoretical Research	Calculate the Magnetic Rigidity and Focusing Strength Factor for Focus the Ions Beam from Plasma Source	13
29/9/2014	Ibn Al-Haytham Journal of Pure and Applied Sciences Vol. 27 (3) Sept. 2014	Theoretical Research	Ion Beam Focusing in Solenoid Magnetic Field	14
10/5/2015	Journal of the College of Education Vo.2	Theoretical Research	Study the effect of magnetic rigidity on the focusing of charged particles beam	15
2016	Journal of the College of Education	Theoretical Research	Theoretical Study to Calculate the Focal Length of Focusing System from Plasma Source	16
1/12/2016	Al-Mustansiriya Science Journal	Theoretical Research	Calculate optical parameters of ions beam from plasma source	17
1/11/2016	Al-Mustansiriya Science Journal	Theoretical Research	Effect of solenoid magnetic field distribution on beam focusing	18

1/10/2016	Journal of the College of Education	Theoretical Research	An investigative study on the electron energy distribution function and electron transport coefficients in SF₆ – Ne Gas mixtures	19
2017	International Journal of chem Tech research	Theoretical Research	Theoretical study to calculate some parameters of ion optical system	20
2018	IOP Conf. Series: Journal of Physics: Conf. Series 1003 (2018) 012116	Theoretical Research	Study electron transport coefficients for Ar, O₂ and their mixtures by using EEDF program	21