

C.V



Name: Hammad R. Humud

Date of Birth: 1960

Martial statues:Married

Specialization:Physics /Laser and Optoelectronics

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Scientific Degree: Assistant Professor

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■ **First, Scientific Certification:**

Degree science	University	College	Date
B.Sc.	AI-Mustansria	Science	1981
M.Sc.	Technology	school of Applied Science	1986
Ph.D.	Baghdad	Science	1998

■ **Second Courses Which You Teach:**

No.	Subject
1	Photo-Communication's throw air (MSc)
2	Thermodynamic Physics (BSc)
3	Laser Physics
4	Optics
5	Atomic Physics
6	Electromagnetic Theory
7	Fundamentals Physics
8	Surface Analysis
9	Laser plasma interaction/MSc
10	Digital and logic electronics
11	Research Methodology for PhD students

■ **Third, Thesis which was supervised by :**

No.	Thesis Title	Year
1	SiC thin film preparation by TEACO ₂ laser induced vapor-phase reaction and study of their electrical and optical properties	2000
2	Effect of doping on the optical and electrical properties of the SiC thin films prepared from the induced vapor-phase reaction with TEACO ₂ laser	2001
3	Design and construction of laser scanner	2001
4	Ceramic thin film deposition by laser induce vapor-phase	2002
5	Design and construction of laser scanner using computer-generated holograms	2002
6	A study of a detection assembly for guiding missiles	2002
7	Optical fiber identifier design and construction	2002

8	Preparation of photodetector CdS:Cu/Si by spray pyrolysis technique	2003
9	The influence factors on semiconductor laser transmitter system through atmosphere	2003
10	Video orientation control mechanism by applying optical fibers	2004
11	An-analytical study on a laser detection and tracking system	2005
12	Using the high intense pulse light for hair removal	2006
13	Generation and characterization of the plasma needle	2013
14	Developing a low temperature non thermal plasma jet suitable for treatment temperature sensitive materials	2014
15	Preparation of metals nanoparticles (Cu, Al, Ag) by the exploding wire technique in different liquids and its characterization	2014
16	Plasma deposition of polyaniline silver nanocomposite thin films	2014
17	Characterization of polyaniline and polythiophene thin films deposited by plasma technology	2015
18	Synthesis of carbon films by microwave plasma-enhanced chemical vapor deposition	2015
19	Influence of Ag nanoparticles on optical properties of laser dye impeded in PMMA polymerized by plasma jet	2016
20	Construction and study of atmospheric plasma jet induced by microwave	2016
21	Linear and non-linear optical properties of Ag/PMMA nanocomposite films prepared by aerosol assisted dielectric barrier discharge plasma jet polymerization	2016

Fourth, Published Articles

No.	Research Title	Place of Publication	Year
1	Formation silicon nitride powder from gas phase by laser induced chemical vapor deposition and study their properties	First ceramic materials conference and its application in engineering 24 Feb.p15	2000
2	Structural and Electrical Properties of SiC Thin Film Prepared by Laser Induced Chemical Vapor Deposition (LICVD).	Journal of the College of Education for Women, Vol. 3, No.11, P.34	2000

3	The Study of the Optical Properties of SiC Prepared by Chemical Vapor Deposition Induced by Laser;	Proceeding of the MCE 3 ^{ed} Science Conference, P. 323	2000
4	Silicon Nitride Powder Formation from Nitration Silicon Powder Synthesis by Laser Radiation	Iraqi Journal of Science.vol.42, no.1, P1	2001
5	SiC Powder formed from Chemical Vapor Deposition.	Journal of the College of Education/Al-Mustanseria University.Vol.1, No.1, P307	2001
6	The Study of Structural Properties and the Optical Energy Gap of SiC Films doped with Nitrogen.	Journal of the College of Education for Women.vol12, no.4 , P496	2001
7	Multiple Photon Absorption Spectrum and Multiple Photon Dissociation Assisted by Collision of C ₂ H ₄ .	Iraqi Journal of Science, Vol. 42, No.3, P.1.	2001
8	Formation Silicon Carbonitride Thin Film from Chemical Vapor Deposition Induced by TEA CO ₂ Laser and Study its Optical Properties.	Iraqi Journal of Physics, Vol.1, No. 1, P.8	2002
9	Formation ceramics films from centering of SiCN powder papered from gas phase enhanced by Laser;	Iraqi Journal of Physics.Vol.2, No.1, P.7-12	2003
10	Design and Contraction double prism Laser Scanner.	Iraqi Journal of Science.Vol.43, No. 1, P16	2003
11	FT-IR and XPS Analysis of a-Si _{1-x} Ge _x :H Thin Films	Renewable Energy Vol. 28, P.975.	2003
12	New Method Using a Transverse Opto-Electronic Effect (Pockel Effect) to transfer an Acoustic Signal.	Iraqi Journal of Physics. Vol.2, No. 2, P.1	2003
13	Calculated the Half Wave Voltage for An Electro-Optic Modulator System Consist of LiNbO ₃ Crystal at 0.81 μm Wavelength.	Iraqi Journal of Physics, Vol.3, No. 1, P.1.	2004

14	Design and construction pulse light system coupled with cooling for hair removal	Journal of Babylon University/ Science and its Application. Vol.14, No.3, pp319-	2007
15	Generation of Off-axis and Circular Computer Holograms for Laser Scanner.	Fondazione Giorgio Ronchi; Anno LXIV, n,2-Marzo-Aprile pp.215-223	2009
16	Optical properties of silicon nitride thin films deposited by TEACO ₂ laser induces chemical vapor deposition	Journal of Kerbala University, Vol,7,No,4Scientific	2009
17	Investigation of doping effect on properties of chemically sprayed CdS films	Journal of Al-Nahrain University- Science, vol. 14, no.2, pp1-5	2011
18	Nanocrystalline β -Silicon Carbide Films Prepared by TEACO ₂ Laser	Iraqi Journal of Physics, 2011, Vol. 9, No.15, PP. 14-17	2011
19	Transfocation Technique to Overcome Atmospheric Scintillation Effect on a Laser Detection and Tracking System (LDTs)	Iraqi Journal of Physics, 2011, Vol. 9, No. 14, PP.70-75	2011
20	Strain specificity in antimicrobial activity of non-thermal plasma	Iraqi Journal of Physics, 2013 Vol.11, No.20, PP. 110-115	2013
21	Argon plasma needle source	Iraqi Journal of Physics, 2012 Vol. 10, No.17, PP. 53-57	2012
22	Nanostructured polyaniline thin films prepared by plasma polymerization at atmospheric pressure	Physical Sciences Research International Vol. 1(4), pp. 110-122, November 2013	2013
23	<i>Characterization of Argon Plasma Induced by Simple 2.45 GHz Microwave Source</i>	International Review of Physics, vol.7 No.1, 65-70	2013
24	Deactivation of Staphylococcus Aureus and Escherichia Coli using Plasma Needle at Atmospheric Pressure	International Review of Physics, vol.7 No.1, 40-44	2013

25	Low temperature atmospheric pressure plasma jet	International Journal of Current Engineering and Technology	2014
26	Silver nanofluids prepared by pulse exploding wire	Asian Academic Research Journal of Multidisciplinary	2014
27	Characterize of silver polyaniline nanocomposite thin films prepared by aerosol assisted dielectric barrier discharge plasma jet polymerization	Asian Journal of Applied Science and Engineering, Vol.3, (4) 2014, p 25	2014
28	Optical properties of silver polyaniline nanocomposite prepared by plasma jet polymerization.	Asian Academic Research Journal of Multidisciplinary, vol. 1 (27) 2014, p	2014
29	Effect of iodine doping on the characterize of polyaniline thin films prepared by aerosol assisted plasma jet polymerization at atmospheric pressure	International Journal of Current Engineering and Technology, Vol. 4(5) October 2014 p3405	2014
30	The effect of gamma irradiation on the energy gap of polyaniline thin films prepared by non thermal plasma jet	Asian Journal of Applied Science and Engineering, Vol.3, (7) 2014, p 16	2014
31	Electrode configuration effect on some properties of low temperature plasma jet (ATPJ)	International Journal of Current Engineering and Technology Vol 4(4)p2580	2014
32	Effect of iodine doping on the characteristics of polythiophene thin films prepared by aerosol assisted plasma jet polymerization at atmospheric pressure	Iraqi J. of Physics, Vol. 12 (24)2014	2014
33	Gas flow rate effect on the nonlinear optical properties of Ag/PMMA nanocomposite thin films prepared by aerosol assisted dielectric barrier discharge plasma jet polymerization	International Journal of Current Engineering and Technology, vol.5, no.5, 3310	2015

34	Copper nanoparticles prepared by pulsed exploding wire	Iraqi J. of Physics, Vol. 13 (26)	2015
35	Spectroscopic measurements of the electron temperature in low pressure microwave 2.45GHz argon plasma	Iraqi J. of Physics, Vol.13, no.(27), 14-23	2015
36	Laser- induced modification of Ag and Cu metal nanoparticles formed by exploding wire technique in liquid	Iraqi J. of Science, Vol.56, no.(4B), 3135-3140	2015
37	Polyaniline/TiO ₂ nanocomposite thin films prepared by microwave plasma.	Journal of Wasit for Science and Medicine, vol.8, no.3, 143-149.	2015
38	Evaluation the non-thermal plasma application activity in AFB1 detoxification	Journal of Biology, Agriculture and Healthcare, vi. 5, no. 24, 100-104	2015
39	Aerosol assisted dielectric barrier discharge plasma jet for Silver\ PMMA nanocomposite thin films preparation	Eng. &Tech.Journal, Vol.33, Part (B), No.7. 1273	2015
40	Effect of Ag nanoparticles on R6G laser dye hosted by PMMA polymerized by plasma jet	Iraqi Journal of Physics, Vol. 14, no. 29, 27-36	2016
٤١	Nonlinear Optical Properties of Pure and Ag/Polyaniline Nanocomposite Thin Films Deposited by Plasma Jet	Iraqi Journal of Science 57 (2C, pp:1408-1414), ,1408-1414	2016
42	XRD and FTIR studies for Ag/PMMA Nano composite thin films	International Journal of Computation and Applied Sciences IJOCAAS Vol. 1, Issue 2, OCTOBER 2016 Pp22-27	2016

43	Synthesis of Nanostructure Carbon Thin Films by Microwave Plasma-Enhanced Chemical Vapor Deposition	eBook Collection (EBSCOhost) - printed on 12/12/2016 9:09 AM via LINKOPING UNIV LIBRARY vol 3 pp 67-76 Publisher Springer	2016
44	Tooth bleaching by plasma jet assisted by hydrogen peroxide and water	Der Pharmacia Lettre vol8 pp 229-233 Scholar Research Library 2016	2016

Fifth , Published Books

No.	Scientific Literature Title	Year of The Publication
1	Introduction to Laser Technology	2010

Sixth, languages:

✓ English Language

Seventh, Iraqi Patents:

	Patent title	No. of Patent	Year
1	استخدام طريقة بسيطة وحديثة لتحضير اغشية SiC المشوبة بالنتروجين ذات سمك عالي الانتظام باستخدام الليزر TEA-CO ₂	3150	2002
2	تصميم منظومة بلازما محمولة ذات شعلة بطول ٣٧ ملم صغيرة الحجم وخفيفة الوزن مصنوعة من مكونات تجارية غير مكلفة	4252	2015