



السيرة الذاتية

الاسم : حسين علي جواد

تاريخ الميلاد : ١٩٥٩ ، النجف ، العراق

الحالة الزوجية : متزوج

عدد الأولاد : ٣

الديانة : مسلم

التخصص : فيزياء / ليزر

الوظيفة : أستاذ مساعد

الدرجة العلمية : دكتوراه فيزياء / ليزر

عنوان العمل : معهد الليزر للدراسات العليا / جامعة بغداد

هاتف العمل : ٠٠٩٦٤١-٧٧٨١٤٤١-ext:105

الهاتف النقال : ٠٧٩٠١٧٩١٣٦٣-٠٠٩٦٤

البريد الإلكتروني : hussein59hs@yahoo.com

أولاً : المؤهلات العلمية .

الدرجة العلمية	الجامعة	الكلية	التاريخ
بكالوريوس	جامعة الموصل	كلية العلوم	١٩٨٠
الماجستير	جامعة بغداد	كلية العلوم	١٩٩٣
الدكتوراه	الجامعة التكنولوجية	قسم العلوم التطبيقية	١٩٩٩
أخرى			

ثانياً : التدرج الوظيفي .

ت	الوظيفة	الجهة	الفترة من - الى
١	رئيس قسم الليزر والاطياف	معهد الليزر للدراسات العليا / جامعة بغداد	٢٠٠٠-١٩٩٩
٢	معاون العميد	معهد الليزر للدراسات العليا / جامعة بغداد	٢٠٠٣-٢٠٠٢

ثالثاً : التدريس الجامعي .

ت	الجهة (المعهد / الكلية)	الجامعة	الفترة من - الى
1	جامعة النهرين	كلية الطب	٢٠٠٠-١٩٩٩
٢	جامعة بغداد	معهد الليزر للدراسات العليا	٢٠١٢-٢٠٠٠

رابعاً : المقررات الدراسية التي قمت بتدريسها.

ت	القسم	المادة	السنة
١	فرع التطبيقات الطبية والبايولوجية	الاطياف / ماجستير ليزر	٢٠٠٠-١٩٩٩
٢	فرع التطبيقات الصناعية والهندسية	الاطياف / ماجستير ليزر	٢٠٠٠-١٩٩٩
٣	فرع التطبيقات الطبية والبايولوجية	الاطياف / دبلوم ليزر في الطب أنظمة الليزر الطبية / دبلوم ليزر في الطب	٢٠١٠-٢٠٠٠
٤	فرع التطبيقات الطبية والبايولوجية	البصريات / ماجستير ليزر	٢٠٠٣-٢٠٠٢
٥	فرع التطبيقات الصناعية والهندسية	البصريات / ماجستير ليزر	٢٠٠٣-٢٠٠٢
٦	فرع التطبيقات الصناعية والهندسية	التفاعلات البصرية اللاخطية للمواد غير المتنصة / دكتوراه ليزر التفاعلات البصرية اللاخطية للمواد المتنصة / دكتوراه ليزر	٢٠١٧-٢٠٠٥

خامساً : (الاطاريح ، الرسائل) التي أشرف عليها:

السنة	القسم	اسم الأطروحة أو الرسالة	ت
2000	Biological and medical applications dept.	Comparative study between CO2 laser and conventional surgical techniques applied to remove chemically induced ulcer in rabbits lip- (M.Sc.)	١
2001	Biological and medical applications dept.	Biological effects of N ₂ and He-Ne laser on the old world screw-worm fly chrysomya bezziana illeneuve.(Diptera:Calliphoridae), (M.Sc.)	٢
2001	Engineering and industrial applications dept	Design and implementation of a ring network based on fiber distributed date interface (FDDI) (M.Sc.)	٣
2001	Biological and medical applications dept.	Effect of Nd:YAG laser radiation for the removal of intracanal debris and smear layer in extracted human teeth(M.Sc.)	٤
2002	Engineering and industrial applications dep	The employment of optical fibers in general spaces, (M.Sc.)	٥
2002	Engineering and industrial applications dep	TEA CO ₂ laser induced synthesis of SiH ₄ and SiC (M.Sc.)	٦
2003	Biological and medical applications dept.	Effect of He-Ne laser 632 nm and diode laser 890 nm on streptococcus mutans isolated from patirts of carios teeth. (M.Sc.)	٧
2003	Engineering and industrial applications dep	Stream ciphering of speech and transmission over optical fiber. (M.Sc.)	٨
2004	Engineering and industrial applications dep	Photo-polymerization of some industrial monomers by laser initiation. (M.Sc.)	٩
2004	Biological and medical applications dept.	A Comparative study of the effect of 632.8 nm He-Ne laser some antibiotics and plant extracts on some bacteria. (M.Sc.)	١٠
2004	Biological and medical applications dept.	Histological assessment of laser effect on the skin wound incision. (M.Sc.)	١١
2004	Biological and medical applications dept.	Effect of 805 nm Diode Laser on plasmid content and some Characteristics of Locally isolated Escherichia coli and Proteus mirabilis. (M.Sc.)	١٢
2005	Biological and medical applications dept.	Study the effect of 632.8 nm Helium-Neon laser on some virulence factors of	١٣
2005	Engineering and industrial applications dept	Design and Construction of Parametric amplifier (OPA) System for new Frequency Generation. (M.Sc.)	١٤

2005	Biological and medical applications dept.	The Efficacy of Er: YAG Laser in Removal of Dental Deposites And Root Planing in Comparison with Ultrasonic and Manual Instrumentation. (M.Sc.)	١٥
2006	Biological and medical applications dept.	Evaluation of Low Level Diode Laser in Soft Tissue Wound Healing. (M.Sc.)	١٦
2006	Engineering and industrial applications dept	Design and Construction of 3D Measurement and Inspection Laser System. (M.Sc.)	١٧
2006	Engineering and industrial applications dept	Adaptation of Laser Head To CNC machine. (M.Sc.)	١٨
2007	Engineering and industrial applications dept	The implementation of transmitter unit of quantum cryptographic system based on BB84 protocol. (M.Sc.)	١٩
2008	Engineering and industrial applications dept	Through Transmission Laser Spot Welding for PMMA, PVC. (M.Sc.)	٢٠
2008	Engineering and industrial applications dept	Characterization of some optical and Mechanical properties of a prepared nanostructure CdS film. (M.Sc.)	٢١
2010	Engineering and industrial applications dept	Detection And Quantification of Class.I caries with laser fluorescence technique. (M.Sc.)	٢٢
2005	Conservative Dept.-College of Dentistry	Assessment of new dental base materials from enamel powder and synthetic hydroxyapatite with or without CO2 laser treatment.(Ph.D.)	٢٣
2010	Biological and medical applications dept.	Ultrashort laser ablation for dental materials. (Ph.D.)	٢٤
2012	Biological and medical applications dept.	Comparative clinical and histopathological study of diode laser soft tissue welding and suturing in rabbits (M.Sc.)	٢٥
2015	Engineering and industrial applications dept	Numerical and experimental investigation of a nanofluid heat pipe heat exchanger in HVAC System with laser Detection(Ph.D.)	٢٦
2014	Biological and medical applications dept.	Temperature, Permeability and surface morphology changes of Radicular dentine induced by novel dual wavelength (2780 nm, 940 nm) laser(Ph.D.)	٢٧
2012	Engineering and industrial applications dept	Preparation and characterization of carbon nanotubes using laser for ablation method for composite application (Ph.D.)	٢٨

2015	Biological and medical applications dept.	970 nm diode laser in second stage dental implant exposure conventional surgical method in vivo study(M.Sc.)	٢٩
2014	Biological and medical applications dept.	The effect of 10.6 mm CO2 laser on enamel acid solubility in comparism to acidulated phosphate fluoride (an in vitro study) (M.Sc.)	٣٠
2005	Engineering and industrial applications dept	Image reconstruction of 3D shape object using noncontact optical sensing technique	٣١
2007	Engineering and industrial applications dept	Rough vacuum propagation of 1.06 um laser through photonic band gap fiber	٣٢

سادساً: المؤتمرات والندوات العلمية التي شارك فيها.

ت	العنوان	السنة	مكان انعقادها	نوع المشاركة
1	2 nd INT. conference/lasers in science and technology	1994	Jordan	Participant
2	1 st symposium/ Institute of Laser for Postgraduate Studies	1994	Institute of Laser for Postgraduate Studies – University of Baghdad -Baghdad-Iraq	Participant
3	3 rd Jordanian Mechanical &Industrial Engineering Conference (JMIEC)	1999	Jordan	Participant
4	Laser technology and its applications/	2001	Damascus - Syria	Participant
5	Medical laser applications/ 1 st conference	٢٠٠١	Institute of Laser for Postgraduate Studies – University of Baghdad -Baghdad-Iraq	Participant
6	23 rd Conference of Iraqi Dentistry Association	٢٠٠١	College of Dentistry/University of Baghdad	Participant

Participant	Halab - Syria	٢٠٠٢	Laser and its application Conference	7
Participant	Institute of Laser for Postgraduate Studies – University of Baghdad -Baghdad-Iraq	٢٠٠٢	2 nd conference/Institute of Laser for Postgraduate Studies	٨
Participant	Italy - Milano	2006	Scholarship for ultra short laser .	٩
Participant	Italy - Milano	2008	Summer school in FIB/ SEM.	١٠
Participant	Slovenia.	2008	Symposium for Electron Ion microscopy	١١
Researcher (3 Papers)	Iraq- University of Technology	2012	1 st conference of “ Lasers and Advanced Materials Engineering: Technology and Applications”	١٢
Participant	Iraq – Institute of Laser for Postgraduate Studies	2012	Cutting Edge-Laser & Creativity Symposium	١٣
				١٤
				١٥
				١٦
				١٧

سابعاً : الأنشطة العلمية الأخرى .

خارج الكلية	داخل الكلية
Member of consultancy of laser in Surgery,Ministry of Health	Consultant of the Scientific Committee
Consultant of Continuous teaching Committee –University of Baghdad	Member of Scientific board for Iraqi Journal of Laser
Member of discussion of M.Sc.and Ph.D. theses	Member of discussion of M.Sc.and Ph.D. theses

ثامنا: المشروعات البحثية في مجال التخصص لخدمة البيئة والمجتمع أو تطوير

التعليم .

ت	أسم البحث	محل النشر	السنة
١	Removal process of metals with Excimer radiation.	3 rd Jordanian Mechanical & Industrial Engineering Conference JMIEC	1999
٢	Manufacturing & testing an optical plasmas sensor for UV& x-ray region generated by laser produced plasmas	Proc of the MCE 3 rd ENG.SCI.CON	2000
٣	Nanosecond acoustic pulses in the Mega Pascal range formed by Al, Cu, Mo, Ta and W metals	Atti della Fondazione Giorgio Ronchi	2002
٤	Electron temperature estimation for plasma formed by Kr F laser of (Al, Cu, Mo, Ta and W) metal targets	42 nd Week laser "Science and applications"	2002
٥	The use of a pulsed Nd:YAG laser radiation for the removal of intracranal debris and smear layer in extracted human teeth	Iraqi Journal of laser	2002
٦	Design considerations of laser source in a Ring network based on fiber distributed data Interface (FDDI).	Iraqi Journal of Laser	2002
٧	Timing technique for measuring the electron temperature of different metallic plasmas formed with KrF laser	Sudan journal for basic science (SJBS-P)	2002
٨	A study on the performance of a diode laser drive circuit	J. of science & technology	2003
٩	Effect of N ₂ and He-Ne laser on Eggs development of the Old World Screw-Worm Fly (OWSWF) chrysomya bezziana Villeneuve Diptera: (Calliphoridae).	Tikrit Journal for Pure Sciences	2003

2003	Iraqi Journal of Laser.	The influence of short wavelength laser on the pupae development of the old world screw-worm fly (OWSWF) chrysomya bezziana villeneuve (dipter:calliphoridae)	١٠
2004	Iraqi Journal of Laser.	Laser induced fluorescence of 1, 3 Bentzodioxle in a super-sonic jet	١١
2006	Journal of College of Education / Al – Mustansirya University.	A quantitative treatment of KrF & XeCl laser ablation of PMMA using a time-dependent analysis.	١٢
2006	Iraqi Journal of Laser	The inhibition of streptococcus mutans by He-Ne laser via TBO photosensitizer	١٣
2007	Iraqi Journal of Laser	Generation of 629nm Pulsed Laser using an Optical Parametric Amplifier.	١٤
2008	Proceeding of the second veterinary scientific Conference	Histopathological Assessment of Laser Effect On The Skin Wound Healing	١٥
2008	Foundation Giorgio Ronchi	The implementation of transmitter unit of quantum cryptographic system based on BB84 protocol	١٦
2008	Iraqi Journal of Laser.	Reconstruction of 3D Shape for an Object using Laser Scanning Triangulation	١٧
2008	J.of al-anbar university for pure science	Tautomeric transitions with photo-induced effects using laser beam observed in antibiotic erythromycin-estolate	١٨
2009	Laser and Particle Beams	Surface morphology modifications of human teeth induced by a picosecond Nd: YAG laser operating at 532nm	١٩
2009	J.Bagh College Dentistry	Assessment of consistency and compressive strength of manufactured dental base materials from enamel powder and synthetic hydroxyapatite with or without CO ₂ laser treatment	٢٠
2009	J.Bagh College Dentistry	Efficiency of low level diode laser in skin wound healing (experimental study)	٢١

2009	J.Bagh College Dentistry	Diagnosis and treatment of cervical intraepithelial neoplasia with carbon dioxide laser therapy in selected patients	٢٢
2009	Iraqi journal of laser	Spectral width variation of ultrashort laser pulses in monomode optical fibers	٢٣
2009	Journal of nonlinear optical physics	CW-CO ₂ laser photoinitiated polymerization of Methyl Methacrylate.	٢٤
2009	J.Education and Science University of Mosul	Laser induced synthesis of silicon carbide	٢٥
2009	Journal of Dyala	Assessment of setting time and solubility of manufactured dental base materials from anamel powder and synthetic hydroxyapatite with or without CO ₂ laser treatment	٢٦
2009	J. Baghdad College of Dentistry	Assessment of diametral tensile strength and microhardness of manufactured dental base materials from anamel powder and synthetic hydroxyapatite with or without CO ₂ laser treatment	٢٧
2009	J. Baghdad College of Dentistry	Investigation on picosecond laser ablation of dental material using FIB/SEM technique	٢٨
2010	Indian journal of science and technology	An automated autocorrelator for the measurement of high-frequency femtosecond pulses	٢٩
2010	Radiation effects and defects in solids	Femtosecond laser amplification based on stimulated Raman scattering in optical fibers	٣٠
2010	Applied physics research.	Clinical evaluation of low level laser therapy in skin wound healing in maxillofacial surgery maxillofacial surgery.	٣١
2010	Iraqi journal of medical sciences	The optical limiting behavior of prepared silver nanoparticles embedded in polymer film	٣٢
2011	Iraqi journal of laser	The Variation of Some Optical and Mechanical Properties of Prepared CdS Nanofilm	٣٣

2012	Iraqi journal of laser	Through transmission laser spot welding for PMMA, and PVC, Comparison Study	٣٤
2012	Iraqi journal of laser	The Effect of 980 nm Diode Laser in Soft Tissue Welding of Oral Surgical Incisions on Rabbits –in vivo study	٣٥
2013	Applied surface science	Liquid Phase-Pulsed laser Ablation :A route to Fabricate different Carbon Nanostructures	٣٦
2008	J.of Anbar University for Pure Science	Tautomeric Transition with Photo-Induced Effects using laser Beam Observed in Antibiotic Erythromycin Estolate	٣٧
2010	Iraqi journal of laser	Influence of 805 nm Diode Laser on plasmid content of some locally isolated <i>Escherichia coli</i> and <i>Proteus Mirabilis</i>	٣٨
2010	Iraqi journal of laser	Detection and Quantification of Class I Caries with laser Fluorescence Technique	٣٩
2014	Inter.J. of materials science and applications	Thickness dependncy of CuO Nanocoating layer on thermal performance of HPHE	٤٠
2010	Inter.J. of Engineering Research &Technology	Effect of Hard Materials Nanocoating on Fins in (Thermosyphon) HPHE Nano Working Fluid	٤١
2014	IJARET	Preparation and Charcrisation of Carbon Nanotubes Using Ablation Method for Composite Applications	٤٢
2014	IJARET	Simulation of Carbon Nanotubes Growth by Laser Ablation	٤٣
2015	IOSR J. of Dental and Medical Sciences	Non Anesthetic Second Stage Implant Surgery by 970 nm Diode Laser maxillofacial surgery.	٤٤
2015	American J. of Mech. Eng.	Investigation of Metal and Metal Oxide nanocoating on Fins in HPHE with Silver Water Nanofluid	٤٥

2016	Inter. J. of Adv. Research	Investigation of Mechanical and Nonlinear Optical Properties CdS Nanofilm	٤٦
2016	Inter. J. of Adv. Research	Through transmission laser spot welding for PMMA	٤٧
2015	Iraqi journal of laser	Nano fluid detection for HPHE system using different lasers	٤٨
2016	Iraqi journal of laser	Growth toe nail treatment using carbon dioxide laser	٤٩
			٥٠

تاسعا: عضوية الهيئات العلمية المحلية والدولية .

١- استشاري في لجنة الليزر في الجراحة / وزارة الصحة

عضو في هيئة تحرير المجلة العراقية لليزر / معهد الليزر / جامعة بغداد

عضو في اللجنة العليا للتطوير والتعليم المستمر/ جامعة بغداد

عاشرا: كتب الشكر ، الجوائز و شهادات التقدير.

أكثر من خمسين كتاب شكر وتقدير

ثاني عشر: اللغات .

✓ عربي

✓ انكليزي

ملحوظة : يتم تسليم نسخة على CD