C.V



Photo

Ashur University College

- **First, Basic information:**

Name:	**khalid salem sbibib**
Date of Birth:	**1959/4/10**
Specialization:	**Mechanical Engineering/Power**
Position:	**Lecturer in Biomedical Eng. Dep**
Scientific Degree:	**Professor**
Work Address:	**Biomedical engineering Dep.**
Mobile:	**07902984536**
E-mail:	**profkhalidsalem@gmail.com**
official email:	**khalid.salem@au.edu.iq**

Second, Scientific Certification:

Degree science	University	College	Date
B.Sc.	Baghdad	College of Eng.	22-6-1982
M.Sc.	M.C.E	M.C.E	4-3-1997
Ph.D.	------	----------	---------
Any other	----------	----------	----------

Third, Career:

No.	Career	Workplace	From -To
1	Ship Maintenance Engineer	Iraqi Navy	1982-1991
2	Medical instrument maintenance Engineer	Public Hospital	1991-1995
3	Lecturer	M.C.E	1997-2003
4	Assistant professor	University of Technology Mechanical Engineering	2003-2006
5	Professor(since 2012)	University of Technology Laser & optoelectronics	2006-2022

Fourth, University Teaching.

No.	University	The (Institute / College)	From -To
1	Dialya university	College of Eng.	1997-2003
2	MCE	MCE	1997-2003

3	University of Technology	Mechanical Eng. Dep.	2003-2006
4	University of Technology	Laser and optoelectronic Eng.	2006-2022

Fifth, Courses Which You Teach:

No.	Department	Subject	Year
1	Mechanical Eng. Dep.	Thermodynamics	1997-2003
2	Mechanical Eng. Dep.	Fluid mechanics	1997-2003
3	Mechanical Eng. Dep.	Heat transfer	1998
4	Mechanical Eng. Dep.	Air-conditioning	2000
5	Laser &optoelectronics	Heat transfer	2015-2022
6	Laser &optoelectronics	Engineering drawing &AutoCAD	2003-2018
7	Laser &optoelectronics	Thermofluid	2015-2022
8	Laser &optoelectronics	Mathematics	2015-2022
9	Laser &optoelectronics	Advance Mathematics	2014-2022
10	Laser &optoelectronics	Medical laser application for (High diploma and B.Sc.)	2015
11	Laser &optoelectronics	Static and dynamics	2006-2015

Sixth, Thesis which was supervised by :

N	Thesis Title	Department	Year
1	Detection of temp. influence on tissue Optical properties(high diploma)	Laser and optoelectronics Eng.	2016

2	Theoretical and experimental study for improving solar cell output Using a Hemispherical lens	Laser and optoelectronics Eng.	2017
3	Laser-induced interstitial Thermotherapy Model and application	Laser and optoelectronics Eng.	2018
5	Experimental and theoretical Estimation of thermal damage in tissue subjected to CO2	Laser and optoelectronics Eng.	2016
6	Investigation of biological tissue optical properties using laser effect with a different method	Laser and optoelectronics Eng.	2019
7	Thermal model analysis for double-end diode pumping of solid-state lasers with super Gas	Laser and optoelectronics Eng.	2022
8	Transient analytical solution of temperature distribution and fracture limits in pulsed solid-state laser rod	Laser and optoelectronics Eng.	2014
9	Analytical Solution of Thermal Effects in Thin Disk Laser	Laser and optoelectronics Eng.	2021

Seventh, Conferences which you participated:

No.	Conferences Title	Year	Place	Type of Participation
1	3rd (IICESAT), College of Material Engineering, University of Babylon,	2021	Babel	Attendance with 2 papers
2	2nd Int. Virtual Conf. Pure Science, (2IVCPS 2021)	2021	Diywaniya	Virtually with paper
3	2nd Int. Conf. in Materials, Laser Science and Applied Physics (ICMLAP)	2020	Baghdad	Attendance with 2 papers
4	1st Int. Scientific Con. of Al-kut University	2017	Kut	Attendance with paper
5	2nd Conference of Environmental Engineering, Ain-Shams University ,	2007	Egypt	Attendance with paper

Eighth, Scientific Activities:

Within the College	Outside the College
Head of the scientific committee in laser branch –laser Eng. Dep.	Head of the volunteer committee at university of technology
Head of the academic promotions committee- Laser Eng. Dep.	
Head of the examination committee- Laser Eng. Dep.	

Ninth, Research Projects in The Felid of Specialization to The Environment and Society or the Development of Education:

	Research Title	Place of Publication	Year
1	Thermal and stress analysis in Nd: YAG laser rod with different double-end pumping methods.	Thermal science	2011
2	Effects of waste paper usage on thermal and mechanical properties of fired Brick	Heat and mass Transfer	2015
3	Enhancement in thermal and mechanical properties of bricks	Thermal science	2013
4	The effect of laser power, blood perfusion, thermal and optical properties of human liver tissue on thermal damage in LITT	Laser in medical science	2017
5	Analytical model of transient temperature and thermal stress in continuous wave double-end-pumped laser rod: Thermal stress	Pramana Journal of Physics	2012
6	Analytical model of transient thermal effect on convectional cooled end-pumped laser rod	Pramana Journal of Physics	2013
7	Transient analytical solution of temperature distribution and fracture limits in pulsed solid-state laser rod	Thermal science	2017
8	Finite element analysis of spot laser of steel welding temperature history	Thermal science	2009
9	Finite element analysis of cornea thermal damage due to pulse incidental far IR laser	Laser in medical science	2013
10	Thermal behavior of tissues having different porosities during continuous CO_2 laser irradiation	Thermal science	2010
11	A new approach to evaluate temperature distribution and stress fracture within solid state lasers	Optical and Quantum Electronics	2019
12	Analytical model of transient thermal effects in microchip laser crystal	AIP conference Proceedings	2020
13	Analytical treatment of transient temperature and thermal stress distribution in CW end pumped laser rod: Thermal response optimization	Thermal science	2014

14	Thermal damage due to incidental continuous CO2 laser irradiation on human skin	Thermal science	2010
15	Temperature distribution and stress analysis of end pumped lasers under Gaussian pump profile	Optical and Quantum Electronics	2020
16	Analytical solution of transient temperature in continuous wave end-pumped laser slab: Reduction of temperature distribution and time of	Thermal science	2017
17	Analytical Solution of Thermal Effects in Thin Disk Laser	Journal of Physics: Conference Series	2021
18	analytical Treatment of Temperature Distribution, Stress and Strain Using Uniform Pumped Laser Rod	2020 IEEE 8th Conference on Systems,	2020
19	Thermal Conductivity and Specific Heat Evaluation of Tissue Using Laser	Materials Science Forum 1002	2020
20	Inverse heat transfer analysis in detecting tissue optical properties using laser	Laser in medical science	2019
21	Pulse Laser Parameters Effect on Tissue Thermal Damage Zone in Coagulation Process	Eng. & Tech. journal	2011
22	Theoretical and Experimental Estimation of Soil Temperature Distribution in Arid Region	Journal of Physics: Conference Series	2021
23	Detection of tissue optical properties; a comparison study	Iraqi Laser Scientists Journal	2018
24	Experimental and Theoretical Estimation of Hourly Based Solar Irradiance In Baghdad	1st International Scientific Conference Al-Kut University	2017
25	Effects of pumping profiles on the temperature distributions in double-end pumped solid-state lasers: A comparison study	Eng. & Tech. journal	2022
26	Analysis of Thermal Effect in Thin Disk Laser: A Review	Journal of Physics: Conference Series 1999	2021
27	Harvesting Energy by Solar Thermo-Electric Generation in Tropical Regions	Journal of Physics: Conference Series 1973	2021

28	Effect of Cooling on Thermal Damage in Tissue Subjected to Laser Irradiation	Journal of Physics: Conference Series 1973	2021
29	Effect of laser wavelength on liver tissue thermal damage in laser induced interstitial thermotherapy	Iraqi Laser Scientists Journal	2018
30	Transient Analytical Solution of Temperature Distribution and Fracture Limits In Pulsed Solid-State laser rod	Thermal science	2017
31	Utilization of Mixed Waste in Fired Brick Manufacturing	Eng. & Tech. journal	2014
32	One dimensional Finite Element Solution of Moving Boundaries in Far IR Laser Tissue Ablation	Iraqi Journal of Laser	2012

Tenth, Membership:

- **Iraqi Engineers Union**
- **Iraqi Laser sciences**
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Eleventh, Awards and Certificates of Appreciation:

No.	Name of Awards and Certificates	Donor	Year
1	The Day of Science	Ministry of high education	2013
2	Thanks and appreciates(2)	Minister of high education	2018,2020
3	Thanks and appreciates (20)	Head of university of technology	2012-2020
4	Thanks and appreciate	Head of waste(kut) council government	2011

Twelfth, Scientific literature:

No.	Scientific Literature Title	Year of The Publication
1	Not exist	
2		
3		

- **Thirteenth, <u>languages:</u>**

  - ✓ Arabic
  - ✓ English

كلية آشور الجامعة
Ashur University College