



Ahmed Wael Abdulwahhab

University Lecturer

Assistant lecturer and research member of photonics and communications research group. More than 15 ISI academic research articles in Scopus and Clarivates Analytics indexed journals and conferences. Module designer and ABET self – study report writer and analyzer. IREX official Trainer of Trainee (ToT) at the department of Laser and Optoelectronics Engineering for developing long distance and electronic learning skills.

Details

Bate of Birth: 18-07-1986
Gender: Male
Martial Statues: Married
Nationality: Iraqi

Contact Details

Home Address: Almustansrya
Niebourhood,
Section 506,
Street 79, House
13
Working Address: Laser and
Optoelectronics
Eng. Dept.,
University of
Technology
City: Baghdad
Country: Iraq
Mobile: +964 7902 978218
E-Mail:
ahmed.w.abdulwahhab@uotechnology.edu.iq

Links

Scopus ID: 57190218513
ORCID: 0000-0002-3058-1640

Computer Skills

C++	
Java	
MatLab	
MS Office	

Language Skills

Arabic: Mother Language
English: Excellent

Experience

Sept 2013 – Present

Assistant Lecturer

Laser and Optoelectronics Engineering
Department, UoT
Baghdad, Iraq

Tutor of optical communications laboratory
Teaching electromagnetic fields, signals and systems, DSP, communications
Research member of photonics and communications research group

Feb 2013 – Oct 2020

Director of Quality Assurance and Accreditation Division

Laser and Optoelectronics Department
Engineering Department, UoT
University of Technology
Baghdad, Iraq

Director of the department laboratories quality assurance
Director of accreditation procedure matching ABET requirements
IREX trainer of trainee of long distance and e – learning skills

Oct 2009 – Dec 2010

Hardware Engineer

EMITAC Service Center
Baghdad, Iraq

Maintenance engineer of computer's hardware and software

Education

Sept 2011 – Nov 2012

M.Sc. (Eng) Communications Eng.

School of Electronics and Electrical
Engineering
University of Leeds
Leeds, UK

Oct 2004 – Jul 2008

B.Sc. (Eng) Optoelectronics Eng.

Dept. of Laser and Optoelectronics
Engineering
University of Technology
Baghdad, Iraq

Project and Research Interests

Graduation Project

Energy Efficient Caching for Access Networks
M.Sc. (Eng) Graduation Project
Project Supervisor, Prof. Jaafar M. El-Mirghani, University of Leeds, Leeds, UK

Developing a mixed integer linear programming model to minimize the energy consumption in wireless optical – broadband access networks with careful content distribution and content popularity.

Research Interests

Communications Theory, Green Communications Networks, Optical Communications, Free Space Optical Communications.

Achievement

Top ranked students during undergraduate study, with rank 1st out of 25th colleagues.
Scopus *h – index* of 14

Certificates and Courses

IREX Certificate of Trainer of Trainee (ToT) in long distance and electronic learning developing skills.

Honors and Awards

Best undergraduate student award, 2008

Iraqi prime minister award for high ranked students in Iraq, 2008

HCED initiative scholarship award, office of prime minister in Iraq, 2010.

Acknowledgements from Minister of Higher Education and Scientific Research and President University of Technology for accreditation division directive and job accomplishment

Publications

1. **Abdulwahhab, AW**, Abass, AK, Saleh MA, Rashid FF, “**Enhancing performance of optical chaotic- based secure fiber – optic communication system**”, Optical and Quantum Electronics, 2023.
2. T.S. Evan, M.Y. Ayat, **Abdulwahhab AW**, “**Opto – electronic behavior of LN as a dielectric films: improved using low temperature treatment**”, AIP conference, Nov. 2022.
3. **Abdulwahha AW**, “**Power consumption management in hybrid optical – wireless access network**”, Optical Fiber Technology, 2022.
4. Fakhri, M.A., **Abdulwahhab, A.W.**, Dawood, M.A., Sabah, A, “**NANO SILVER OXIDE ON INSULATOR FOR OPTOELECTRONIC DEVICE**”, AIP Conference, 2020, 2213, 020226
5. Makram A. Fakhri, Ban A. Bader, Farah G. Khalid, Najwan H. Numan, **Ahmed W. Abdulwahhab**, U, Hashim, Evan T. Salim, Mohammed A. Munshid, Zaid T. Salim, “**OPTICAL AND MORPHOLOGICAL STUDIES OF LINBO3 NANO AND MICRO PHOTONIC STRUCTURAL**”, AIP Conference Proceedings, Vol. 2045, Issue 1, 2019.
6. Makram A. Fakhri, Najwan H. Numan, Zahraa S. Alshakhli, Marwa A. Dawood, **Ahmed W. Abdulwahhab**, Farah G. Khalid, U. Hashim, Evan T. Salim, “**PHYSICAL INVESTIGATIONS OF NANO AND MICRO LITHIUM – NIOBATE DEPOSITED BY SPRAY PYROLYSIS TECHNIQUE**”, AIP Conference Proceedings, Vol. 2045, Issue 1, 2019.

6. Makrak A. Fakhri, Evan T. Salim, MHA Wahid, **Ahmed W. Abdulwahhab**, U. Hashim, Zaid T. Salim, "**EFFICIENCY ENHANCEMENT OF OPTICAL STRIP WAVEGUIDE BY THE EFFECT OF HEAT TREATMENT**", Optik, Vol 180, 2019.
7. Ibraheam A.S., Rzajj J.M., Fakhri M.A., **Abdulwahhab A.W.**, "**STRUCTURAL, OPTICAL AND ELECTRICAL INVESTIGATIONS OF AL:ZNO NANOSTRUCTURES AS UV PHOTODETECTOR SYNTHESIZED BY SPRAY PYROLYSIS TECHNIQUE**", Materials Research Express, Vol. 6, Issue 5, 2019.
8. Makram A. Fakhri, Evan T. Salim, U. Hashim, **Ahmed W. Abdulwahhab**, Zaid T. Salim, "**OPTICAL PROPERTIES OF MICRO AND NANO LINBO3 THIN FILM PREPARED BY SPIN COATING**", Optics and Laser Technology, Vol. 103, 2018.
9. Makram A. Fakhri, Evan T. Salim, U. Hashim, **Ahmed W. Abdulwahhab**, Zaid T. Salim, "**ANNEALING TEMPERATURE EFFECT ON STRUCTURAL AND MORPHOLOGICAL PROPERTIES OF NANO PHOTONIC LINBO3**", Journal of Material Science: Material in Electronics, Vol. 28, Issue 22, 2017.
10. Faraqid Q. Moahammed, Tahreer S. Mansoor, **Ahmed W. Abdulwahhab**, "**A TUNABLE MACH – ZEHNDER INTERFEROMETER BASED ON DUAL MICRO-CAVITY PHOTONIC CRYSTAL FIBER FOR LOAD MEASUREMENT**", Photonic Network Communications, Online first article
11. Makram A. Fakhri, Evan T. Salim, **Ahmed W. Abdulwahhab**, U. Hashim, Mohammed A. Munshid, Zain T. Salim, "**THE EFFECT OF ANNEALING TEMPERATURE ON OPTICAL AND PHOTOLUMINESCENCE PROPERTIES OF LINBO3**", Surface Review and Letters, 2018.
12. Makram A. Fakhri, **Ahmed W. Abdulwahhab**, Marwa A. Dawood, Alaa Q. Raheema, Najwan H. Numan, Farah G. Khalid, MHA Wahid, U. Hashim, Evan T. Salim, "**OPTICAL INVESTIGATIONS OF NANO LITHIUM NIOBATE DEPOSITED BY SPRAY PYROLYSIS TECHNIQUE WITH INJECTION OF LI2CO3 AND NB2O5 AS RAW MATERIALS**", International Journal of Nanoelectronics and Materials, Vol. 11, Special Issue, (103 – 108) 2018.
13. Makram A. Fakhri, **Ahmed W Abdulwahhab**, Suad M Kadhin, Marwa S Alwazni, Salah A Adnan, "**THERMAL OXIDATION EFFECTS ON PHYSICAL PROPERTIES OF CUO2 THIN FILMS FOR OPTOELECTRONIC APPLICATION**", Material Research Express, Vol. 6, Issue 2, 2018.
14. Salah A. Adnan, **Ahmed W. Abdulwahhab**, Shymaa N. Ismail, "**FUSION SPLICING: THE PENALTY OF INCREASING THE COLLAPSE LENGTH OF THE AIR HOLES IN ESM-12B PHOTONIC CRYSTAL FIBER**", Optica Applicata, vol 46, issue 2, 265-275 (2016).