



- الاسم : صلاح الدين عدنان طه ياسين
- اللقب العلمي: أستاذ في الاتصالات البصرية والمتحسسات البصرية
- البريد الإلكتروني: [salahaldeen.a.taha@almamonuc.edu.iq](mailto:salahaldeen.a.taha@almamonuc.edu.iq)
- موبايل: 07902331344
- الجنسية : عراقية
- مكان العمل: قسم هندسة الليزر والالكترونيات البصرية / كلية المأمون الجامعة

بكلوريوس هندسة كهربائية والكترونية + ماجستير كهرو بصريات + دكتوراه هندسة الكترولنيات بصرية	• التعليم /المؤهلات الدراسية
تصميم دوائر الكترولنية + تصميم متحسسات الفايبر الضوئي + تصميم منظومات نقل المعلومات بالليزر تحت الماء	• الخبرة
<u>الإشراف على 25 طالب ماجستير ودكتوراه لحد الان ، مايلي بعض هذه الأطاريح مبينه ادناه:</u>  1) The optimum arc fusion splicing conditions for photonic crystal fiber and single mode fiber.  2) Implementation and study for the nonlinear characteristics of nonlinear Crystal to generate the 3rd harmonic wavelength.  3) Design and implementation of Fiber Bragg Grating (FBG) Based temperature and anemometer sensor for portable metrological weather Station system.	• البحوث/الكتب



- 4) Design and implementation of optical waveguide sensor loaded with Metamaterials.
- 5) study and implementation of fiber optic sensor for different medical drugs.
- 6) Analysis and implementation of pcf sensors by using heterodyne detection .
- 7) Design, implementation & performance Evaluation of (MIMO) Techniques for High Data rate  
Wireless Optical Communication System in Turbulent Atmosphere.
- 8) Wide band Raman Fiber Amplifier Based on Bi-directional Fiber Model.
- 9) study and simulation of transporting RF signal over free space optics
- 10) Design and implementation of short range underwater optical wireless communication (UOWC) system
- 11) Fabrication of PCF Based Gold Nanoparticles for Refractive Index Sensing application
- 12) Laser deposition of nano photonics LiNbO3 for optoelectronics applications
- 13) Design and Implementation of Underwater Optical Wireless Communication for Turbulence Channel Effect
- 14) Advanced modulation formats for underwater wireless optical communication system
- 15) Design and implementation of Laser sensors for medical application based on microstructural fiber
- 16) Design and implementation a healthcare monitor system based on laser light fidelity and fiber bragg grating



17) Intelligent Underwater Optical Wireless Communication System (UOWC)

بعض البحوث المنشورة في المجلات والمؤتمرات العالمية والمجلات المحلية

a) نشریات المجلات

1. Dr. Hussain Joma Abbas, & Salah Aldeen Adnan Taha, "The Optical Fiber Fault Detection By Computer Simulation For Ofdr System", Eng. & Tech. Journal, Vol.28, No.17, 2010.
2. Salah Aldeen Adnan Taha\*, Mehdi M. Shellal, And Ahmed Chyad Kadhim, "Simulation Of Gaussian Pulses Propagation Through Single Mode Optical Fiber Using Matlab". Iraqi Journal Of Science, 2013, Vol.54, No.3, Pp.601-606.
3. Dr Mohammed S. Mehde, Dr. Salah Aldeen Adnan Taha, Ammar Anwer Ahmed, "The Optimum Conditions For Arc Fusion To Splice Photonic Crystal Fiber And Single Mode Optical Fiber". Eng. &Tech. Journal, Vol.33,Part (A), No.1,2015
4. Dr. Salah Aldeen Adnan Taha."Effect Of Distance Between Two Optical Single Mode Fibers On Minimum. Splice Losses By Using Arc Fusion Splicer". Eng. & Tech. Journal ,Vol.32, Part (A), No.8, 2014
5. Dr. Salah Aldeen Adnan Taha, Dr. Alaa A. Abdul-Hamead, Marwa S. Mehsin,Eng.Roaa S. Mahmood."Study Some Structural And Optical Properties Of Copper Nano Film". Ijaiem Jornal , Volume 4, Issue 1, January 2015
6. Dr.Salah Aldeen Adnan Taha, Ahmed Chyad ,Shaymaa Noaman Ismail,Dr.Hassan A. Hassan,"Splice Fault Position Detection Of Single Mode Fiber Using Feed-Forward Neural Networks".Jornal Of Wasit, Vol.8, No.1, 2015.
7. Dr.Shehab A. Kadhim<sup>1</sup>, Dr.Salah Aldeen Adnan Taha , Dehyaa A. Resen,"Temperature Sensor Based On Fiber Bragg Grating



(Fbg), Implementation, Evaluation And Spectral Characterization Study". *Jornal Of Ijirset*, Vol.4, No.9, 2015.

8. S.A. Kadhim, Salah Aldeen Adnan Taha, D.A. Resen, "Anemometer Sensor By Using Fiber Bragg Grating Based Bending Controlled By Wind Speed". *Journal Of Nanoscience And Technology* 2(2) (2016) 91–93.
9. Ali Q. Baki , Dr.Shehab A. Kadhim, Dr. Salah Aldeen A. Taha , " Implementation And Perfprance Evaluation Of Mimo Technique For Hige Data Rate Wireless Optical Communication System In Turbulent Atmosphere" *Jornal Of Ijates* , Vol. No.4, Issue No. 08, August 2016, [Www.Ijates.Com](http://www.ijates.com)
10. Dr. Shehab A. Kadhim , Dr . Salah Aldeen A. Taha , Ali Q. Baki, " Characterization Study And Simulation Of MIMO Free Space Optical Communication Under Different Atmospheric Channel" *Jornal Of Ijiset*, Vol. 3 Issue 8, August 2016, Issn (Online) 2348-7968 / Impact Factor (2015) – 4.332, [Www.Ijiset.Com](http://www.ijiset.com)
11. A. K. Abass, Salah Aldeen Adnan, Ban K. Hadi, Mohammed A. Salih "Comparison Of Discrete L-Band Raman Fiber Amplifier In Two Different Configurations", *Jornal Of Advances In Natural And Applied Sciences*, ISSN: 1995-0772, 2017 July 11(9): pages 224-229
12. Ruaa Khalil Musa, Salah Al Deen Adnan, Ali Mahdi Hammadi , "Evanescent Field Mach-Zehnder Interferometer Sensor For Concentration Measurement", *Journal Of Madent Alelem College* Vol 10, No 1, Year 2018
13. Ruaa Khalil Musa, Salah Al Deen Adnan, Ali Mahdi Hammadi, "Design And Fabrication Of Evanescent Wave Fiber Optic Sensor", " , *Jornal Of Advances In Natural And Applied Sciences*, ISSN: 1995-0772, 2017 April 11(4):pages 130-139
14. Ruaa K. Musa , Salah Al Deen A. Taha , Ali M. Hammadi "Tipped Fiber Bragg Grating Sensor For Concentration Measurements", *International Journal of Computation and Applied Sciences IJOCAAS*, Volume 2, Issue 3, June 2017, ISSN: 2399-4509



15. Dr.Salah Aldeen Adnan, Mazin Ali A. Ali, Sarah Ali. Al-Saeedi, "Combined Effect Of Turbulence And Weather On Radio Over Free Space Optics Ro- Fso" *Jornal Of Advances In Natural And Applied Sciences*,ISSN: 1995-0772, 2017 July 11(9): pages 104-109
16. Mazin Ali A. Ali, Salah Aldeen Adnan And Sarah Ali. Al-Saeedi, "Transporting  $8 \times 10$  Gbps WDM Ro-FSO Under Various Weather Conditions", *Jornal Of Opt. Commun.* 2017; aop
17. Marwa Mustafa Sami, Mohammed Abdelwahab Munshid, Salah Aldeen Adnan,"Design And Implementation Of Heterodyne Detection Based On Photonic Crystal Fiber Sensor," *Jornal Of Advances In Natural And Applied Sciences*,ISSN: 1995-0772, 2017 June 11(8): pages 639-644.
18. Mazin Ali. A. Ali, Salah A. Adnan,Maha sadeq and Arif A. Al-Qassa,"Underwater Wireless Optical Communication System Modulate 532nm Along 7m By DD/IM", *Jornal of Electrical Engineering, Elixir Elec. Engg.* 113 (2017) 49051-49053
19. Fatima Saad, Salah Aldeen A. Ibrahim,and Mazin Ali A. Ali," Performance of Underwater Wireless Optical Communication System under Salty Water",by *Indian Journal of Natural Sciences*, Vol.9 /Issue 52 / February / 2019
20. Salah A. Adnan, Mazin A.A. Ali, Fatima S. Hakwar," The Air Bubbles Effect for Underwater Optical Wireless Communication Using 650 nm Wavelength", *Engineering and Technology Journal*, Vol. 37, Part A, No. 10, 2019.
21. Sarah M. Taleb,Makram A. Fakhri,Salah Aldeen Adnan," Morphological And Optical Properties Of Cu2O/ 2-D Silicon Photonic Structure For Sensing Applications"*Iraq Jornal Of Computers,Communication,Control & System Engineering (IJCCCE)*,Vol.20,No.2,April 2020
22. Sarah M. Taleb,Makram A. Fakhri,Salah Aldeen Adnan," Optical and Structural investigations of LiNbO thin films by PLD " *Iraq Jornal Of Computers,Communication,Control & System Engineering (IJCCCE)*,Vol.20,No.1,january 2020.
23. Mariam M. Hassan,Makram A. Fakhri,Salah Aldeen Adnan," Structural and Morphological Properties of Nano Photonic Silicon Structure for Photonics Applications"*Defect and Diffusion Forum Online: 2020-01-10 ISSN: 1662-9507, Vol. 398, pp 29-33*© 2020 Trans Tech Publications Ltd, Switzerland.



24. Sarah M. Taleb, Makram A. Fakhri, Salah Aldeen Adnan, "Optical Investigations of Nanophotonic LiNbO Films Deposited by Pulsed Laser Deposition Method", Defect and Diffusion Forum Online: 2020-01-10, ISSN: 1662-9507, Vol. 398, pp 16-22 © 2020 Trans Tech Publications Ltd, Switzerland.
25. Zainab H. Tawfiq, Sallah A. Adnan, Makram A. Fakhri, Rihab K. Hamad, "Structural, Morphological and Optical Properties of Gold Nanoparticles Using Laser Ablation in Liquid for Sensor Applications" Iraq Journal Of Computers, Communication, Control & System Engineering (IJCCCE), Vol.19, No.4, October 2019.
26. Salah A. Adnan, Zainab H. Tawfiq, Makram A. Fakhri, "Gold Nanoparticles in Liquid Based on Photonic Crystal Fiber PCF for Sensors Application", Defect and Diffusion Forum Online: 2020-01-10, ISSN: 1662-9507, Vol. 398, pp 23-28 © 2020 Trans Tech Publications Ltd, Switzerland.
27. Salah Aldeen Adnan, Mazin Ali A. Ali, and Sarah Ali. Al-Saedi, "Characteristics Of Rf Signal In Free Space Optics (Rofso) Considering Rain Effect", Journal of engineering and applied sciences 13(7):1644-1648, ISSN: 1816-949X, Medwell Journals, 2018
28. Najlaa Shawky and Salah Al-deen Adnan Taha, Hakan Altan, Cumali Sabah, "Single-And Double-Sided Sensor Applications Of Metamaterials Based On Square-Ring And Diamond Resonators For Terahertz Region" Journal of Modern Physics Letters B, Vol. 31, No. 8 (2017) 1750072 (14 pages) World Scienti\_C Publishing Company.
29. SALAH A. ADNAN, AHMED W. ABDULWAHHAB, SHAYMAA N. ISMAIL, "Fusion Splicing: The Penalty Of Increasing The Collapse Length Of The Air Holes In Esm-12b Photonic Crystal Fibers", Journal of Optica Applicata, Vol. XLVI, No. 2, 2016, DOI: 10.5277/oa160211



b) المنشور في المؤتمرات المحلية والعالمية

1. Salah A. Adnan, Mazin A. Ali, Maha Sadeq , Ahmed C.Kadhim, Muhammad Riaz, "Investigating Link Budget Of Underwater Wireless Optical Communication With Intensity Modulation Direct Detection Technique" Light, Energy and the Environment. 6-9 November 2017, ISBN:978-1-943580-36-1, Colorado,USA
2. Salah A. Adnan, Mazin A. Ali, , Ahmed C.Kadhim, Maha Sadeq ,Muhammad Riaz, "Investigating The Performance Of Underwater Wireless Optical Communication With Intensity Modulation Direct Detection Technique", Light, Energy and the Environment. 6-9 November 2017, ISBN:978-1-943580-36-1, Colorado,USA
3. Mariam M. Hassan,Makram A. Fakhri,Salah Aldeen Adnan,"Structural Electrical and Detection Properties of Copper Oxide Based on Optoelectronic Device", IOP Conf. Series: Materials Science and Engineering 454 (2018) 012172, IOP Publishing,
4. Dr. Salah Aldeen Adnan Taha, Dr. Alaa A. Abdul-Hamead, "Fabrication Al<sub>2</sub>O<sub>3</sub> Nano Powder And Study Some Of Physical Properties", The Sixth Jordan International Chemical Engineering Conference 12-14 March 2012, Amman, Jordan.
5. Sarah M. Taleb,Makram A. Fakhri and Salah Aldeen Adnan," Substrate and annealing temperatures effects on the structural results of LiNbO photonic films using PLD method", AIP Conference Proceedings 2213, 020234 (2020),Published Online: 25 March 2020.
6. Makram A. Fakhri , Zainab H. Tawfiq and Salah A. Adnan " Gold nanoparticles in ethanol deposited on PCF for refractive index sensors" AIP Conference Proceedings 2213, 020234 (2020),Published Online: 25 March 2020.

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<p>7. Zainab H. Tawfiq , Makram A. Fakhri , Salah A. Adnan " Photonic Crystal Fibres PCF for Different Sensors in Review", IOP Conf. Series: Materials Science and Engineering 454 (2018) 012173, IOP Publishing,</p>	
<p><b>Scopus Profile</b></p> <p> <a href="#">Google Scholar Profile</a></p> <p> <a href="#">ORCID iD Profile</a></p> <p> <a href="#">ResearchGate Profile</a></p> <p> <a href="#">Publons Profile</a></p>	<ul style="list-style-type: none"><li>• روابط المواقع البحثية العالمية</li></ul>
<p>العربية والانكليزية</p>	<ul style="list-style-type: none"><li>• اللغات</li></ul>



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هاتف: ٠٧٨١٠٣٩٤٤٤١

- **Name:** Salah Aldeen Adnan Taha
- **The scientific title:** Professor in optical communication and Optical sensors.
- **E-mail:** [salahaldeen.a.taha@almamonuc.edu.iq](mailto:salahaldeen.a.taha@almamonuc.edu.iq)
- **Mobile:** 07902331344
- **Nationality:** Iraqi
- **Place of work:** Department of Laser and Optoelectronics Engineering



<ul style="list-style-type: none"><li>• <b>Educational Qualifications</b></li></ul>	<ul style="list-style-type: none"><li>• <b>B.Sc in Electrical and Electronics Engineering.</b></li><li>• <b>Msc in Electro-optic</b></li><li>• <b>PhD in optoelectronics Engineering</b></li></ul>
<ul style="list-style-type: none"><li>• <b>Experiences</b></li></ul>	<ul style="list-style-type: none"><li>• <b>Design of electronic circuits</b></li><li>• <b>Design of fiber optic sensors</b></li><li>• <b>Design of underwater laser information transmission systems</b></li></ul>



- **Research/books**

**Supervising 25 master's and doctoral students so far. Some of these theses are shown below:**

- 1) The optimum arc fusion splicing conditions for photonic crystal fiber and single mode fiber.
- 2) Implementation and study for the nonlinear characteristics of nonlinear Crystal to generate the 3rd harmonic wavelength.
- 3) Design and implementation of Fiber Bragg Grating (FBG) Based temperature and anemometer sensor for portable metrological weather Station system.
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16) Design and implementation a healthcare monitor system based on laser light fidelity and fiber bragg grating

17) Intelligent Underwater Optical Wireless Communication System (UOWC)

**Some research published in international journals, conferences, and local magazines**

**a) Journal Publications**

1. Dr. Hussain Joma Abbas, & Salah Aldeen Adnan Taha, "The Optical Fiber Fault Detection By Computer Simulation For Ofdr System", Eng. & Tech. Journal, Vol.28, No.17, 2010.
2. Salah Aldeen Adnan Taha\*, Mehdi M. Shellal, And Ahmed Chyad Kadhim, "Simulation Of Gaussian Pulses Propagation Through Single Mode Optical Fiber Using Matlab". Iraqi Journal Of Science, 2013, Vol.54, No.3, Pp.601-606.
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4. Dr. Salah Aldeen Adnan Taha. "Effect Of Distance Between Two Optical Single Mode Fibers On Minimum.



- Splice Losses By Using Arc Fusion Splicer". Eng. & Tech. Journal ,Vol.32, Part (A), No.8, 2014
5. Dr. Salah Aldeen Adnan Taha, Dr. Alaa A. Abdul-Hamead, Marwa S. Mehsin, Eng. Roaa S. Mahmood. "Study Some Structural And Optical Properties Of Copper Nano Film". Ijaiem Jornal , Volume 4, Issue 1, January 2015
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  9. Ali Q. Baki, Dr. Shehab A. Kadhim, Dr. Salah Aldeen A. Taha, " Implementation And Perfprnce Evalution Of Mimo Technique For Hige Data Rate Wireless Optical Communication System In Turbulent Atmosphere" Jornal Of Ijates, Vol. No.4, Issue No. 08, August 2016, Wwww.Ijates.Com
  10. Dr. Shehab A. Kadhim, Dr. Salah Aldeen A. Taha, Ali Q. Baki, " Characterization Study And Simulation Of MIMO Free Space Optical Communication Under Different Atmospheric Channel" Jornal Of Ijiset, Vol. 3 Issue 8, August 2016, Issn (Online) 2348-7968 / Impact Factor (2015) – 4.332, Wwww.Ijiset.Com
  11. A. K. Abass, Salah Aldeen Adnan, Ban K. Hadi, Mohammed A. Salih "Comparison Of Discrete L-Band Raman Fiber Amplifier In Two Different Configurations", Jornal Of Advances In Natural And



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13. Ruaa Khalil Musa, Salah Al Deen Adnan, Ali Mahdi Hammadi, "Design And Fabrication Of Evanescence Wave Fiber Optic Sensor", " , Jornal Of Advances In Natural And Applied Sciences,  
ISSN: 1995-0772, 2017 April 11(4):pages 130-139
14. Ruaa K. Musa , Salah Al Deen A. Taha , Ali M. Hammadi "Tipped Fiber Bragg Grating Sensor For Concentration Measurements", International Journal of Computation and Applied Sciences IJOCAAS, Volume 2, Issue 3, June 2017, ISSN: 2399-4509
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16. Mazin Ali A. Ali, Salah Aldeen Adnan And Sarah Ali. Al-Saeedi, "Transporting 8 × 10 Gbps WDM Ro-FSO Under Various Weather Conditions", Jornal Of Opt. Commun. 2017; aop
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19. Fatima Saad, Salah Aldeen A. Ibrahim,and Mazin Ali A. Ali," Performance of Underwater Wireless Optical



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20. Salah A. Adnan, Mazin A.A. Ali, Fatima S. Hakwar, " The Air Bubbles Effect for Underwater Optical Wireless Communication Using 650 nm Wavelength", Engineering and Technology Journal, Vol. 37, Part A, No. 10, 2019.
  21. Sarah M. Taleb, Makram A. Fakhri, Salah Aldeen Adnan, " Morphological And Optical Properties Of Cu<sub>2</sub>O/ 2-D Silicon Photonic Structure For Sensing Applications" Iraq Journal Of Computers, Communication, Control & System Engineering (IJCCCE), Vol.20, No.2, April 2020
  22. Sarah M. Taleb, Makram A. Fakhri, Salah Aldeen Adnan, " Optical and Structural investigations of LiNbO thin films by PLD " Iraq Journal Of Computers, Communication, Control & System Engineering (IJCCCE), Vol.20, No.1, January 2020.
  23. Mariam M. Hassan, Makram A. Fakhri, Salah Aldeen Adnan, " Structural and Morphological Properties of Nano Photonic Silicon Structure for Photonics Applications" Defect and Diffusion Forum Online: 2020-01-10 ISSN: 1662-9507, Vol. 398, pp 29-33 © 2020 Trans Tech Publications Ltd, Switzerland.
  24. Sarah M. Taleb, Makram A. Fakhri, Salah Aldeen Adnan, " Optical Investigations of Nanophotonic LiNbO Films Deposited by Pulsed Laser Deposition Method", Defect and Diffusion Forum Online: 2020-01-10, ISSN: 1662-9507, Vol. 398, pp 16-22 © 2020 Trans Tech Publications Ltd, Switzerland.
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### **b) Conference Proceedings**

- 1) Salah A. Adnan, Mazin A. Ali, Maha Sadeq , Ahmed C.Kadhim, Muhammad Riaz, "Investigating Link Budget Of Underwater Wireless Optical Communication With Intensity Modulation Direct Detection Technique" *Light, Energy and the Environment*. 6-9 November 2017, ISBN:978-1-943580-36-1, Colorado, USA
- 2) Salah A. Adnan, Mazin A. Ali, , Ahmed C.Kadhim, Maha Sadeq , Muhammad Riaz, "Investigating The Performance Of Underwater Wireless Optical Communication With Intensity Modulation Direct Detection Technique", *Light, Energy and the Environment*. 6-9 November 2017, ISBN:978-1-943580-36-1, Colorado, USA



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<ul style="list-style-type: none"> <li>International research websites</li> </ul>	<p><a href="#"> Scopus Profile</a></p> <p><a href="#"> Google Scholar Profile</a></p> <p><a href="#"> ORCID iD Profile</a></p> <p><a href="#"> Researchgate Profile</a></p> <p><a href="#"> Publons Profile</a></p>
<ul style="list-style-type: none"> <li>Languages</li> </ul>	<p>Arabic &amp; English</p>