**السيرة الذاتية : ا.م.د. سلام نزهان احمد**

**اولا": معلومات شخصية:**

* اللقب العلمي : أستاذ مساعد
* محل و تاريخ الولادة: **1971** بعقوبة /ديالى – العراق
* الجنسية : عراقي
* البريد الالكتروني : **salam\_nzhan@yahoo.com**
* الحالة الاجتماعية : متزوج
* عنوان العمل : كلية الهندسة – جامعة ديالى – بعقوبة – محافظة ديالى – العراق.

**ثانيا": المؤهلات العلمية:**

* **دكتوراه كهروبصريات/ليزر – 2016 – كلية الهندسة والبيئة/جامعة نورثمبريا/نيوكاسل – بريطانيا.**
* **ماجستير علوم فيزياء / اشباه موصلات– 2005 – كلية العلوم – الجامعة المستنصرية– بغداد – العراق.**
* **بكالوريوس علوم فيزياء /– 1998 – كلية العلوم – الجامعة المستنصرية– بغداد – العراق.**
* **الاختصاص العام والدقيق: فيزياء-كهروبصريات/ليزر اشباه الموصلات**

**ثالثا": الدورات التدريبية والعضوية :**

* **عضوا في جمعية الفيزيائيين العراقية في عام 2005**
* **عضوا في الجمعية العالمية لمهندسي الكهرباء و الالكترونيك IEEE في عام 2013.**
* **التحق في مجموعة البحث العلمي في قسم الاتصالات وخصائص الليزر في كل من جامعتي بنكرِ في ويلز- وكذلك جامعة نورثمبريا في انكلترا في اللمملكة المتحدة اثناء فترة دراسته الدكتوراه من 2011 الى 2016.**
* **تم اختياره عضوا في اللجان العلمية في الكثير من المؤتمرات العالمية خارج العراق**
* **مقوم علمي في العديد من المجلات العالمية الرصينة المعروفة.**

**رابعا": اللغات المتقنة:**

* **العربية – اللغة الام.**
* **الانكليزية**

**خامسا": التاريخ الوظيفي و المناصب الادارية:**

* **تدريسي وعضو لجان دائمية ومؤقتة متعددة في كلية الهندسة منذ عام 2005**
* **مسؤول شعبة البعثات والعلاقات الثقافية للفترة من 2005 ولغاية 2009**

سادسا ": البحوث المنشورة في المجلات والمؤتمرات العلمية الدولية والمحلية

* **لديه اكثر من 25 بحث علمي منشور في مجلات عالمية رصينة مثل IEEE ,IOP, J.Phys.D  AIP, OSA ومؤتمرات عالمية.**
* **شارك في مؤتمرات عالمية عديدة في لندن , البرتغال, االجيك, تركيا, هولندا.**
* **شارك في عدة دورات خارج العراق في بريطانيا و البرتغال وتركيا,**
* **حصل على براءة اختراع في عام 2019**

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| Books |

1. Chapter in in book( [Advances in Optics: Reviews](https://scholar.google.co.uk/citations?view_op=view_citation&hl=en&user=TPCZMxMAAAAJ&citation_for_view=TPCZMxMAAAAJ:YOwf2qJgpHMC) 5). (2022)

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| Patent  |

1. . (2019),

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| Journals |

1. **Salam Nazhan** and Zabih Ghassemlooy, “[Antiphase chaotic synchronization enhancement in a vertical cavity surface emitting laser](https://www.osapublishing.org/abstract.cfm?uri=ao-58-35-9491)**”** **Applied Optics Vol. 58, Issue 35, pp. 9491-9497** (2019),
2. **NAZHAN, S. (2022**). Ultra-high Power Reduction in Modulated VCSEL for Lasing. Nonlinear Optics, Quantum Optics: Concepts in Modern Optics, 55. (2022)
3. **Salam Nazhan** and Zabih Ghassemlooy, "Polarization output power stabilization of a vertical-cavity surface-emitting laser," J. Opt. Soc. Am. B 35, 1615-1619 (2018),
4. **S. Nazhan** and Z. Ghassemlooy, "Polarization Switching Dependence of VCSEL on Variable Polarization Optical Feedback," in IEEE Journal of Quantum Electronics, vol. 53, no. 4, pp. 1-7, Aug. 2017.doi: 10.1109/JQE.2017.2718550
5. **Nazhan, S**.; Ghassemlooy, Z.; Busawon, K.: “Harmonic distortion dependent on optical feedback, temperature and injection current in a vertical cavity surface emitting laser,” J. of Physics D: Applied Physics, 49 (14), pp. 145107, 10 March 2016
6. **Nazhan, S**.; Ghassemlooy, Z.; Busawon, K.; Gholami, A., "Suppressing the nonlinearity of free running VCSEL using selective-optical feedback," IEEE Photonics Technology Letters, 28 (2), pp.185-188, 15 Jan. 2016
7. **Nazhan, S**.; Ghassemlooy, Z.; Busawon, K., “Chaos synchronization in vertical-cavity surface-emitting laser based on rotated polarization preserved optical feedback,” Chaos: An Interdisciplinary Journal of Nonlinear Science, 26 (1), pp.013109, 2016
8. **Nazhan, S**., Ghassemlooy, Z., Busawon, K., and Gholami, A.: “Investigation of polarization switching of VCSEL subject to intensity modulated and optical feedback,” Optics & Laser Technology, 75, pp. 240-245, 2015
9. **S. Nazhan, H. Al-Musawi, K. Humood** “Experimental Demonstration of an Ultra-Low Power Vertical-Cavity Surface-Emitting Laser for Optical Power Generation” International Journal of Electronics and Communication Engineering, Vol. 15, 1, Pp19-23. (2021)

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| Conferences  |

1. **S. Nazhan**,"Experimental investigation of anti-phase chaotic-synchronization dynamics of the polarization modes in VCSELs," *2018 1st International Scientific Conference of Engineering Sciences - 3rd Scientific Conference of Engineering Science (ISCES)*, Diyala, 2018, pp. 104-107.
2. **S. Nazhan**, Z. Ghassemlooy, K. Busawon, A. Gholami and N. A. Cholan, "Chaotic signal dynamics of VCSEL for secure optical communication," 2016 10th International Symposium on Communication Systems, Networks and Digital Signal Processing (CSNDSP), Prague, Czech Republic, 2016, pp. 1-6. doi: 0.1109/CSNDSP.2016.7574012
3. **Nazhan, S**., Ghassemlooy, Z., Busawon, K., and Perez, J.: “Polarization RIN of VCSEL subject to modulation signal with variable polarization angle of optical feedback,” 4th Intern. Workshop on Optical Wireless Communications, 7-8 Sep. 2105, Ozyegin University, Istanbul, Turkey, pp. 65-88, 2015
4. **Nazhan, S.**, Ghassemlooy, Z., Busawon, K., and Gholami, K.: “Variable-polarization optical feedback induced high-quality polarization-resolved chaos synchronization in VCSEL,” Science and Information Conf., (SAI), 2015, pp. 1052-1055, DOI: 10.1109/SAI.2015.7237272
5. **Nazhan, S.**, Ghassemlooy, Z., and Busawon, K.: “Chaotic regime modulation in VCSEL based on Rotated Polarization-Preserved Optical Feedback,”Photonics global conference 2015, (PGC), 28 June to 03 July, Singapore
6. **Nazhan, S.**, Ghassemlooy, Z., and Busawon, K.: “Polarization properties of Vertical-Cavity Surface-Emitting Lasers subject to variable polarization angle of optical feedback” Second Scientific Conference, Diyala, Iraq, 16 – 17 December 2015
7. **Nazhan, S.**, Ghassemlooy, Z., and Busawon, K. “High-quality Chaos Synchronization in VCSEL polarization modes under Optical Feedback,” Proceeding of the Northumbria Research Conference, Newcastle, UK, 21-22 May 2015
8. **Nazhan, S.**, Ghassemlooy, Z., and Busawon, K. “Investigation of current modulation effects on threshold current of an 850nm single-mode VCSEL,” Proceeding of the Northumbria Research Conference, Newcastle, UK, 21-22 May 2014.http://soe.northumbria.ac.uk/ocr/publications.html
9. **Nazhan, S.**, Ghassemlooy, Z., and Busawon, K. “Relative Intensity Noise of Vertical-Cavity Surface-Emitting Lasers Subject to Variable Polarization-Optical Feedback” 3rd International Workshop in Optical Wireless Communications (IWOW),978-1-4799-6676-2014 IEEE DOI:10.1109/IWOW.2014.6950769.
10. **Nazhan, S.**, Ghassemlooy, Z., Busawon, K., and Perez, J.: “Hysteresis properties induced by variable polarization angle in the polarization switching of VCSELs,” 9th IEEE/IET International Symposium on Communication Systems, Networks and Digital Signal Processing (CSNDSP), 23-25 July 2014, Manchester, UK, pp. 325 - 329
11. **S.Nazhan,** H. Shalal CDoping Profile Extraction of P-N Junction Diod using New Method” International Engineering Conference (IntEC2009) 11-18 May 2009. Damascus, Syria
12. **S.Nazhan** “Inverse Modeling of p-n Junction Using C-V Measurement” Diyala Journal of Applied Researches, 2,pp. 77-83, Diyala University, (2006).
13. **Salam Nazhan**, Hassan K. Al-Musawi, Khalid A. Humood“Experimental Demonstration of an Ultra-low Power Vertical-cavity Surface-emitting Laser for Optical Power Generation” ICOEC 2020 :22th Int. Conf. on OptoElectronics and Communications, Amsterdam The Netherlands Sep 17-18, (2020)

Conferences and Workshops Attendance

1. Science and Information Conference 2015, London UK; 07/2015
2. Northumbria University Research Conference; Newcastle upon Tyne, UK, 05/2015
3. 4th International Workshop on Optical Wireless Communication, 07-08 September 2015, Istanbul, Turkey; 09/2015
4. 9th IEEE, IET International Symposium on COMMUNICATION SYSTEMS, NETWORKS, AND DIGITAL SIGNAL PROCESSING – 23-25 July 2014, Manchester, UK; 07/2014
5. 7th Opticwise MC/WG Meeting & 3rd International Workshop on Optical Wireless Communications 2014, Funchal, Madeira Island, Portugal; 09/2014
6. Northumbria University Research Conference; Newcastle upon Tyne, UK, 20/05/2014
7. 4th Edition of Hybrid conference Lasers, Optics & Photonics to be held during October 06-07, 2022.

سابعا": المزيد من المعلومات عن النشاط العلمي يمكن ايجادها على روابط التواصل الاجتماعي و العلمي :

**Website:**

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| Research Gate  | [**https://www.researchgate.net/profile/Salam\_Al\_Zaidi**](https://www.researchgate.net/profile/Salam_Al_Zaidi) |
| Acadimeca.edu  | [**https://www.academia.edu/Salam**](https://www.academia.edu/Salam) **N AL Zaidi**  |
| Google Scholar  | [**https://scholar.google.co.uk/salam**](https://scholar.google.co.uk/salam) **Nazhan** |
| Publons  | **https://www.webofscience.com/wos/author/record/F-7933-2013** |
| linkedin.com | [**https://www.linkedin.com/in/salam-nazhan-ahmed**](https://www.linkedin.com/in/salam-nazhan-ahmed) |
| IEEE Xplore | [**http://ieeexplore.ieee.org/Salam**](http://ieeexplore.ieee.org/Salam) **Nazhan (AL Zaidi** |