

CV



Name: Dr Sanaa Numan Al-Sumaidae

DOB: 1979

General Specialization: Laser and Optoelectronics Engineering

Specific Specialization: Photonics and Plasmas

Scientific Degree: Lecturer

Languages: Arabic, English, and French.

Email: sanaa.n@kecbu.uobaghdad.edu.iq

ResearchGate page:

<https://www.researchgate.net/profile/Sanaa-Al-Sumaidae>

Google Scholar Citations:

https://scholar.google.com/citations?view_op=list_works&hl=en&user=2jOUgCMAAAAJ#d=gsc_md_iad&u=%2Fcitations%3Fview_op%3Dimport_lookup%26hl%3Den%26imq%3DS%2520Al-Sumaidae%26json%3D%26btnA%3D1

First: Scientific Certification:

No.	Certificate	Country	University	College	Date
1	BSc	Iraq	Engineering	Al-Nahrain	2001
2	MSc	Iraq	Engineering	Al-Nahrain	2004
3	PhD	Canada	Engineering	Alberta	2021



Second: Courses You Taught:



No.	Branch	Material	Year
1	Automated Manufacturing Engineering	<ul style="list-style-type: none">Electrical EngineeringElectrical Engineering LabElectronic and logicElectronic and logic Lab	2006-2008
2	Automated Manufacturing Engineering	<ul style="list-style-type: none">Electrical EngineeringElectrical Engineering LabEngineering drawingsElectronic and logic Lab	2008-2013
3	Biomedical Engineering	<ul style="list-style-type: none">Optics and LaserLogic labElectrical Engineering Lab	2013-2014

Third: Conferences Participated In:

No.	Conference Title	Year	Place	Participation Type
1	Al-Khwarizmi Engineering	2011	Al-Khwarizmi college of Engineering	Participation
2	Quanta workshop- student speakers in Quantum Alberta conference	2018	University of Calgary /Canada	Participation
3	Foundations of Project Management I	2019	University of Alberta/Canada	Participation
4	Surface Science	2019	University of Alberta/Canada	Participation

Fourth: Research Projects in The Field of Specialization Concerning Environment & Society or the Development of Education:

1. S. Al-Sumaidae, L. Bu, G. J. Hornig, M. H. Bitarafan, and R. G. DeCorby, "Pressure sensing with high-finesse monolithic buckled dome microcavities," *Applied Optics*, Vol. 60, No. 29, 2021.
2. S. Al-Sumaidae, M. H. Bitarafan, C. A. Potts, J. P. Davis, and R. G. DeCorby, "Cooperativity enhancement in buckled-dome microcavities with omnidirectional claddings," *Opt. Express, OE*, Vol. 26, No. 9, pp. 11201–11212, Apr. 2018.
3. G. J. Hornig, S. Al-Sumaidae, J. Maldaner, L. Bu, And R. G. DeCorby "Monolithically integrated membrane-in-the-middle cavity optomechanical systems," *Opt. Express, OE*, Vol. 28, No. 19, pp. 28113-28125, Sep. 2020.
4. J. Maldaner, S. Al-Sumaidae, G. J. Hornig, L. J. Leblanc, And R. G. DeCorby "Liquid infiltration of monolithic open-access Fabry-Perot microcavities," *Applied Optics*, Vol. 59, No.23, pp. 7125-7130, Dec. 2020.

- 
5. J. Maldaner, S. Al Sumaidae, And R. G. DeCorby “Theoretical study of silicon-based Bragg mirrors for cavity QED applications,” *Optical Society of America B*, Vol. 37, No. 12 pp. 3707-3713, Dec. 2020.
 6. Kareem N. Salloomi, S. Al-Sumaidae “Coupled Eulerian–Lagrangian prediction of thermal and residual stress environments in dissimilar friction stir welding of aluminum alloys,” *Journal of Advanced Joining Processes*, Vol. 3, June 2021.
 7. Kareem N. Salloomi , Furat I. Hussein, and Sanaa Al-Sumaidae “Temperature and Stress Evaluation during Three Different Phases of Friction Stir Welding of AA 7075-T651 Alloy,” *Modelling and Simulation in Engineering*, Vol. 2020, p.11, Feb 2020.
 8. K. N. Salloomi, L. A. Sabri, Y. M. Hamad and S. Al-Sumaidae “Nonlinear Buckling Analysis of Steel Cylindrical Shell with Elliptical Cut-out Subjected to Longitudinal Compressive Load,” *International Journal of Automotive and Mechanical Engineering*, Vol 16, Issue 2, pp. 6723- 6737 June 2019.
 9. S. Al-Sumaidae, "Analysis of Temperature and Residual Stress Distribution in CO₂ Laser Welded Aluminum 6061 Plates Using FEM" *Al-Khwarizmi Engineering Journal*, 2011.
 10. S. Al-Sumaidae,, Fayroz A. Sabah "WELDING OF THERMOPLASTIC MATERIALS USING CO₂ LASER" *Diyala Journal of Engineering Sciences*, Vol. 05 , No.01, pp.40 - 51 , June 2012.
 11. Kareem N. Salloomi, Laith Abed Sabri, Yahya M. Hamad, S. Al-Sumaidae, "3-Dimensional Nonlinear Finite Element Analysis of both Thermal and Mechanical Response of Friction Stir Welded 2024-T3 Aluminum Plates" *Journal of Information Engineering and Applications* 2224-5782, Vol.3, No.9, 2013
- 



Fifth: Membership:

No.	Name of Group	Year	Membership Type
1			
2			
3			
4			
5			
6			
7			

Sixth: Scientific Activities:

1. Surface Science Workshop, University of Alberta, 2019.

Seventh: Awards and Certificates of Appreciation:

No.	Name of Awards or Certificate	Donor	Year
1	Letter of Appreciation	Dean of Al-Khwarizmi College of Engineering	2010
2	Letter of Appreciation	Dean of Al-Khwarizmi College of Engineering	2011
3	Letter of Appreciation	Dean of Baghdad	2017
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			



No.	Name of Awards or Certificate	Donor	Year
26			
27			
28			

Eighth: Career:

No.	Career	Workplace	From -To
1	Assistant Lecturer	Al-Khwarizmi college of Engineering	2006-2013
2	Lecturer	Al-Khwarizmi college of Engineering	2013

