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Education:

B.Sc. : Physics, King Saud University, Riyadh, Saudi Arabia.

M. Sc. : Laser Physics, Essex University , U.K.

Ph.D. : Optoelectronics, University of Wales College of Cardiff (UWCC), U.K.

Employment & Administrative History:

- Vice dean for development & quality, College of Science, King Saud University (10/20014-).
- Member in the foundation board of King Abdullah Institute for Nanotechnology (2008-2013).
- Head of Nanotechnology Unit/KSU (2008- 2009).
- Head of Physics & Astronomy Dept. College of Science, King Saud University (2004 -2006)
- Professor- Physics Dept. College of Science, King Saud University (2014-).
- Associate Professor- Physics Dept. College of Science, King Saud University (2002-2013).
- Assistant Professor- Physics Dept. College of Science, King Saud University (1989–2002).

Published Papers:

1. A.M. Azzeer., Masilamani, V., Al-Salhi, M.S. and Al-Dwayyan, A.S. “Phase conjugation by stimulated scattering from organics liquids”.Arabian J. Sci. Eng., , Vol.17, No.2B, pp.245-252, (1992).
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5. **Al-Dwayyan, A.S.**, Al-Salhi, M.S., Azzeer, A.M., Redha, M.A. and Harith, M.A. "The low-frequency fluctuation in semiconductor lasers with external cavity at different temperatures" J. King Saud Univ., Vol.12, Science (1), pp.31-39. (2000)
6. **A. Al-Dwayyan**, Y. Cao, M. Y. A. Raja, and C. X. Wang "Low Frequency Pulsation in the VCSEL Coupled to a Long External Cavity" IEE Proc.-Optoelectron., Vol.148, No. 5/6, pp.251-255 (2001).
7. M. Yasin Akhtar Raja, **Abdullah S. Al-Dwayyan**, Yang Cao, and Charlie X. Wang "Polarization and Spatial-Mode behavior of Short-Wavelength VCSELs" Optics and Laser Technology, Vol.34, pp.129-134 (2002).
8. **A. S. Al-Dwayyan** and V. Masilamani "A simple photo acoustic Instrumentation for simultaneous measurement of radiative and non-radiative processes" Asian J. Phys., Vol.11, No.1, pp.130-136 (2002).
9. M.Yasin Akhtar Raja, Y.Cao, Guthrie H. Cooper, **A. S. Al-Dwayyan**, Charlie X. Wang " Polarization and Spectral Properties of Ion-implanted and Oxide-Confined Vertical Cavity Surface-Emitting Lasers" Opt. Eng., Vol. 41, No. 3, pp.704-710 (2002).
10. Masilamani, V. and **A. S. Al-Dwayyan** "Evidence of Superexciplex in Dye Molecules" Japanese J. Appl. Phys. Vol. 41, No.9, pp.5801-5804, (2002).
11. **A. S. Al-Dwayyan** "Measurement of Industrial Noise Level in the Vicinity of Al-Senaeiah District, Riyadh" Egyptian. J. Biophysics, Vol. 8, No. 1, pp. 43-52 (2002).
12. **A. S. Al-Dwayyan** "Superexciplex Characteristics in Coumarin460" J Saud. Chem. Soc., (2002) .
13. Al-Ghamdi, **Abdullah S. Aldwayyan**, V.Masilamani, T. S. M. Al-Saud and M.S. Al-Salhi "Superexciplex of Coumarin Molecules using Tunable Ti-Sapphire Laser" Japanese J. Appl. Phys., Vol. 42, No.10, pp.4152-4156 (2003).
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23. A. S. Al Dwayyan, A. M. AL-Dukhayel and , A.m. AZZEER and A. M. Camal; " Polarization Instability of Vertical Cavity Surface Emitting Lasers" J. King Saud Univ. Vol.21, Science (special issue), Pages 93-101 (2009).
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polymerization and Characterization of polyaniline/iron oxide nanoparticles composite” Poly. Int., 59, (2010).

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75. 74.Javed Alam, M. Hoshan, A. Shukla, Idass, M. Ramamoorthy, M. Hussain and A. S. Aldwayyan "Atomic Layer Deposition of TiO₂ Film on a Polyethersulfone Membrane: Separation Applications" Submitted to the Journal of Polymer Research.

Conferences:

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2. Semiconductor and Integrated Optoelectronics “SIOE", Cardiff, UK (1988).
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10. Environment Citizenship Workshop, Riyadh, Saudi Arabia(2002).
11. 1st Meeting of Saudi Physical Sciences, Abha, Saudi Arabia (2003).
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- 13.** 19th IEEE International Conference of Semiconductor Laser (ICSL 2004), Matsue, Japan, 21-26 Sep. (2004).
- 14.** World Conference of Physics and Sustainable Development, Durban-South Africa, 29Oct–2 Nov (2005).
- 15.** 3rd meeting of Saudi Physical Sciences, Riyadh,KACST, Saudi Arabia 18-20 Dec. (2006).
- 16.** 3rd Saudi Science Conference, New Horizons in Science and their Applications, Riyadh, Mar. (2007).
- 17.** 1st Shargah International Conference on Nanotechnology and its Applications, AUS-NANO-07, Sharjah, United Arab Emirates, Apr. 10–12, (2006).
- 18.** Int. Conf. on Nanotech. King Abdulaziz Univ. Jeddah, Saudi Arabia. Jun. (2008).
- 19.** Int. Conf. on Nanostructured Adv. Mater. Univ. of Jordan, Amman, Jordan Nov. (2008).
- 20.** Int. Conf. for Nanotechnology Industries the Leading Technology of 21st century, King saud university, Riyadh, Saudi Arabia, April 5-7 (2009).
- 21.** High-Capacity Optical Network and Emerging Technology (**HONET'10**), Cairo Univ. Cairo, Egypt, 19-21 Dec.(2010).
- 22.** High-Capacity Optical Network and Emerging Technology (**HONET'11**), KSU Riyadh, Saudi Arabia, 19-21Dec. (2011).
- 23.** ImagineNano, Bilbao, Spain 23-26 Apr.(2013).
- 24.** 10 th HONET, Eastern Mediterranean University, Famagusta, Turkey11-13Dec. (2013).
- 25.** Int. Conf. on Hybrid and Organic Photovoltaics.(**HOPV14**), Lausanne, Switzerland,11-14 May (2014).
- 26.** 8th Int. Con. LIBS. China, Sep (2014).
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- 28.** SPIE, San Diego,USA, 11-13 Aug. (2015).

Patents:

- Abdullah Saleh Aldwayyan, Mohamad Saleh AlSalhi, Abdulrahman Mohammed Aldukhai, Mansour S. Alhoshan, Muhammad Naziruddin Khan, Ghassan K. Al-Chaar, and Munir H. Nayfeh; "Organosilicon nanosilicon composites and fabrication methods", USPTO Applicaton # 20100234204 - Class: 501/12 (USPTO).
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Books:

A. Translation of the following books:

- "Lasers: Principles and Applications" by J. Wilson and J. F. B. Hawkes;
Prentice Hall Press.
- " Introduction to Optics " by F. L. Pedrotti and S.J.L.S. Pedrotti;
Prentice Hall Press.
- "Introduction to Nanotechnology " Charles P. Poolc Jr. and Frank
J. Owens; J. Wiley & Sons, Inc , In collaboration with Prof. M Alsalhi.

B. Editing:

- "Nanostructured Materials: Clissification, Properties, Fabrications, Characterization
and their Applications in Biomedical Sciences”
- Two books with Prof. M. Alsalhi in Arabic about Nanotechnology.