

DR. MOHAMMED A. AL-MUMIN

د محمد علي المؤمن

EDUCATION	التعليم
1986 - 1989	University College London كلية جامعة لندن London UK لندن بريطانيا
<i>B.eng. Electronics and Electrical Engineering</i> بكالوريوس هندسة إلكترونية و كهربائية	
1989 - 1990	University College London كلية جامعة لندن London UK لندن بريطانيا
<i>MSc. in Engineering in Microwave and Optoelectronics</i> ماجستير هندسة في الموجات الدقيقة والبصريات الإلكترونية	
1997 - 2001	University of Central Florida جامعة وسط فلوريدا Orlando USA أورلاندو الولايات المتحدة
<i>Ph.D Optical Sciences and Engineering</i> ■ Optical communication group/CREOL-School of Optics ■ مركز البحوث والتعليم في مجال الضوئيات والليزر / مجموعة الاتصالات الضوئية	
PROFESSIONAL EXPERIENCE	الخبرة العملية

1991 - 1993	Institute of Communication and Navigation <i>Training Engineer - Radio and Wave Propagation Department</i> المعهد العالي للاتصالات والملاحة مدرّب - قسم الراديو والتراسل Kuwait الكويت
1993 - 1996	College of Tech. Studies <i>Assistant Instructor - Applied Science Department</i> كلية الدراسات التكنولوجية Kuwait الكويت

2001 - present College of Tech. Studies Kuwait

Associate Professor – Electronics Engineering Technology Department

- Assistant Dean for Student Affairs – Girls Campus – 2021 - present
- Head of the Electronics Eng. Technology Department 2010-2015
- Member of various committees in the College and Department including the curriculum development, research, promotion committees as well as The Industrial Advisory committee

كلية الدراسات التكنولوجية

الكويت

أستاذ مشارك – قسم تكنولوجيا الهندسة الالكترونية

- مساعد العميد لشؤون الطلبة – حرم طالبات – 2021 - الآن
- رئيس قسم – 2015-2010
- عضو في لجان المختلفة في الكلية والقسم ومنها لجنة المناهج و لجنة الأبحاث و لجنة الترقيات و سوق العمل

PROFESSIONAL MEMBERSHIPS

الجمعيات المهنية

The Institute of Electrical and Electronics Engineers

الجمعية الأمريكية للهندسة الإلكترونية و الكهربائية

The Photonics Society – IEEE

الجمعية الضوئية التابعة للجمعية الأمريكية للهندسة الإلكترونية و الكهربائية

The Microwave Theory and Techniques Society – IEEE

جمعية نظرية و أساليب الموجات الدقيقة التابعة للجمعية الأمريكية للهندسة الإلكترونية و الكهربائية

Kuwaiti Engineering Society

جمعية المهندسين الكويتية

PUBLICATIONS INCLUDE

الأبحاث المنشورة

“An Integrated Few-Mode Power Splitter Based on Multimode Interference”, Zhang Y., Al-Mumin M., Liu H., Xu C., Zhang L., LiKamWA P., and Li. G, Journal of Lightwave Technology, Volume 37, Issue 13, July 2019 Page(s):3000 – 3008.

“Dynamics of symmetrical mode beating in complex coupling two-section DFB lasers" Mohammed Al-Mumin and Guifang Li, Quantum and Optical Electronics, Springer, Volume 40, No. 5-6, April 2008 Page(s):361 – 366.

“Injection locked multi-section gain-coupled dual mode DFB laser for terahertz generation" Mohammed Al-Mumin, Cheolhwan Kim, Inwoong Kim, Nazar Jaafar and Guifang Li, Optics Communications, Elsevier, Volume 275, No. 1, July 2007, Page(s):186 – 189.

“Assessment of Direct Modulation in Wireless Fiber Links Based on Heterodyning of Sideband Injection-Locked Semiconductor Lasers”,

Mohammed Al-Mumin, Abdalla Al-Hajeri and Guifang Li, Kuwait University Journal of Science and Engineering, Volume 34, No. 1B, June 2007, Page(s):57 – 772.

“Comparison of quasi-symmetrical and asymmetrical mode beatings in two-section partially gain-coupled DFB lasers” Mohammed Al-Mumin and Guifang Li, Quantum and Optical Electronics, Springer, Volume 38, No. 12-14, September 2006 Page(s):1045 – 1051.

“Self-Consistent Simulation of Self-pulsating Two-Section Gain-Coupled DFB lasers” Mohammed Al-Mumin and Guifang Li, Quantum Electronics, IEEE Journal of, Volume 41, Issue 4, April 2005 Page(s):525 – 531.

“All-optical clock recovery from RZ-format data by using a two-section gain-coupled DFB laser”, Weiming Mao, Yuhua Li, Al-Mumin, M., Guifang Li, Lightwave Technology, Journal of Volume 20, Issue 9, Sept. 2002 Page(s):1705 – 1714.

“40 GHz millimetre-wave link based on two-section gain-coupled DFB lasers”, Al-Mumin M., Mao W., Li Y., and Li G., Electronics Letters Volume 37, Issue 14, 5 July 2001 Page(s):915 – 916.

“Optical generation and sideband injection locking of tunable 11-120 GHz microwave/millimetre signals”, Al-Mumin, M., Xinhong Wang, Weiming Mao, Pappert, S.A., Guifang Li, Electronics Letters, Volume 36, Issue 18, 31 Aug. 2000 Page(s):1547 – 1548.

“All-optical clock recovery for both RZ and NRZ data”, Weiming Mao, Yuhua Li, Mohammed Al-Mumin, Guifang Li, Photonics Technology Letters, IEEE Volume 14, Issue 6, June 2002 Page(s):873 – 875.

“All-optical enhancement of clock and clock-to-data suppression ratio of NRZ data”, Weiming Mao, Al-Mumin, M., Xinhong Wang, Guifang Li, Photonics Technology Letters, IEEE Volume 13, Issue 3, Mar 2001 Page(s):239 – 241.

“40 GHz millimeter-wave Link Based on Two-Section Gain-Coupled DFB Lasers”, Mohammed Al-Mumin, Weiming Mao, Yuhua Li, , Guifang Li, Electronics letters, Volume 37, Issue 14, July 2001 Page(s):915 – 916.

“Optical Generation of Microwave/Millimeter-Wave Signals Using Two-Section Gain-Coupled DFB Lasers”, Xinhong Wang, Weiming Mao, Mohammed Al-Mumin, Stephen A. Pappert, Jin Hong, Guifang Li, Photonics Technology Letters, IEEE Volume 11, Issue 10, Oct 1999 Page(s):1292 – 1294.

CONFERNCES INCLUDE

“Integrated Power Splitters for Mode-Multiplexed Signals”, Zhang Y., Al-Mumin M., Liu H., Xu C., Zhang L., LiKamWA P., and Li. G., Lasers and Electro-Optics, 2018. CLEO '18. Technical Digest. (Online), Paper JW2A.46, USA.

“The Effect of Gain-Coupling on Mode Beatings in Weakly-Coupled Two-Section DFB lasers”, Al-Mumin M., NUSOD 2007, USA.

“On the Prediction of Self-Pulsations in Two-Section Partially Gain-Coupled DFB Lasers”, Al-Mumin M., NUSOD 2006, Singapore.

“Gain-coupled two-section self-pulsating DFB lasers: model and applications”, Al-Mumin M., Mao W. , Li Y. and Li G., 1st GCC IEEE Conference, 13-14 May 2003. Kingdom of Bahrain.

“WDM/SCM optical fiber backbone for 60 GHz wireless systems”, Al-mumin, M.A., Li, G., Microwave Photonics, 2001. MWP '01. 2001 International Topical Meeting on 7-9 Jan. 2002 Page(s):61 – 64, (Invited Paper), USA.

“Millimeter-wave fiber optic links using two-section gain-coupled DFB lasers”, M. Al-Mumin and G. Li, Proc. Of SPIE, Vol. 4111, Dec. 2000, Page(s):87 – 95. (Invited Paper), USA.

“Self-pulsating DFB lasers for 60 GHz broadband wireless networks”, Al-Mumin, M., Yuhua Li, Guifang Li, Lasers and Electro-Optics, 2001. CLEO '01. Technical Digest. Summaries of papers presented at the Conference on 6-11 May 2001 Page(s):476 – 477, USA.

“Optical generation and self subharmonic injection locking of tunable 10-100 GHz microwave/millimeter signals”, Al-Mumin M., Wang X., Mao W., Li G., and Pappert, S.A., Lasers and Electro-Optics, 2000. CLEO '00. Technical Digest. Summaries of papers presented at the Conference on 7-12 May 2000 Page(s):96 – 497, USA.

“40 Gb/s All-Optical Clock Recovery Using Three Section Self-Pulsating DFB Lasers”, Weining Mao, Xinhong Wang, Mohammed Al-Mumin, and Guifang Li, Optical Fiber Conference, OFC 2000, Technical Digest Postconference Edition, Trends in Optics and Photonics Vol 37., ThF2-1/79-80, USA

AREAS OF INTEREST

الاهتمامات البحثية

- *Space Division Multiplexing, Ultrafast dynamics and nonlinearities in optical fiber, Self-pulsating Lasers, Microwave-photonics*