Qais Thanon Najim Algwari

Ninevah University College of Electronic Eng. Dept. of Electronics E-mail: qais.najim@uoninevah.edu.iq

PhD. in Physics (Plasma) Assistant Professor

PERSONAL Date of Birth: 1970 Address: Mosul-Iraq

EDUCATION and EMPLOYMENT

EDUCATION PhD. 2011, (Atmospheric pressure plasma jets) School of Maths and Physics. Centre of Plasma Physics. The Queen's University of Belfast. Belfast. United Kingdoms.

M.Sc. 1997, (Plasma Physics) Dept. of Physics, College of Sciences. University of Mosul. Mosul-Iraq

B.Sc. 1992, (Physics) Ranked the first position in the class, Dept. of Physics, College of Sciences. University of Mosul, Mosul, Iraq.

Employment History:	April 2014 To Now	Assistant Professor College of Electronic Engineering, Ninevah University, Mosul, Iraq
	July 2011 to April 2014	Lecturer College of Electronic Engineering, University of Mosul. Mosul, Iraq.
	September 2008 to July 2011	M. Sc Supervisor and Lab. Demonstrator Centre of Plasma Physics. The Queen's University of Belfast. Belfast. United Kingdoms
	December 2004 to July 2008	Associate Lecturer College of Electronic Engineering, University of Mosul. Mosul, Iraq.
	November 1997 to December 2004	Physicist Alkindy Company, Signal process centre.

	February 1993 to September 1995		Physicist Alkindy Company, Laser research centre.					
SKILLS	 Language – Arabic (mother language) - English Computer Skills – C++, Microsoft Office, Comsol multiphysics Scholarly Activities - Reviewer of literatures in Plasma and Polymer Process, Plasma Source Sciences Technology. IEEE trans. plasma sci., Physics of plasma. . 							
Teaching and	Series		Courses		Level			
Academic	1	Plasma diag	mostics		M.Sc.			
Activities	2	Ŭ	and IC fabrication		M.Sc.			
	3		onics Semiconductor		M.Sc			
	4		d Fiber Communications B. Sc.					
	5	Physical Ele			B.Sc.			
	6	C++ program						
	7				B.Sc.			
Awards and Recognition	 The Iraqi High Education Prize on the Science for the best Paper in 2013 European Plasma Society Prize for the best Paper in EPS conference 2010. 							
University	#		Committee Name	P	Period	Position		
and	1 D	Departmental c	council	2004	4-to now	Member		
Departmental	2 P	romotion con	nmittee.	2017 to	o now1997	Member		
Community	3 T	Sest and exame	s college council	200)5-2008	Member		
Services	4 T	Test and exame	s departmental council	201	3-2014	Chairman		
(Publications)	an (Q	atmospheric pre	rally and 3-d spatially resolved experim essure helium plasma into ambient air	nental investigations	s of plasma puls	e propagation from		
	2. Pl Q. Bul	7 th EPS Conferen asma dynamics a . Th. Algwari, D	 O'Connell) (<u>Conference prize</u>) nce on Plasma Physics, 21 - 25 June 201 and development of plasma pulses in a h O'Connell erican Physical Society, 63rd Annual Ga 	kHz generated atmo				
	2. Pl Q. Bul Oct. 2010 F	7 th EPS Conferen asma dynamics a . Th. Algwari, D letin of the Ame Paris, France	nce on Plasma Physics, 21 - 25 June 201 and development of plasma pulses in a l 0. O'Connell	kHz generated atmo	Conference Vol			

 20th ESCAMPIG, 13-17 July 2010, Novi, Sad, Serbia 4. Dynamics of atmospheric pressure plasma jets and Interaction mechanisms between multiple jet plumes
Q. Th. Algwari, D. O'Connell 20th ESCAMPIG, 13-17 July 2010, Novi, Sad, Serbia

5. Generation of reactive oxygen species in kHz-driven atmospheric pressure plasma jets for biomedical applications
J.S. Sousa, Q. Th. Algwari, K. Niemi, V. Puech, T. Gans, D. O'Connell NATO Advanced Research Workshop, March 15-18, 2011, Jasná, Slovakia
 The role of molecular air species in atmospheric pressure plasma jets Q. Th. Algwari, D. O'Connell 30th ICPIG 2011 Conference, 28th August to 2nd September 2011, Belfast UK
 7. Interaction mechanisms between multiple plasma jets Q. Th. Algwari, C. O'Neill, D. O'Connell 30th ICPIG 2011 Conference, 28th August to 2nd September 2011, Belfast UK
 Reactive oxygen species in kHz-driven atmospheric pressure plasma jets J. S. Sousa, Q. Algwari, K. Niemi, T. Gans, D. O'Connell 30th ICPIG 2011 Conference, 28th August to 2nd September 2011, Belfast UK
 Interactions of non-thermal atmospheric pressure plasmas with plasmid DNA A. Gibson, D. O'Connell, L. Cox, Q. Algwari 30th ICPIG 2011 Conference, 28th August to 2nd September 2011, Belfast UK
 Kilohertz-Driven Atmospheric Pressure Plasma Jet for the Decontamination of Bacterial Biofilms M. Y. Alkawareek, S. P. Gorman, D. O'Connell, Q. Th. Algwari, B. F. Gilmore 30th ICPIG 2011 Conference, 28th August to 2nd September 2011, Belfast UK
 The role of molecular air species in kHz driven atmospheric pressure plasma jets Q. Th. Algwari, D. O'Connell Bulletin of the American Physical Society, 64th Annual Gaseous Electronics Conference Volume 56, Number 15, Nov. 2011, USA
 Atmospheric pressure plasma jets as sources of reactive oxygen species for biomedical applications J. Sousa, Q. Algwari, L. Cox, L. Graham, J. Waskoenig, K. Niemi, D. O'Connell, and T. Gans 6th International Workshop on Microplasmas, Paris, France 2011
 Eradication of Bacterial Biofilms Using Atmospheric Pressure Non-Thermal Plasmas M. Alkawareek, B. Gilmore; S. Gorman; Q. Th. Algwari; W. Graham; D.O'Connell. American Physical Society, 64th Annual Gaseous Electronics Conference, November 14-18, 2011
 14. Plasma jet interaction with a dielectric surface Q. Th. Algwari, D. O'Connell IEEE Transactions on Plasma Science, Volume: 39, Issue: 11 Page(s): 2368 – 2369 (2011)
 Cold atmospheric pressure plasma jets as sources of singlet delta oxygen for biomedical applications J. S. Sousa, K. Niemi, L. J. Cox, Q. Th. Algwari, T. Gans, and D. O'Connell <i>Journal of Applied Physics</i>. Volume 109, page 123302 (2011)

 16. Electron dynamics and plasma jet formation in a helium atmospheric pressure dielectric barrier discharge jet <i>Applied Physics Letter. Volume</i> 99, page 121501 (2011) Q. Th. Algwari, D. O'Connell

M. Alkawareek, Q. Th. Algwari ,S. Gorman, W. Graham, D. O'Connell, Deborah, B. Gilmore FEMS Immunology & Medical Microbiology Vol 65 Issue 2, page 381, 2012
 Eradication of Pseudomonas aeruginosa Biofilms by Atmospheric Pressure Non-Thermal Plasma M. Alkawareek, Q. Th. Algwari, G. Laverty, S. Gorman, W. Graham, D. O'Connell, Deborah, B. Gilmore PLoS One., Vol 7, Issue 8, e44289, 2012
 Cold atmospheric pressure plasma jets as sources of reactive oxygen species for biomedical applications J.S. Sousa, Q. Th. Algwari, L.J. Cox, L.M. Graham, J. Waskoenig, K. Niemi, D. O'Connell, T. Gans ESCAMPIG XXI, July 10-14 2012, Viana do Castelo, Portugal

20. Reaction kinetics of a kHz-driven atmospheric pressure plasma jet operated in ambient humid air
T. MurakamiP, Q. Th. Algwari, K. NiemiPP, T. GansPP, D. O'ConnellP, and W. G. Graham 31 st ICPIG, July 14-19, 2013, Granada, Spain

21. Plasmid DNA Damage Following Exposure to Atmospheric Pressure Nonthermal Plasma: Kinetics and Influence of Oxygen Admixture
Mahmoud Y. Alkawareekb Nid'a H. Alshraiedeh Sarah Higginbotham,a Padrig B. Flynn, Qais T. Algwari Sean P. Gorman, William G. Graham, and Brendan F. Gilmorea <i>Plasma Medicine</i> 4(1-4): 211-219 (2014)

22. Numerical Simulation of the Trichel-Pulse in SF6 at Atmospheric Pressure Dawood N. Saleh , Qais Th. Algwari, and Farook Kh. Amoor IEEE TRANSACTIONS ON PLASMA SCIENCE, VOL. 47, NO. 1, JANUARY 2019

 23 Modeling the dependence of the negative corona current density on applied voltage rise time Dawood N. Saleh , Qais Th. Algwari, and Farook Kh. Amoor Phys. Plasmas 27, 073501 (2020)