Sami Saleh Alghamdi

Assistant Professor, Department of Electrical and Computer Engineering, King Abdulaziz University

Education

Degree	Field of Study	Institution	Year
Ph.D.	Micro/nanoelectronics	Purdue University-West Lafayette	2019
MS DS	Micro/nanoelectronics	Purdue University-West Lafayette	2014
BSElectrical EngineeringKing Abdulaziz University2009Academic Experience			

From To	Institution	Title	Full or Part Time
2019 present	King Abdulaziz University	Assistant Professor	Full Time
2009 2019	King Abdulaziz University	Teaching Associate	Full Time
2016 2019	Purdue University	Teaching Assistant	Part Time
2009 2010	Umm Alqura University	Consultant	Part Time
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Non-Academic Experience (Including Consultations)

2009 2010	Umm Alqura University	Consultant	Part Time
2013-2018	President of Arabian Gulf Bo	oilermakers student Organization	on, Purdue University
2014-2014	ECE Graduate Students Men	tor, Electrical and Computer E	ngineering, Purdue University

Certifications and Professional Registrations

2010	NCESS/Saudi Council of Engineers	FE Certified
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Current Membership in Professional Societies and Organizations

	Society/Organization	Rank	Since
i.	IEEE	Member	2019
ii.	IEEE	Students Member	2008
iii.	Saudi Council of Engineers, Saudi Arabia	Associate Electrical Enginee	er 2010

Honors and Awards

Outstanding Students Award by Saudi Cultural Mission, Washington, DC	May 2014	
KAUST Excellence Award for Outstanding Saudi Students in US	May 2014	
Fellowship Award proceeded by a Scholarship Award from KAUST, Thuwal, Saudi Arabia		
	2008-2009	

Institutional and Professional Services

IEEE Western Saudi Arabia Section Industrial Relations Coordinator	2019 present
IEEE Western Saudi Arabia Section Student Activities Chair	2019 present
2020 present Member of the Graduate program Development Committee in ECE, KAU	2020 present
Team Supervisor Instructor, ROBOCON 2010 (International robot contest), Cairo, Egypt	t Sep. 2010

Principal Publications/Presentations from the Past Five Years

S. Alghamdi, M. Si, H. Bae, H. Zhou, and P. D. Ye. "Single Pulse Charge Pumping Measurements on GaN MOS-HEMT: Fast and Reliable Extraction of Interface Traps Density," in *IEEE TED*, vol. 67, no. 2, pp. 444-448, **2019**

H. Bae, J. Noh, **S. Alghamdi**, and P. D. Ye, "Ultraviolet Light-Based Current-Voltage Method for Simultaneous Extraction of Donor- and Acceptor-Like Interface Traps in β -Ga₂O₃ FETs," in *IEEE EDL*, vol. 39, no. 11, pp. 1708-1711, **2018**.

H. Zhou, M. Si, **S. Alghamdi**, G. Qiu, L. Yang and P. D. Ye. "High Performance Depletion/Enhancement-Mode β -Ga₂O₃ on Insulator (GOOI) Field-effect Transistors with Record Drain Currents of 600/450 mA/mm," in *IEEE EDL*, vol. 38, no.1, pp. 103-106, **2017**.

X. Lou, H. Zhou, S. B. Kim, **S. Alghamdi**, X. Gong, J. Feng, P. D. Ye, R. G. Gordon, "Epitaxial Growth of MgCaO on GaN by Atomic Layer Deposition," in *Nano Letters*, 16, 7650-7654. **2017**.

H. Zhou, **S. Alghamdi**, Gang Qiu, M. Si and P. D. Ye, "Al₂O₃/ β -Ga₂O₃ (-201) Interface Improvement Through Piranha Pretreatment and Post Deposition Annealing," in *IEEE EDL*, vol. 37, no. 11, 1411-1414. **2016**.

H. Zhou, X. Lou, N. J. Conrad, M. Si, H. Wu, **S. Alghamdi**, S. Guo, R. G. Gordon, and P. D. Ye, "High Performance InAlN/GaN MOSHEMTs Enabled by Atomic Layer Epitaxy MgCaO as Gate Dielectric," in *IEEE EDL*, vol. 37, no. 5, 556-559, **2016**.

S. Alghamdi, M. Si, H. Bae, H. Zhou, and P. D. Ye, "Measurements of Interface Trap Density on GaN MOS-HEMTs with Epitaxial MgCaO and Amorphous Al₂O₃ Gate Stacks by Single Pulse Charge Pumping," in *50th IEEE SISC*, 2019

S. Alghamdi, W. Chung, M. Si, and P. D. Ye, "Time Response of Polarization Switching in Ge Hafnium Zirconium Oxide Nanowire Ferroelectric Field-effect Transistors," *76th IEEE DRC*, Santa Barbra, CA, 1-2, 2018.

S. Alghamdi, M. Si, L. Yang and P. D. Ye, "Low Frequency Noise in MoS₂ Negative Capacitance Field-effect Transistor," *2018 IEEE IRPS*, San Francisco, CA, pp. P.TX.1-1-P.TX.1-5, 2018.

Recent Professional Development Activities (Workshops, Trainings etc.)

Workshop: "The 7 Types of Waste in Higher Education" King Abdulaziz University Sep. 2019