



Faculty Member Academic Biography



Personal data

Name	Dr Ahmed M A Sabaawi		
Current academic rank	Assist. Prof in Communication Engineering		
Workplace	Ninevah University	Academic department	Electronics Eng.
General specialization	Electrical Eng.	Specialization	Comm. Eng.
E-mail	Ahmed.sabaawi@uoninevah.edu.iq		

Academic qualifications

Degree	University Name	Country Studied at	Major	Graduation Date
PhD	Newcastle University	UK	Electrical and Electronics Engineering	2015
MSc	Mosul University	Iraq	Electrical Engineering	2008
BSc	Mosul University	Iraq	Electrical Engineering	2002

Academic rank:

Academic rank	Date of Obtaining the rank	Academic rank granting Institution
Assistant Prof	2022	Ninevah University

Practical experiences:

Time period		Employer	Job Title
from	to		
2022	now	Ninevah University	Assist. Prof
2018	2022	Ninevah University	Lecturer
2017	2018	Newcastle University, Uk	Associate Researcher

Scientific production (published/accepted for publication):

Research Title	Place of publication	date of publication	Volume	issue
A Modified Fractal Hexagonal Slot Antenna With a Defected Ground Structure for RF Energy Harvesting Applications	International Journal of Microwave and Optical Technology	2024	19	2
Multiband Handset Antennas with Elliptical Slot for Sub-6 GHz 5G Smartphones	International Journal of Microwave and Optical Technology	2024	19	2
Drone Shaped Fractal Antenna with Defected Ground Structure for RF Energy Harvesting Applications	Periodica polytechnica Electrical engineering and computer science	2024	68	3
Multiband SINC-slotted Patch Antenna for 5G Applications	Periodica polytechnica Electrical engineering and computer science	2024	68	2
Microstrip Patch Antenna with Multi-Fins for Radio Frequency Energy Harvesting Applications	Progress In Electromagnetics Research C	2024	142	
RF Rectifiers with Voltage Doubler for Wireless Implantable Devices	AIP Conference Proceedings	2023	2804	1
Simulating the Barrier Heights Impact on the Performance of Dissimilar Electrodes Metal-Insulator-Metal Diode	Przegląd Elektrotechniczny	2023	2023	11
Multiband Patch Antenna with SINC-Shaped Edges for Sub-6 GHz Applications	Progress In Electromagnetics Research C	2024	138	
Study and Design of A Dual Mode Resonant Band-Pass Filter Suspended Substrate Stripline for 5G Communications	Przegląd Elektrotechniczny	2023	99	6
DESIGN AND OPTIMIZATION OF 0.18 μm CMOS TRANSIMPEDANCE AMPLIFIER FOR 20 Gb/s OPTICAL COMMUNICATIONS USING GENETIC ALGORITHMS	Journal of Engineering Science and Technology	2022	17	3
Design of multiple-input and multiple-output antenna for modern wireless applications	Telkomnika (Telecommunication Computing Electronics and Control)	2022	20	1

Dual-Band MIMO Antenna with Defected Ground Structure for Sub-6 GHz 5G Applications	Progress In Electromagnetics Research C	2022	122	1
Design and Implementation of Multi-Band Fractal Slot Antennas for Energy Harvesting Applications	Periodica polytechnica Electrical engineering and computer science	2022	66	3
Performance Optimization of MASnI3-based Perovskite Solar Cells	Przegląd Elektrotechniczny	2022	98	6
Design of mmWave Multi-sector array Using Bowtie Antenna Elements for 5G Mobile Base Stations	Przegląd Elektrotechniczny	2022	98	5
Multiband Handset Antenna System for UMTS/LTE/WLAN/ Sub-6 5G and mmWave 5G Future Smartphones	Periodica polytechnica Electrical engineering and computer science	2022	66	
Design of multi-band millimeter wave antenna for 5G smartphones	Indonesian Journal of Electrical Engineering and Computer Science	2022	25	
Effect of structural defects and impurities on electrical characteristics of photovoltaic cells: Multiscale modelling	Journal of Engineering Science and Technology	2021	16	

Published book chapters

Book Chapter Title	Publishing Institution	Year of Publication	Number of pages
Implantable wireless systems: A review of potentials and challenges	IntechOpen	2021	
Solar rectennas: analysis and design	IntechOpen	2019	
Rectenna Solar Cells	Springer	2013	
Design and Fabrication of Miniaturized Fractal Antennas for Passive UHF RFID Tags	IntechOpen	2011	
Antennas of RFID Tags	IntechOpen	2010	

Awards obtained:

Name of the award	The award granting institution	Date
Best Paper Award	IREC 2020 conference	2020
Best Poster Award	Newcastle University	2012
Best Poster Award	Iraqi Cultural Attaché in London	2011

Courses(s) I have taught:

Course name (subject)	Academic year	University/ Institution
Radiation	4th	Ninevah University
Antennas and Propagation	4th	Ninevah University
Electronics and Communication LAB	3rd	Ninevah University

Supervising master's or doctoral theses:

Title	Degree	Date
The effects of defects on Perovskite solar cell performance	MSc	2021
Wireless Powering of Implantable Medical Devices	MSc	2022
Design and Implementation of Multiband Rectenna for Ambient RF Energy Harvesting	MSc	2023
Design and Optimization of RF Rectifier Circuit for Self-Powered Wireless Sensor Nodes	MSc	2024
Advanced Antenna Design for RF-Based Energy Harvesting Systems	MSc	2024

Note: This CV has been updated until 8/ 4 / 2025

