Dr. Rasha Ghunaim

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Profile

Assistant Professor in Chemistry at the department of Applied Chemistry and Biology, college of Applied Sciences at Palestine Polytechnic University (PPU).

Education

PhD in Chemsitry, Leibniz Institute for Solid State and Materials Research – TU Dresden, Germany Thesis: "Development of Intermetallic filled Carbon nanotube sensors for Hyperthermia applications"	2015 – 2019 Dresden, Germany
M.Sc in Chemsitry, <i>University of Jordan</i> Thesis: "Synthesis and Characterization of Some Stable Copper(III) Complexes"	2009 – 2012 Amman, Jordan
B.Sc in Chemsitry, <i>Hebron University</i> Graduation Porject: Surface Physical Chemistry	2004 – 2008 Hebron, Palestine
Professional Experience	
Head of the Department of Applied Chemistry and Biology, Palestine Polytechnic University (PPU)	2023 – present Hebron, Palestine
Assistant Professor, <i>Palestine Polytechnic University - PPU</i> Assistant Professor in Chemistry	2019 – present Hebron, Palestine
Short Research Stay, Forschungszentrum Jülich (FZJ)	07/2022 – 08/2022 Jülich, Germany
Short Research Stay, IFW Dresden Working on cathodes materials for lithium ion batteries (LIBs)	06/2022 – 07/2022 Dresden, Germany
Short Research Stay, IFW Dresden	07/2021 Dresden, Germany
Doctorate Studies, Leibniz Institute for Solid State and Materials Research (IFW)	2015 – 2019 Dresden, Germany
Lecturer, Palestine Polytechnic University - PPU	2012 – 2014 Hebron, Plaestine
Chemistry Teacher, Beit-Ula Secondary School for Girls	2008 – 2009 Hebron, Palestine

Skills

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Computer Skills		Specialist Skills	
Origin		UV/Vis/FTIR spectrophotometers	
Endnote		SEM	
Chemdraw	11.11	TEM	
ImageJ program for TEM imag	es editing	TGA	
Microsoft Office package		SQUID Pourder VPD	
Learning/Teaching Skills		Powder XRD Mall Mill	
Moodle		Simple Lab equipments (pH meter, co	nductivity
Google Package		meter, Polarimeter, Refractometer)	inductivity
Snagit		meter, Fotalimeter, Nemactometer)	
Canva			
Nearpod			
Rubrics			
Languages			
• Arabic	• English	• German	
Awards			
The 10th Undergraduate Res Office of Research and Sponsor Students supervision	-		2023
Grant for Short Research Stay, Palestinian German Science Bridge (PGSB)		2022	
Grant for Short Research Stay, IFW Dresden		2021	
Doctoral studies scholarship	, German Academic Exch	ange Service - DAAD	2015
Master studies scholarship, German Academic Exchange Service - DAAD		nge Service - DAAD	2009
Bachelor studies scholarship <i>Ministry of Education and High</i>	•		2004
Publications			
CoFe2O4-filled carbon-nano Journal of Alloys and Compoun		l for lithium-ion batteries,	2020
Filled Carbon Nanotubes as a Molecules	Anode Materials for Lith	nium-Ion Batteries,	2020
Photocatalytic degradation of wastewater, Asian Journal of	-	ounds present in Olive mill	2018
Fe1-xNix Alloy Nanoparticles Controlled Synthesis, Struct			2018
Single-crystalline FeCo nand structural characterization a Beilstein Journal of Nanotechr	and magnetic properties	·	2018

Carbon nanotube-assisted synthesis of ferromagnetic Heusler nanoparticles of Fe3Ga (Nano-Galfenol), Journal of Materials Chemistry	2018
Magnetic properties of individual Co2FeGa Heusler nanoparticles studied at room temperature by a highly sensitive co-resonant cantilever sensor, Scientific Reports	2017