

**Said Moh'd Sharif Al Azar**

Email: Salazar@zu.edu.jo

Physics/ computational condensed matter

**Academic Rank: Assistant Professor****Membership:**

1.	APS member (Membership No. 62170862)
2.	

**Qualifications:**

1.	<i>PhD in Physics</i>	2006 – 2011	The UNIVERSITY of JORDAN	AMMAN, JORDAN
2.	<i>M.sc in Physics</i>	1999 - 2002	The UNIVERSITY of JORDAN	AMMAN, JORDAN
3.	<i>B.sc in Physics</i>	1992 – 1996	MUTA'H UNIVERSITY	AL KARAK, JORDAN

- **Professional Objective(s):** Develop and deliver engaging, high-quality lectures and laboratory sessions. Conduct cutting-edge research in your field of expertise, such as computational materials science. Publish findings in reputable scientific journals. Secure funding through grants and collaborations. Stay updated with the latest advancements in physics and education.

**Teaching Experience:**

#	From	to	
1.	2021	Till now	ZARQA UNIVERSITY Assistant Professor of Physics/ Department of Physics ZARQA, JORDAN
2.	2019	2021	ONTARIO ACADEMY <i>R&amp;D manager and Trainer</i> AMMAN, JORDAN



3.	2018	2019	MIDDLE EAST UNIVERSITY Assistant Professor of Physics/Department of Basic Science	AMMAN, JORDAN
4.	Sept 2017	Dec 2017	ILEI/ ITQAN <i>Physics instructor</i>	RAS TANURA, KSA
5.	July 2017	Aug 2017	ISRA UNIVERSITY <i>Visiting Assistant Professor of Physics in summer semester</i>	AMMAN, JORDAN
6.	2014	2017	DAR AL-ULOOM UNIVERSITY <i>Head of the Basic Science Department</i>	RIYADH, KSA
7.	2012	2014	Al-FARABI COLLEGE <i>Assistant Professor of Physics/ Department of Basic Science</i>	RIYADH, KSA
8.	2011	2012	Global University COLLEGE <i>Assistant Professor of Physics/ Department of Basic Science</i>	RIYADH, KSA

**Publications:****Books:**

#	Book Title	Publisher	Year
.1	Metal Oxide Powder Technologies, Fundamentals, Processing Methods and Applications /Chapter 8	Elsevier ISBN:9780128175057	2020
.2			

**Translated Books:**

#	Book Title	Publisher	Year
.1			
.2			
.3			
.4			
.5			

**Articles:**

#	Article Title	Publisher	Year
.1	<a href="#">An ab initio study to investigate the physical properties of CsEuX<sub>3</sub> (X= Cl, Br, and I) using different Exchange-Correlation potentials</a>	Elsevier	2024
.2	<a href="#">Ab initio study of the physical characteristics of CsPb<sub>1-x</sub>MoxBr<sub>3</sub> perovskites</a>	Elsevier	2024



.3	<a href="#">Investigating the physical characteristics of inorganic cubic perovskite CsZnX3 (X = F, Cl, Br, and I): An extensive ab initio study towards potential applications in photovoltaic perovskite devices</a>	Elsevier	2024
.4	<a href="#">Computational study of structural parameters, magnetic properties, half metallicity, and linear optical characteristics of transition-metal oxide double perovskites: Ba2MnReO6, Ba2NiReO6, and Sr2MnReO6</a>	Springer US	2024
.5	<a href="#">DFT Study of Structural, Electronic, Magnetic, and Thermodynamic properties of XMnZ2 (X = Au, Hg, and Tl, Z = S, Se) Delafossites</a>	Springer US	2024
.6	<a href="#">An ab initio study on the physical properties of double perovskite Cs2AgXBr6 (X= S, Te, Se)</a>	Elsevier	2024
.7	<a href="#">Ab Initio Investigation of the Structural, Elastic, Dynamic, Electronic, and Magnetic Properties of Cubic Perovskite CeCrO3</a>	American Chemical Society	2024
.8	<a href="#">Mechanical, magneto-electronic and thermoelectric properties of Ba2MgReO6 and Ba2YMoO6 based cubic double perovskites: an ab initio study</a>	IOP Publishing	2023
.9	<a href="#">Computational characterization of structural, optoelectronic, and thermoelectric properties of some double half-Heusler alloys X2FeY'Sb2 (X: Hf, Zr ;Y': Ni, Pd)</a>	Taylor & Francis	2023
.10	<a href="#">Investigating the physical properties of lead-free halide double perovskites Cs2AgXBr6 (X = P, As, Sb) for photovoltaic and thermoelectric devices using the density functional theory</a>	Elsevier	2023
.11	<a href="#">Insight into physical properties of lutetium-based double half-Heusler alloys LuXCo2Bi2 (X= V, Nb and Ta)</a>	Elsevier	2023
.12	<a href="#">First-principles calculations to investigate structural, mechanical, electronic, optical, and thermoelectric properties of novel cubic double Perovskites X2AgBiBr6 (X=Li, Na, K, Rb, Cs) for optoelectronic devices</a>	Taylor & Francis	2023
.13	<a href="#">Insight into the spin-polarized structural, optoelectronic, magnetic, thermodynamic, and thermoelectric properties of PdBO2 (B = Al, Cr, and Rh) Delafossite semiconductor</a>	Springer US	2023
.14	<a href="#">Tuning the bandgap of cubic and orthorhombic BaZrS3 by substituting sulfur with selenium</a>	AIP Publishing	2023



15	<a href="#">DFT-Based investigation of electronic-structure, magnetic and thermoelectric properties of Dy<sub>2</sub>CoMnO<sub>6</sub> double perovskite</a>	IOP Publishing	2023
16	<a href="#">Insight into the structural, electronic, optical, and elastic properties of niobium carbide</a>	Taylor & Francis	2023
17	<a href="#">Structural, Elastic, Electronic, and Magnetic Properties of Full-Heusler Alloys Sc<sub>2</sub>TiAl and Sc<sub>2</sub>TiSi Using the FP-LAPW Method</a>	MDPI	2023
18	<a href="#">Investigation of electronic, optical, and thermoelectric properties of half-metallic spinel X<sub>2</sub>NO<sub>4</sub> (X= B, Al): First-principles calculations</a>	Elsevier	2023
19	<a href="#">Characterization of structural, dynamic, optoelectronic, thermodynamic, mechanical, and thermoelectric properties of AMgF<sub>3</sub> (A= K or Ag) fluoro-perovskites compounds</a>	IOP Publishing	2023
20	<a href="#">Roles of Oxygen Vacancies and Excess Electron Localization on Ceria Surfaces: First Principles Study</a>	<i>Natural Sciences Publishing</i>	2023
21	<a href="#">Structural, electronic, magnetic, and optical investigations of sodium chalcogenides: First-principles calculations</a>	AIP Publishing	2023
22	<a href="#">The Structural, Electronic, Magnetic and Elastic Properties of Full-Heusler Co<sub>2</sub>CrAl and Cr<sub>2</sub>MnSb: An Ab Initio Study</a>	MDPI	2022
23	Stability, elastic and electronic properties of the CsSrI <sub>3</sub> halide perovskite	Elsevier	2022
24	Structural, Elastic, Electronic, Magnetic, and Thermoelectric Characteristics of MgEu <sub>2</sub> X <sub>4</sub> (X = S, Se) Spinel Compounds: Ab-Initio Calculations	Wiley	2022
25	Opto-electronic, thermodynamic and charge carriers transport properties of Ta <sub>2</sub> FeNiSn <sub>2</sub> and Nb <sub>2</sub> FeNiSn <sub>2</sub> double half-Heusler alloys	IOP Publishing	2022
26	Investigation of Electronic, Optical and Thermoelectric Properties of Perovskite BaTMO <sub>3</sub> (TM=Zr, Hf): First Principles Calculations	Elsevier	2021
27	Ab initio studies of the structural, elastic, electronic and optical properties of the Ni <sub>3</sub> In intermetallic compound	Elsevier	2020
28	Nonlinear optical properties of mirror-image configurations of chiral limonene molecule	SPIE	2020
29	First principles investigation of the structural, electronic and elastic properties of the laves phase compounds SrX <sub>2</sub> (X=Pt and Pd)	Elsevier	2019



30	Structural, Electronic and Magnetic Properties of $Ti_{1+x}FeSb$ Heusler Alloys	Elsevier	2017
31	Structural, Electronic and Magnetic Properties of $Fe_{3-x}Mn_xZ$ (Z=Al, Ge, Sb) Heusler Alloys	North-Holland	2012

**Conferences:**

#	Paper Title	Organizing Institution	Conference
1.	<b>Nonlinear optical properties of mirror-image configurations of chiral limonene molecule</b>	<b>SPIE</b>	<b>Nonlinear Optics and its Applications 2020, France (113581Q)</b>
2.	<b>Electronic Structure and Formation Energy of <math>TiC_xH_{2-x}</math> alloys: DFT Study”</b>	<b>Conferenceseries.com, Sept 6-7, 2018 in Dubai, UAE</b>	<b>International Conference on Polymerization Catalysis, Flexible Polymer and Nanotechnology</b>
3.	<b>Structural, Electronic and Magnetic Properties of <math>Ti_{1+x}FeSb</math> and <math>TiFe_{0.75}M_{0.25}Sb</math> (M=Mn, Ni) Heusler Alloys</b>	<b>APS</b>	<b>The MAR16 Meeting of The American Physical Society March 13-18, 2016 in Baltimore, Maryland, USA</b>
4.	Hyperfine field and local spin magnetic moment of $Fe_{3-x}Mn_xSb$ Heusler alloys: DFT study	IMN, Nantes University Nantes, France July 7-9, 2014	<a href="#">ICAMM 2014: 3rd edition of the International Conference on Advanced Materials Modeling</a>
5.	Structural, Electronic, and Magnetic Properties of $Fe_{3-x}Mn_xZ$ (Al,Ge,Sb) Heusler Alloys	Berlin, Germany Sept 12 – 16, 2010	<a href="#">PSI-K 2010 conference</a>

**Workshops:**

#	Poster Title	Organizing Institution/country/ Date	workshop



1	<i>Insight into the Structural, Elastic, Electronic, and Thermoelectric Properties of MgEu<sub>2</sub>X<sub>4</sub> (X= S, Se) Spinels</i>	ICTP, Trieste, Italy July 10 - 14 2023	Workshop on Quantum Monte Carlo Methods at Work for Describing Novel States of Matter
2	<i>Insight into the Structural, Elastic, Electronic, and Thermoelectric Properties of MgEu<sub>2</sub>X<sub>4</sub> (X= S, Se) Spinels</i>	SISSA, Trieste, Italy July 3 - 7 2023	TREX school on quantum Monte Carlo with the TurboRVB code
3	Electronic Structure and Formation Energy of TiC <sub>x</sub> H <sub>2-x</sub> alloys: DFT Study	Daresbury Laboratory, Warrington WA4 4AD, United Kingdom 13-17 May 2019	3rd Daresbury Questaal School
4	Hyperfine field and local spin magnetic moment of Fe <sub>3-x</sub> Mn <sub>x</sub> Sb Heusler alloys: DFT study	IMN, Nantes University Nantes, France 2 <sup>nd</sup> -5 <sup>th</sup> July 2014	21 <sup>th</sup> Wien2k Workshop
5	Hyperfine field and local spin magnetic moment of Fe <sub>3-x</sub> Mn <sub>x</sub> Ge Heusler alloys: DFT study	Monastery Seon Bavaria, Germany Aug 30 <sup>th</sup> – Sept 2 <sup>nd</sup> , 2011	Strong Correlation from First Principles Workshop 2011

**Supervision of Theses:**

#	Year	University	Thesis Title	Student Name
.1	2022-2024	Mutah University/ Al Karak	<b>Theoretical Investigation of the Electronic and Structural and Optical Properties and elasticity of Cubic and tetragonal for CaXO<sub>3</sub>(X=Si, Ge) Compounds</b>	Qais Yahya Al Qaisee
.2	2021-2022	Mutah University/ Al Karak	Theoretical Investigation of the Electronic Structure and Optical Properties of Cubic	Yousof Maher Odeh



			and Orthorhombic $XZrS_{3-x}Se_x$ (X=Ba, Sr) Compounds	
.3	2021-2022	Mutah University/ Al Karak	Effects of Pd and Rh Substitution on the Electronic Structure and Magnetic Properties of Perovskite $SrZrO_3$ and $BaZrO_3$	Salma Al Falahat

**Community Service Activities**

#	Duration	Activity
1		
2		
3		
4		
5		

**Personal Information**

Name	Said Moh'd Sharif Al Azar		
Place and Date of Birth	Amman-Jordan 29 Nov 1974		
Nationality	Jordanian		
Marital Status	Married		
Address	Amman - Marj Al hammam		
Work Tel No.	00962		Ex. 1513
Mobile:	0786767222		
Postal Address			