

السيرة الذاتية Curriculum Vitae



PERSONAL DATA معلومات شخصية

Name:	Jabbar First	Mansoor Khalaf Middle	Al-zyadi Last
Date of Birth:	1/1/1969		الأسم جبار منصور خلف الزيادي تاريخ الميلاد: 1969/1/1
Place of Birth:	IRAQ/Basrah		البلد والمحافظة: العراق / البصرة
Nationality:	IRAQI		الجنسية: عراقية

Academic Affiliation	Professor أستاذ	الدرجة العلمية
Current University	Basrah University جامعة البصرة	الجامعة الحالية
Current Faculty	Collage of Education for Pure Sciences كلية التربية للعلوم الصرفة	الكلية الحالية
Current Department	Physics Department قسم الفيزياء	القسم الحالي
General Specialization	Physics الفيزياء	الإختصاص العام
Fine Specialization	Condensed Matter Physics فيزياء المادة المكثفة	الإختصاص الدقيق

Corresponding Address عنوان المراسلة

د. جبار منصور خلف Dr. JMK AL-zyadi

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Work Address عنوان العمل

د. جبار منصور خلف Dr. JMK AL-zyadi

قسم الفيزياء: Department of Physics

كلية التربية للعلوم الصرفة Collage of Education for Pure Sciences

البصرة العراق Basrah – Iraq

Marital Status: **Married** الحالة الزوجية: **متزوج**
Nationality of Spouse: **Iraqi** جنسية الزوجة: **عراقية**
Number of Children: **4** عدد الأطفال: **4**

ACADEMIC QUALIFICATIONS المؤهلات الأكاديمية

First University Degree الشهادة الجامعية الأولى
Name of Degree: **B.Sc.** الشهادة: **بكالوريوس**
Date awarded: **1991** تاريخ منح الشهادة: **1991**
College (or Faculty): **Education** الكلية: **التربية**
University: **University of Basrah** الجامعة: **جامعة البصرة**
Specialization: **General Physics** التخصص: **فيزياء عامة**

Second University Degree الشهادة الجامعية الثانية
(**Master of Science**) (ماجستير علوم)
Name of Degree: **M.Sc.** الشهادة: **ماجستير**
Date awarded: **2000** تاريخ منح الشهادة: **2000**
College (or Faculty): **Education** الكلية: **التربية**
University: **University of Basrah** الجامعة: **جامعة البصرة**
Specialization: **Surface Physics** التخصص: **فيزياء السطوح**
Thesis title: **Calculating the surface and image electronic states binding energy**
عنوان أطروحة الماجستير: **حساب طاقة ربط الحالات الإلكترونية السطحية والصورية**

Third University Degree الشهادة الجامعية الثالثة
(**Doctorate**) (دكتوراه)
Name of Degree: **Ph. D.** الشهادة: **دكتوراه**
Date awarded: **2013** تاريخ منح الشهادة: **2013**
College (or Faculty): **School of Physics** الكلية والقسم: **كلية الفيزياء قسم المواد المكثفة**
University: **University of Huazhong** الجامعة: **جامعة خوجون**
Specialization: **Condensed Matter Physics** التخصص: **فيزياء المواد المكثفة**
Thesis title: **Surface half-metallicity in several binary/ternary compounds**
عنوان الأطروحة: **سطوح المواد النصف معدنية في بعض المركبات الثنائية والرباعية**

الرابط على موقع **Google scholar**

<https://scholar.google.com/citations?hl=en&user=6iifSSsAAAAJ>

الرابط على موقع الباحث العلمي **Research gate**

https://www.researchgate.net/profile/Jabbar_Al-Zyadi/research

ORCID ID:

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Publons:

<https://publons.com/researcher/2913330/jabbar-alzyadi>

محكم في المجلات العلمية العالمية والمحلية **International Scientific Journals Referee**

1. **J. Magnetic and Magnetism Material**
2. **Material Chemistry and Physics**
3. **Journal of Physics and Chemistry of Solids**
4. **African Journal of Pure and Applied Chemistry**

5. RSC advances
6. Chemical Physics Letters
7. International J of modren physics B
8. Journal of Physics: Condensed Matter.
9. All the Iraqi Journals

COMPUTER USE خبرة في إستخدام الحاسوب

Windows + Microsoft Word + Microsoft Excel + Developer Studio + Math. Lab. +
Many other software, for research, Material Studio, Wien2k

المقررات التي تم تدريسها في الدراسات العليا **Courses tough at graduate level**

Institution	Course Title	Language of Instruction
Basrah Univ.	Mathematical Physics	English
Basrah Univ.	Condensed Matter Physics	English
Basrah Univ.	Special Course	English

الإشراف على طلبة الدراسات العليا **B. Supervision of theses and dissertations**

Title of thesis or dissertation	Degree granted	University	Date
1- Theoretical Study of the Bulk and Surface Electronic Structure of the Half Heusler Alloy FeCrSe and the Interface of FeCrSe/ Gap(111)	M.Sc	Basrah	2016
2- A Theoretical Study of Electronic and Magnetic Properties of the Bulk and Surface of Compounds MBi(M=V, Cr, Mn) and the Interface of MnBi/HgTe	M.Sc	Basrah	2018
3- A Theoretical Study of Electronic and Magnetic Properties of the Bulk and Surface of the Quaternary Heusler Alloy CoXMnSi (X:Nb,Ru)	M.Sc	Basrah	2018
4- Theoretical Study of Electronic and Magnetic Properties of the Bulk and Surface of Rock Salt Structure CsTe and Zinc-Blende Structure RbSe by Using First-Principles Calculation	M.Sc.	Basrah	2019
5- Theoretical Treatment for the Time Dependent External Field Effect on the Spin Channels of T-Shaped Double Quantum Dots System	Ph.D	Basrah	2019
6- Theoretical Study of the Electronic Structure and Magnetic Properties of Surface and Interface of the Full Heusler Alloys X ₂ YZ (X: Sc, Zr; Y: Cr, V; and Z: Si, Ge, In, Ga)	Ph.D	Basrah	2021
7- Structural, Thermoelectric and Half Metallicity of Heusler Alloys XCaB (X:Mg, K) Surfaces and Interfaces	M.Sc.	Basrah	2021
8- Theoretical Study of Physical Properties of Monolayer Materials Based on Density Function Theory	Ph.D	Basrah	
9- Theoretical Investigations of the Electronic, Magnetic and Optical Properties Via Biaxial Strain, Electric Field and Point Defects: A Case CrTe Single Layer	M.Sc	Basrah	
10-First Principle Calculations of the Electronic, Magnetic, and Thermoelectric Properties of Sc ₂ YZ (Y: Co, Mn and Z: Si, Ge, Sn) Inverse Heusler Alloys.	Ph.D	Basrah	

EMPLOYMENT HISTORY التاريخ الوظيفي

Institution (place of work) مكان العمل	Period		Job Title (Academic rank) الدرجة العلمية	Nature of Work* طبيعة العمل	Type of Work نوع العمل
	From	To			
Basrah Univ. جامعة البصرة	2018	Until now	Professor أستاذ	Head of department	Full time رئيسي
Basrah Univ. جامعة البصرة	2016	Until now	Professor أستاذ	Teaching تدريس	Full time رئيسي
Basrah Univ. جامعة البصرة	2013	2016	Assistance Professor أستاذ مساعد	Teaching تدريس	Full time رئيسي
Basrah Univ. جامعة البصرة	2010	2013	Research Fellow زمالة بحثية	Research باحث	Full time رئيسي
Basrah Univ. جامعة البصرة	2008	2010	Assistance Professor أستاذ مساعد	Teaching تدريس	Full time رئيسي
Basrah Univ. جامعة البصرة	2005	2008	Lecturer محاضر	Teaching تدريس	Full time رئيسي
Basrah Univ. جامعة البصرة	2002	2005	Lecturer محاضر	Teaching تدريس	Full time رئيسي

UNIVERSITY TEACHING التدريس الجامعي

Courses tough by me at university level

Courses tough at undergraduate level المقررات التي تم تدريسها في مرحلة البكالوريوس

Institution	Course Title	Language of Instruction
Basrah Univ.	Astronomy	Arabic
Basrah Univ.	General Physics	Arabic
Basrah Univ.	Physics Lab.	Arabic
Basrah Univ.	Mechanic	English
Basrah Univ.	Computer Programming	Arabic
Basrah Univ.	Complex Variables	Arabic
Basrah Univ.	Quantum Mechanics	English
Basrah Univ.	Astronomy	Arabic
Basrah Univ.	Solid state physics	Arabic

list of the research articles that have been published in referred journals

1	Effect of temperature on the surface and image electronic state binding energies for Cu (111).
2	State effect of applying external electric field with the change of the surface temperature of the image electronic states binding energies for Cu (111).
3	The effect of temperature for surface on external effect factors on the image electronic states binding energies.
4	Satisfy from electronic states binding energy for Cu (111) theoretical study.
5	Image potential effect on surface state binding energy and reflecting wave phase of crystal.
6	Photoexcitation and photoejection of an electron initially bound by its image charge.
7	First-principles study on the (111) surface of half-metallic rocksalt VPo, JMK Al-zyadi, GY Gao, KL Yao, Solid state communications 152 (14), 1244-1248, 2012.
8	Stability and half-metallicity of the (001) and (111) surfaces of CrTe with rocksalt structure, GY Gao, Wei Yao, HP Han, JMK Al-zyadi, KL Yao, JOURNAL OF APPLIED PHYSICS 112 (10, 15 November 2012), 103709.
9	Effect of Ce ³⁺ dopant ions on the shape and luminescence of YPO ₄ :Eu ³⁺ and YPO ₄ :Tb ³⁺ nanocrystals, G Du, W Guo, JMK Al-zyadi, Y Han, P Liu, Z Liu, Journal of nanoparticle research 15 (5), 1-8, 2013.
10	The half-metallic properties of the (110) and (001) surfaces of rocksalt VPo: A first-principles study, JMK Al-Zyadi, GY Gao, KL Yao, Journal of magnetism and magnetic materials 330, 1-5, 2013.
11	First-principle study of half-metallicity at the TiPo (001) surface and the TiPo/CdTe (001) interface, JMK Al-zyadi, GY Gao, KL Yao, Thin solid films 531, 266-270, 2013.
12	The half-metallic characteristics of the (001) surface of zinc-blende TiTe, JMK Al-zyadi, RM Samuel, GY Gao, KL Yao, Journal of magnetism and magnetic materials 346, 166-170, 2013.
13	First-principles investigation of the structural and electronic properties of bulk full-Heusler alloy Mn ₂ CoSn and its (001) surface, JMK Al-zyadi, GY Gao, KL Yao, Journal of alloys and compounds 565, 17-21, 2013.
14	First-principle study on the surface and interface properties of the half-metallic ferromagnet of rocksalt structural BaC, JMK Al-Zyadi, GY Gao, KL Yao, Computational materials science 86, 140-143, 2014.
15	Theoretical investigation of the electronic structures and magnetic properties of the bulk and surface (001) of the quaternary Heusler alloy NiCoMnGa, JMK Al-zyadi, GY Gao, KL Yao, Journal of Magnetism and Magnetic Materials 378, 1-6, 2015.
16	Dielectric Properties and a.c. Conductivity of Epoxy/Alumina Silicate NGK Composites, Waleed A. Hussain, Abdullah A. Hussein, Jabbar M. Khalaf, Ali H. Al-Mowali, Advances in Chemical Engineering and Science 5 (2015), 282-289, 2015.
17	Surface half-metallicity of half-Heusler compound FeCrSe and interface half- metallicity of FeCrSe/GaP, JMK Al-zyadi, MH Jolan, KL Yao, Journal of Magnetism and Magnetic Materials 403, 8-13, 2016.

18	Half-metallicity of (001), (110) and (111) surfaces of zinc-blende MnBi and their interfaces with HgTe: A first-principle investigation, <i>JMK Al-zyadi, NH Abdul-Wahhab, KL Yao, Journal of Magnetism and Magnetic Materials 446, 221-230, 2018.</i>
19	Electronic and magnetic properties of the (001) surface of the CoNbMnSi Heusler alloy: First principles calculations, <i>JMK Al-zyadi, AA Kadhim, KL Yao, Journal of Electron Spectroscopy and Related Phenomena 226, 17-21, 2018.</i>
20	Half-metallicity of the (001), (111) and (110) surfaces of CoRuMnSi and interface half metallicity of CoRuMnSi/CdS, <i>JMK Al-Zyadi, AA Kadhim, KL Yao, RSC advances 8 (45), 25653-25663, 2018.</i>
21	Bulk and surfaces half-metallicity of RbSe with zinc-blende structure: first-principles study, <i>Jabbar M Khalaf Al-zyadi, Ahmed Hamad Ati, Kai-Lun Yao, Applied Physics A 126 (8), 1-7, (2020).</i>
22	First-principles study of half-metallicity bulk rocksalt structure of CsTe and its surfaces, <i>JMK Al-zyadi, AH Ati, KL Yao, Journal of Electron Spectroscopy and Related Phenomena 244, 14699, 2020.</i>
23	Electronic Structure and Magnetic Properties of the (111),(110), and (001) Surfaces for the Full Heusler Alloy Zr_2VGa , <i>JMK Al-zyadi, HI Asker, KL Journal of Superconductivity and Novel Magnetism 33 (12), 3903-3914, 2020.</i>
24	The half-metallic properties of bulk and the (111), (110) and (001) surfaces for the full Heusler alloy Zr_2VIn , <i>JMK Al-zyadi, HI Asker, KL Yao, Physica E: Low-dimensional Systems and Nanostructures 122, 114196, 2020.</i>
25	A study half-metallic surfaces of the full-Heusler Sc_2CrGe compound and the interface of $Sc_2CrGe/InSb$ (111), <i>JMK Al-zyadi, HI Asker, Journal of Electron Spectroscopy and Related Phenomena 249, 147060, 2021.</i>
26	Preserving the half-metallicity at the full Heusler alloy Sc_2CrSi surfaces as well as $Sc_2CrSi/HgTe$ (1 1 1) interface, <i>JMK Al-zyadi, HI Asker, Journal of Magnetism and Magnetic Materials 539, 168371, 2021.</i>
27	Electronic structure and magnetic properties of the (001),(111) and (110) surfaces of ScC with zinc blende structure, <i>JMK Al-zyadi, MA Nattiq, JM Al-Mukh, KL Yao, Solid State Communications 314, 113941, 2020.</i>
28	Spin polarization rate calculation for T-shaped double quantum dots coupled to (C-terminated ScC (1 1 1) surface) leads, <i>MA Nattiq, JM Al-Mukh, JMK Al-zyadi, Journal of Magnetism and Magnetic Materials 538, 168284, 2021.</i>
29	TIME DEPENDENT SPIN TRANSPORT THROUGH T-SHAPED DOUBLE QUANTUM DOTS EMBEDDED BETWEEN TWO (HALF-METALLIC ScC BULK) LEADS, <i>MA NATTIQ, JM Al-MUKH, JMK Al-ZYADI, Journal of Basrah Researches ((Sciences)) 45 (2) , 2019.</i>
30	Bulk, surfaces, and interface investigations of electronic and magnetic properties: A case of the half-Heusler alloy MgCaB, <i>JMK Al-zyadi, WA Abed, AH Ati, Physics Letters A 411, 127572, 2021.</i>
31	Electronic and magnetic properties of bulk and surfaces half-Heusler alloy KCaB and its bulk thermoelectric properties, <i>JMK Al-zyadi, WA Abed, AH Ati, International Journal of Modern Physics B, 2150258, 2021.</i>