



د. احمد صبحي جبارة
السماوة, المثنى, العراق
تاريخ الميلاد: 15 شباط 1981
هاتف: +9647802824632
ahmedsbhe@yahoo.com
ahmedsbhe@mu.edu.iq

المؤهلات العلمية

- 2017 **PhD** Subject: **Nanotechnology - Physics**
Title: **Synthesis of Gamma and Theta Alumina Phases Complemented With First Principle Calculation**
Department of Physics, Faculty of Science, Universiti Teknologi Malaysia, Skudai, Johor Bahru, Malaysia.
The PhD work was completed under the supervision of **Prof. Dr. Zulkafli Bin Othaman, and Prof. Dr. Mohammad Alam Saeed**
- 2010 **M Sc.** Subject: **Physics – Theoretical Physics**
Title: **Linear Optical and Four Wave Mixing Characteristics of Long Wavelength III-Nitride Quantum Dot Semiconductor Optical Amplifiers**
Department of Physics, Faculty of Science, University of Babylon, Iraq.
The M Sc. work was completed under the supervision of **Assist. Prof. Dr. Hameed I. Abood, and Prof. Dr. Amin H. Al-Khursan**
- 2005 **B Sc.** Subject: **Physics**
Title: **Solar Cell**
Department of Physics, Faculty of Science, Al- Muthanna University, Iraq.
The B Sc. work was completed under the supervision of **Assist. Prof. Dr. Abdul Ameer K. Farhood**

البحوث المنشورة

1. **Ahmed S. Jbara**, H. I. Abood, and Amin H. Al-Khursan, "Effect of doping and in-composition on gain of long wavelength III-nitride QDs", *Journal of Optics*, Vol. 41, No. 4 (2012) 214-223.
DOI: <https://doi.org/10.1007/s12596-012-0085-x>
2. Amin H. Al-Khursana, **A. Subhi**, H.I. Abood, "Four-wave mixing in long wavelength III-nitride QD-SOAs", *Optik*, Vol. 124, (2013) 4072– 4079.
DOI: <http://dx.doi.org/10.1016/j.ijleo.2012.12.061>
3. **Ahmed S. Jbara**, Zulkafli Othaman, and M A Saeed, "Effect of size and indium-composition on linear and nonlinear optical absorption of InGaN/GaN lens-shaped quantum dot", *Chin. Phys. B*, Vol. 25, No. 5 (2016) 057801.
DOI: <https://doi.org/10.1088/1674-1056/25/5/057801>

4. Shadab Dabagh, Ali Ati, S.K. Ghoshal, Samad Zare, R. M. Rosnan, **Ahmed S. Jbara**, Zulkafli Othaman, " Cu^{2+} and Al^{3+} co-substituted cobalt ferrite: Structural analysis, morphology and magnetic properties", *Bulletin of Materials Science*, Vol. 39, No. 4 (2016) 1029–1037.
DOI: <https://link.springer.com/article/10.1007%2Fs12034-016-1233-8>
5. **Ahmed S. Jbara**, Zulkafli Othaman, Ali A. Ati, and M. A. Saeed, "Characterization of gamma- Al_2O_3 nanopowders synthesized by co-precipitation method", *Materials Chemistry and Physics*, Vol. 188, (2016) 24-29.
DOI: <http://dx.doi.org/10.1016/j.matchemphys.2016.12.015>
6. **Ahmed S. Jbara**, Zulkafli Othaman, and M. A. Saeed, "Structural, morphological and optical investigations of $\theta\text{-Al}_2\text{O}_3$ ultrafine powder", *Journal of Alloys and Compounds*, Vol. 718, (2017) 1-6.
DOI: <https://doi.org/10.1016/j.jallcom.2017.05.085>
7. **Ahmed S. Jbara**, Zulkafli Othaman, H. A. Rahnamaye Aliabad, and M. A. Saeed, "Electronic and Optical Properties of γ - and θ - Alumina by First Principle Calculations", *Advanced Science, Engineering and Medicine*, Vol. 9, No. 4 (2017) 287-293.
DOI: <https://doi.org/10.1166/asem.2017.2007>
8. **Ahmed S. Jbara**, Zulkafli Othaman, H. A. Rahnamaye Aliabad, and M. A. Saeed, "Investigated electronic and optical properties of γ - and $\theta\text{-Al}_2\text{O}_3$: First principles calculations", *Advanced Science Letters*, Vol. 24, No. 4 (2018) 3579-3581(3).
DOI: <https://doi.org/10.1166/asl.2018.11439>
9. **Ahmed S. Jbara**, M. A. Saeed, and Muhammad Umer Saleem, "Theoretical investigation of structural and electronic properties of $\text{BeS}_{1-x}\text{Se}_x$ alloys for optoelectronic applications", *Optik*, Vol. 179 (2019) 1118–1122.
DOI: <https://doi.org/10.1016/j.ijleo.2018.10.162>
10. **Ahmed S. Jbara**, Junaid Munir, Bakhtiar Ul Haq, and M. A. Saeed, "Density functional theory study of mixed halide influence on structures and optoelectronic attributes of $\text{CsPb}(\text{I}/\text{Br})_3$ ", *Applied Optic*, Vol. 59, No. 12 (2020) 3751- 3759.
DOI: <https://doi.org/10.1364/AO.389100>
11. Bakhtiar Ul Haq, S AlFaify, **Ahmed S Jbara**, R Ahmed, Faheem K Butt, A Laref, Aijaz Rasool Chaudhry, Zulfiqar Ali Shah, "Optoelectronic properties of three PbSe polymorphs", *Ceramics International*, Vol. 46, No. 14 (2020) 22181-22188.
DOI: <https://doi.org/10.1016/j.ceramint.2020.05.295>

12. S. Saad Essaoud, **Ahmed S. Jbara**, "First-principles calculation of magnetic, structural, dynamic, electronic, elastic, thermodynamic and thermoelectric properties of Co_2ZrZ ($\text{Z} = \text{Al}, \text{Si}$) Heusler alloys", *Journal of Magnetism and Magnetic Materials*, Vol. 531, No. 1 (2021) 167984-15.
DOI: <https://doi.org/10.1016/j.jmmm.2021.167984>
13. **Ahmed S. Jbara**, Munir, J., Yousaf, M. and Saeed, M.A., "Pressure effect on structures and optoelectronic attributes of mixed halide $\text{CsPb}(\text{I/Br})_3$: a density functional theory study", *Journal of the Optical Society of America A*, Vol. 38, No. 7 (2021) 940-946.
DOI: <https://doi.org/10.1364/JOSAA.419563>
14. Munir, J., **Ahmed S. Jbara**, Ain, Q., Fatima, K., Noor, N.A., Naeem, H., Jamil, M. and Yousaf, M., "An insight into the electronic, optical and transport properties of promising Zintl-phase BaMg_2P_2 ", *Physica B: Condensed Matter*, Vol. 618, No. 1 (2021) 413181.
DOI: <https://doi.org/10.1016/j.physb.2021.413181>
15. Junaid Munir, Muhammad Jamil, **Ahmed S. Jbara**, Kaneez Fatima, Quratul Ain, Hamid Ullah, Masood Yousaf, "Spin-polarized electromagnetic and optical response of full-Heusler Co_2VZ ($\text{Z} = \text{Al}, \text{Be}$) alloys for spintronic application", *The European Physical Journal Plus*, Vol. 136, No. 10 (2021) 1-18.
DOI: <https://doi.org/10.1140/epjp/s13360-021-01968-x>
16. **Ahmed S. Jbara**, Zulkafli Othaman, H. A. Rahnamaye Aliabad, and M. A. Saeed, "Investigated electronic and optical properties of γ - and θ - Al_2O_3 : First principles calculations", 2nd International Conference on Science, Engineering, and the Social Sciences (ICSESS 2016), 29th May - 1st June, 2016, Universiti Teknologi Malaysia, Johor Bahru, Malaysia.
17. **Ahmed S. Jbara**, and M. A. Saeed, "Theoretical investigation of structural and electronic properties of $\text{BeS}_{1-x}\text{Se}_x$ alloys for optoelectronic applications", 6th International Conference on Education (ICE 2018): Science Beyond Class room, 15-17 March, 2018, University of Education, Lahore, Pakistan.
18. Iman A. Laim, **Ahmed S. Jbara**, and Hadey K. Mohamad, "Structural, and Electronic Properties of ZnX ($\text{X}=\text{S}, \text{Se}, \text{Te}$) By First-principles Calculation", 1st International Conference on Advanced Research in Pure and Applied Science (ICARPAS 2021): 24th-25th March 2021, College of Science, Al-Muthanna University, Samawah, Iraq.

الخبرة في التدريس

منذ 11 سنة الماضية، لقد شاركت في تدريس طلاب المرحلة الجامعية – بكالوريوس - في مواضيع مختلفة مثل: الميكانيك التحليلي، التحليل العددي، الميكانيك الإحصائي في قسم الفيزياء، كلية العلوم، جامعة المثنى، العراق

الأنشطة الإدارية

2013 - 2011
2020 - 2019
2020 - حتى الآن

- مدير قسم شؤون الطلاب
- مدير قسم ضمان الجودة والأداء الجامعي
- معاون العميد للشؤون الإدارية - كلية التربية للعلوم الصرفة

الاهتمامات البحثية

- فيزياء المادة المكثفة.
- فيزياء المواد.
- الفيزياء الحاسوبية.

مهارات الحاسوب

لقد عملت في العديد من البرامج العلمية في أنظمة تشغيل Windows و Linux ، مثل MATLAB و MATHCAD و Mathematica و COMSOL و WIEN2k و Siesta و Quantum ESPRESSO و CASTEP إلخ.

التعاون والعضوية

- Center for Sustainable Nanomaterials, Universiti Teknologi Malaysia, Skudai-81310, Johor Bahru, Malaysia
- Laboratoire de Physique des Particules et Physique Statistique, Ecole Normale Supérieure-Kouba, BP 92, Vieux-Kouba, 16050 Algiers, Algeria.

المؤتمرات/ورش العمل

أ)لقاء البحوث في المؤتمرات المحلية والدولية

1. National Conference of Physics (NCP), 7-8 November, 2012, University of Baghdad and Babylon.
2. 2nd International Conference on Science, Engineering, and the Social Sciences (ICSESS 2016), 29th May - 1st June, 2016, Universiti Teknologi Malaysia.

ب) حضور في ورش العمل الدولية

1. Writing for Journal Workshop, 07/01/2015, Universiti Teknologi Malaysia, Johor Bahru, Malaysia.
2. Science & Technology Track - Forum of Attending VIVA-VOCE, 28/01/2015, Universiti Teknologi Malaysia, Johor Bahru, Malaysia.
3. Critical Literature Review Workshop, 30/01/2015, Universiti Teknologi Malaysia, Johor Bahru, Malaysia.
4. Talk on Writing a PhD Thesis, 01/02/2015, Universiti Teknologi Malaysia, Johor Bahru, Malaysia.



5. How to write a great paper, and get it published in a research journal, 04/03/2015, Universiti Teknologi Malaysia, Johor Bahru, Malaysia.
6. COMSOL Multiphysics Seminar and Workshop, 09-10/06/2014, University of Malaya, Kuala Lumpur, Malaysia.
7. COMSOL Multiphysics workshop, 12/03/2015, Universiti Teknologi Malaysia, Johor Bahru, Malaysia.
8. Material Characterization by Thermal and Chemical Analysis, 24/08/2015, Universiti Teknologi Malaysia, Johor Bahru, Malaysia.
9. Training of SEM-EDS, 06/04/2016, Universiti Teknologi Malaysia, Johor Bahru, Malaysia.

أيضا، يمكنك أن تجدني

Website: <http://profiles.mu.edu.iq/node/26>

Author ID (Scopus): <https://www.scopus.com/authid/detail.uri?authorId=55326096000>

ResearchGate: https://www.researchgate.net/profile/Ahmed_Jbara

Google Scholar: <https://scholar.google.com/citations?hl=en&user=nwksREAAAAJ>

ORCID: <http://orcid.org/0000-0001-5326-7292>