



**WASIT University**  
College of Science

## Najwa Jassim Jubier Abbas

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[https://www.researchgate.net/profile/Najwa-Jubier?ev=hdr\\_xprf](https://www.researchgate.net/profile/Najwa-Jubier?ev=hdr_xprf)

<https://publons.com/dashboard/summary/>



### Academic Qualifications

- 09/2011 – 8/2014**      **PhD (materials physics)**  
Department of physics, College of science  
Baghdad University  
**Doctoral Thesis: "Effect of Nano and Micro SiO<sub>2</sub> Particles on Fatigue Behavior of Epoxy/E-Glass Fiber Composites"**
- 11/1999 – 9/2001**      **M. Sc. (solid state – Thin films)**  
Department of physics, College of science  
Baghdad University  
**Master's Thesis: "The Effect of Thickness and Annealing Temperatures on the Optical Properties of PbTe Thin Films"**
- 09/1984- 9/1988**      **Bachelor of science (Physics)**  
Department of Physics, College of Science  
Baghdad University

### Professional Profile

#### •General

- Highly developed research qualitative and analytical skills with a strong capacity to conduct independent research in nanotechnology
- Demonstrated ability to develop goals, objectives and implement strategies through lesson planning and teaching experience
- Proven ability to conceptualism problems and develop well-reasoned and integrated solutions, as demonstrated throughout PhD and Honors research
- Working knowledge of Word, Excel and PowerPoint.
- Proficient in Arabic and English.

#### • Committees

- Participant in the presidency and membership of various administrative committees.

- Supervisor of master's thesis and doctoral dissertations for many students.
- Participating in the presidency and membership of scientific and exam committees.
- Committees for M. Sc., and Ph. D. degrees in waist universities.
- Reviewer for many types of research for enforcement and scientific promotion and also in Springer Nature.
- Member of committees for undergraduate students' projects in Physics department.
- Heading and/or a membership of the electronic plagiarism committee in the College of Science.

## **Academic Employment – Teaching and Research**

**02/2023- Date**      **Tutor**  
 Professor  
 Department of Physics, College of Science, Waist University

**08/2017- Date**      **Tutor**  
 Assist. Professor  
 Department of Physics, College of Science, Waist University

### **Responsibilities**

Taught (materials physics) to second-year level students for two semesters (**Physics**).  
 Taught (mathematics) to first-year level students for two semesters (**Physics**).  
 Taught Special topic for Postgraduate Master and Ph.D.  
 Supervision in Postgraduate: 14 MSc and 5 PhD students.  
 Taught Quantum Mechanics for Postgraduate Master.  
 Taught Research Methodology for PhD students.

**08/2014 – 08/2017**      **lecturer**  
 Department of Physics, College of Science, Waist University

### **Responsibilities**

Taught (materials physics) to second-year level students.  
 Taught (mathematics) to first-year level students.  
 Supervision in Postgraduate: 1 MSc.

**03/2006 – 08/2014**      **Assistant lecturer**  
 Department of Physics, College of Science, Waist University

### **Responsibilities**

Taught Thermodynamics to second - year level students(Physics).  
 Taught General Physics to first - year level students (Biology).  
 Taught (mathematics) to first-year level students (Biology).  
 Taught practical to Mechanics to first-year level students(Physics).  
 Taught practical to Modern physics to second - year level students (Physics).

## **Employment History – General**

Year		No. of years	Position and Employer
From	To		
<b>1989</b>	1999	10	Lecture (Directorate of Vocational Training Center for Textile Industries in Kut / Ministry of Industry)
<b>1999</b>	2001	2	Post-graduate Student (M Sc) / Department of Physics, College of Science/ Baghdad University

2001	2006	5	Lecture (Directorate of Vocational Training Center for Textile Industries in Kut / Ministry of Industry)
2006	2011	5	Assist. Lecturer / Department of Physics, College of Science, Waist University
2011	2014	3	Post-graduate Student (Ph.D) / Department of Physics, College of Science/ Baghdad University
2014	2017	3	Lecturer / Department of Physics, College of Science, Waist University
2017	2018	1	Assist. Prof. / Department of Physics, College of Science, Waist University
2018	2022	4	Assist. Prof. /Head of Department of Physics, College of Science, Waist University
2023			Prof. / Department of Physics, College of Science, Waist University
2025			Prof./Head of Department of Physics, College of Science, Waist University

## Publications

1. **Najwa Jassim Jubier** “Improvement of Electrical Transport for PbTe Thin Films by Thermal Treatment”, Wasit Journal for Science & Medicine ,2009 2 (2): ( 60 - 66 ).
2. Souad G. Khalil, Majida A.Ameen and **Najwa J. Jubier** “Effect of Laser Irradiation on the Optical Properties of SnO<sub>2</sub> Films Deposited by Oxidation of Metal Films”. Baghdad Science Journal ,Vol.8(4)2011.
3. **Najwa Jassim Jubier** , Suaad Ghafoori Khalil and Abbas Fadhil Essa “Measurement Changes in Activation Energy, Hall Effect and Seebeck Effect of Lead Telluride Thin Films Prepared by Thermal Evaporation Technique with Different Annealing Temperatures”, Journal of Materials Science and Engineering, B 1 (2011) 811-818.
4. Ekram . A. Ajaj , **Najwa. J .Jubier** and Kawakib .J. Majeed “Fatigue behavior of Epoxy/ SiO<sub>2</sub> Nanocomposites Reinforced with E- glass Fiber”, International Journal of Application or Innovation in Engineering & Management (IJAEM), Volume 2, Issue 9, September 2013.
5. **Najwa J .Jubier** , Kawakib J. Majeed and Ekram A. Ajaj “Effect of UV Irradiation on Fatigue Behavior of Epoxy/ SiO<sub>2</sub> Nanocomposites Reinforced with E-Glass Fiber”, International Journal of Application or Innovation in Engineering & Management (IJAEM), Volume 3, Issue 2, February 2014.
6. **Najwa Jassim**, Ahmed Jadah Farhan and Ruaa hilal “Charpy Impact Test for SiO<sub>2</sub> (Nano-Micro) Particles /Epoxy Composites”, International Journal of Recent Scientific Research, Vol. 6, Issue, 6, pp.4623-4628, June, 2015.
7. **Najwa Jassim**, Ruaa hilal and Saba Farhan “Study the Effect of Nanoparticle SiO<sub>2</sub> on Some Mechanical Properties for Epoxy/ Reinforced With 6 Layers of WRE-Glass Fibers Composites”, International Journal of Innovative Research in Science, Engineering and Technology, Vol. 5, Issue 5, May 2016
8. **Najwa Jassim Jubier** and Ali Jabbar Fraih “Measurment of Optical Energy Gap and Optical Constants of Epoxy–Based Micro Composites Filled with TiO<sub>2</sub> Particles”, International Journal of Recent Scientific Research ,Vol. 7, Issue, 7, pp. 12561-12564, July, 2016.
9. **Najwa Jassim Jubier** “Studying Some Mechanical and Physical Properties of Polyester/Granite Microcomposites”, Wasit Journal for Science & Medicine 2016: 9(3): (99-108).
10. Zainab K. Lateef , Muneer H. Alzubaidy and **Najwa J. Jubier** “Preparation, Characterization and Optical Properties of Copper Oxide Thin Films”, Journal of Multidisciplinary Engineering Science Studies (JMESS), Vol. 3 Issue 8, August - 2017.
11. **Najwa Jassim Jubier** “Estimation of Radiation Shielding Properties for Composites Material Based Unsaturated Polyester Filled with Granite and Iron Particles”, Journal of Multidisciplinary Engineering Science Studies (JMESS), Vol. 3 Issue 1, January - 2017.

12. Zainab K. Lateef , Muneer H. Alzubaidy and **Najwa J. Jubier** “Studying the Structural Properties, FTIR and Antibacterial of Copper Oxide Thin Films”, Wasit Journal for Science & Medicine.
13. Ahmed A.Thamir, Hashim A.Alyusr and **Najwa J. Jubier** “Enhanced Mechanical, Electrical Properties of the Epoxy Polymer by Adding Hexagonal Boron Nitride Nanoparticles”, Indian Journal of Natural Sciences, Vol. 8 / Issue 49 /August 2018.
14. Ahmed A.Thamir, Hashim A.Alyusr and **Najwa J. Jubier** “TGA, DSC, DTG Properties of Epoxy Polymer Nanocomposites by Adding Hexagonal Boron Nitride Nanoparticles”, Journal of Engineering and Applied Sciencesm14(2):567-574 · January 2019.
15. Ruaa. H. Hassani, **Najwa. J.Jubier** and Mohammed.J.Resen “Study of Thermal Conductivity and Thermal Analysis (DSC, TGA, and DTGA) of (EPOXY-ZrO<sub>2</sub>) Nanocomposite”. Indian Journal of Natural Sciences, Vol. 9 / Issue 50 /October 2018.
16. Hanan Obaid katham , Mohammed Jebur Resen and **Najwa Jassim Jubier** “Characterization of Radiation Attenuation Properties of 0.662MeV Gamma Ray Energy for Epoxy Fe<sub>3</sub>O<sub>4</sub> Composite Shields”, Indian Journal of Natural Sciences, Vol.9 /Issue 50 /October / 2018.
17. MS Amana, **NJ Jubier**, SF Hathot, SA Flayyih, IM Allioui “Levels of natural radioactivity and radiological indicators of hazard in some types of imported fertilizer used in Iraq”, Conference: First International and scientific Conference kut university college, At: Iraq / kut,2017.
18. Hanan Obaid katham , Mohammed Jebur Resen and **Najwa J. Jubier** “Study the hardness, Young's modulus and impact strength of Epoxy/ Fe<sub>2</sub>O<sub>3</sub> and Epoxy/ AL<sub>2</sub>O<sub>3</sub> nanocomposites”, Waist Journal for Science & Medicine Vol. 12 / Issue 1 / 2019.
19. Malik J. Zayza, **Najwa J.Jubier** and Subhi A. Al -Bayaty “Thermal Oxidative of UP/MgO Nanocomposites Using TGA and DSC Analysis”, World Journal of Research and Review (WJRR) ISSN: 2455-3956, Volume-10, Issue-2, February 2020 Pages 18-24.
20. Malik J Zayzal , **Najwa J Jubier** and Subhi A Al –Bayaty “Study The Improvement In The Dielectric Strength of (UPR/MgO) Nanocomposites”, IOP Conf. Series: Materials Science and Engineering 757 (2020) 012006 ,doi:10.1088/1757-899X/757/1/012006.
21. Khalowd D Khemkheem , **Najwa J Jubier** and Abdul\_Hussain K Elttayef “Study The Structural Properties of Nanostructure (TiO<sub>2</sub>: Cu) Thin Film Prepared by RF Magnetron Sputtering”, IOP Conf. Series: Materials Science and Engineering 757 (2020) 012055, doi:10.1088/1757-899X/757/1/012055.
22. Mohammed J.R. Aldhuhaibat , Maitham S. Amana , **Najwa J. Jubier** and A.A. Salimb, “Improved gamma radiation shielding traits of epoxy composites: Evaluation of mass attenuation coefficient, effective atomic and electron number”, Radiation Physics and Chemistry,179(2021)109183.
23. M J R Aldhuhaibat1 , M S Amana , A J Farhan and **N J Jubier** “Study of Cross Section Areas Ratios for Scattering Interactions of Gamma Photons in He, Fe, Fm, H<sub>2</sub>O Materials”, IOP Conf. Series: Materials Science and Engineering 757 (2020) 012013, doi:10.1088/1757-899X/757/1/012013.
24. Subhi A. Al –Bayaty, **Najwa J. Jubier** and Raheem A.H. Al-Uqaily “Study of Thermal Decomposition Behavior and Kinetics of Epoxy/Polystyrene Composites by using TGA and DSC, Journal of Xi'an University of Architecture & Technology Volume XII, Issue III, 2020.
25. Subhi A. Al-Bayaty , Raheem A.H. Al-Uqaily, and **Najwa J. Jubier** “Using the Costs –Redfern method during Thermogravimetric analysis and Differential scanning calorimetry analysis of the thermal stability of Epoxy and Epoxy / Silica Nanoparticle Nanocomposites”, JOURNAL OF SOUTHWEST JIAOTONG UNIVERSITY Vol. 55 No. 4 Aug. 2020.
26. Ghada A. Kadhim, **Najwa J. Jubier**, Ahmed Abed Anber “Synthetization of Nanostructured Titanium Dioxide by Atmospheric-Pressure Plasma Jet for Bacteriological Applications ”, Journal of Mechanical Engineering Research and Developments. 44, No. 7, pp. 69-74,2021
27. Hussien. A.Yassien , **Najwa J. Jubier**“Effect of Adding Nanoparticles Ag<sub>2</sub>O on Mechanical Properties and Thermal Conductivity of PMMA/ Polypropylene Fiber Composites”Journal of Physics: Conference Series, IOP Publishing (2021).

28. Saba Farhan Hathot , **Najwa.J. Jubier** , Ruaa H. Hassani , A.A. Salim"Physical and elastic properties of TeO<sub>2</sub>-Gd<sub>2</sub>O<sub>3</sub> glasses: Role of zinc oxide contents variation"Optik.Volume 247, December 2021,
29. Ahmed A. Thamir, **Najwa J. Jubier** , Jafer F. Odah"Antimicrobial Activity of Zirconium Oxide Nanoparticles Prepared by the Sol-Gel Method" Journal of Physics: Conference Series, IOP Publishing (2021).
30. Sarah Ahmed Hassan , Ahmed Abed Anber, Eidan Asi Abdullah , Jafer Fahdel Odah , **Najwa J. Jubier** , Ali Adnan Abd Alwahab"Electrical Properties and Optimum Conditions of A Home-Made Magnetron Plasma Sputtering System" Iraqi Journal of Science, 2021, Vol. 62, No. 11(Special Issue), pp: 4353-4363 DOI: 10.24996/ij.s.2021.62.11(SI).16
31. Mohammed J.R. Aldhuhaibata , Maitham S. Amana , **Najwa J. Jubier** , A.A. Salim" Improved gamma radiation shielding traits of epoxy composites: Evaluation of mass attenuation coefficient, effective atomic and electron number" Radiation Physics and Chemistry,Volume 179, February 2021, 109183
32. Shaymaa S. Hashim, , Salma M. Hasan , **Najwa J. Jubier**" Structural and A.C. Conductivity for Polymerized Polypyrrole/Cu Nanocomposites" NeuroQuantology | August 2022 | Volume 20 | Issue 10 | Page 421-429 | doi: 10.14704/nq.2022.20.10.NQ55027.
33. Forat Ghulam Abedl , **Najwa J. Jubier** ,H.A.T. AL Ogaili" Study some parameters of ZnO nanostructures prepared by green route for plant extract (Beta vulgaris L.)" NEUROQUANTOLOGY | AUGUST 2022 | VOLUME 20 | ISSUE 10 | PAGE 6156-6164| DOI: 10.14704/NQ.2022.20.10.NQ55612
34. Ali Adnan Abd Alwahab , **Najwa J. Jubier** , Jafer Fahdel Odah "Structural properties of NiO thin films deposited by DC magnetron sputtering: Influence of the preparing features" AIP Conference Proceedings **2437**, 020102 (2022); <https://doi.org/10.1063/5.0094718>.
35. Ahmed A. Thamir, **Najwa J. Jubier** , Jafer F. Odah "SYNTHESIS AND CHARACTERIZATION OF ZrO<sub>2</sub>:Al<sub>2</sub>O<sub>3</sub> CERAMICS NANOCOMPOSITE" ARPN Journal of Engineering and Applied Sciences this link is disabled, 2022, 17(13), pp. 1331–1336
36. **Najwa.J. Jubier** , Ruaa H. Hassani , Saba Farhan Hathot, A.A. Salim"A new type of carbonate hydroxyapatite nanoparticles made from PMMA and oyster shells: evaluation of structure, morphology and biocompatible properties" Polymer Bulletin,February 2023.
37. Sadeq dawood salman, **Najwa J. Jubier**, Aseel B AlZubaidi"High quality geopolymer concrete by using binder nanometakaolin"Journal of Physics: Conference Series, OP Publishing, (iLATOS 2022).
38. Sadeq dawood salman, **Najwa J. Jubier**, Aseel B AlZubaidi" Geopolymer Concrete Production by Using Binder Nano Bauxite" Journal of Ecological Engineering 2023, 24(10), 305–314
39. Siraj R. Kareem and **Najwa J. Jubier**"GREEN SYNTHESIS AND CHARACTERIZATION OF MAGNESIUM OXIDE NANOPARTICLES FOR GAS SENSOR APPLICATION "ARPN Journal of Engineering and Applied Sciences VOL. 18, NO. 13, JULY 2023
40. Ahmed A. Thamer, **Najwa J. Jubier** , Jafer F. Odah "Synthesis and Characterization (ZrO<sub>2</sub>:MgO)Nanocomposite and Assessed Biocompatibility In Vitro By SBF and MTT Assay"AIP Conf. Proc. Volume 2922, Issue 1,14 February 2024.
41. Shaymaa S. Hashim, **Najwa J. Jubier** , Salma M. Hasan"Structural and Morphological Study for Polymerized Polypyrrole /Cu Nanocomposites" AIP Conf. Proc. Volume 2922, Issue 1,14 February 2024.
42. Forat Ghulam Abed, **Najwa J. Jubier** ,H.A.T. AL Ogaili"Study Effect of the concentration of Iron on the Synthesized Zinc Oxide via the plant extract of beetroot" AIP Conf. Proc. Volume 2922, Issue 1,14 February 2024.
43. **Najwa J. Jubier**, Kamal R. Al-Jorani b, , Atheer A. Ali, Subhi A. Al –Bayaty, and Raheem A.H. Al-Uqaily"Thermal degradation assessment, impact strength, and hardness of combination epoxy and polystyrene powder composite"Kuwait Journal of Science 51 (2024) 100271 .
44. Adyan Abdizadeh challoob and **Najwa J. Jubier**. "Green Synthesis of Ag-Cu NPs using Black Eggplant Extract as the Reducing and Stabilizing Agents: Characterization and Energy Band Gap." *Journal of Physics: Conference Series*. Vol. 2974. No. 1. IOP Publishing, 2025.
45. Hassani, Ruaa H., and **Najwa J. Jubier**. "Evaluating the Antibacterial Efficacy of Nanocomposite Rare Earth Oxide (CeO<sub>2</sub>: Nd<sub>2</sub>O<sub>3</sub>): An Experimental and Analytical Study." *Journal of Physics: Conference Series*. Vol. 2974. No. 1. IOP Publishing, 2025.



46. Salman, Wafaa K., and [Najwa J. Jubier](#). "Investigating the Antibacterial Activity of Green-Synthesized  $\text{CuCO}_3\text{O}_4$  Nanoparticles." *Journal of Physics: Conference Series*. Vol. 2974. No. 1. IOP Publishing, 2025.
47. Salman, Wafaa K., and Najwa J. Jubier. "Structural and Optical Properties Study of Cobalt Oxide and Copper Oxide Composite: Energy Band Gap Evaluation." *Journal of Physics: Conference Series*. Vol. 2974. No. 1. IOP Publishing, 2025.
48. Al-Ogaili, H. A. T., [N. J. Jubier](#), and A. A. Thamer. "Comparative study of Raman modes active, emission bands and thermal features of GS  $\alpha\text{-Al}_2\text{O}_3$  NP's." *Digest Journal of Nanomaterials and Biostructures* Vol. 20, No. 1, January - March 2025, p. 365-372
49. Ruaa H.Hassani., and [Najwa J. Jubier](#) "Structural Characterization and Cytotoxicity Evaluation of  $\text{Ce}_{0.5}\text{Nd}_{0.5}\text{O}_{1.75}$  Nanostructures as Novel Cancer Therapeutic Agent" *J Nanostruct* 15(3): 997-1008, Summer 2025
50. Mujalli A. H. J., [Najwa J. Jubier](#) "Thermal Decomposition Behavior and Kinetic Evaluation Chitosan/PEO Blend Films Reinforced with Silver Nanoparticles" *J Nanostruct* 15(4): 1577-1587, Autumn 2025.

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**Professor**  
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