

## Dr. Alya'a Abdulkadhim Sabry

### PERSONAL INFORMATION

Name: Alya'a Abdulkadhim Sabry

Nationality: Iraqi

Date of Birth: 4 January 1984

Place of Birth: AL-Muthanna – Iraq

Place of work: Department of Mathematics, College of Education for Pure Science, Muthanna University.

E-mail addresses:

E-mail: [alyaa\\_ros@mu.edu.iq](mailto:alyaa_ros@mu.edu.iq)

E-mail: [alyaa\\_ros@yahoo.com](mailto:alyaa_ros@yahoo.com)

Gmail: [alyaaabdulkadhim7@gmail.com](mailto:alyaaabdulkadhim7@gmail.com)

Phone: +9647817200108

Mother language: Arabic

Foreign language: English



### ACADEMIC QUALIFICATIONS

- **B.Sc.** (Physics), College of Science, Muthanna University, Al-Muthanna, Iraq (2005).
- **M.Sc.** (Nuclear Physics), College of Science, Kufa University, Najaf, Iraq (2014).
- **Ph.D.** (Medical Physics), College of Science, Babylon University, Babylon, Iraq (2021).
- **Title of Ph.D. thesis:** Experimental Study to Prepare Biocomposite Materials for Jaw's Bones
- **Title of M.Sc. thesis:** A Study of Nuclear Structure for Even – even Isotopes ( $A= 180 -190$ ) by Using IBM-1 model.
- **Title of the B.Sc. Project:** Moons of the giant planets.

### ACADEMIC SCIENTIFIC RANK

- **Assistant Lecturer** at 21 December 2015.
- **Lecturer** at 14 April 2019.

## ACADEMIC ACCOUNTS

- **Researchgate:** [https://www.researchgate.net/profile/Alyaa\\_Abdulkadhim](https://www.researchgate.net/profile/Alyaa_Abdulkadhim)
- **Google Scholar:** <https://scholar.google.com/citations?user=vYBZgnwAAAAJ&hl=ar#>
- **Orcid:** <https://orcid.org/0000-0002-1564-6002>
- **Publons:** <https://publons.com/researcher/1713274/alyaa-abdulkadhim/>
- **Scopus:** <https://www.scopus.com/authid/detail.uri?authorId=57218895575>
- **LinkedIn:** <linkedin.com/in/alyaa-abdulkadhim-747a0416a>

## COURSES TAUGHT

Department of Mathematics, College of Education for Pure Science, Muthanna University.

- **General Physics** /First Stage.
- **Calculus** /First Stage.
- **Ordinary Differential Equations** /Second Stage.
- **Philosophy and method of Scientific Research** /Second Stage.

## THE PUBLISHED RESEARCH

### Books

- A Study of Nuclear Structure for Some Even – even Isotopes (A= 180 –190) – LAP **LAMBERT** Academic Publishing (June 30, 2016).
- Simple Calculus – LAP **LAMBERT** Academic Publishing (November 14, 2017).

### Patented

- Preparation of a nanobiopolymer composite material used in the jaw bones.

### Peer-Reviewed Journal Articles

- A Study for the Energy levels and Potential Energy Surface of  ${}^{184}_{74}\text{W}_{110}$  Isotope, **Journal Of Kufa – Physics**, Vol.6/ No.2, pp. 78–85, (2014), by **Alya'a A. Sabry** and Hayder H. Hussain.
- A Study for the Energy Levels and Potential Energy Surface of  ${}^{246}_{96}\text{Cm}_{150}$  Isotope, **Journal of Science and Arts**, Year 16, No. 3(36), pp. 265–274, (2016).
- The Probability of Electric Transitions; The Square of Rotational Energy & The Moment of Inertia for Cm (A=246) Isotope, **Journal of Science and Arts**, Year 16, No. 4(37), pp. 417–426, (2016).
- A Study of Nuclear Structure for  ${}^{200}_{80}\text{Hg}_{120}$  Isotope by Using IBM-1 Model, **Journal of Science and Arts**, Year 17, No. 1(38), pp. 163–176, (2017).

- Energy Levels, Reduced Matrix Elements & The Probability of Electric Transitions for  $^{248}_{96}\text{Cm}_{152}$  Isotope, **Journal of Science and Arts**, Year 17, No. 2(39), pp. 347–356, (2017), by [Alya'a Abdulkadhim](#) and Kahtan Adnan Hussain.
- The Square of Rotational Energy and the Moment of Inertia for Pt (A=192 – 198) Isotopes, **Research & Reviews: Journal of Physics**, Vol. 6, Issue 2, pp. 1–7, (2017).
- Synthetic Properties of Hydroxyapatite Powder Prepared from Natural Eggs shell, **Journal of Green Engineering (JGE)**, Vol. 10, Issue 7, pp. 3498–3507, July, (2020), by [Alya'a Abdulkadhim Sabry](#) and Nihad Abdulameer Salih.
- The Mechanical Properties of Biopolymer Composite Material Using in Compensation Jaws bones, **Egyptian Journal of Chemistry**, Vol. 63, Issue 10, October, (2020), by [Alya'a Abdulkadhim Sabry](#) and Nihad Abdulameer Salih.
- Physical Characteristics for Biocomposite Material Using to Jawbones Compensation, **Journal of Physics: Conference Series, Ibn Al-Haitham International Conference for Pure and Applied Sciences (IHICPS)**, **IOP Publishing**, Vol. 1879 (032057), No. 3, May, (2021), by [Alya'a Abdulkadhim Sabry](#) and Nihad Abdulameer Salih.
- Experimental and Numerical Study to Prepare Hydroxyapatite Powder From Fish Bones, **Transactions on Electrical and Electronic Materials**, Vol. 22, Issue 4, pp. 481–488, (2021), by [Alya'a Abdulkadhim Sabry](#) and Nihad Abdulameer Salih.

## EDITORIAL BOARD MEMBER

### In:

- **SCIREA Journal of Physics**.
- **Science Publishing Group "Nuclear Science (NS)"**.

### Reviewer for a Journal:

- **Premier Publishers**.

## AREAS OF CONCERN

Nuclear Physics – Nuclear structure – Interacting Boson Model (IBM) – Theoretical Physics – Mathematical Physics – Medical Physics – Biomaterials – Composite Materials – Materials Physics – Simulations with variety Programs.