Curriculum Vitae (C. V.)

1- Personal Data

Name: Waleed Ragab Abdur Rasheed Agami (W.R. AGAMI)

Work Address: Physics Department, Faculty of Science, Ain Shams University, 11566 Abbassia, Cairo, Egypt.

Major Field: Materials Sciences and Solid State Physics

Fine Field: Magnetic Semiconductors and their Composites.

Field of Research: Magnetic Materials, Polymers and Rubbers and their Composites, Nano-materials, Electric and Dielectric properties of materials.

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Orcid Number: 0000-0001-6155-6422

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Page: **https://www.asu.edu.eg/staffPortal/en/staffProfile/4756**

Google Scholar Link: **https://scholar.google.com/citations?user=8zLN8iEAAAAJ&hl=en**

Scopus Link: **https://www.scopus.com/authid/detail.uri?authorId=9639947400**

2- Scientific Qualifications

First University Degree

Degree Name: B. Sc. Degree (Excellent with the honor degree)
Specialization Field: Physics
Univ., College & Country: Ain Shams University, Faculty of Science, Cairo, Egypt.
Date: May 1996.

Second University Degree

Degree Name: M. Sc. Degree of science.
Specialization Field: Physics (Radiation Physics and Polymer Physics).
Univ., College & Country: Ain Shams University, Faculty of Science, Cairo, Egypt.
Date: 2001.

Thesis Title by the used Language
*"**A Study of the Effect of Laser Radiation on the Physical Properties of Some Polymers**".*

<u>Third University Degree</u>
Degree Name: Ph.D. Degree of science.
Specialization Field: Physics (Solid State).
Univ., College & Country: Ain Shams University, Faculty of Science, Cairo, Egypt.
Date: 2009

Thesis Title by the used Language:
*"**Effect of Substitution of Different Valent Ions on Electrical and Magnetic Properties of Li-Zn Ferrite**".*

3- Grants and Awards

1- Medal of the Faculty of Science at Ain Shams University in a ceremony held on the occasion of the college obtaining accreditation.
2- Prof. Latifa Al-Houti Award for the best single research by an assistant professor in the physics departments at the level of Ain Shams University in 2018 and 2021.
3- I was honored in the international publication ceremonies of Ain Shams University, and the President of Ain Shams University awarded me a reward and a certificate of appreciation in the years 2019, 2020 and 2021 for the prestigious international research I published that contributed to raising the international classification of the university.

4- Participation in Conferences

1- 29th International Conference on Solid State Science and Materials Physics, and workshop on "Photonic Crystals and Graphene", Sharm El-Sheikh, Egypt, 3-6 October, **2011**
2- TWAS-ARO 7th Annual Meeting: Water, Nuclear and Renewable Energy: Challenges Versus Opportunities", Alexandria, on 28- 29 December, **2011**
3- Symposium On "X-ray Diffraction: From Data Collection to omputational Analysis", The Egyptian Society of Crystallography and its Applications (ESCA) and The National Committee of Crystallography In Cooperation with

The National Committee of Synchrotron Radiation and its Applications, Ras Sedr, Sinai, Egypt, 4-5 February, **2012**

4- Fourth International Conference on nano-technology in construction (NTC 2012) "Nano-Technology for Green and Sustainable Construction", Cairo, Egypt, 25-26 March, **2012**.

5- BioVision Alexandria 2012 Conference, Linking Science to Society, Alexandria, Egypt, 22-25 April, **2012**
6- Module (How to Present Scientific Data), DAAD Kairo Academie, 21 July **2012**.
7- First International Conference on Advanced Basic and Applied Sciences (ABAS) 6-9 November **2012**, Hurghada, Egypt.
8- 30th International Conference on Solid State Science and Materials Physics, and workshop on "Functional Materials", Marsa Alam, Egypt, 25-28 November, **2012**
9- Module (Carrier Development)), DAAD Kairo Academie, 29 April **2013**.
10- Program in (Writing with Computers), Project and Research Development Unit, Ain Shams University, 25 June **2013**.
11- The IOP Publishing Academy Workshop (How to Get Published), **2017**.
12- 34th International Conference of the Egyptian Material Research Society Eg-MRS, 29-30 August **2020**, Online , COVID-19, In association with the Nanotechnology Research Center, the British university in Egypt.
13- 35th International Conference of the Egyptian Material Research Society Eg-MRS, 3-4 July, **2021**, online, In association with the Nanotechnology Research Center, the British university in Egypt.

5-Workshops and Training Courses

1- The educational cycle for preparing university lecturers in Ain Shams University **2000**.
2- Training program on "Solar Energy applications" in the photoenergy center, Ain Shams University, **2004**.
3- The complete modules of Information & Communication Technology Project (ICTP), scientific computing center, Ain Shams University, **2006**-**2007**.
4- Training course in Nanoscience and Nanotechnology, faculty of science, Beni-Suef University, **2010**.
5- Lab-VIEW Basic Training Course, Ain Shams University, 15 September **2011**.

6- Academic Experiences

Place	Time Interval		Scientific Degree	Nature of Work
	From	To		

Physics Department, Faculty of Science, Ain Shams University	11/1996	2/2002	Demonstrator	Teaching in laboratories
	2/2002	3/2009	Lecturer Assistant	Teaching in laboratories
	3/2009	12/2015	Lecturer	Teaching courses & Supervising theses
	12/2015	1/2023	Associate Professor	Teaching courses & Supervising theses
	2/2023	NOW	Professor	Teaching courses & Supervising theses

7- Publications:

Papers that were published at international scientific Publishers:

1- S. A. Nouh, M. M. Radwan, A. S. Abdel-Naby, **W. R. Agami** and M. Morsey, Structure and Optical Investigation of the Effect of Laser Radiation in Stabilized Poly (Vinyl Chloride), Radiation Effects and Defects in Solids 157: 265-274 **(2002).**

2- S. A. Nouh , M. M. Radwan , **W. R. Agami** and M. Morsy , Studies on the effect of laser radiation on the thermal stability of stabilized poly(vinyl chloride). Journal of Applied Polymer Science, 89, Issue 8, 2249-2255 **(2003).**

3- A.A. Sattar, H.M. El-Sayed, and **W.R. Agami**, Physical and magnetic properties of calcium-substituted Li-Zn ferrite, Journal of Materials Engineering and performance 16(5), 573 **(2007)**.

4- A.A. Sattar, H.M. El-Sayed, **W.R. Agami** and A.A. Ghani, Magnetic properties and electrical resistivity of Zr^{4+} substituted Li-Zn Ferrite, American Journal of Applied Sciences 4(2). 89 **(2007)**.

5- A.A. Sattar, H.M. El-Sayed, and **W.R. Agami**, Study of the electrical properties of calcium substituted Li-Zn ferrite, Phys. stat. sol.(a) 205, No11, 2716 **(2008)**.

6- A.A. Sattar and **W.R. Agami**, Study of the Physical and Magnetic Properties of $Li_{0.3}Zn_{0.4-x}Ca_xFe_{2.3}O_4$ Ferrite, Journal of Alloys and Compounds 496, 341-344 **(2010)**.

7- Samy A. Rahman, **W.R. Agami** and M.M. Eltabey, Frequency, Temperature and Composition Dependence of Dielectric Properties of Nd^{3+} Substituted Cu-Zn Ferrites, Journal of American Science 8(11), 470-474 **(2012)**.

8- D.E. El-Nashar, N.M. Ahmed and **W.R. Agami**, The Effect of New Ferrite/Kaolin Pigment on the Properties of Acrylonitrile-Butadiene Rubber Composites, Materials Design 52, 108–117 **(2013)**.

9- M. M. Eltabey and **W.R. Agami**, Effect of Single and Double Sintering Processes on Microstructure and Magnetic Properties of Gd-Substituted Ni-Cd Ferrites, Journal of Materials Engineering and Performance, 22:3461-3465 **(2013)**.

10- M. M. Eltabey, **W.R. Agami** and H. T. Mohsen, Improvement of the magnetic properties for Mn-Ni-Zn ferrites by rare earth Nd^{3+} ion substitution, Journal of Advanced Research, 5: 601-605 **(2014)**.

11- **W. R. Agami**, M. A. Ashmawy and A. A. Sattar, Structural, IR and Magnetic Studies of Annealed Li-ferrite Nanoparticles, Journal of materials engineering and performance, 23:604-610 **(2014)**.

12- **W. R. Agami** and H.M. El-Sayed, Enhancement of the magnetic and dielectric properties of cobalt nanoferrite/polymethyl methacrylate composites, Journal of Materials Science: Materials in Electronics, 26:3163–3167 **(2015)**.

13- H.M. El-Sayed and **W. R. Agami**, Controlling of Optical Energy Gap of Co-Ferrite Quantum Dots in Poly (methyl methacrylate) Matrix, Superlattices and Microstructures, 83: 651–658 **(2015)**.

14- S. U. El-Kameesy, D.E. El-Nashar, S. El-Fiki, **W.R. Agami**, Ahmad E. Younes, "Development of silicone rubber/lead oxide composites as gamma ray shielding materials" International Journal of Advanced Research, Volume 3, Issue 6, 1017-1023 **(2015)**.

15- H.M. El-Sayed and **W.R. Agami,** "Improvement of the magnetic properties of Li–Zn ferrite by Bi^{3+} substitution", Journal of Materials Science: Materials in Electronics, 27:4866–4870 **(2015)**.

16- A.A. Sattar, D.E. El-Nashar, **W.R. Agami** and M. Adel Aly, "Mechanical and dielectric properties of cobalt–zinc nanoferrite/nitrile butadiene rubber composites", Journal of Thermoplastic Composite Materials: 31(1): 3–22 **(2018).**

17- **W.R. Agami,** "Effect of neodymium substitution on the electric and dielectric properties of Mn-Ni-Zn ferrite", Physica B: Condensed Matter 534: 17–21 **(2018)**.

18- **W.R. Agami** and A.M. Faramawy, "Influence of Gd^{3+} substitution and preparation technique on the optical and dielectric properties of $Y_3Fe_5O_{12}$ garnet synthesized by standard ceramic and coprecipitation methods", Journal of Materials Science: Materials in Electronics 31 (14): 11654–11664 **(2020).**

19- **W.R. Agami** and A.M. Ashmawy, "Structural, physical, and magnetic properties of nanocrystalline manganese-substituted lithium ferrite synthesized by sol–gel autocombustion technique", Applied Physics A: Materials Science & Processing 126 (7): 563 (1-9) **(2020).**

20- **W.R. Agami** and M. Adel Ali, "Exploration of the role of nanoferrite load and particle size on the rheometric, mechanical, and dielectric properties of ($Co_{0.2}Zn_{0.8}Fe_2O_4$/NBR) nanocomposites", Polymer Composites, 42:4754–4763 **(2021)**.

21- **W.R. Agami**, "Composition and temperature dependence of the dielectric properties of (Silicone Rubber/CoZn nanoferrite) composites", Applied Physics A 127:658 **(2021)**.

22- **W.R. Agami**, "Monitoring the dielectric properties of Mn-ferrite nanoparticles by controlling crystallite size and applying static magnetic field", Ceramics International 48: 13475–13483 **(2022)**.

23- D.E. El-Nashar, M. Adel Aly, M. A. Ashmawy and **W.R. Agami**, "Enhancing the magnetization, electric resistivity and mechanical properties of silicone rubber loaded by Co-Zn ferrite nanoparticles as filler", Journal of magnetism and magnetic materials, 553: 169252 (1-7) **(2022)**.

24- A.M. Faramawy, Hamada Elsayed and **W.R. Agami**, "Correlation between structure, cation distribution, elastic, and magnetic properties for Bi^{3+}substituted Mn–Zn ferrite nanoparticles", Materials Chemistry and Physics, 314: 128939 (**2024**).

25- A.M. Faramawy, **W.R. Agami** and M.A. Swillam, "Tailoring the Preparation, Microstructure, FTIR, Optical Properties and Photocatalysis of (Fe/Co) Co-Doped ZnO Nanoparticles ($Zn_{0.9}Fe_xCo_{0.1-x}O$)", Ceramics, 2025; 8(1):2 (**2025**).

26- **W. R. Agami**, H. M. Elsayed and A. M. Faramawy, "Improvement of Structural, Elastic, and Magnetic Properties of Vanadium-Doped Lithium Ferrite", Compounds 2025, 5, 54 (**2025**).

Books that are published at international scientific Publishers:

My Ph.D. Thesis was published with title "**Electric and Magnetic Studies of Various Ions Substituted Li-Zn Ferrite**", LAB LAMBERT Academic Publishing, Germany, 2013, ISBN: 978-3-659-49499-4.

My M.Sc. Thesis was published with title "**Effect of Laser Radiation on the Physical Properties of PVC Polymers**", Noor Publishing, Copyright © OmniScriptum GmbH & Co. KG, Germany, ISBN: 978-3-330-84073-7.

Moreover, *I am a reviewer in several international scientific journals* as the following table shows:

#	Journal	Publisher
1	Materials Letters	(ELSEVIER)
2	Materials Chemistry and Physics	(ELSEVIER)
3	Journal of Materials Research and Technology	(ELSEVIER)
4	POWDER TECHNOLOGY	(ELSEVIER)
5	Physica (B)	(ELSEVIER)
6	Sensors and Actuators B: Chemical	(ELSEVIER)
7	Materials Science & Engineering B	(ELSEVIER)
8	Journal of Materials Science: Materials in Electronics	Springer
9	Polymer Engineering & Science	(John Wiley & Sons)
10	Polymer Composites	(John Wiley & Sons)
11	Journal of Nanoscience and Nanotechnology	(American Scientific Publishers)
12	Materials Focus	(American Scientific Publishers)
13	High Performance Polymers	(SAGE journals)
14	Journal of Thermoplastic Composite Materials	(SAGE journals)
15	Journal of Alloys and Compounds	(ELSEVIER)
16	International Journal of Modern Physics B	World Scientific
17	Journal of Physics D: Applied	IOP

	Physics	
18	Phase Transitions	Taylor & Francis
19	Inorganics	(MDPI)
20	Materials	(MDPI)
21	Actuators	(MDPI)
22	Coatings	(MDPI)
23	Condensed matter	(MDPI)
24	Magnetochemistry	(MDPI)
25	Molecules	(MDPI)
26	Polymers	(MDPI)
27	Water	(MDPI)
28	International Journal of Molecular Sciences	(MDPI)
29	Energies	(MDPI)
30	Recent Progress in Materials	(LIDSEN Publishing Inc.)

8-Supervision

Degree	Title	Student	Finishing Date
M.Sc.	Characterization and magnetic properties of Li-Mn nanoferrite	Mohammed Ashmawy	24-12-2012
M.Sc.	Investigation of polymer composites for nuclear applications	Ahmed El-Sayed	1-11-2015
M.Sc.	Synthesis and characterization of rubber-ferrite composites	Mohammed Adel	22-5-2016
M.Sc.	Synthesis and characterization of Some garnets	Ahmed El-Faramawy	27-2-2017

9-Courses taught in the last ten years

- **Physics of Polymers** for Ph.D. students and researchers, Faculty of Science, Ains Shams University.
- **Optical properties of solids** for solar energy diploma students, Faculty of Science, Ains Shams University.
- **Nano Physics and Nano Applications** for 4th year physics, physics/chemistry and physics/computer students-Faculty of Science, Ains Shams University.

- **Magnetic Materials and Superconductivity** for 4th year materials science students, Faculty of Science, Ains Shams University.
- **Polymer Physics and Composites** for 4th year materials science students-Faculty of Science, Ains Shams University.
- **Solid State Physics (Dielectric and thermoelectric properties of solids)** for 4th year materials science students-Faculty of Science, Ains Shams University.
- **Solid State Physics** for 3rd year physics-computer students, Faculty of Science, Ains Shams University.
- **Solid State Physics** for 3rd year physics-chemistry students, Faculty of Science, Ains Shams University.
- **Atomic Physics** for 2nd year mathematics students, Faculty of Science, Ains Shams University.
- **Atomic Physics** for 3rd year physics, materials science and physics-computer students, Faculty of Science, Ains Shams University.
- **Electromagnetism** for 2nd year physics, physics/chemistry and physics/computer students-Faculty of Science, Ains Shams University.
- **Electric Circuits** for 2nd year physics and physics-chemistry students, Faculty of predentistry, Ains Shams University.
- **General physics** for preparatory and 1st year, The Higher Institute for Engineering and Technology, El-Obour, Science Valley Academy.
- **Electricity and magnetism** for preparatory and 1st year, The Higher Institute for Engineering and Technology, El-Obour, Science Valley Academy.
- **General Physics (hydrostatics, hydrodynamics and heat)** for preparatory and 1st year, The Higher Technological Institute, 10^{th} of Ramadan City.
- **Electricity and magnetism** for preparatory and 1st year, The Higher Technological Institute, 10^{th} of Ramadan City.
- **Optics and modern physics** for preparatory and 1st year, The Higher Technological Institute, 10^{th} of Ramadan City.
- **General Physics,** for 1st year, Technical Institute for Advanced Industries, Al-Salam city.

10-Courses I can teach

- All the undergraduate courses in physics.
- Material Science graduate (Diploma-Master-Ph.D.) courses.