

The Curriculum Vitae

Prof. Mahdi Salem Q. M. Lataifeh.
Dept. of Physics, Mu'tah University

Personal Data

Name: Mahdi Salem Q. M. Lataifeh.

Date and place of birth: th - June - , Malka, Irbid, Jordan.

Marital Status: Married with four children.

Address: Department of Physics, Faculty of Science, Mu'tah University, P O Box , Zip code , Al-Karak, Jordan.

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Educational Background

- . Ph.D. The University of Manchester, Manchester, U.K., .
- Thesis Title: Hyperfine Interactions of Holmium in Single Crystals of Magnetic Compounds.
- . Diploma for Advanced Studies in Physics, The University of Manchester, Manchester, U.K., .
- . B.Sc. Yarmouk University, Irbid, Jordan, .
- . High School Diploma, Irbid Secondary School, .

Employment's

- . Employer: Mu'tah University, Department of Physics.
- . Date of appointment: rd - June - till now.
- . Head of the Department of Physics for one academic year / .
- . Vice Dean of the Faculty of Science, Mu'tah University, st July till st August .
- . Sabbatical leave at Yarmouk University, Irbid, Jordan. st Sep. to the st Sep. .
- . Appointed Professor of physics from th July .
- . Sabbatical leave at the Ministry of Higher Education in Sultanate of Oman (Ibri College of Education) from th Sep. till th Sep. .
- . On leave without pay at the Ministry of Higher Education in Sultanate of Oman (Ibri College of Education) from th Sep. till now.

- . Head of the Department of Science at Ibri College, Ministry of Higher Education, Sultanate of Oman, for one academic year / .
- . Head of the Department of Physics from th Jan. to st August .
- . Dean of the Faculty of Science from st Sep till now.

Awards

TWAS prize for young Scientists in Physics from the Third World Academy of Sciences, Trieste, Italy ().

Publications

- . Crystal field anisotropy of Tb, Ho and Tm in gadolinium, C. Carboni, M. A. H. McCausland, D. St. P. Bunbury, B. L. Reid, M. Lataifeh and J. S. Abell, J. Mag. Mater. - () - .
- . An NMR study of Ho in a Pauli paramagnet, Mahdi S. Lataifeh, Mu'tah J. Research and studies Vol. , No. (), - .
- . On the molecular field seen by Gd⁺ in iron garnets, Mahdi S. Lataifeh And M. A. H. McCausland , Mu'tah J. Research and studies Vol. , No. () - .
- . Nuclear magnetic resonance of Ho in holmium nicotinate dehydrate, Mahdi S. Lataifeh, Mu'tah J. Research and studies Vol. , No. () - .
- . Magnetization measurements on some rare earth iron garnets, Mahdi S. Lataifeh and A. Al-sharif, Applied Physics A (Solids and Surfaces), App. Phys. A (), - .
- . High field magnetization measurements on holmium nicotinate dehydrate, Mahdi S. Lataifeh, Abhath Al- Yarmok, Vol. , No. B, , - .
- . Magnetization measurements on thulium nicotinate dehydrate, Mahdi S. Lataifeh, Mu'tah J. for Research and Studies Vol. , No. (), - .
- . The field dependence and anisotropy of the hyperfine interaction of Ho in holmium iron garnet single crystals. Mahdi S. Lataifeh, Mu'tah J. for Research and Studies Vol. , No. () .

- . Mossbauer spectroscopy study of substituted yttrium iron garnets. Mahdi S. Lataifeh and A. D. Lehlooh, Solid State Comm., Vol. , No. () -
- . Mossbauer spectroscopy of Al substituted Fe in holmium iron garnet. Mahdi S. Lataifeh, A. D. Lehlooh and Sami H. Mahmood, Hyperfine Interactions, Vol. , no. -
- . Magnetization measurements of the alloy system $Fe_{1-x}Co_x$, Mahdi S. Lataifeh, Journal of the Physical Society of Japan, Vol. -
- . On the equilibrium configuration of an isotropic Heisenberg ferrimagnet in a magnetic field, Mahdi S. Lataifeh and M. A. H. MacCausland. Indian Journal of Pure and Applied Physics, Vol. , Sep. , -
- . Magnetic and Mossbauer spectroscopic study of some rare earth - iron intermetallic compounds. Mahdi S. Lataifeh, Indian Journal of Pure and Applied Physics, Vol. , May , -
- . Magnetic study of Al - substituted holmium iron garnet, Journal of the Physical Society of Japan, Vol. , No. , July, , -
- . Magnetic study of the alloy system $Gd(Fe_{1-x}Co_x)$, Dirasat, pure sciences, Vol. , No. ,
- . Mossbauer spectroscopy study of the alloy system $Gd(Fe_{1-x}Co_x)$. Mahdi S. Lataifeh, A. D. Lehlooh and Sami H. Mahmood, Dirasat, pure sciences, Vol. No. ,
- . Mossbauer spectroscopy and structural studies of the Tb Fe . A. D. Lehlooh, Mahdi S. Lataifeh, and Sami H. Mahmood, Mu'tah J. for Research and Studies, Vol. , No. ,
- . Indoor Radon Levels During Autumn in Al-Karak District, Jordan. Mu'tah J. for Research and Studies, Vol. , No. ,
- . Magnetic study of some heavier rare earth iron garnets at low temperature, Mahdi S. Lataifeh, and Mick O'Shea, Al-Manarah J. for Research and Studies, Refereed Research Journal Published by Al-al-bayt University, Vol. VII, No. ,
- . Differentiation between various manganese deposits of Jordan using magnetization measurements. Tayel M. Al-Hasan, Mahdi S. Lataifeh., Al-Manarah J. for Research and Studies, Refereed Research Journal Published by Al-al-bayt University, Vol. VII, No. ,
- . Magnetic Measurements of Al-Lajjun cenozoic basaltic rocks, south Jordan. Mahdi S Lataifeh, Tayel Al-Hasan, and A. Al-Malabah, Abhath Al-Yarmouk, (Basic Sciences and Engineering), Vol. , No. B, (), pp -
- . A comparative study between radon concentration levels during the spring and autumn seasons in dwellings in Al-karak area. Mahdi S.

- Lataifeh, Abhath Al-Yarmouk, (Basic Sciences and Engineering), Vol. , No. B, (), pp - .
- . Geochemical and mineralogical related magnetic characteristics of the Tertiary-Quaternary (Um Al-Qutein) Basaltic flows from the basaltic field of Hara El-Jabban, Northeast Jordan, Mahdi S. Lataifeh, Tayel Al-Hasan and A. Al-Malabah, Physica B: Condensed Matter, Vol. , Issues - , August , pp - .
 - . Mossbauer spectroscopy study of substituted rare earth iron garnets at low temperature, Mahdi S. Lataifeh, Sami Mahmood, and Mike Thomas, the Physica B: Condensed Matter, Vol. , Issues - , August , pp - .
 - . Measurements of radon concentration in water and building aggregate samples in Al-karak, Jordan. Barakat A. Al-bataina, Suliman Tarawneh and Mahdi S. Lataifeh, Abhath Al-Yarmouk : "Basic Sci.&Eng.", Vol. , No. , pp - .
 - . Environmental Magnetism: The implication of initial susceptibility and saturation magnetization for detecting road side pollution in arid regions. Dirasat, Pure sciences, Vol. , No. , August .
 - ٢٧. Structural and Magnetic Studies of $\text{Ho:Gd}_{1-x}\text{Lu}_x$, I.A. Al-Omari, A. Rais, M. S. Lataifeh, and A. A. Yousif, phys. stat. sol. (c) ١, No. ٧, ١٧١١-١٧١٥ (٢٠٠٤).
 - ٢٨. Structural and Magnetic Studies of $\text{Ho:Gd}_{1-x}\text{La}_x$ alloys. I. A. Al-Omari, A. Rais, and M. S. Lataifeh, J. Mag. Mater. () - .
 - ٢٩. Room Temperature Magnetization Measurements of some substituted Rare Earth Iron Garnets. Mahdi S. Lataifeh, Applied Physics A, Materials: Science & Processing, Vol. ٩٢, No. ٣, ٢٠٠٨. pp ٦٨١-٦٨٥.
 - ٣٠. Magnetization measurements on as prepared and annealed $\text{Fe}_{1-x}\text{Mn}_x\text{Si}$ alloys, M. S. Lataifeh, M. O'Shea, A. S. Saleh, and S. H. Mahmood, Jordan Journal of Physics Vol. ١, No. ١, ٢٠٠٨, pp ٣١-٣٦.

Accepted papers

- . Mossbauer and structural studies of some RFe compounds, Rola M. Al-Soubaihi, Mahdi S. Lataifeh, Sami H. Mahmood, and Abed Fatah Lehlooh.
- . Geochemical, Petrographic, and Magnetic characteristics of spinel Lherzolite mantle xenoliths from Jabal Remah volcano, Jordan. Ahmad Al-Malabeh, Tayel El-Hasan, and Mahdi Lataifeh.

Conferences

- . International conference on magnetism (ICM'), Edinburgh, Scotland, - Sep. .
paper submitted: Crystal field anisotropy of Tb, Ho and Tm in gadolinium.
- . International conference on magnetism (ICM'), Warsaw, Poland, - Aug. .
paper submitted: Magnetization measurements on thulium nicotinate dehydrate compound.
- . CTAP First Symposium on Magnetism, Centre for Theoretical and applied physics (CTAP), Yarmouk University Irbid, Jordan, - Nov. .
paper submitted: High field magnetization measurements on holmium nicotinate dehydrate.
- . The First National Jordanian Conference on Electrical Engineering, Mu'tah University, April .
paper submitted: The field dependence and anisotropy of the hyperfine interaction of Ho in holmium iron garnet single crystals.
- . Petra School in Physics, Jordan University-Yarmouk University, Jordan, August , paper submitted: NMR of Ho in gadolinium single crystal.
- . The th International Symposium on Advanced Materials, Islamabad, Pakistan - Sept. .paper submitted: Magnetization measurements on some rare earth iron garnets.
- . The th International Symposium on Advanced Materials, Islamabad, Pakistan, Sept. .
paper submitted: Mossbauer spectroscopy and structural studies of the Tb Fe compound.
- . The first Conference on Materials Science, Mutah University, - Nov. .
paper submitted: Mossbauer spectroscopy and structural studies of the Tb Fe compound.
- . CTAP Third Symposium on Magnetism, Centre for Theoretical and applied physics (CTAP), Yarmouk University Irbid, Jordan, - Nov.
Paper submitted: Mossbauer spectroscopy study of the alloy system Tb:Gd(Fe_{1-x}Co_x) .
- . Six Petra School in Physics, Jordan University-Yarmouk University, Irbid, Jordan, - Sep. .
- . The fourth Arab Conference on the peacefull use of Atomic Energy, Tunis, - Nov. . Paper submitted: Mossbauer spectroscopy of Al substituted Fe in holmium iron garnet.

- . The Third National Jordanian Conference on Electrical Engineering, Mu'tah University, April .
Paper submitted: Magnetic study of some heavier rare earth iron garnets at low temperature
- . The first conference in environmental problems, Mu'tah University, Jordan, - April .
Paper submitted: Radon concentration levels inside houses in Al-Karak region.
- . The third Jordanian Agriculture conference, Mu'tah University, Jordan, - April .
Paper submitted: Radon levels in water samples and building material samples from Al- Karak area.
- . The first conference in Medical Physics and its applications, Zarqa Private University, - April .
Paper submitted: Radon levels in water samples and Building material samples from Al- Karak area.
- . Fourth symposium on Magnetism, Centre for Theoretical and applied physics (CTAP), Yarmouk University Irbid, Jordan, - Nov. .
Paper submitted: Magnetization measurements for annealed and as prepared $\text{Fe}_{1-x}\text{Mn}_x\text{Si}$ alloys.
- . The second regional conference on Magnetism and superconducting materials (MSM-), Yarmouk University, - -Sep. ,
Paper Submitted: Geochemical and mineralogical related magnetic characteristics of the Tertiary-Quaternary (Um Al-Qutein) Basaltic flows from the basaltic field of Hara El-Jabban, Northeast Jordan
Paper submitted: Mossbauer spectroscopy study of substituted rare earth iron garnets at low temperature.
- . First symposium on use of nuclear techniques in environmental studies. Yarmouk University, - Sep. ,
Paper submitted: Radon levels in water samples and Building material samples from Al- Karak area.

Workshops

- . Research workshop in condensed matter physics, International Center for Theoretical Physics (ICTP), Trieste, Italy, summer .
- . Research workshop in materials science and non-conventional energy sources, (ICTP), Trieste, Italy, Aug.- Sep. .
- . CTAP first workshop in computational physics, Yarmouk University, Jordan, - June .

- . CTAP first workshop for using the computer in theoretical physics, Yarmouk University, Jordan, - Jan. .
- . CTAP first workshop in computational physics for condensed matter, Yarmouk University, Jordan
- . Properties and Applications of thin films, Al-Bayt University, - July .
- . Research workshop on High Energy Physics, Torino – Italy, - Nov. .
- . Research workshop on Basic Education for school students in Sultanate of Oman, Nizwa the October .

Seminars:

- . Magnetic Materials and their applications in our life, Ibri College, Ministry of Higher education, Sultanate of Oman, th of March .
- . Natural Radioactivity – Radon, Ibri College, Ministry of Higher education, Sultanate of Oman, th of November .

Teaching Experience

I have taught the following courses many times:

- . General Physics (Classical Mechanics).
- . General Physics (Electricity and Magnetism).
- . General Physics Labs & .
- . Optics & Optics Lab.
- . Electronics & Electronics Lab.
- . Mathematical Physics.
- . Electromagnetic Field Theory & .
- . Classical Mechanics .
- . Meteorology.
- . Intermediate Physics Lab.
- . Advanced Physics Lab.
- . Properties of Matter.
- . Industrial Physics.
- . Modern Physics.
- . Quantum Mechanics.
- . Solid State Physics.
- . Electrodynamics for graduate students (Master).