

## CURRICULUM VITAE

### PERSONAL DATA

<b>Name</b>	Saja Mohammed Algessair
<b>Nationality</b>	Saudi
<b>Position</b>	Lecturer
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### EDUCATION

<b>Year</b>	<b>Academic Degree</b>	<b>Institution</b>
2015	Master in Theoretical Physics	King Saud University
2011	Bachelor in physics	King Saud University

### WORK EXPERIENCE

<b>Period</b>	<b>Position</b>	<b>Address</b>
2017-now	Lecturer	Al Imam Mohammad Ibn Saud Islamic University
2012-2017	Teaching assistant	Al Imam Mohammad Ibn Saud Islamic University

### RESEARCH INTERESTS

Materials, Nanoparticle, Organic Heterojunction
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## PUBLICATIONS

- Lemine, O.M.; Algessair, S.; Madkhali, N.; Al-Najar, B.; El-Boubbou, K. Assessing the Heat Generation and Self-Heating Mechanism of Superparamagnetic Fe<sub>3</sub>O<sub>4</sub> Nanoparticles for Magnetic Hyperthermia Application: The Effects of Concentration, Frequency, and Magnetic Field. *Nanomaterials* 2023, 13, 453.
- MADKHALI, Nawal, et al. Heating Ability of  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub>@ ZnO/Al Nanocomposite for Magnetic Hyperthermia Applications. *Science of Advanced Materials*, 2022, 14.8: 1394-1400.
- Zango, Z.U.; Dennis, J.O.; Aljameel, A.I.; Usman, F.; Ali, M.K.M.; Abdulkadir, B.A.; Algessair, S.; Aldaghri, O.A.; Ibnaouf, K.H. Effective Removal of Methylene Blue from Simulated Wastewater Using ZnO-Chitosan Nanocomposites: Optimization, Kinetics, and Isotherm Studies. *Molecules* 2022, 27, 4746.
- Ibtessam Alotaibi, Marzook S. Alshammari, Saja Algessair, N. Madkhali, N. Abdel All, M. Hjiri, Sharif Abu Alrub, L. El Mir, O.M. Lemine, Synthesis, characterization and heating efficiency of Gd-doped maghemite ( $\gamma$ -Fe<sub>2</sub>O<sub>3</sub>) nanoparticles for hyperthermia application, *Physica B: Condensed Matter*, Volume 625, 2022, 413510, ISSN 0921-4526,
- O.M. Lemine, I. Alotaibi, A. Aldawood, S.A. Madkhali, L. El, Doped and Un-doped Maghemite Nanoparticles for Magnetic Hyperthermia Application, in: *Proceeding 5th Int. Symp. Adv. Mater. Nanotechnol.*, 2021: p. 16.
- Lemine, O. M., Nawal Madkhali, Marzook Alshammari, Saja Algessair, Abbasher Gismelseed, Lassad El Mir, Moktar Hjiri, Ali A. Yousif, and Kheireddine El-Boubbou. 2021. "Maghemite ( $\gamma$ -Fe<sub>2</sub>O<sub>3</sub>) and  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub> Nanoparticles for Magnetic Hyperthermia Applications: Synthesis, Characterization and Heating Efficiency" *Materials* 14, no. 19: 5691.
- Nawal Madkhali, Naglaa Abdel All, Saja Algessair, Souad Hamod Aodah, Magnetic and optical investigation of Eumelanin-ZnO as organic-non-organic nanocomposite, *Optik*, Volume 225, 2021, 165772, ISSN 0030-4026.