CURRICULUM VITAE

PERSONAL DATA

Name	Mohamed Abdellah Lemine
Nationality	Mauritanian
Position	Professor
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EDUCATION

Year	Academic Degree	Institution
1999	Ph.D. in Materials Physics,	Lorraine University, Nancy, France,
1995	M.Sc. in Materials Science	Loraine University, Nancy, France,
1994	B.S. in Physic	Nouakchott University, Mauritania

WORK EXPERIENCE

Period	Position	Address
2017- ...	Professor	Physics department- Al Imam University-Saudi Arabia
2010-2017	Associate Professor	Physics department- Al Imam University-Saudi Arabia
2006-2010	Assistant professor	Physics department- Al Imam University-Saudi Arabia
2005-2006	Assistant professor	Physics department- King Khaled University-Saudi Arabia
2003-2004	Assistant professor	BioPhysics department- University of Picardie, Amiens, France
1999-2000	Temporary teaching and research position	Physics department- University of Lorraine, Nancy, France

RESEARCH INTERESTS

1. Study of the physical properties of magnetic nanostructures.
2. Dilute Magnetic Semiconductors (SMS).
3. Magnetic nanoparticles for magnetic hyperthermia cancer treatment
4. Application of XRD, XPS, FESEM, EDS, TEM, FT-IR, VSM, SQUID and Mössbauer in materials characterization.

PUBLICATIONS

1- Papers published in refereed international journals

1. Morphological, structural, surface, thermal, chemical, and magnetic properties of Al-doped nanostructured copper ferrites.
   Sami-ullah Rather , Hisham S. Bamufleh, Hesham Alhumade, Aqeel Ahmad Taimoor, Usman Saeed, Abdulrahim Ahmad Al-Zahrani and **O. M.Lemine**
   Ceramics International, **(2023), https://doi.org/10.1016/j.ceramint.2023.03.149**

2. Green Synthesis of Functional CuFe2O4@TiO2@rGO Nanostructure for Magnetic Hyperthermia and Cytotoxicity of Human Breast Cancer Cell LineR.
   Esther Nimshi, J. Judith Vijaya, M. Bououdina, L. John Kennedy, B. Al-Najar & **O. M.Lemine**
   Journal of Inorganic and Organometallic Polymers and Materials **(2023)**

3. The first structural, morphological and magnetic property studies on spinel nickel cobaltite nanoparticles synthesized from non-standard reagents
   Y Mouhib, M Belaiche, M Elansary, **MA Lemine,** B Salameh, AKM Alsmadi
   New Journal of Chemistry 47 (10) **(2023),** 4888-4896

4. Assessing the Heat Generation and Self-Heating Mechanism of Superparamagnetic Fe3O4 Nanoparticles for Magnetic Hyperthermia Application: The Effects of Concentration, Frequency, and Magnetic Field, **O. M. Lemine**, Saja Algessair, Nawal Madkhali,Basma Al-Najar and Kheireddine El-Boubbou, Nanomaterials 13(3), 453**(2023**); https://doi.org/10.3390/nano13030453

5. Novel biocompatible nanomaterial for biomedical application: Structural, morphological, magnetic, and in vivo toxicity investigations, M Elansary, M Belaiche, Y Mouhib, **O.M Lemine**, N Bentarhlia, I Bsoul, Ceramics International, 49, Issue 3, 1 **(2023), Pages 4551-4570**

6. Synthesis of novel hybrid mesoporous gold iron oxide nanoconstructs for enhanced catalytic reduction and remediation of toxic organic pollutants
   K El-Boubbou, **O.M Lemine**, D Jaque, RSC advances 12 (55) **(2022),** 35989-36001

7. Optical properties of self-assembled InAs quantum dots based P–I–N structures grown on GaAs and Si substrates by Molecular Beam Epitaxy, M Al Huwayz, HVA Galeti, **O.M Lemine**, KH Ibnaouf, A Alkaoud, Y Alaskar, Journal of Luminescence 251,**(2022),** 119155

8. Heating Ability of -Fe2O3@ZnO/Al Nanocomposite for Magnetic Hyperthermia Applications Nawal Madkhali, Saja Algessair, **O. M. Lemine**, Ali Z. Alanzi, N. Ihzaz, and L. EL Mir, Science of Advanced Materials, Vol. 14, pp. 1394–1400, **(2022)**

9. New Organic–Inorganic Salt Based on Fluconazole Drug: TD-DFT Benchmark and Computational Insights into Halogen Substitution, H Ferjani, R Bechaieb, M Alshammari, **O.M. Lemine**, N Dege
International Journal of Molecular Sciences 23 (15), 8765, **(2022**),

10. Magneto-thermal properties of Co-doped maghemite (γ-Fe2O3) nanoparticles for magnetic hyperthermia applications, A Aldaoud, **OM Lemine**, N Ihzaz, L El Mir, SA Alrub, K El-Boubbou
Physica B: Condensed Matter 639, 413993**, (2022**),

11. Evaluating magnetic and thermal effects of various Polymerylated magnetic iron oxide nanoparticles for combined chemo-hyperthermia **,** Kheireddine El-Boubbou, **O.M Lemine**, Rizwan Ali, Sarah M Huwaizi, Sulaiman Al-Humaid, Abdulmohsen AlKushi, New J. Chem., **(2022**), //doi.org/10.1039/D1NJ05791J

12. Structural, Optical and Electrical Properties of Self-Assembled InAs Quantum Dots Based p–i–n Devices Grown on GaAs Substrate by Molecular Beam Epitaxy for Telecommunication **,** **O.M Lemine**, M Al Huwayz, KH Ibnaouf, A Alkaoud, A Salhi, M Henini, Journal of Nanoelectronics and Optoelectronics 17 (5), 837-842 **(2022**)

13. Synthesis, characterization and heating efficiency of Gd-doped maghemite (γ-Fe2O3) nanoparticles for hyperthermia application**,** IbtessamAlotaibi, M.Alshammari, SajaAlgessair, N.Madkhali, N. Abdel All, M. Hjiri, Sharif AbuAlrub, L.El Mir and **O.M.Lemine,** Physica B **(2022**), 14,5691.

14. Doped Nanostructured Manganese Ferrites: Synthesis, Characterization, and Magnetic Properties, Sami-ullah Rather , Usman Saeed, Abdulrahim Ahmad Al-Zahrani, Hisham S. Bamufleh,1 Hesham Abdulhamed Alhumade, Aqeel Ahmad Taimoor, **O. M. Lemine**, Arshid Mahmood Ali, Belal Al Zaitone and Muhammad Mahmud Alam, Journal of Nanomaterials **(2021**), 9410074, 12 pages https://doi.org/10.1155/2021/9410074

15. Reduced graphene oxide/spinel ferrite nanocomposite as an efficient adsorbent for the removal of Pb (II) from aqueous solution**,** Radhika R. Nair, B. Carmel Jeeva Mary, J. Judith Vijaya1 , A. Mustafa, L. Khezami, A. Modwi, M. Ismail, M. Bououdina and **O. M. Lemine** , JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 10**(2021**), DOI10.1007/s10854-021

16. Maghemite (-Fe2O3) and -Fe2O3-TiO2 Nanoparticles for Magnetic Hyperthermia Applications: Synthesis, Characterization and Heating Efficiency**,** **O. M. Lemine**, Nawal Madkhali , Marzook Alshammari , Saja Algessair, Abbasher Gismelseed , Lassad El Mir , Moktar Hjiri, Ali A. Yousif and Kheireddine El-Boubbou , Materials **(2021**), 14,5691.

17. Iron Oxide Mesoporous Magnetic Nanostructures with High Surface Area for Enhanced and Selective Drug Delivery to Metastatic Cancer Cells**,** K El-Boubbou, R Ali, S Al-Humaid, A Alhallaj, **OM Lemine**, M Boudjelal, ...

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18. Structural, Thermal, Morphological and MagneticProperties of Al3+-Doped Nanostructured SpinelNickel Ferrites**,** Sami-ullah Rather, Abdulrahim Ahmad Al-Zahrani, Usman Saeed, **O.M.Lemine,** Saad S. A. Al-Shahrani, Arshid Mahmood Ali, and M. M. Alam, cience of Advanced Materials,Vol. 13 (**2021)** pp. 1–9,

19. Comparative heating efficiency of hematite (α-Fe2O3) and Nickel ferrite nanoparticles for magnetic hyperthermia application**, O. M. Lemine**, N. Madkhali, M. Hjiri, N.Abdel All and M. Aida, Ceramics International 46 (18), **(2020)** 28821-28827

20. A comparison of NO2 sensing characteristics of α- and γ-iron oxide-based solid state gas sensors**,** M. Hjiri**,** N.Zahmouli, K.Khouzami, M.Aida, K. Moulaee, **O.M.Lemine**, S.G.Leonardi and G. Neri, Applied Physics A volume 126, 788 **(2020).**

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Applied Physics A volume 126, 471**(2020)**

22. Influence of divalent metals (Zn, Cu and Co) on the synthesis and magnetic properties of spinel ferrite nanopowders**,** M. M. Althubayti, M. Hjiri, N. H. Alonizan, **O. M. Lemine** and M. S. Aida, Journal of Materials Science: Materials in Electronics volume 31, pages8194–8205(2020).

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O.M.Lemine, Advances in Materials Science and Engineering 2014

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A.Khatab, **O.M. Lemine**, A.Alkaoud, A. Falamas, M.Aziz, Y. GalvãoGobato, M. Henini
Physica E: Low-Dimensional Systems and Nanostructures 54 **(2013)**, pp. 233-236

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Journal of Applied Physics, 114, 193516 (**2013**)

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Y. GalvãoGobato, M. H. Carvalho, M. Pizzo Piton, S.P. AmaralSouto, H.V. Avanço Galeti, **O.M. Lemine**, M.Bououdina, A. J. A. de Oliveira , 18th Brazilian Workshop on Semiconductor Physics (BWSP, 2017) Aug. 14-18 - 2017 - Maresias, São Paulo, Brazil

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International conference on materials Sciences, 29-30 August 2013, Paris, France

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4- Book Chapters

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