Dr. Mouadh Khlifi

Assistant Professor of Physics,

Faculty of Science of Monastir - Tunisia

Date of birth: December 20, 1984

Nationality: Tunisian

Married

Number of Children:2

Phone number: +21697945501

languages: Arabic, English and French.

Adress:Departement de physique, Faculté des sciences de Monastir,

BP 48, avenue de l'environnement 5019 Monastir- Tunisia

e-mail:khlifimouadh3000@yahoo.fr

Qualifications

Ph.D. in Physics 2012

From the Faculty of Sciences of Sfax - University of Sfax

"Effect of the defects and the annealing temperature on the ferromagnetic behavior massive manganites: critical parameters to the magnetic transition La0.8Ca0.2-x □ xMnO3"

2009 Master degree in physics from the Faculty of Sciences of Sfax - Sfax University

2007 License in physics From the Faculty of Sciences of Sfax - University

2003 baccalaureate scientific section

Scientific research domains

Magnetocaloric effect (MCE) for magnetic refrigeration
Magnetoresistance (CMR) for hard disk and read header fabrication.
Materials with high dielectric permittivity for energy storage
Spinel Ferrites for magnetic and medical application

Internationals collaboration

National Center for Scientific Research, Grenoble, France

Scientific studies and research at the National Center for Scientific Research, Grenoble, France, 2009 - 2010 - 2011 - 2012

- Preparation of materials with excellent magnetic properties
- Analysis of material crystals using X-rays
- Analyze whith SEM electron microscopy
- Electrical measurements using the PPMS device
- Magnetic measurements using BS1, BS2 and Squid magnetometer
- Use OriginPro, Fullprof, Excell, Matlab and Z-view software to analyze finished measurements

International conferences

1) **M. Khlifi**, M. Hajlaoui, M. Bejar, E. Dhahri, E.K. Hlil.

Magnetic and Physical Properties of $La_{0.8}Ca_{0.2-x}\square_xMnO_3$ compounds.
2nd International Meeting on Materials for Electronic Application (IMMEA 2009).
8-10 Mai 2009, Hammamet, Tunisia.

- **2)** **M. Khlifi**, M. Bejar, E. Dhahri, E.K. Hlil.

Structural, magnetic and magnetocaloric properties of the lanthanum deficient $La_{0.8}Ca_{0.2-x}\square_xMnO_3$ manganites oxides .

International Conference on Conducting Materials (ICOCOM 2010).3-7 November 2010, Sousse, Tunisia.

- **3)** **M. Khlifi**, M. Bejar, E. Dhahri, E.K. Hlil.

The annealing temperature effect on structural, magnetic and magnetocaloric properties of $La_{0.8}Ca_{0.2-x}\square_xMnO_3$ compounds.

Research to Applications & Markets (RAM 2011).23-25 juin 2011, Monastir, Tunisia.

- **4)** **M. Khlifi**

Communication oral à la Conférence Franco-Maghrébine sur les Nano matériaux (**CFM -NANO Sousse 2013**)

Teaching experience

• 2009-2012 secondary school teacher of Physics - Chemistry.

• 2012-2014 Assistant Professor of Physics, Faculty of Science and technology of Sidi Bouzid - Kairouan university-Tunisia

• Since September 2014 Assistant Professor of Physics, Faculty of Science of Monastir - Monastir university-Tunisia.

- teaching specialty for all university sections:

 Geometric optics

 Wave optics

 quantum physics

 Electrostatic

 magnetostatic

 Electromagnetism

 Nuclear physics

 Solid state physics

 Statistical physics

 Particle physics

supervision of students

Mr Skini Ridha : Master and Thesis

Miss Wali Mouna: Master and Thesis

Miss Gaabel Fatma: Master and thesis in progress

Computing software experience

- Microsoft offices (word, exel, power point)
- Matlab
- Origine Pro
- Zview
- Fullprof

Scientific publication:

29 publication in impacted journals of very good quality presented in SCOPUS

377 Citation

H-Index : 11,

Sopus: https://www.scopus.com/authid/detail.uri?authorId=40761686800

Orcid ID: http://orcid.org/0000-0003-2893-2427

Researchgate : https://www.researchgate.net/profile/M_Khlifi

Scholar google : https://scholar.google.fr/citations?hl=fr&user=-sa2OGUAAAAJ

Scientific publications

Papier 1)

Structural, magnetic and magnetocaloric properties of the lanthanum deficient in $La_{0.8}Ca_{0.2-x}\square_xMnO_3$ (x = 0-0.20) manganites oxides.**Journal of Alloys and Compounds** 509 (2011) 7410
M. Khlifi, M. Bejar, O. EL Sadek, E. Dhahri, M.A. Ahmed, E.K. Hlil

Papier 2)

Preparation of New Composite Magnetocaloric Compounds bymodifying the Annealing Temperature of $La_{0.8}Ca_{0.2-x}\square_xMnO_3$ Perovskite.**Journal of Superconductivity and Novel Magnetism** DOI 10.1007/s10948-011-1382-3
M. Khlifi, M. Bejar, E. Dhahri, E.K. Hlil.

Papier 3)

Effect of calcium deficiency on the critical behavior near theparamagnetic to ferromagnetic phase transition temperature in $La_{0.8}Ca_{0.2}MnO_3$ oxides
Journal of Magnetism and Magnetic Materials 324 (2012) 2142

M. Khlifi, A. Tozri, M. Bejar, E. Dhahri, E.K. Hlil.

Papier 4)

Influence of Ca-deficiency on the magneto-transport properties in $La_{0.8}Ca_{0.2}MnO_3$ perovskite and estimation of magnetic entropy change.**Journal of Applied Physics** 111 (2012)103909

M. Khlifi, M. Bejar, E. Dhahri, P. Lachkar, E.K. Hlil.

Papier 5)

Effect of Fe-doping on magnetocaloric properties in $AMn_{1-x}Fe_xO_3$compounds ($0 \leq x \leq 0.2$)
Journal of Superconductivity and Novel Magnetism DOI 10.1007/s10948-012-1615-0

A. Omri, **M. Khlifi**, M. Bejar, E. Dhahri , M. Sajieddine and E.K. Hlil

Papier 6)

Lanthanum deficiency effect on the structural, magnetic and electric properties of the $La_{0.8-x}\square_xCa_{0.2}MnO_3$ manganites oxides
Journal of Superconductivity and Novel Magnetism DOI10.1007/s10948-013-2251-z

R. Skini,**M. Khlifi**, E. Dhahri, E.K. Hlil.

Papier 7)

Magnetic, magnetocaloric, magnetotransport and magnetoresistanceproperties of Calcium deficient manganites $La_{0.8}Ca_{0.2-x}\square_xMnO_3$post-annealed at 800°C.
Journal of Alloys and Compounds 587 (2011) 771
M. Khlifi, E. Dhahri, E.K. Hlil

Papier 8)

Scaling Laws for the Magnetocaloric Effect in Calcium DeficiencyManganites $La_{0.8}Ca_{0.2-x}\square_xMnO_3$ with a Second-Order MagneticPhase Transition
Journal of Superconductivity and Novel MagnetismDOI 10.1007/s10948-013-2444-5
M. Khlifi, E. Dhahri , and E.K. Hlil

Papier 9)
Electrical transport and giant magnetoresistance in La 0.8-x□xCa0.2MnO3 (x=0, 0.1 and 0.2) oxides

Journal of Magnetism and Magnetic Materials (2014)

R. Skini,**M. Khlifi**, M.Wali, E. Dhahri, E.K. Hlil. P Lachkar.

Papier 10)
Large magnetocaloric effect in lanthanum-deficiency manganites La 0.8x□xCa0.2MnO3 (0.00≤x≤0.20) with a first-order magnetic phase transition.
Journal of Magnetism and Magnetic Materials (2014)
R. Skini, A. Omri, **M**,**Khlifi**,.E,Dhahri, E.K.Hlil.

Papier 11)
Room temperature magnetocaloric effect, critical behavior, and magnetoresistance in Na-deficient manganite La0.8Na 0.1MnO3. **Journal of Applied Physics**

M. Khlifi, E. Dhahri , and E.K. Hlil
Papier 12)
Structural, magnetic and electrical properties of self-doped La 0.8Na0.2-x□xMnO3 manganites
Physica B: Condensed Matter

M. Khlifi, M.Wali, E. Dhahri, E.K. Hlil.

Papier 13)
Influence of disorder on the appearance of Griffiths phases in La0.8-x□xCa0.2MnO3 (x=0.15 and 0.2) compounds

Physica B: Condensed Matter

R. Skini,**M. Khlifi**, M.Jemmali, E. Dhahri, E.K. Hlil.

Papier 14)
Magnetocaloric effect of perovskite manganites La0.7□0.1Ca0.2MnO3

Chemical Physics
R. Skini,**M. Khlifi**, M.Triki, E. Dhahri, E.K. Hlil.

Papier 15)
Effect of the oxygen deficiency on the physical properties of La0.8Na0.2MnO3-δ oxides (δ=0 and 0.05)
Journal of Magnetism and Magnetic Materials

M.Wali,R. Skini, **M. Khlifi**, E. Dhahri, E.K. Hlil

Papier 16)
A giant magnetocaloric effect with a tunable temperature transition close to room temperature in Na-deficient La0.8Na0.2-x□xMnO3 manganites

Dalton Transactions

M.Wali,R. Skini, **M. Khlifi**,E. Dhahri, E.K. Hlil

Papier 17)
An efficient composite magnetocaloric material with a tunable temperature transition in K-deficient manganites
RSC Advances
R. Skini, **M. Khlifi**, E.K. Hlil

Papier 18)
Double metal-insulator transitions and magnetoresistance properties in La0.8Na0.2-x□xMnO3 oxides

Ceramics International

M.Wali,R. Skini, **M. Khlifi**, E. Dhahri, E.K. Hlil

Papier 19)
Effect of sodium deficiency on the critical behavior near the paramagnetic to ferromagnetic phase transition temperature in La0.8Na0.2−x□xMnO3oxides

Journal of Magnetism and Magnetic Materials

M.Wali, **M. Khlifi**, E. Dhahri, E.K. Hlil

Papier 20)
Magnetocaloric-Transport Properties Correlation in La0.8Ca0.2MnO3-Doped Manganites

Journal of Superconductivity and Novel Magnetism

R. Skini, **M. Khlifi**,E. Dhahri, E.K. Hlil.

Papier 21)
Modeling of magnetic and magnetocaloric properties by the molecular mean field theory in La0.8Ca0.2MnO3 oxides with first and second magnetic phase transition
Journal of Magnetism and Magnetic Materials
M. Khlifi, J. DHahri, E. Dhahri, E.K. Hlil.

Papier 22)
Phenomenological modeling of magnetic and magnetocaloric in rare earth doped La0.8Ca0.2MnO3.

Phase transitions
M. Khlifi, Kh. Dhahri, J. DHahri, E. Dhahri, E.K. Hlil.

Papier 23)
Enhancement of magnetocaloric effect by Nickel substitution in La0.67Ca0.33Mn0.98Ni0.02O3 manganite oxide

Journal of Magnetism and Magnetic Materials
Laajimi, K., **Khlifi, M**., Hlil, E.K., Gazzah, M.H., Dhahri, J.

Papier 24)
Cd-doping effect on morphologic, structural, magnetic and electrical properties of Ni0.6-xCdxMg0.4Fe2O4 spinel ferrite ($0 \leq x \leq 0.4$).
Journal of Alloys and Compounds
Hamdaoui, N., Azizian-Kalandaragh, Y., **Khlifi, M**., Beji, L.

Papier 25)

Structural, magnetic and dielectric properties of $Ni_{0.6}Mg_{0.4}Fe_2O_4$ ferromagnetic ferrite prepared by sol gel method

Ceramics International

Hamdaoui, N., Azizian-Kalandaragh, Y., **Khlifi, M**., Beji, L.

Papier 26)

Microstructural, structural and dielectric analysis of Ni-doped $CaCu_3Ti_4O_{12}$ ceramic with low dielectric loss

Journal of Materials Science: Materials in Electronics

Gaâbel, F., **Khlifi, M**., Hamdaoui, N. Taibi, K., Dhahri, J.

Papier 27)

Room temperature magnetocaloric effect and critical behavior in $La_{0.67}Ca_{0.23}Sr_{0.1}Mn_{0.98}Ni_{0.02}O_3$ oxide

Journal of Materials Science: Materials in Electronics

Laajimi, K., **Khlifi, M**., Hlil, E.K. Gazzah, M.H., Dhahri, J.