

CURRICULUM VITÆ

I. PERSONAL BACKGROUND

Name: DAKHLAOUI Amel
Date of birth: April 19, 1974
Family Status: Married
Nationality: Tunisian
Language Skills:
- Arabic: mother tongue
- French: Excellent (2nd Language)
- English: Good
Position: Assistant Lecturer and permanent researcher
Mail Address: Faculty of Science of Bizerte, Department of Chemistry, 7021 Jarzouna, Tunisia
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II. ACDEMIC BACKGROUND

2005	Ph. D. of Chemistry of Solid	(Excellent/Honourable /Congratulatory of the jury)	
2000	Master in Chemistry -Physics	(VERY GOOD)	A+
1997	B.S.C. of Physical Sciences	(GOOD)	A
1995	2 nd of Physics - Chemistry	(GOOD)	A
1993	High School Diploma of Experimental Sciences	(GOOD)	A

III. PROFESSIONAL BACKGROUND

Since September, 2005 up-to-date: Assistant Professor, Department of Chemistry, Faculty of Science, Bizerte
2004-2005 Teacher of Physics at Secondary School and a Temporary Lecturer at the Faculty of Science of Bizerte (84 h. TD)
1998- 2004 Teacher of Physics at Secondary School

IV. RESEARCH EXPERIENCE

1998-2000 **Research works of Post-Graduate Diploma (Master degree),**
Title: Contribution to the Physical and Chemical characterization of borates
 $\text{Na}_2\text{B}_4\text{O}_5(\text{OH})_4 \cdot 8\text{H}_2\text{O}$ et $\text{Na}_3\text{CaB}_5\text{O}_{10}$.
Supervisor: Pr. Leila Samia SMIRI

2002-2005 **PhD Research works**
Title: Structural, Physical and chemical studies of Hydrogenomonophosphates of transition Metals (Zn, Co) and/or Organic Cations.
Supervisor: Pr. Leila Samia SMIRI
Date of Viva : February 23, 2005

Referee Members
President: T. JOUINI, Professor, Faculty of Science of Tunis, Tunisia
Reporters: N. JOUINI, Professor, IUT Saint Denis, France
D. CHEHIMI, Professor, Faculty of Science of Bizerte, Tunisia
Examiners: M. LEBLANC, Professor, University of the Maine, Le Mans France
T. BENCHAAABANE, Associate Professor, Faculty of Science of Bizerte, Tunisia
L. S. SMIRI, Professor, Faculty of Science of Bizerte, Tunisia

Since July 2005
- **Research for post Ph.D.**
- **Co-supervision of post graduate students**

IV. POST-GRADUATE STUDENTS CO-SUPERVISION

- N. REZGUI:** Synthesis and characterization nanohybrides particles: grafting of polyNASS on magnetite nanoparticles (November, 2006)
- K. GMIGUI:** Exploration of the Zr- Amine-HF-H₃PO₄ systems, Structure of the [N₂C₆H₁₆][H₂PO₄]₂ phase (February, 2007)
- S. MNAJA:** Synthesis of Nickel and Cobalt Nanoparticles with the polyol process and study of their magnetic properties (Current)
- M. JENDOUBI:** Synthesis and characterization of Ni doped ZnO nanoparticles. Study of the magnetic and photoluminescence properties (Current)
- M. BOUSNINA :** Elaboration par HIP et SPS de matériaux dense nanostructurés de nickel et cobalt nickel : caractérisation structurale, mécanique et magnétique. (Current)

V. RESEARCH TRAININGS

- Training at Oxides and Fluorides Laboratory, Université of Maine from March 12, 2004 to April 10, 2004
- Training at the Laboratory of Mechanical and thermodynamical properties of materials (LPMTM), University Paris13, from April 03, 2006 to May 31, 2006.
- Training at the Laboratory of Mechanical and Thermodynamical Properties of Materials (LPMTM), University Paris13, from October 16, 2006 to November 07, 2006.
- Training at the laboratory of Mechanical and Thermodynamical Properties of Materials (LPMTM), University Paris13, from January 02, 2007 to January 31, 2007.
- Post doctoral research in University of Toulouse France: IDB bourse

VI. REFERRES

- 1- Nouredine JOUINI, Professor, Laboratory PMTM, University of Paris XIII, Tel : 0033149403494
Email : jouini@lpmtm.univ-paris13.fr
- 2- Marc LEBLANC, Professor, University of the Maine, Le Mans France, Tel : 003324383560
Email : Marc.LebLANC@univ-lemans.fr
- 3- Vincent MAISONNEUVE, Professor, University of the Maine, Le Mans France, Tel : 0033243833561
Email: vincent.maisonneuve@univ-lemans.fr
- 4- Souad AMMAR, Associate Professor, University Paris 7 : Tel : 0033144275520 Email : ammarmar@ccr.jussieu.fr

VII. PUBLICATIONS (8 already Published, one (1) accepted and two (2) will be very soon submitted)

- 1- A new amine phosphate templated by tris(2-aminoethyl)amine
A. DAKHLAOUI, L.S. SMIRI, A. DRISS, *Acta Crystallographica*, **E60** (2004) o2241
- 2- [Zn(H₂PO₄)₄]²⁻ clusters and ∞[Zn₂(HPO₄)₃(H₂PO₄)₂]⁴⁺ layers in two new zinc phosphates templated by [H₂(4-amino-2,2,6,6-tetramethylpiperidine)]²⁺ cations
A. DAKHLAOUI, V. MAISONNEUVE, M. LEBLANC, L.S. SMIRI, *Journal of Solid State Chemistry*, **178** (2005) 1880.
- 3- Hydrothermal synthesis, characterization and magnetic properties of [N₄C₆H₂₁][Co(H₂PO₄)(HPO₄)₂]
A. DAKHLAOUI, S. AMMAR, L.S. SMIRI, *Material Research Bulletin*, **40** (2005) 1270.
- 4- Hydrothermal Synthesis, Crystal Structures and characterization of a two dimensional framework zinc phosphate templated by Hexylamine : [NC₆H₁₆][Zn(HPO₄)Cl]
A. DAKHLAOUI, L.S. SMIRI, A. DRISS, *Phosphorus, Sulfur, and Silicon*, **180** (2005) 1967.
- 5- Hydrothermal synthesis, crystal structures and characterization of two hydrogen phosphates templated by 4-amino-2,2,6,6-tetramethylpiperidine
A. DAKHLAOUI, V. MAISONNEUVE, M. LEBLANC, L.S. SMIRI, *Phosphorus, Sulfur, and Silicon*, **180** (11) (2005) 2573.

- 6- Crystal Structure of a new hydrogen phosphate $[N_2C_9H_{22}][HPO_4] \cdot 4H_2O$,
A. DAKHLAOUI, M. LEBLANC, L. S. SMIRI, *Analytical Science* 21 (2005) 1.
- 7- Infrared and polarized Raman Spectra of a noncentrosymmetric compound "sodium samarium fluorosilicate"
 $NaSmSiO_4 \cdot 0.25NaF$
A. DAHLAOUI, M. TOUMI, L. S. SMIRI, A. BULOUI, *Spectrochimica Acta Part A* 61 (2005) 193-198.
- 8- Synthesis and Crystal Structure of $[N_2C_6H_{16}].[H_2PO_4]_2$, a new amine phosphate templated by 1,4-diaminocyclohexane
A. DAKHLAOUI, K. GMIGUI, L. S. SMIRI, *Acta Crystallographica Section E*, E 63 (2007) o537.
- 9- Synthesis, Crystal Structure, Thermal behavior and spectroscopic studies of $[NC_5H_{12}][H_2PO_4]$
A. DAKHLAOUI, L. S. SMIRI, *Accepted in the Journal of Chemical Tunisian Society*.
- 10- Controlled Elaboration and Magnetic Properties of Sub-micrometric Cobalt Fibers
A. DAKHLAOUI, L.S. SMIRI, G. BABADJIAN, F. SCHOENSTEIN, Philippe Molinié N. JOUINI, *J. Phys. Chem. C*, 2008, 112, (37), pp 14348–14354.
- 9- Synthesis and crystal structure of $[N_2C_6H_{16}].[H_2PO_4]_2$, a new amine phosphate templated by 1,4-diaminocyclohexane,
A. DAKHLAOUI, K. GMIGUI, L. S. SMIRI, *Acta Crystallographica*, E 63 (2007) o537- o539.
- 10- Controlled elaboration and magnetic properties of sub-micrometric Cobalt Fibers
A. DAKHLAOUI, L.S. SMIRI, G. BABADJIAN, F. SCHOENSTEIN, Ph. MOLINIE, N. JOUINI, *Journal of Physics and Chemistry C*, 112(37) (2008) 14348.
- 11- Synthesis, characterization and optical properties of ZnO nanoparticles with controlled size and morphology
A. DAKHLAOUI, M. JENDOUBI, L.S. SMIRI, A. KANAIEV, N. JOUINI, *Journal of Crystal Growth* 311 (2009) 3989.
- 12- Elaboration of dendritic nickel nanoparticles by modified polyol process and their Spark Plasma Sintering, Characterization and magnetic properties of the nanoparticles and the dense nano-structured material.
A. DAKHLAOUI OMRANI, M. BOUSNINA, L.S. SMIRI, M. TAIBI, P. LEONE, F. SCHOENSTEIN, N. JOUINI, *submitted to the Journal Of Chemistry and Physics*, (Mai 2009)
- 13- Spark Plasma Sintering of nickel nanopowders elaborated by modified polyol process and their Microstructure, Mechanic and Magnetic characterization,
M. BOUSNINA, A. DAKHLAOUI OMRANI, F. SCHOENSTEIN, L.S. SMIRI, N. JOUINI, *Submitted to the journal of alloys and compounds* (Juillet 2009)

VIII. PRESENTATIONS AT NATIONAL AND INTERNATIONAL MEETINGS

- 1- Synthesis and crystalline structures of $[N_2C_9H_{22}]_2[Zn_2(HPO_4)_3(H_2PO_4)_2] \cdot H_2O$ et $[N_2C_9H_{22}][Zn(H_2PO_4)_4]$,
13th Tunisians national days of chemistry December 20-23, 2004, Tunisia, (oral presentation)
A. DAKHLAOUI, L.S. SMIRI
- 2- Synthesis, Characterization and crystalline structures of amine phosphates,
13th Tunisians national days of chemistry December 20-23, 2004, Tunisia (Poster)
A. DAKHLAOUI, L.S. SMIRI
- 3- Microporeuse Materials, Synthesis and Application
First Scientific Assizes « Participation of the Young women researchs to the priority research in sciences and technology» November 26-27, 2005 (Oral presentation)
A. DAKHLAOUI, L.S. SMIRI
- 4- Hydrothermal synthesis, crystal structure and characterization of two hydrogen phosphates
The first Tunisian Colloquy of Crystallography TCM1 19-21 Mars 2006 (Poster)
A. DAKHLAOUI, L.S. SMIRI

5- Synthesis of cobalt nanofibers using a modified polyol process and their magnetic properties
14th Tunisians national days of chemistry December 18-22, 2006 (oral presentation)

A. DAKHLAOUI, L.S. SMIRI, G. BABADJIAN, N. JOUINI

6- Nanostructured materials, synthesis and characterization
*2^{ème} Colloque Tunisien sur les matériaux « Matériaux 2007 » organisé par la Tunisian Materials Research Society
Tu_MRS 7-10 Avril 2007 (Communication orale)*

A. DAKHLAOUI, L.S. SMIRI, G. BABADJIAN, N. JOUINI

7- Spark Plasma Sintering of nickel nanopowders elaborated by modified polyol process and their Microstructure, Mechanic and Magnetic characterization
The 16th International Symposium on Metastable, Amorphous and Nanostructured Materials 5-9 Jullet 2009, Pékin, Chine (Communication orale).

M. BOUSNINA, **A. DAKHLAOUI OMRANI**, F. SCHOENSTEIN, L.S. SMIRI, N. JOUINI)