Prof. Dr. Lotfi BEN TAHAR – Curriculum Vitae

Updated: Mai 20, 2023

❖ PERSONAL DETAILS:

Name: **Lotfi Mohamed BEN TAHAR**

Nationality: **Tunisian**

Date of birth: **17\10\1969**

Place of birth: **Tbag; Korba; Tunisia**

Marital status: **Married; three children**

Languages: **Arabic; French; English**

Current Address: Arar, 73312, Northern Border, Kingdom of Saudia Arabia

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Mendely: https://www.mendeley.com/search/

Google Scolar: https://scholar.google.ca/citations?user=8S4fAncAAAAJ&hl=en

ResearchGate: https://www.researchgate.net/profile/Lotfi-Ben-Tahar

Academia: https://tunis.academia.edu/LotfiBENTAHAR

❖ ACADEMIC PROGRESSION:

H.U. (Chemistry), Faculty of Science of Bizerte, Carthage University,Tunisia, (**2011**).

Ph.D. (Chemistry), Faculty of Science of Bizerte, Carthage University,Tunisia, (**2001**).

M.Sc. (Chemistry), Faculty of Science of Bizerte, Carthage University,Tunisia, (**1997**).

B.Sc. (Physics and Chemsitry), Faculty of Science of Bizerte, Carthage, University,Tunisia, (**1995**).

Title of the H.U. Thesis:	*Spinel-Type Ferrite Nanoparticles: Synthesis, Correlation Between Structure, Microstructure, and Magnetic Properties, and Colloids for Hyperthermia*
Title of the Ph.D. Thesis:	*Investigation of Mixed Divalent Cation Hydrogenphosphates: Synthesis, Characterization, and Structural and Electrical/Dielectric Studies*

❖ TEACHING EXPERIENCE:

- **Mars 2023AD – Present:**

  Full-time Professor at the Department of Chemistry, Faculty of Science, Northern Border University, Saudi Arabia.

- **Mars 2017AD – Present:**

  Professor at the Department of Chemistry, Faculty of Science of Tunis, El Manar University, Tunisia.

- **September 2015 – Mars 2023AD:**

  Associate Professor at the Department of Chemistry, Faculty of Science, Northern Border University, Saudi Arabia.

- **Decemember 2011 – Mars 2017AD:**

  Associate Professor at the Department of Chemistry, Faculty of Science of Tunis, El Manar University, Tunisia.

- **September 1999 – Decemember 2011AD:**

  Full-time Assistant Pofessor at the Department of Chemistry, Faculty of Bizerte, Carthage University, Tunisia.

- **1998 – 1999AD:**

  Full-time Secondary School Teacher. Physical Sciences. Secondary School of Sidi Bouzid. Tunisia.

- **1996 – 1998AD:**

  Part Time Faculty Teacher of General & Inorganic Chemistry at the Department of Chemistry, Faculty of Bizerte, Carthage University, Tunisia.

*Have a total teaching experience of **27 years** at a university level (**1996-2023**), during that period, supervising postgraduate students and teaching undergraduate and postgraduate level laboratories and lecture courses comprising General Chemistry, Physical Chemistry, Inorganic Chemistry and Nanoscience including the following courses:*

1. General Chemistry (1)	**2.** General Chemistry (2)	**3.** The Chemistry of volumetric and gravimetric analysis
4. General Chemistry Lab.	**5.** Inorganic Chemistry (1)	**6.** Inorganic Chemistry (2)
7. Coordination Chemistry	**8.** The Chemistry of transition elements	**9.** The Chemistry of rare earth elements
10. Solid state chemistry	**11.** Crystallography (1)	**12.** Crystallography (2)
13. Nanoscience	**14.** Special topics of inorganic Chemistry	**15.** Experimental inorganic Chemistry
16. Chemistry of solutions	**17.** Thermochemistry	**18.** Reseach project

❖ RESEARCH INTERESTS:

✓ Qualification summary

- **2004—present:** *Nanoscience & nanotechnology*
  - **Key words:**

Nanoparticles; Nanomaterials; Soft chemistry; Polyol method; coprecipitation method; Sol-gel method; Surface functionalization; Ligand exchange chemistry; Size control; Shape control; Magnetic oxides; Ferrites; Spinels; Zerovalent metals; Alloys; Semiconductors; Core@shell systems; Quantum dots; Colloids; Characterizations; Magnetism; Superparamagnetism; Electrical properties; Fluorescence; Magnetocalorimetric properties; Adsorption; Heavy metals; Dyes; Hazardous chemicals; Removal; Catalytic activity; Wastewaters; Water treatment; Pollution; Decontamination; Environment; Remediation.

  - **Potential applications of the produced materials:**
    Biomedicine; Environmental remediation; Water treatment; Electronics; ...

- **1996—2004:** *Inorganic bulk phosphates-based materials*

Knowledge and expertise in a) Chemical synthesis (Hydrothermal, Ceramic, Coprecipitation, Sol-gel, polyol); b) Crystal growth; c) Crystal structure; d) Thermal behavior; e) Electrical/dielectric properties, f) Vibrational study

  - **Potential applications of the produced materials:**
    Detergents; Dental remineralization ; Bone remineralization;...

✓ Instrumental skills

- *Methods of Chemical Preparations:* Ceramic, coprecipitation, hydrothermal, polyol, Sol-gel,..
- *Characterization Techniques:* XRD; TEM; SEM; XRF; TG/DTA; DSC; IR; UV-visible; Raman; Electrical impedance; SQUID magnetometry; EXAFS; EXANES;…

✓ Collaborations

- Prof. Agnès Smith, University of Limoges, Institut de Recherche sur les Céramiques (France)
- Profs F. Fiévet & S. Ammar, ITODY, University of Paris-Diderot (France)
- Prof. G. Viau, National Institute of Applied Sciences, Toulouse (France)
- Profs M. Le Blanc & V. Maisonneuve, LOF, University Le Mans, Le Mans (France)
- Synchrotron Center (Trieste, Italy)
- Profs A. Bulou & J. M. Grénèche, LPEC, University Le Mans, Le Mans (France)
- Profs M. Sakly & H. Abdelmaleek, University of Carthage (Tunisia)

❖ FUNDED SCIENTIFIC RESEARCH PROJECTS:

Contribute in the following research projects funded by the Deanship of Scientific Research, Northern Border University, Kingdom of Saudi Arabia and by Tunisia-French Lab. collaborations:

No.	Project Title	Award No.	Date	Investigator(s)
1.	Organic Dye Contaminated Wastewater Treatment Through Iron Oxides-Based Magnetic Nanoparticles.	SCIA-2022-11-1487	**2022**	**L.B. Tahar** et al.
2.	CuZnNi Ferrite Nanoparticles As Efficient Adsorbents Of Hazardous Chemicals In Polluted Liquid.	SCIA-2022-11-1528	**2022**	M. Roaa, **L.B. Tahar** et al.
3.	Magnetic nanoparticles of nickel and zinc oxides: Chemical preparation, physiochemical study and evaluation of their efficiency for water decontamination from hazardous chemicals.	SCI-2018-3-9- F-7732	**2019**	**L.B. Tahar** et al.
4.	Gold nanoparticles: Synthesis, characterization and MB and 4-NP removal.	SCI-2018-3-9- F-7756	**2019**	M.H. oueslati **and L.B. Tahar**
5.	Cobalt Ferrites Nanopowders Prepared by the Polyol Method: Efficiency and Reusability as Nanoadsorbents for the Hazardous Cr(VI) ions.	SCI-2018-1-8- F-7259	**2018**	**L.B. Tahar** et al.
6.	Green synthesis of silver and gold nanoparticles using polyphenols from Salvia officinalis for anticancer and antioxidant activities.	SCI-2018-1-8- F-7356	**2018**	M.H. oueslati, **L.B. Tahar** et al.
7.	Removal of Heavy metals from wastewaters using ferrite nanoparticles.	SCI-2017-1-7-F-6977	**2017**	**L.B. Tahar** et al.
8.	Synthesis and characterization of gold nanoparticles using flavonoids from lotus leguminosae for anticancer and antioxidant activities.	SCI-2017-1-7-F-6969	**2017**	M.H. oueslati, **L.B. Tahar** et al.
9.	Spinel-type ferrite nanomaterials as potential agents in wastewater treatment.	SCI-2016-1-6-F-5761	**2016**	**L.B. Tahar** et al.
10.	Développement de sondes magnétiques pour le traitement du cancer par hyperthermie magnétique: Synthèse, fonctionnalisation et évaluation de la puissance des pertes spécifiques.	07G1214	**2007---2010**	**L.B. Tahar** et al.
11.	Synthèse par la méthode polyol, caractérisation et propriétés magnétiques de nanoparticules de ferrite de cobalt dopés aux terres rares.	DGRST-CNRS	**2005---2007**	**L.B. Tahar** et al.

No.	❖ PUBLICATIONS:
1.	Huili, H., Grindi, B., & **Tahar, L. B.** (2023). Influence of Fe^{3+} substitution by Al^{3+} on the structural, microstructural, and magnetic properties of $Co_{0.2}Ni_{0.3}Zn_{0.5}Fe_2O_4$ nanoparticles. Journal of Solid State Chemistry, 124495. *DOI: https://doi.org/10.1016/j.jssc.2023.124495*
2.	Mogharbel, R., **Tahar, L. B**., Huili, H., & Grindi, B. (2023). Ultrasmall Cu-Substituted NiZn Ferrite Nanoparticles: Efficiency for the Removal of the Alizarin Red S Dye and Reusability. Arabian Journal for Science and Engineering, 1-27. *DOI: https://doi.org/10.1007/s13369-023-08107-x*
3.	Adel Noubigh, **L.B. Tahar** and Aboulbaba Eladeb Solubility Modeling and Preferential Solvation of Benzamide in Some Pure and Binary Solvent Mixtures at Different Temperatures *Journal of Chemical and Engineering Data, 2023* *DOI:https://doi.org/10.1021/acs.jced.3c00024*
4.	M.H. Oueslati1, **L.B. Tahar**, et al. Biosynthesis of Gold Nanoparticles by Essential Oil of Diplotaxis Acris Characterization and Antimicrobial Activities *Oriental Journal of Chemistry. **27** (2021) 405–412.* *DOI: http://dx.doi.org/10.13005/ojc/370220*
5.	Saidani, S., Smith, A., Hafiane, Y. E., **L.B. Tahar** Role of dopants (B, P and S) on the stabilization of β-Ca_2SiO_4 *Journal of the European Ceramic Society. **41** (2020) 880-891.* *DOI: https://doi.org/10.1016/j.jeurceramsoc.2020.07.037*
6.	**L.B. Tahar**, M. H. Oueslati Fast Adsorption-Desorption of Eriochrome Black T Using Superparamagnetic NiZn Ferrite Nanoparticles. *Desalination and Water Treatment. **196** (2020) 315–322.* *DOI: 10.5004/dwt.2020.26039*
7.	Walid Mnasri, **L.B. Tahar**, et al. Polyol-made luminescent and superparamagnetic β-$NaY_{0.8}Eu_{0.2}F_4$@γ-Fe_2O_3 core-satellites nanoparticles for dual magnetic resonance and optical imaging. *Nanomaterials. **10** (2020) 393-410* *DOI: https://doi.org/10.3390/nano10020393*
8.	M.H. Oueslati, **L.B. Tahar**, A.H. Harrath Synthesis of ultra-small gold nanoparticles by polyphenol extracted from Salvia officinalis and efficiency for catalytic reduction of p-nitropheno and methylene blue.
9.	M.H. Oueslati, **L.B. Tahar**, A.H. Harrath Catalytic, antioxidant and anticancer activities of gold nanoparticles synthesized by kaempferol glucoside from Lotus Leguminosae. *Arabian Journal of Chemistry. **13** (2020) 3112-3122.* *DOI: 10.1016/j.arabjc.2018.09.003*
10.	**L.B. Tahar**, M.H. Oueslati, S. Saidani, A. Smith A series of novel non-stoichiometric cobalt ferrite nanoparticles as efficient reusable nanoadsorbents for hexachromium ions. *Desalination and Water Treatment **163*** (2019) 243–259. *DOI: 10.5004/dwt.2019.24413*
11.	W. Mnasri, **L.B. Tahar**, S. Nowak, O. Sandre, M. Boissière, S. Ammar Evaluation of polyol-made Gd^{3+}-substituted $Co_{0.6}Zn_{0.4}Fe_2O_4$ nanoparticles as high magnetization MRI negative contrast agents. *Journal of Interdisciplinary Nanomedicine. **4** (2019) 4-23.* *DOI: https://doi.org/10.1002/jin2.53*

12.	**L.B. Tahar**, M.H. Oueslati, B. Grindi A comparative study of two CoZn nanoferrites: Preparation, characterization, magnetic properties, Cr(VI) removal and regeneration. *Desalination and Water Treatment **144*** (2019) 243–256. *DOI: 10.5004/dwt.2019.23682*
13.	W. M'Nasri, **L.B. Tahar**, S. Nowak, D.A. Haidar, M. Boissière, S. Ammar The first one-pot synthesis of undoped and Eu doped β-$NaYF_4$ nanocrystals and their evaluation as efficient dyes for nanomedicine. *Materials Science and Engineering: C 94 (2019) 26-34.* *DOI: https://doi.org/10.1016/j.msec.2018.09.024*
14.	Hichem Huili, Ali Mater, Bilel Grindi, Guillaume Viau, Abdessalem Kouki, **L.B. Tahar** Influence of the RE_2O_3 (RE = Y, Gd) and CaO nanoadditives on the electromagnetic properties of nanocrystalline $Co_{0.2}Ni_{0.3}Zn_{0.5}Fe_2O_4$. *Arabian Journal of Chemistry 2 (2019) 489-502.* *DOI: https://doi.org/10.1016/j.arabjc.2017.02.006*
15.	**L.B. Tahar** Effect of Physicochemical Parameters on the Efficiency of the Removal of Hexachromium by Reusable Maghemite Nanoparticles. *Journal of the North for Basic and Applied Sciences* (JNBAS) ***3*** (2018) 108-119. *DOI: 10.12816/0051340*
16.	S. Saidani, A. Smith, Y.E. Hafiane, **L.B. Tahar** Re-examination of the β→γ transformation of Ca_2SiO_4. *Journal of the European Ceramic Society **38*** (2018) 4756–4767. *DOI: https://doi.org/10.1016/j.jeurceramsoc.2018.06.011*
17.	**L.B. Tahar**, M.H. Oueslati, M.J.A. Abualreish Synthesis of magnetite derivatives nanoparticles and their application for the removal of chromium (VI) from aqueous solutions. *J. Colloid and Interface Science 512 (2018) 115–126.* *DOI: https://doi.org/10.1016/j.jcis.2017.10.044*
18.	H. Huili, B. Grindi, G. Viau, **L.B. Tahar** Influence of the stoichiometry and grain morphology on the magnetic properties of Co substituted Ni–Zn nanoferrites. *Ceramics International 42 (2016) 17594-17604.* *DOI: https://doi.org/10.1016/j.ceramint.2016.08.073*
19.	H. Basti, **L.B. Tahar**, L.S. Smiri, F. Herbst, S. Nowaka, C. Mangeney, S. Ammar Surface modification of γ-Fe_2O_3 nanoparticles by grafting from poly-(hydroxyethylmethacrylate) and poly-(methacrylic acid): Qualitative and quantitative analysis of the polymeric coating. *Colloids and Surfaces A: Physicochem. Eng. Aspects **490** (2016) 222–231.* *DOI: https://doi.org/10.1016/j.colsurfa.2015.11.013*
20.	H. Huili, Sophie Nowak, **L.B. Tahar** Polyol-made stoichiometric $Co_{0.2}Ni_{0.3}Zn_{0.5}Fe_2O_4$ nanoparticles: Synthetic optimization, structural, and microstructural studies. *International Journal of Nanotechnology, 12 (2015) 631–641.* *DOI: https://doi.org/10.1504/IJNT.2015.068884*
21.	H. Huili, B. Grindi, A. kouki, G. Viau, **L.B. Tahar** Effect of sintering conditions on the structural, electrical, and magnetic properties of nanosized Co0.2Ni0.3Zn0.5Fe2O4. *Ceramics International 41 (2015) 6212–6225.* *DOI: https://doi.org/10.1016/j.ceramint.2015.01.024*
22.	L. Barhoumi , A. Oukarroum , **L.B. Taher** Effects of Superparamagnetic Iron Oxide Nanoparticles on Photosynthesis and Growth of the Aquatic Plant Lemna gibba. *Arch Environ Contam Toxicol, 68 (2015) 510-520.* *DOI: 10.1007/s00244-014-0092-9*

23.	H. Basti; A. Hanini, M. Levy, **L.B. Tahar**, et al. Size tuned polyol-made $Zn_{0.9}M_{0.1}Fe_2O_4$ (M = Mn, Co, Ni) ferrite nanoparticles as potential heating agents for magnetic hyperthermia: From synthesis control to toxicity survey. *Materials Research Express, 1 (2014) 045047.* *DOI: https://doi.org/10.1088/2053-1591/1/4/045047*
24.	H. Huili, B. Grindi, G. Viau, **L.B. Tahar** Effect of cobalt substitution on the structure, electrical, and magnetic properties of nanorcrystalline $Ni_{0.5}Zn_{0.5}Fe_2O_4$ prepared by the polyol process. *Ceramics International **40** (2014) 16235–16244.* *DOI: https://doi.org/10.1016/j.ceramint.2014.07.059*
25.	Y. Baratli, A.-L. Charles, V. Wolff, **L. B. Tahar**, et al. Age modulates Fe_3O_4 nanoparticles liver toxicity. Dose-dependent decrease in mitochondrial respiratory chain complex activities and coupling in middle-aged as compared to young rats. *BioMed Research International, Volume 2014, Article ID 474081, 10 pages*. *DOI: 10.1155/2014/474081*
26.	**L.B. Tahar**, W M'Nasri, LS Smiri, JP Quisefit, S Ammar Comparative study of the structural and magnetic properties of two cobalt ferrite nanocrystals produced with different iron precursors. *Materials Letters **113** (2013) 198–201*. *DOI: https://doi.org/10.1016/j.matlet.2013.09.055*
27.	Y. Baratli, A.-L. Charles, V. Wolff, **L.B. Tahar**, et al. Impact of iron oxide nanoparticles on brain, heart, lung, liver, and kidneys mitochondrial respiratory chain complexes activities and coupling. *Toxicology in Vitro, 27 (2013) 2142–2148.* *DOI: 10.1016/j.tiv.2013.09.006*
28.	**L.B. Tahar**, H. Basti, F. Herbst, L.S. Smiri, J.P. Quisefit, N.Yaacoub, J.M. Grenèche, S.Ammar $Co_{1-x}Zn_xFe_2O_4$ ($0 \leq x \leq 1$) nanocrystalline solid solution prepared by the polyol method: Characterization and magnetic properties. *Materials Research Bulletin **47** (2012) 2590–2598.* *DOI: https://doi.org/10.1016/j.materresbull.2012.04.080*
29.	M. Artus, **L.B. Tahar**, F. Herbst, L. Smiri , F. Villain , N. Yaacoub, J.M. Grenèche, S. Ammar, F. Fiévet Size-dependent magnetic properties of $CoFe_2O_4$ nanoparticles prepared in polyol. *J. Phys.: Condens. Matter **23** (2011) 506001 (9pp).* *DOI: https://doi.org/10.1088/0953-8984/23/50/506001*
30.	H. Basti, **L.B. Tahar**, L.S. Smiri, F. Herbst, M.J. Vaulay, F.Chau, S.Ammar, S.Benderbous Catechol derivatives-coated Fe_3O_4 and γ-Fe_2O_3 nanoparticles as potential MRI contrast agents. *Journal of Colloid and Interface Science **341** (2010) 248–254*. *DOI: https://doi.org/10.1016/j.jcis.2009.09.043*
31.	**L.B. Tahar**, M. Artus, S. Ammar, L.S. Smiri, F. Herbst, M.J. Vaulay, V. Richard, J.M. Grenèche, F.Villain, F. Fiévet Magnetic properties of $CoFe_{1.9}RE_{0.1}O_4$ nanoparticles (*RE = La, Ce, N*d, *Sm, Eu, Gd,* T*b, Ho*) prepared in polyol. *J. Magn. Magn. Mater. **320** (2008) 3242–3250.*
32.	**L.B. Tahar**, L.S. Smiri, M. Artus, A.L. Joudrier, F. Herbst, M.J. Vaulay, S. Ammar, F. Fiévet Characterization and magnetic properties of Sm- and Gd-substituted CoFe2O4 nanoparticles prepared by forced hydrolysis in polyol. *Materials Research Bulletin 42 (2007) 1888–1896.* *DOI: https://doi.org/10.1016/j.jmmm.2008.06.031*
33.	**L.B. Tahar**, et al. Investigation of the Mixed Divalent Cation Monophosphates: Synthesis, Crystal Structure, and Vibrational Study of $CdBa_2(HPO_4)_2(H_2PO_4)_2$. *J. Solid State Chem. **161** (2001) 97–105*. *DOI: https://doi.org/10.1006/jssc.2001.9289*
34.	**L.B. Tahar**, L. Smiri, Y. Laligant, A.Le Bail Investigation of Mixed Divalent Cation Phosphates: Synthesis and X-Ray Powder Structure of $CdBa_2(P_2O_7)(HPO_4)$. *Solid State Sci*. ***2 (****2000) 285–292*.

35.	**L.B. Tahar**, L. Smiri, Y. Laligant, V. Maisonneuve Investigation of the Alkaline Earth Phosphates: Synthesis and Crystal Structure of a New Strontium Hydrogen Phosphate Form. *J. Solid State Chem.* ***152*** *(2000) 428–434.* *DOI: https://doi.org/10.1006/jssc.2000.8700*
34.	**L.B. Tahar**, S.Chabchou, L.Smiri-Dogguy Investigation of Mixed Alkaline Earth Phosphates: Synthesis and Crystal Structure of $CaBa(HPO_4)_2$: A New Mixed Alkaline Earth Hydrogenmonophosphate. *Solid State Sci. 1 (1999) 15–24.* *DOI: https://doi.org/10.1016/S1293-2558(00)80061-8*
35.	**L.B. Tahar**, L. Smiri, A. Driss Refinement of $CaBa_2(HPO_4)_2(H_2PO_4)_2$. *Acta Cryst. C55 (1999) 1757–1759.* *DOI: https://doi.org/10.1107/S0108270199009427*

❖ STUDENTS SUPERVISION:

➢ License (Applied Chemistry) and Engineering Chemistry

More than of 30 research projects are supervised, selected ones are:

- ***R. Galai.***
  MicrowavePyrolysis of Household Wastes, valorisation of the oil derived from pyrolysis of high density polyethylene (HDPE)with CaO addition and co-pyrolysis of paper-HDPE. Polytechnic School of Montréal & Faculty of Sciences of Tunis. 2014
- ***I. Mabrouk.***
  Optimizing of grinding tests of phosphate of roof
  Kef Eddour and enrichment by flotation. Phosphate Company of Gafsa & Faculty of Sciences of Tunis. 2014
- ***S. Boughanmi.***

  Elaboration of Calibration Curves for the Chemical Analyses of Clays and Marls by XRF. SCB & SCB & Faculty of Sciences of Tunis. 2013
- ***L. Islem.***
  Study of Manufacture of HRS Cements from
  Raw Materials of Cement Company of Bizerte. SCB & Faculty of Sciences of Tunis. 2013
- Granulometric, Mineralogical, and Chemical Analyses of Various Sands of the Region of Kasserine. Office of Mining & Faculty of Sciences of Tunis.
- ***B. Fatma, G. Haykel, B. M. Manef.***
  SCB & Effect of the Mineralogy of Clinker on the Initial Mechanical Resistance of Bizerte Cements. University of Carthage. 2012
- ***T. Islem, M. Nefzi.***

  Water Analyses: Optimization of the Injection of Chemicals Into the Water Treatment Station, STIR & Faculty of Sciences of Bizerte. 2012
- ***Ghaîth, B. M. Imed.***
  Recycling of Acid Etching Solution by Chloride Copper. Fuba & Faculty of Sciences of Bizerte. 2008.

➢ M.Sc. Chemistry

More than 10 M.Sc. Chemistry are supervised, selected ones are:

- ***W. M'Nasri.***

Polyol Medium Synthesis and Characterization of $Co_{1-x}Zn_xFe_2O_4$ (x = 0,4; 0,6 ; 0,8).
Univ. Carthage (Tunisia), 2012

- ***W. Haffoudi.***

Colloids of Dopamine Functionalized $Co_{0.5}Zn_{0.5}Fe_2O_4$ Nanoparticles.

Univ. Carthage (Tunisia), 2012

- ***H. Huili.***

Polyol Medium Synthesis, Characterization, and Electrical Properties of $Ni_{0.5-x}Co_xZn_{0.5}Fe_2O_4$ ($0 \leq x \leq 0.5$).
Univ. Carthage (Tunisia), 201

- ***B. Jilani.***

Colloids of Dopamine Functionalized Fe_3O_4 et γ-Fe_2O_3 Nanoparticles
Univ. Carthage (Tunisia), 2009

- ***H. Sellemi.***

Polyol Medium Synthesis, Characterization, and Electrical Properties of $Co_{0.5}Zn_{0.5}Fe_2O_4$.
Univ. Carthage (Tunisia), 2009

➢ M.Sc. Physics

- ***Z. T. Alrashidi.***

Effect of annealing and doping on the physical properties of cobalt ferrite nanoparticles.
Univ. Northern Border (Saudi Arabia), 2023.

➢ Ph.D. Chemistry

- ***S. Saidani.***

Additives Phosphates Inhibitors Research in the Tunisian Cement pastes. Univ. Tunsi El Manar (Tunisia) & Univ. Limoges (France), 2019.

- ***W. M'Nasri.***

Contribution to the Development of Spinel-Type Ferrite Based Colloids for Biomedical Purposes: Elaboration, Microstructure, Magnetic properties, and Calorimetric Essays.
Univ. Carthage (Tunisia) & Univ. Paris-Diderot (France), 2019.

- ***H. Huili.***

Polyol Medium Synthesis, Characterization, and Electrical and Magnetic Properties of $Ni_{0.5-x}Co_xZn_{0.5}Fe_2O_4$ ($0 \leq x \leq 0.2$)/ (Bi_2O_3, Y_2O_3, CaO).
Univ. Carthage (Tunisia), 2016.

- ***H. Basti.***

Development of Magnetic Sensors for Magnetic Hyperthermia: Synthesis, Functionalization and Evaluation of the Specific Loss Power.
Univ. Carthage (Tunisia) & Univ. Paris-Diderot (France), 2010.

❖ ACADEMIC REFERENCES:

✓ Prof. Souad Ammar:

Nanomaterials, ITODYS UMR-CNRS 7086
University of Paris-Diderot
75205 Paris Cedex 13
E-mail : ammarmer@univ-paris-diderot.fr

✓ Prof. Guillaume Viau:

Nanostructures and Organometallic Chemistry, LPCNO
National Institute of Applied Sciences
135 avenue de Rangueil, 31077, Toulouse Cedex 4, France
E-mail : gviau@insa-toulouse.fr

✓ Prof. Noureddine Raouafi:

Tunis El Manar University, Faculty of Science of Tunis, Department of Chemistry, Tunisia
E-mail : noureddine.raouafi@fst.utm.tn

✓ Prof. Tahar Ben Chaabane:

Department of Chemistry, University of Carthage, Tunisia
E-mail : taharbch@yahoo.com

✓ Prof. Agnès Smith:

Institut de recherche sur les céramiques
ENSIL-ENSCI 12, rue Atlantis 87068 Limoges cedex, France
E-mail : agnes.smith@unilim.fr

✓ Prof. Sofiane Touil:

Head of the Laboratory of Hetero-Organic Compounds and Nanostructured Materials, Faculty of Sciences of Bizerte, University of Carthage
E-mail : soufiane.touil@fsb.rnu.tn

✓ Prof. Amor Ben Ali:

Imam Abdulrahman Bin Faisal University (IAU)), College of Science, Department of Chemistry, Saudi Arabia
E-mail : asbali@ud.edu.sa & amor.benAli@fsb.rnu.tn

✓ Dr. Lassad Mejri:

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✓ Prof. Noureddine Amdouni:

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