

PERSONAL INFORMATION

Mohamed Ksibi

 Route de Soukra Km4, Po. Box 1175, 3038 Sfax (Tunisia)

 21698605507

 mohamed.ksibi@isbs.mu.tn

 https://www.researchgate.net/profile/Mohamed_Ksibi2/

 Skype mohamed.ksibi4

Sex Male | Date of birth 10/02/1964 | Nationality Tunisian

WORK EXPERIENCE

2009–Present

University Professor

Higher Institute of Biotechnology (ISBS), Sfax (Tunisia)

www.isbs.mu.tn

Chemicals in the environment - Water and wastewater treatment and reuse - Development and application of new methods for the identification of emerging chemical compounds in waters and wastewaters-Assessment of their toxicity

Ph. D. Supervisor, in the field of advanced technologies for wastewater treatment, Risk assessment of contaminated soil, Detection and monitoring of environmental pollutants in soil and water, Sensors and biosensors

Project management:

Project manager of international projects: co-coordinator of 2 JST-JICA Science and Technology Research Partnership for Sustainable Development (SATREPS) projects, PPD director of NATO-SFP993311 project , coordinator of 4 bilateral joint research projects between Tunisia and Greece, Portugal, Morocco.

Scientific research in development and innovation for:

- Photocatalytic Degradation of Organic Pollutants in Water
- Impact of phosphogypsum stack on the surrounding environment
- Development of Electrochemical Immunosensors for Endocrine Disrupting Detection
- Surface geochemical exploration for oil and gas

Business or sector Higher education and Research

2011–2017

Director and chief executive

Higher Institute of Biotechnology (ISBS), Sfax (Tunisia)

-Coordinate Institute strategy, research, education, training, and collaboration with public and private sectors

-Collaborate with departments and administrative support units to achieve institute development goals.

-Establish and manage international research grant programmes, and led international collaborative research programmes at ISBS

2008–2011

Head of Departement of Biotechnology and Health

Higher Institute of Biotechnology (ISBS), Sfax (Tunisia)

2006–2009 Associate Professor

Higher Institute of Biotechnology (ISBS), Sfax (Tunisia)

Teaching activities in General Chemistry ; Environmental Chemistry - Soil and Water chemistry; Organic Chemistry; Problem Solving Units.

Coordinator of Master degree in Environmental Biotechnology

Scientific research in development and innovation for:

- Preparation and characterization for photocatalysts for water depollution
- Heavy Metals Removal from Wastewater Using Low Cost Adsorbents
- Research activities in photocatalysis through research stages in prestigious European Universities ; long term international collaboration
- Member of the research team at the laboratory Water, Energy and Environment LR3E, ENIS for several research projects.

2006 Invited Professor at the University of Poitiers

National Graduate School of Engineers of Poitiers (France)

Teaching activities in Chemistry and Materials Sciences

Supervisor of two-semester projects

2003–2005 Head of Department of Industrial Chemistry

University of Gabès, Higher Institute of Applied Sciences and Technologies, Gabès (Tunisia)

1996–2003 Lecturer

Gabès Preparatory Engineering Institute, University of Gabès (Tunisia)

Teaching courses, seminars and laboratory work in Organig and General Chemistry

EDUCATION AND TRAINING

07/07/2016–27/07/2016

MIT-EDUCATOR PROGRAM 2016

MIT - Massachusetts Institute of Technology, Boston (United States)

MIT-EDUCATOR Program 2016 for lecturers and professors in the field of biology, biological engineering or other life sciences.

Modules include:

- Curriculum Design
- Problem-Solving Approaches
- Use of Online Education and EdTech Tools
- Entrepreneurship in the Curriculum
- Research as a Learning Tool
- Specific Subject Content

2003 Habilitation in Chemistry

Faculty of Sciences of Sfax (Tunisia)

1990–1993 PhD in Applied Chemistry

With highest honor

National Higher Engineering School of Poitiers (France)

Title of Dissertation:

Selective hydrogenation of a, b unsaturated aldehydes over cobalt catalysts

1988–1990 **Diploma of Exhaustive Studies (D.E.A.) (MASTER) in Applied Chemistry**

University of Poitiers (France)

1982–1988 **Bachelor degree, in Science and Techniques in chemistry**

Faculty of Sciences and Techniques, Sfax (Tunisia)

1978–1982 **High School studies/Baccalaureate**

High School Hedi Chaker, Sfax (Tunisia)

PERSONAL SKILLS

Mother tongue(s) Arabic

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
French	C2	C2	C2	C2	C2
English	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

Very good communication skills gained through my experience as:

- University Professor
- Large experience in working in national and international research teams
- Co-founder and Managing Editor of the Euro-Mediterranean Journal for Environmental Integration (EMJEI) in Springer
- Supervisor of more than 15 Ph. D. students and great number of students for their master or bachelor thesis
- General Chairman of the 1st Euro-Mediterranean Conference for Environmental Integration (EMCEI) which was held in Sousse, Tunisia in November 2017
- Member of Scientific Committee for SFGP2009; WATMED 6 and ICIEM1,2 and 3 ; 1st CAJG in 2018

Organisational / managerial skills

Problem-solving attitude, ability to schedule and meet the deadlines for any type of activity, including project activities, coordination of many Ph.D. thesis and diploma project. Coordinator of NATO project and many bilateral projects. Director (2011-2017) and head of department (2008-2011) of the Higher Institute of Biotechnology (ISBS).

Job-related skills

Managing Erasmus Mobility of Staff and Students from ISBS (2011-2017)

Digital skills

SELF-ASSESSMENT

Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Independent user	Independent user	Independent user

Digital skills - Self-assessment grid

MS Office, different programmes specific to chemistry, internet technology, MEDLINE/PubMed, Web of Science, and SciVal Scopus databases, software for references (EndNote)

Other skills

- Scientific expert to evaluate proposals at national and international levels
- Scientific referee at national (Journal de la Société Chimique de Tunisie) and international journals (Science of the Total Environment, Materials Letters, Water Research, Recent Patents on Nanotechnology, Journal of Environmental Engineering, ASCE Publications, Environmental Engineering Science, Journal of Hazardous Materials, Journal of Photochemistry and Photobiology A: Chemistry, Applied Catalysis B: Environmental and TALANTA)

Driving licence

B

ADDITIONAL INFORMATION
Publications

- 83 published papers in international journals, 1 book chapter published and book co-edited : Recent Advances in Environmental Science from the Euro-Mediterranean and Surrounding Regions October 2017, Publisher: Springer, ISBN: 978-3-319-705484
- Total citations of contributions =4738
- H index=20 and i10-Index=26 for the period 2001-2018 (Google Scholar, January 2018)

Recent Publications:

1- Using methane biological oxidation in soil as a tool to finance closure of dumpsites across the Mediterranean Basin

<https://link.springer.com/article/10.1007/s41207-017-0044-7>

October 2017

2-Heterogeneous photocatalytic degradation of ibuprofen in ultrapure water, municipal and pharmaceutical industry wastewaters using a TiO₂/UV-LED system

<https://doi.org/10.1016/j.cej.2017.10.045>

October 2017

3-Surface geochemical prospection for hydrocarbons in the oriental platform; the case of Guebiba oilfield, Sfax region, Tunisia

<https://doi.org/10.1016/j.petrol.2017.10.019>

October 2016

4-Soil contamination with olive mill wastes negatively affects microbial communities, invertebrates and plants

<https://link.springer.com/article/10.1007/s10646-016-1700-4>

October 2016

5-Ecotoxicity of titanium silicon oxide (TiSiO₄) nanomaterial for terrestrial plants and soil invertebrate species

<https://doi.org/10.1016/j.ecoenv.2016.03.038>

July 2016

6-Development of an electrochemical biosensor for alkylphenol detection

<https://doi.org/10.1016/j.talanta.2015.09.015>

January 2016

7-Experimental Study on the Valorization of Dredged Sediment from Reservoirs in Tunisia as Soil

Amendment Regulating Metal Uptake by Crops doi: 10.18178/ijesd.2016.7.10.867

October 2016

8-Solar Photocatalytic Decolorization and Degradation of Methyl Orange Using Supported TiO₂

<https://doi.org/10.1515/jaots-2016-0110>

January 2016

9-UV and solar photo-degradation of naproxen: TiO₂ catalyst effect, reaction kinetics, products identification and toxicity assessment

<https://doi.org/10.1016/j.jhazmat.2015.10.045>

March 2016

10-Label-free disposable immunosensor for detection of atrazine

<https://doi.org/10.1016/j.talanta.2016.05.044>

September 2016

11-Ecotoxicological Evaluation Of Titanium Silicon Oxide Nanoparticules With Terrestrial Species

<https://doi.org/10.1016/j.toxlet.2014.06.898>

September 2014

13-Effects of Metal Pollution on Sediments in a Highly Saline Aquatic Ecosystem: Case of the Moknine Continental Sebkh (Eastern Tunisia)

<https://link.springer.com/article/10.1007/s00128-015-1469-9>

April 2015

14-Electrochemical analysis of Endocrine Disrupting Chemicals over Carbon Electrode modified with Cameroon's clay

<http://jes.ecsdl.org/content/162/1/B1.abstract>

November 2014

15-How nanomaterials will interfere with the toxicity of copper?

<https://doi.org/10.1016/j.toxlet.2014.06.899>

September 2014

16-Effects of long-term irrigation with treated wastewater on soil quality, soil-borne pathogens, and living organisms: case study of the vicinity of El Hajeb (Tunisia)

<https://link.springer.com/article/10.1007/s10661-013-3570-z>

May 2014

17-Effects of contaminated soils from a former iron mine (Ait Amar, Morocco) on enchytraeids (*Enchytraeus bigeminus*) and predatory mites (*Hypoaspis aculeifer*) in standard laboratory tests

<https://doi.org/10.1016/j.ecoenv.2015.04.040>

September 2015

18-Voltammetric Monitoring of Pb (II) by TiO₂ Modified Carbon Paste Electrode

<http://jes.ecsdl.org/content/162/8/B212.abstract>

May 2015

19-Speciation of Heavy Metals by Modified BCR Sequential Extraction in Soils Contaminated by Phosphogypsum in Sfax, Tunisia

<http://dx.doi.org/10.5755/j01.erem.70.4.7807>

2014

20-Electrochemical detection of phenolic estrogenic compounds at clay modified carbon paste electrode.

<http://iopscience.iop.org/article/10.1088/1742-6596/596/1/012014/meta>

2015

Patents:

1-Disposable biosensor for the detection and quantification of alkylphenols in liquid samples. (#INPI Patent Application N°109382)

May 2016

- Novel bio-sensor for the detection of small molecules WO 2014123430 A1
 - Screen-printed electrode unmarked immunosensor for detecting nonyl phenol CN 202886321 U
- 2-Extraction and purification of compounds having antibacterial activity from olive mill wastewater (margines) by physical treatments (#Patent Number: Application TN 22360) May 2013

Projects 2016-2021

Project Co-Director of JST-JICA Science and Technology Research Partnership for Sustainable Development (SATREPS): Valorization of Bio-resources based on Scientific Evidence in Semi- and Arid Land for Creation of New Industry

The aims of collaborative research between Tsukuba University and ENIS through the SATREPS project is firstly to establish an analytical database of the mineral composition of monovarietal olive oils produced in many Tunisian regions with different soil characteristics and secondly to develop scientific techniques for determining/predicting the geographical origin of Tunisian olive oil which will help to establish Protected Designation of Origin (PDO) olive oils. ¥4500000.0

2012-2014

Project Co-Director: Integrated, geochemical, geophysical and microbiological approaches for hydrocarbon prospecting in sedimentary basins from Portugal and Tunisia The Tunisian Portugal bilateral cooperation (project #49/TP/2012) €5,000

2011-2013

Project Co-Director: Préparation et caractérisation des capteurs électrochimiques à base de phosphates naturels et d'argiles: Application à l'électro-analyse des métaux lourds et pesticides dans les eaux douces La coopération bilatérale Tunisie Maroc (projet #31/TM/11) €5,000

2010-2015

Project Co-Director

JST-JICA Science and Technology Research Partnership for Sustainable Development (SATREPS): Valorization of Bio-resources in Semi Arid and Arid Lands for Regional Development

The aim of this project was to improve the effective utilization of plants adapted to stressful environment ¥35000000.0

2009-2013

NATO-SFP 983311, PPD project director

University of Sfax, Laboratory of Water, Energy and Environment, National School of Engineers of Sfax ENIS - Sfax

Remediation Processes in Uranium and other Mining Explorations The NATO SCIENCE FOR PEACE AND SECURITY PROGRAM NATO-SFP 983311, €137,000.00

2009-2012

Project Co-Director: Development of methods for heavy metal accumulation by endophytic bacteria: a powerful ally in the reforestation of contaminated soils. The Tunisian Portugal bilateral cooperation (project #26/TP/09) €5,000

2006-2007

Project Co-Director: Development of visible light active nanostructured materials for air treatment The Greece-Tunisia Cooperation program (Project # 68/TG/05) €5,000

Honours and awards

Award for Scientific and Technological Research

June 2017

Ministry of Higher Education and Scientific Research Outstanding Scientific Research Output Awards

Materials Letters

Top Cited Article 2007 to 2011 Award for the paper:

Synthesis and solid characterization of nitrogen and sulfur-doped TiO₂ photocatalysts active under near visible light Ksibi, M., Rossignol, S., Tatibouët, J.-M., Trapalis, C. published in

Materials Letters, Volume 62, Issue 26, 2008, Pages 4204-42062008

References

Researcher ID: 6603228695

ORCID: <http://orcid.org/0000-0001-5389-1773>

Here, I certify that the above statement is true

Date: January 26, 2018

Professor Mohamed Ksibi