

Curriculum Vitae

Abdellatif BOUKIR:

Professor of Spectroscopy (NMR, IR, UV), Advanced Organic Chemistry and Analytical Environmental Chemistry at the Faculty of Sciences and Techniques, Sidi Mohammed Ben Abdellah University, Fez, Morocco.

BIOGRAPHICAL INFORMATION

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Date of birth : March 28, 1962.

Address: Faculty of Sciences and Techniques, Sidi Mohammed Ben Abdellah University, B.P. 2202, Fez 30 000, Morocco.

EDUCATIONAL BACKGROUND

. Ph. D. Thesis “Doctorat”, 1990; in *Organic Chemistry: Synthesis of substituted Acridines Heterocycles and Structural Study of enamine~imine equilibria by means NMR Spectroscopy* (Aix-Marseille-III University, *Laboratory of Organic Chemistry and Physics*, Marseille, France).

. Ph. D. Thesis, 1999 (Doctorat d’Etat: “State Doctorate: Post-graduate Studies”) in *Analytical Environmental Chemistry (Laboratory of Analytical Chemistry and Environment*: Aix-Marseille-III University France; in coordination with University of Fes).

. Diplôme des Etudes Approfondies DEA, 1987 (*equivalent to* “Master of Science M.S.”); in *Organic Synthesis and Analytical Chemistry* (Aix-Marseille University, *Laboratory of Organic Chemistry and Physics*, Marseille, France).

. Bachelor of Science B.S. (1986) *equivalent to* “Maîtrise on Science” in *Organic and Inorganic Chemistry*: (Sidi Med Ben Abdellah University, Faculty of Sciences, Fes Morocco).

. *Since 1991 to Present*: Professor at the Faculty of Sciences and Techniques, Sidi Mohammed Ben Abdellah University of Fes, Ministry of High Education and Research (Morocco).
Professor of: Advanced Organic Chemistry (courses for: 4th year of engineering school, Maîtrise TACQ (3th year: 2000-08), Licence TACQ (3th year: 2008-10)); Spectroscopies NMR, FT-IR and UV (courses for: 3th year of engineering school, Master Chemistry *CMBA*, Master *Biotechnology*, Master *PPBiomed*, Maîtrise *Biotechnology*), and Analytical Environmental Chemistry (Master *Agro-Ressources TEMPUS kenitra*, Master *Hydrology*, Master *Biodiversity*, Master *Chemometry CAC-AGIQ*).

RESEARCH INTERESTS

* Archaeomaterials: Degradation of Cellulose, hemicelluloses and Lignin in artwork materials (historical manuscript paper, wood artifacts, in cultural heritage). Analysis, conservation and preservation; study of the effect of natural environmental and artificial ageing (antique book restoration, wood artifacts, ancient and natural colors and dyes). Analysis and structural elucidation by means of: Infra-Red FTIR and Nuclear Magnetic Resonance NMR spectroscopies, Ultra-Violet UV, X-Ray Fluorescence XRF, X-Ray diffraction XRD, Scanning Electron Microscopy SEM-EDS.

* Environment Science and Engineering: My main field interests are Photodegradation of Persistent Organic Pollutants (POPs) in Environment Chemistry focusing on the organic contaminants and monitoring analysis of their by-Products and their behavior by chromatography GC, GC-MS and spectroscopies IR, UV and NMR (saturated Hydrocarbons, PolyAromatic Hydrocarbons PAHs, Pesticides, and Polyphenols in olive mille wastewater) in different ecosystem matrix: aquatic, soil and sediment.

* Medicinal and Aromatic Plant

- Natural Products, Phytochemistry, Extractions (Hydrodistillation, Soxhlet, ASE,...) and Chromatography GC-MS analysis of essential oils (EO) in medicinal and aromatics plants.

* Organic chemistry synthesis and analysis:

- Structural characterization of heterocyclic Organic compounds by means of Nuclear Magnetic Resonance Spectroscopy NMR, Infra-Red FT-IR Spectroscopy and UV.

* **PROFESSIONAL RESEARCH EXPERIENCE - Editor of Review**1- Editor of: **Journal of Applied Chemistry and Environment Protection «JACEP»**, ISSN 2509 -1468; since 2015 to present.

- **Member of Editorial Board (International Reviews)**1- Mediterranean Journal of Chemistry, (Impact Factor en 2014 = 1.348 (International Science Indexing ISI)); ISSN: 2028- 3997; (2012 to present);

2- Physical and Chemical News, (Indexed by *Scopus*); ISSN: 1114-3800; (2009 to present);

3- Arabian Journal of Medicinal and Aromatic Plants, ISSN 2028-3997; (2015 to present).

- **REVIEWER (Referee) of International Reviews**

1- CLEAN-Soil Air Water (2015 and 2016); (Editor Elsevier), ISSN: 1863-0650 (Print); Impact Factor 2014/15 = 1.945

* Manuscript ID clen.201500633, and Manuscript ID clen. 201600264.

2- Natural Product Research, (Editor Taylor & Francis); ISSN 1478-6419; Impact Factor 2013/15= 1.225

*reference: (ID GNPL-2014-0694.R2); 06 July 2014

3- International Research Journal of Biochemistry and Biotechnology (IRJBB), (ISSN: 2167-0438)

*reference: PP-1115-521, received 13 November 2015, Evaluated 05 December 2015.

4- Current Bioactive Compounds, (*Revue Italienne*), ISSN : 1875-6646 ; (le 24 avril 2015)

5- Arabian Journal of Medicinal and Aromatic Plants *AJMAP* (ISSN 2028-3997), (2015-16)

*reference No.: AJMAP2015-072; (5 Août 2015)

6- Journal of Medicinal Plants Research, (Indexed by *Scopus*; Impact Factor 2010= 0.879); (2010 to 2013); ISSN 1996-0875;

7- Journal of Materials & Environmental Science, (Indexed by *Scopus*); ISSN: 2028-2508; (2012-16)

8- Physical Chemical News, (Indexed by *Scopus*); ISSN : 1114-3800; (2009-2016)

9- Journal Toxicology and Environmental Health Sciences, ISSN 2006-9820; (2011)

10- Agricultural Research Journal, (2012-13)

11- Moroccan Journal Biology; PISSN 1114-8756; (2013-16).

***MEMBER of SCIENTIFIC COMMITTEE (Ministry Expertise, Congress, Symposium...)**

1- International Expertise for Federation Arab of Science and Research Councils: *FASRC Prize* (Assessment and Evaluation of 3 best scientific Arab-researchers on aromatic and medicinal plants) 18 to 28 March, 2016.

2- Member of National Scientific Committee of Expertise: Ministry of High School Education and Scientific Research; (Rabat: 2006-2015).

a- Expertise of Ph.D. Training and Research Units “*UFR Doctorat*”; **CNAE** commission; Ministry of Higher Education and Scientific Research in Rabat, 2006.

b- Expertise of Training Units (Masters Research and Masters Specialized, Licensing); **CNaCES** commission; Ministry of Higher Education and Scientific Research in Rabat, 2006-2014.

c- Expertise of Diplomas Equivalents obtained in foreign countries (PhD thesis, Engineering, Masters) Ministry of Higher Education and Scientific Research in Rabat, 2008 and 2009.

3- Member of National Scientific Committee: «*Persistent Organic Pollutants POPs/PCB*», Ministry of Energy and Environment; (Rabat: 2012-2014).

4- Member of Scientific Committee: XII^{ème} Journées Maghrébines: «*Materials Sciences*», Faculty of Sciences and Techniques of Fez, November 19-21, 2015.

5- Member of Scientific Committee: 3th International Congress on «*Materials, Pollution and Environment*», Tanger, February/19-20/2014.

6- Member of Scientific Committee: The 3rd Edition of International Congress EDE3 on «*Waters, Wastes and Environment*»; Fes, November/21-23/2011.

7- Member of Scientific Committee: International Symposium: «*Symposium- Fourth Environ German-Arab: Scientific Forum for Environmental Studies*»- Topic: Climatic Changes and Water Resources in the Middle East and North Africa», Fes, October/7-8/2008.

8- Member of Scientific Committee: International Days of «*Environmental Geosciences*»; Fes, may/13-15/2009.

9- Member of Scientific Committee: International Congress «*Medicinal and Aromatic Plants: Applications* », CIPMA 2010. Fes, october/14-16/2010.

10- Member of Scientific Committee: International Congress «*Medicinal and Aromatic Plants*», CIPMA 2007, lieu: Faculté de Médecine et de Pharmacie de Fes, march/22-24/2007.

11- Member nationwide competence cluster "*Cultural Heritage*", 2006-16.

12- Member of the competence cluster "*Water and Environment*", University Sidi Med Ben Abdellah (2015 to Present).

13- Director of *Laboratory of Applied Chemistry (and creator)*, Faculty of Sciences and Techniques Fez, 2002-07.

14- PhD Thesis Evaluations in France and Italy (*Assessor, Chairman and Doctoral thesis committee member*); 2010-16.

INVITED SPEAKER for INTERNATIONAL MEETING (Congress, workshop, European School)

1- Invited Speaker (July 11, 2016) for 5th Annual Conference of AnalytiX-2017, March 22-24, 2017, Fukuoka, Japan, with a theme “*Emerging Trends in Analytical Science*”.

2- Invited Speaker (May 3, 2016) for International Meeting on Cellulose: 2016 EMN (Energy, Materials, Nanotechnology) Dalian Meeting, taking place at Dalian, China from July 25 to 29, 2016.

3- Invited Speaker (December 02, 2015) for International Meeting on Cellulose: 2016 EMN (Energy, Materials, Nanotechnology) Taipei Meeting; (Taipei, Taiwan-China), from March 8 to 11, 2016).

4- Invited Speaker for official teaching programme of the European ARCHMAT SUMMER SCHOOL (2014 edition), ERASMUS MUNDUS Master in ARCHaeological MATerials Science ARCHMAT (Portugal), held at the University of Fez, Morocco, September 8 to 19, 2014.

5- Invited Speaker for International workshop on “*Technology and Conservation of Ancient Artworks*”: *Investigation of traditional Mediterranean Colouring Technology for the Conservation of Cultural Heritage § MED-COLOUR-TECH*”:

“*ATR-FTIR Study of Moroccan ancient dyestuff wool fibre textiles*»; Fès, november 26-27, 2008.

www.medcolourtech.org/.../Abstracts_november_2008.pdf

6- Course in the: official teaching programme of the Euro-Maghrébin ERASMUS PLUS Master (*TEMPUS*) on «*Agro Ressources Fonctionnelles ARF*»; TEMPUS «530234-TEMPUS-1-2012-1-FR-TEMPUS-JPCR». Faculty of Sciences Kénitra (Morocco) and University of Lorraine, Nancy, France; 2014-15.

* EUROPEAN and NATIONAL PROJECTS Member

- 1- Member of European Project: European Program LSP-Her «*Languages for Specific Purposes – Languages Centres for Cultural Heritage Preservation*». N° of Project : 530847-LLP-2012-GR-KA2-KA2MP. (2012-15).
- 2- Member of European Project «*TEMPUS*». Master Euromaghrébin ERASMUS PLUS ; TEMPUS <<530234-TEMPUS-1-2012-1-FR-TEMPUS-JPCR>>: «*Agro Ressources Fonctionnelles : Valorisation en Produits de Santé, de Nutrition et d'Environnement*», (14 sept. 2012-15).
- 3- Member of National Project «*Persistent Organic Pollutants / PolychloroBiphenyles (POPs/PCB)*», Ministry of Energy and Environment Morocco, Rabat (2012-2014).
- 4- Member of European Project «*TEMPUS*» «*Master's Course on Cultural Heritage Preservation in Morocco*» Ref: JPRC- 144968-2008 «*Patrimoine Culturel*»; December 2008 to 2012.
- 5- Member of European Project «INCO CT 2005 015406: *MED-COLOUR-TECH*», 2005-09.
- 6- Member of European Project «6FP-STREP-INCO-MPC1-CAMPEC: *Paper Project*», 2004-8.
- 7- Contract of Research with Petroleum Industry Elf Aquitaine/GDR-HYCAR/CNRS «*Recovery of Heavy Crude Oils Asphaltenes (CO₂ Supercritical Fluid Extraction and Photodegradation of Pollutants Polycyclics Aromatics Hydrocarbons PAHs*», Marseille, France, 1996-99.

* PUBLICATIONS: ARTICLES ([International and Indexed Articles](#))

- 1- HAJJI L., BOUKIR A., ASSOUIK J., PESSANHA S., FIGUEIRI J. L., CARVALHO M. L. (2016)
 "Artificial Ageing Paper to Assess Long Term Effects of Conservative Treatment. Monitoring by Infrared Spectroscopy ATR-FTIR, X-ray Diffraction XRD and Energy Dispersive X-Ray Fluorescence EDXRF".
[Microchemical Journal](#), 124, 646-656, 2016.
 (Editor: Elsevier) ISSN: 0026-265X (Impact Factor 2015/16 = 2.89)
- 2- ASSOUIK J., HAJJI L., BOUKIR A., HEROLD C., LAGRANGE P. (2016)
 "Synthesis, structure and electrical behaviour of the heavy *alkali metal-arsenic alloys based graphite intercalation compounds*".
[Synthetic Metals](#), 218, 34-42, 2016.
<http://dx.doi.org/10.1016/j.synthmet.2016.04.028>
 (Editor: Elsevier) ISSN: 0379-6779 (Impact Factor 2015/16 = 2.3)
- 3- ASSOUIK J., HAJJI L., BOUKIR A., CHAOUQI M., LAGRANGE P. ([In Press](#), 2016)
 "Heavy *alkali metal-arsenic alloys-based graphite intercalation compounds: Investigation of their synthesis and of their physical properties*".
[Comptes Rendus Chimie](#) ([In Press](#), 2016),
<http://dx.doi.org/10.1016/j.crci.2016.04.005>
 Available online 19 May 2016.
 (Editor: Elsevier) ISSN: 1631-0748 (Impact Factor 2015/16 = 1.8)
- 4- BOUKIR A.*, FELLAK S., CARVALHO M.L.; P. DOUMENQ ([Submitted](#), 2016)
 "Structural Characterization of Moroccan *Argania Spinosa* Wooden Artifacts using Infra-Red Spectroscopy ATR-FTIR, X-Ray Diffraction XRD and Scanning Electron Microscopy SEM-EDS: A Methodological Approach".
[Microchemical Journal](#),
 ([Submitted under reference](#): Ref: MICROC_2016-410 , November 11, 2016).
 (Editor: Elsevier) ISSN: 0026-265X (Impact Factor 2015/16 = 2.89)

- 5- FELLAK S., ROMANE A., BOUKIR A.*; (Submitted, 2016)
 "Monitoring of Natural Degradation Effect on Cellulosic Fibers of Moroccan Cedar Wooden Artifacts by Infra Red Spectroscopy ATR-FTIR, XRD and SEM: Contribution in Art Conservation Study".
 Polymer Degradation Stability, (Submitted under reference: Ref: PDST-D-16-00985, November 11, 2016).
 (Editor: Elsevier) ISSN: 0141-3910 (Impact Factor 2015/16 = 3.12)
- 6- ZGHARI B.E., BOUKIR A.*, ROMANE A., DOUMENQ P.; (Submitted, 2016)
 "GC-MS, FTIR and NMR Analysis of Olive Mille Wastewater from Moroccan's Effluents".
 Acta Physico-Chimica Sinica; (Submitted, 2016) ISSN: 1000-6818. (Impact Factor 2015/16 = 0.84)
- 7- HAJJI L., BOUKIR A., ASSOUIK J., LAKHIARI H., KERBAL A., DOUMENQ P., MILLE G. and CARVALHO M. L. (2015)
 "Conservation of Moroccan Manuscript Papers Aged 150, 200 and 800 Years. Analysis by Infrared Spectroscopy (ATR-FTIR), X-Ray Diffraction (XRD), and Scanning Electron Microscopy Energy Dispersive Spectrometry (SEM-EDS)"
 Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 136, 1038-1046, 2015.
 (Editor: Elsevier) ISSN: 1386-1425 (Impact Factor 2015/16 = 2.65)
- 8- HAJJI L., BOUKIR A., ASSOUIK J., KERBAL A., DOUMENQ P., CARVALHO M. L. (2015)
 "A Multi-analytical Approach for the Evaluation of the Efficiency of the Conservation-Restoration Treatment of Moroccan Historical Manuscripts dating to 16th, 17th and 18th centuries".
 Applied Spectroscopy, Volume 69 (8), 920-938, 2015.
 (Editor: Society for Applied Spectroscopy). ISSN: 0003-7028 (Impact Factor 2015/16 = 1.8)
- 9- ARJOUNI Y., ROMANE A., EL ALAOUI EL Fels A., BOUKIR A., ALGABR Methaq (2015)
 "Antioxidant activity and chemical composition of essential oil of Cupressus atlantica Gaussen".
 Current Bioactive Compounds; Volume 11, Issue 1, page 56-60, 2015.
 ISSN: 1875-6646 ; ISSN: 1573-4072 (Print); (Revue Italienne) (Impact Factor 2014/15= 0.62) (Scopus Indexed)
- 10- LAACHARI F., MAATAOUI H., EL BERGADI F.Z., BOUKIR A., IBNSOUDA S.K. (2015)
 "Improvement of a lipolytic activity assay protocol to increase the efficiency of the lipases activity measurement and validation by infrared spectroscopy".
 African Journal of Biotechnology, Volume 14, page ..., 2015. ISSN: 6845315
- 11- ARJOUNI My Y., ROMANE A., EL ALAOUI EL FELS My A., BOUKIR A., ROMDHANE M., MARKOUK M., ROQUES Alain, YART Annie;
 «Geographical Variations of the Essential Oils in Natural Populations of Cupressus Gaussen in High Mountains in Morocco».
 Journal Essential Oil Bearing Plant, 14 (1), p 57-66, 2011.
 (Editor: Taylor & Francis) ISSN: 0972-060X (Impact Factor 2015/16= 0.313)
- 12- MANSOURI N., SATRANI B., GHANMI M., EL GHADRAOUI L., BOUKIR A., AAFI A.,
 «Effect of the provenance on the yield, chemical composition and antimicrobial activity of the essential oils of Moroccan Juniperus phoenicea L ».

Acta Botanica Gallica, 158 (2), p 215-224, 2011.
(Editor: Taylor & Francis) ISSN: 1253-8078 (Impact Factor 2015/16= 0.78)

13- LAKHIARI H., BOUKIR A., MULLER D. ;
«*N-acetyl-Neuraminic acid is a new thiophilic adsorbent for the purification of insulin and Immunoglobulins G.*».
Chromathographia; 72, p 205-213, 2010.
(Editor: Elsevier) ISSN: 0009-5893 (Impact Factor 2014/15 = 1.411)

14- GHANMI M., SATRANI B., AAFI A, ISMAILI M.R, HOUTI H., BOUKIR A., CHARROUF Z.
«*Effect of harvest period on yield, chemical composition and bioactivity sagebrush's (Artemisia herba-alba) essential oils in Guercif (Eastern region of Morocco)*».
Phytotherapie, 8, p. 295-301, 2010. (Editor: Springer), ISSN: 1624-8597 ,
(Scopus Indexed)

15- DERWICHE H., BENZIANE Z., BOUKIR A.,
«*Chemical Composition of Leaf Essential Oil of Juniperus Phoenicea and Evaluation of its Antibacterial Activity*».
International Journal of Agriculture and Biology, 12 (2), 199-204, 2010
ISSN: 15608530, 18149596 (Impact Factor 2013= 1.22)

16- DERWICHE H., BENZIANE Z., BOUKIR A.;
«*Chemical Compositions and in vitro Antibacterial Activity of the Essential Oils of Cedrus atlantica*»;
International Journal of Agriculture and Biology; 12(3), 381-385, 2010.
ISSN: 15608530, 18149596 (Impact Factor 2013/14= 1.22)

17- DERWICHE H., BENZIANE Z., MANAR A., BOUKIR A., TAOUIL R.;
«*Phytochemical Analysis and in vitro Antibacterial Activity of the Essential Oil of Origanum Vulgare from Morocco*».
American-Eurasian Journal of Scientific Research, 5 (2), 120-129, 2010.
ISSN: 1818-6785

18- DERWICHE H., MANAR A., BENZIANE Z., BOUKIR A.;
«*GC/MS Analysis and In vitro Antibacterial Activity of the Essential Oil Isolated from Leaf of Pistacia lentiscus Growing in Morocco*»;
World Applied Sciences Journal, 8(10): 1267-1276, 2010.
ISSN : 1818-4952 (Impact Factor 2013/14= 0.23)

19- DERWICHE H., BENZIANE Z., BOUKIR A.,
«*Antibacterial Activity and Chemical Composition of the Essential Oil from Flowers of Nerium Oleander*».
Electronic Journal of Environmental, Agricultural and Food Chemistry, 9(6), 1074-1084, 2010. ISSN: 15794377 (Revue Espagnole) (Scopus Indexed) (Impact Factor 2014/15= 0.5)

20- DERWICHE H., BENZIANE Z., BOUKIR A.,
«*Antibacterial Activity and Chemical Composition of the Leaf Essential Oil of Mentha Rotundifolia from Morocco*».
Electronic Journal of Environmental, Agricultural and Food Chemistry, 9(1), 19-28, 2010. ISSN: 15794377 (Revue Espagnole) (Scopus Indexed) (Impact Factor 2014/15= 0.5)

21- DERWICHE H., BENZIANE Z., BOUKIR A.,
«*GC-MS Analysis and Antibacterial Activity of the Leaf Essential Oil of Mentha Pulegium Grown in Morocco*».
Research Journal of Agriculture and Biology Sciences, 6(3), 191-198, 2010.
ISSN: 1816-1561

- 22- DERWICHE H., BENZIANE Z., BOUKIR A.,
 «GC/MS Analysis of Volatile Constituents and Antibacterial Activity of the Essential Oil of Leaves of *Eucalyptus globules* in Atlas Median from Morocco».
 Advances in Natural and Applied Sciences, 2009, 3(3), page 305-313.
 ISSN : 1995-0772. (Scopus Indexed) (Impact Factor 2011= 0.92)
- 23- GRECHE H., MRABET N., ZRIRA S., ISMAILI ALAOUI M., BENJILALI B., BOUKIR A.;
 «The Volatiles of the Leaf Oil of *Cistus ladanifer* L. var. *albiflorus* and Labdanum Extracts of Moroccan Origin and their Antimicrobial Activities»;
 Journal Essential Oil Research, 21 (2), 166-173, 2009.
 (Editor: Taylor & Francis) ISSN: 1041-2905 (Impact Factor 2015/16= 0.87)
- 24- DERWICHE H., BENZIANE Z., BOUKIR A.,
 «Chemical Composition and Antibacterial Activity of Leaves Essential Oil of *Laurus Nobilis* From Morocco».
 Australian Journal of Basic and Applied Sciences”, 3(4), 3818-3824, 2009.
 ISSN : 1991-8178. (Scopus Indexed) (Impact Factor 2014/15= 0.43)
- 25- DERWICHE H., BENZIANE Z., BOUKIR A.,
 «Chemical Composition and Insecticidal Activity of Essential Oils of three Plants *Artemisia* SP: *Artemisia Herba-Alba*, *Artemisia Absinthium* and *Artemisia Pontica* (Morocco)».
 Electronic Journal of Environmental, Agricultural Food Chemistry”, 8(11), 1202-1211, 2009 .
 ISSN: 15794377 (Revue Espagnole) (Scopus Indexed) (Impact Factor 2014/15= 0.5)
- 26- DERWICHE H., BENZIANE Z., BOUKIR A., Benaabidate L.
 «GC-MS Analysis of the Leaf Essential Oil of *Mentha Rotundifolia*, a Traditional Herbal Medicine in Morocco».
 Chem. Bull. `POLITEHNICA` Univ.(Timisoara) Romania ”, Volume 54 (68), Issue 2, 2009.
 ISSN : 1224 - 6018
- 27- BENJELLOUN O.T., AKKURT M., YILDIM S.O., DAOUDI M., BEN HADDA T., BOUKIR A., Buyukgungor O., JALBOUT A. F. ;
 «Structural and theoretical studies of 4.4’ – (1.4-phenylene-bis-(azaediyl))dipent-3-en-2-one: evidence of a delocalized keto-enimine».
 Arkivoc, Volume 2008, Issue 2, p. 80-93, 2008.
 (Editor: ARKAT, USA) ISSN: 1551-7004 (Impact Factor 2015/16 = 1.18)
- 28- BENNANI B., JALBOUT A. F., BABA B. F., BEN LARBIN., BOUKIR A., KERBAL A., MIMOUNI M., BEN HADDA T., TRZASKOWSKI B. ;
 «Synthesis of a new spiro-(isothiochromene-3,5’-isoxazolidin)-4(1H)-ones».
 Journal of Heterocyclic Chemistry; 44 (3), p. 711-716, 2007.
 (Editor: Wiley) ISSN: 0022-152X (Impact Factor 2014/15 = 0.8)
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- 29- BOUKIR A., M. GUILIANO, P. DOUMENQ, Gilbert MILLE.,
 «Subfractionation, characterization and photooxidation of crude oil resins»;
 Chemosphere, Volume 43, 279-286, 2001.
 (Editor: Elsevier) ISSN : 0045-6535 (Impact Factor 2015/16 = 3.7)
- 30- GUILIANO M., BOUKIR A., DOUMENQ P., CHARBIT G., MILLE G.,
 «Supercritical fluid Extraction of Bal 150 crude oil asphaltenes»;
 Energy and Fuels, 14, 89-94, 2000.
 (Editor ACS: American Chemical Society Publications) ISSN: 0887-0624 (Impact Factor 2015/16 = 2.84)
- 31- BOUKIR A., GUILIANO M., ASIA L., MILLE G.,
 «A fraction to fraction study of photooxidation of BAL 150 crude oil asphaltenes»;

Analisis, 26, 358-64, 1998.

(Editor: EDP Sciences and Wiley-VCH);

ISSN : 0365-4877

32- BOUKIR A., GUILIANO M., DOUMENQ P., MILLE G.,
«Structural characterization of crude oil asphaltenes by infrared spectroscopy (FTIR). Application to photo-oxidation»;

Comptes Rendus Chimie; p.597-602; 1998

(Editor: Elsevier)

ISSN : 16310748

(Impact Factor 2015/16= 1.8)

33- FAURE R., GALY JP, BOUKIR A., BOYER G., BARBE J., VINCENT E.J., ELGUERO J.;

«An Analysis of Substituent Effects on the Proton and Carbon 13 Chemical Shifts of 9-Chloro and 9-Amino Acridines»;

Bull. Soc. Chim. Belges, Volume 100, (9), 639-646; 1991. (ISSN : 0037-9646).

ARTICLES with Reading Committee (Published in [National Reviews](#))

34- GRECHE H., MRABET N., ISMAILI ALAOUI M., BOUKIR A., BENJILALI B.:
«Effet de séchage sur le rendement et la composition chimique de l'huile essentielle de *Tanacetum annuum L.*»;

«Revue de l'Association Forum du Nord du Maroc»; Numéro double 2-3, juillet, p. 100, 2008.

ISSN : 1114-9280

ARTICLES with Reading Committee ([Proceedings](#) of the CIPAM 2007 International Congress on Medicinal and Aromatic Plants)

35- H. GRECHE, N. MRABET, M. ALAOUI ISMAILI, N. HAJJAJI, BOUKIR A., B. BENJILALI: «*Etude Phytochimique de Tanacetum annuum L (Camomille bleue) du Maroc*». Actes du Congrès International sur les Plantes Aromatiques et Médicinales. In H. Greche & A. Ennabili (éd.). «Recherche sur les plantes aromatiques et médicinales» ; p. 102-113, (édition 2010). ISBN : 978-9954-1-4960-0.

36- H. GRECHE, N. MRABET, M. ALAOUI ISMAILI, N. HAJJAJI, D. BOUSTA, A. DAHCHOUR, BOUKIR A., B. BENJILALI: «*Chemical Composition, Antibacterial and Antifungal Activities of Maroc Cistus Ladanifer L. Leaves Extraction*». Actes du Congrès International sur les Plantes Aromatiques et Médicinales. In H. Greche & A. Ennabili (éd.). «Recherche sur les plantes aromatiques et médicinales»; p. 201-213, (édition 2010). ISBN : 978-9954-1-4960-0.

37- H. GRECHE, K. BELKHEIR, N. HAJJAJI, BOUKIR A., Y. MAACH, A. LOUKILI: «*Les Huiles Essentielles Bio du Maroc*». Actes du Congrès International sur les Plantes Aromatiques et Médicinales. In H. Greche & A. Ennabili (éd.). «Recherche sur les plantes aromatiques et médicinales»; p. 130-140, (édition 2010). ISBN : 978-9954-1-4960-0.

*COMMUNICATIONS: INTERNATIONAL ABROAD ([Orales à l'étranger](#))

1- OUARHACH Aicha, ROMANE A., BOUKIR A., COSTA J.

«Antioxidant activity of the essential oil and various extracts of an endemic species of Morocco: *Origanum elongatum* (Bonnet) Emb. § Maire». 6th International Congress on Medicinal and Aromatic Plants (CIPAM 2016); 29 May to 01 June 2016, [Coimbra, Portugal](#).

2- OUARHACH Aicha, ROMANE A., BOUKIR A., COSTA J., OUHAMMOU A. (2016).

«Antioxidant activity of the essential oil and extract of an endemic species of Morocco: *Lavandula marocanna* Murb.». 6th International Congress on Medicinal and Aromatic Plants (CIPAM 2016); 29 May to 01 June 2016, [Coimbra, Portugal](#).

- 3- HOUTI H., BOUKIR A, ROMANE A. (2016).
 "Antioxydant activity of oxygenated monoterpenes compounds of *Artemisia herba alba* essential oils".
 (Abstract Number: 39). 6th International Congress on Medicinal and Aromatic Plants CIPAM 2016. 29
 May to 01 June 2016, [Coimbra, Portugal](#).
- 4- HAJJI L., BOUKIR A., CARVALHO M. L.; (2015)
 "Assessment of the Artificial Weathering Effects on Restored Moroccan Manuscript Papers: Analysis by
 ATR-FTIR Spectroscopy and X-Ray Diffraction". Technart 2015 : Non-destructive and Microanalytical
 Techniques in Art and Cultural Heritage». April 27-30, 2015, [Catania, Italy](#).
- 5- FELLAK S., BOUKIR A., HAJJI L., DE CARVALHO M.L.; (2015)
 "Structural characterization of Moroccan Cedrus wooden artifacts dating to 21th, 19th and 16th
 centuries using FTIR Spectroscopy and X-Ray Diffraction: a methodological approach".
 Colloquium Spectroscopicum Internationale CSI 2015, (Reference PS3.35/ CSI 2015), 30 August-3
 September 2015, [Figueira da Foz, Lisbon, Portugal](#).
- 6- FELLAK S., BOUKIR A., HAJJI L., DE CARVALHO M.L.; (2015)
 "Degradation process of *Argania Spinosa* Moroccan wooden artifacts by FTIR and X-ray Diffraction».
 Colloquium Spectroscopicum Internationale CSI 2015, (Reference PS3.39/ CSI 2015), 30 August-3
 September 2015, [Figueira da Foz, Lisbon, Portugal](#).
- 7- FELLAK S., BOUKIR A., HAJJI L., DE CARVALHO M.L.; (2015)
 "FTIR Spectroscopy and X-Ray Diffraction to characterize Moroccan Cedrus wooden artifacts dating
 to 21th, 19th and 16th centuries".
 Iberian Meeting on Atomic and Molecular Physics IBER 2015, (Reference P19/ IBER 2015), 03-09
 September 2015, [Universidade de Aveiro, Aveiro Portugal](#).
- 8- Houti H., Ghanmi M., Satrani B., Aberchane M., Aafi A., BOUKIR A., (2014)
 "GC-MS Analysis, Determination of Antimicrobial and Antifungal Activities of *Artemisia Herba-Alba*
 Essential Oil's». 5th International Congress on Medicinal and Aromatic Plants (CIPAM 2014); 17-20
 mars 2014, [Zarzis Tunisie](#)).
- 9- BOUKIR A. and HAJJI L., (2014)
 "Application of Multi-analytical Spectroscopic Techniques for the Conservation and Safeguard of
 Moroccan Historical Manuscript Papers». ARCHMAT SUMMER SCHOOL, 18 September 2014,
[ERASMUS MENDUS](#) , Université Sidi Med Ben Abdallah, Fès (édition 2014, 8-19 septembre 2014).
- 10- HAJJI L., BOUKIR A., ASSOUIK J., DOUMENQ P., MILLE G.. (2013)
 "A Combined ATR/FTIR and RAMAN Spectroscopy, Inductively Coupled Plasma and X-Ray
 Spectrometry study of three Moroccan Manuscript Paper dating to 16th, 17th and 18th centuries:
 Purposes of Diagnosis and Conservation", Technart 2013 : Analytical Spectroscopy in Art and
 Archaeology at the ». 23–26 September 2013, Rijksmuseum [Amsterdam, Holland](#).
- 11- HAJJI L., BOUKIR A, El GHAZOUALI A.and ZEROUALE A. (2012)
 "Structural Analysis by Spectroscopy FTIR and XRD of Manuscript Paper Materials dating from 150,
 200, 800 years"
 2nd International Congress on Chemistry for Cultural Heritage; 09-12 July 2012, [Istanbul, Turkey](#).
www.chemch2012.org
- 12- HAJJI L., ASSOUIK J., IDRISSE KANDRI N., BOUKIR A. and BENSLIMANE R.
 (2012)
 "Morphological Study of Paper Surface by SEM-EDS of the Degraded and Restored Paper Manuscript
 from Library Al-Quarawiyine".
 2nd International Congress on Chemistry for Cultural Heritage; 09-12 July 2012, [Istanbul, Turkey](#).
www.chemch2012.org
- 13- HAJJI L., BOUKIR A, IDRISSE G.S., ASSOUIK J., LAKHIARI H., KERBAL A. (2012)
 "Enhancement of Manuscript Paper Materials: Restoration and Physico-Chemical Study".
 2nd International Congress on Chemistry for Cultural Heritage; 09-12 July 2012, [Istanbul, Turkey](#).
www.chemch2012.org

- 14- HOUTI H., GHANMI M., SATRANI B., BOUKIR A, ISMAILI R., ABERCHANE M, AAFI A., (2011). "The Chemical Composition and the Antimicrobial Activity of the Essential Oil of White Sagebrush (*Artemisia Herba Alba*) from Imouzzet Marmoucha (Area of Fes Boulmane) Morocco". "International Congress on Aromatic and Medicinal Plants CIPAM 2011. page 89 (T3018); 13-15 april 2011, [Cagliari, Italy](#).
- 15- HOUTI H., GHANMI M., SATRANI B., BOUKIR A, ABERCHANE M. and AAFI A., (2011). «Chemical and Biological Study of the Lichens on Cedar and Holm Oak of The forest of the the Average Atlas». "International Congress on Aromatic and Medicinal Plants CIPAM 2011. page 84 (T3013). 13-15 april 2011, [Cagliari, Italy](#).
- 16- BOUKIR A., TAZI H., GUILIANO M., DOUMENQ P., KERBAL A. and MILLE G.; (2008). «Comparative Study between original and Photodegraded crude oil Asphaltenes of Blend Arabian Lights: NMR ¹H, ¹³C». International workshop on "Monitoring & modelling of marine pollution": December 1-3, 2008, [Kish Island- IRAN](#).
- 17- BOUKIR A., GUILIANO M., TAZI H., DOUMENQ P., MILLE G.; (2008). «Photodegradation of saturated Hydrocarbons of Petroleum crude oils "Blend Arabian Light 150" catalysed by anthraquinon». International workshop on "Monitoring & modelling of marine pollution": December 1-3, 2008, [Kish Island- IRAN](#).
- 18- BOUKIR A., TAZI H., GUILIANO M., DOUMENQ P., CHAKROUNE S. , MILLE G.; (2008). «Gel Permeation Chromatography/FTIR techniques in the characterization of high molecular weight crude oils asphaltenes». International workshop on "Monitoring & modelling of marine pollution": December 1-3, 2008, [Kish Island- IRAN](#).
- 19- GRECHE H., MRABET N., ALAOUI ISMAILI M., BOUKIR A. et BENJILALI B. ; (2006). «Effet de séchage sur Rendement et composition chimique de l'huile essentielle *Tanacetum annuum L.*». 1^{er} Séminaire Maghrébin sur les Sciences et Technologies de Séchage (SMSTS), Faculté des Sciences de [Tunis Manar II](#), 17 au 19 décembre 2006, [Tunis Manar II, Tunisie](#).
- 20- BOUKIR A., GUILIANO M., ASIA L. et DOUMENQ P.; (2002). «Devenir des résines pétroliers». Congrès de la Société Française de Chimie: Journées Franco-Italiennes de Chimie, Université Sophia Antipolis, 18-19 Avril, 2002, [Nice, France](#).
http://webs.unice.fr/cdiec/congres/sfc_paca/resumes/guilianolcae1.pdf
- 21- BOUKIR A., GUILIANO M., DOUMENQ P. et MILLE G.; (2000). «Fractionnement et Caractérisations structurales de résines pétroliers». Congrès de la Société Française de Chimie. Journée du Grand Delta, 30 mars, 2000, Université d'[Avignon, France](#).
- 22- BOUKIR A., GUILIANO M., MILLE G., DOUMENQ P., CRAMPON C., CHARBIT G.; (1999) «Extraction d'asphaltènes pétroliers par fluide supercritique». Congrès de la Société Française de Chimie, 26 mars, 1999, Université de la Méditerranée, [Marseille, France](#).
- 23- BOUKIR A., GUILIANO M., DOUMENQ P. et MILLE G., (1999) «Apport de différentes techniques analytiques à l'élucidation structurale des asphaltènes pétroliers». Congrès Société Française de Chimie, 26-3-1999, Université de Méditerranée, [Marseille, France](#).
- 24- BOUKIR A., GUILIANO M., DOUMENQ P. et MILLE G., (1998) «Fractionnement chromatographiques d'asphaltènes pétroliers et caractérisations structurales». Congrès de la Société Française de Chimie, 3 avril, 1998, Université de la Garde [Toulon, France](#).
- 25- BOUKIR A., GUILIANO M., DOUMENQ P., CRAMPON, CHARBIT G. et MILLE G.; (1998) «Traitement d'asphaltènes pétroliers par fluide supercritique: Analyse qualitative et quantitative». Congrès de la Société Française de Chimie, 3 avril, 1998, Université de la Garde [Toulon, France](#).

26- BOUKIR A., GUILIANO M., DOUMENQ P. et MILLE G., (1998)
«Caractérisations structurales d'asphaltènes pétroliers par spectroscopie IRTF. Application à la photooxydation».
Congrès de la Société Française de Chimie, 3 avril, 1998, Université de la Garde [Toulon, France](#).

27- BOUKIR A., GUILIANO M., DOUMENQ P. et MILLE G.; (1997)
«Caractérisations structurales par spectroscopie IRTF et Fluorescence UV de Bruts pétroliers».
Congrès de la Société Française de Chimie, 4 avril 1997, Faculté des Sciences et Techniques de St Jerome, [Marseille, France](#).