

## Curriculum Vitae



**First Name** : NOUREDDINE  
**Last Name** : YASSAA  
**Date and place of birth** : 10/01/1973 in Algiers-ALGERIA-  
**Citizenship** : Algerian  
**Professional address** : Centre de Développement des Energies Renouvelables, CDER,  
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### EDUCATION

- 1991** High School Diploma in Mathematics “Baccalaureate”, with distinction, Algiers.  
**1995** High Studies Diploma in Chemistry (Baccalaureate + 4) – University of Sciences and Technology, U.S.T.H.B., Algiers- graduated first in the class of chemistry (1<sup>st</sup>/98 ).  
**1997** Magister in Chemistry (Applied Organic Chemistry). Thesis entitled “Analysis of volatile organic compounds in air”, U.S.T.H.B.-Algiers.  
**2001** Doctorate in Chemistry (Applied Organic Chemistry). Thesis entitled “Characterisation and quantification of volatile and particulate organic compounds from biogenic and anthropogenic sources in the atmosphere: Air quality in different Algerian sites”, U.S.T.H.B.-Algiers, subsequently with Institute of Air Pollution, National Scientific Council (CNR), Rome, Italy.

**HONOURS AND AWARDS**

- 1995** Honor Diploma in Chemistry, University of Sciences and Technology, U.S.T.H.B.-Algiers, for being graduated first in the class of Chemistry.
- 2002** Recipient of the “FOREM” (National Foundation for Health Progress and Medical Research Development) award for Outstanding achievements in the field of Health-Environment.
- 2003** Recipient of the National Conference of the Universities award for the best Young Researcher in Algeria.
- 2007** Recipient of the Algerian Ministry of Environment award.
- 2010** Recipient of the First CHEMRAWN VII (Chemical Research Applied for World Needs) Prize for Atmospheric and Green Chemistry” of IUPAC (International Union for Pure and Applied Chemistry).
- 2011** Recognition award from the General Directorate for Scientific Research and Technological Development (DG-RSDT).

**Languages written, read or spoken:** Arabic, French, English, Italian.

**Professional Positions**

- 2012-present:** Director, Centre de Développement des Energies Renouvelables, CDER, Algiers, Algeria (~900 employees).
- 2009-present:** Full Professor in Chemistry, Faculty of Chemistry, U.S.T.H.B., Algiers.
- 1997-present:** Enseignant-Chercheur or Research-Lecturer, Faculty of Chemistry, U.S.T.H.B., Algiers.
- 2008-2012:** , Group Leader “Analysis of Organic Pollutants in the Environment» in Laboratory of Analytical Organic Chemistry, Faculty of Chemistry, USTHB.
- 2008-2009:** Associate Professor in Chemistry, Faculty of Chemistry, U.S.T.H.B., Algiers, Algeria.
- 2008-2012:** Visiting Scientist, Department of Atmospheric Chemistry, Max-Planck Institute for Chemistry, Mainz, Germany.
- 2004-2008:** Research Scientist, Department of Atmospheric Chemistry, Max-Planck Institute for Chemistry, Mainz, Germany.
- 2010-present:** Associate Researcher in CNR (National Council of Research), Institute for Atmospheric Pollution, Rome, Italy.
- 1997-2004:** Assistant Professor in Chemistry, Faculty of Chemistry, U.S.T.H.B., Algiers, Algeria.
- 1996-1997:** Part-time Assistant Lecturer in Chemistry, Department of Pharmacy, University of Algiers, Algeria.
- 1998-2001:** Visiting Scientist in CNR (National Council of Research), Institute for Atmospheric Pollution, Rome, Italy.

**Advisory Committee**

- National Focal Point of IPCC (Intergovernmental Panel on Climate Change), 2014-present.
- National Designated Entity of CTCN (The Climate Technology Centre and Network) of United Nations Framework Convention on Climate Change, 2014-present.
- Scientific Adviser of the Algerian Negotiation Group on Climate Change.

- Focal Point of Ministry of Higher Education and Scientific Research for Climate Change.
- Member in the Climate National Committee, 2015-present.
- Member in the National Preparation Committee of INDCs, 2015-present.
- Member in the Scientific Steering Committee of the International Global Atmospheric Chemistry (IGAC) project under the umbrella of the International Geosphere-Biosphere Programme (IGBP) and is jointly sponsored by the international Commission on Atmospheric Chemistry and Global Pollution (iCACGP), 2014- present.
- Coordinator of the "Mediterranean Integrated Studies at Regional and Local Scales" (MISTRALS) Programme in Algeria.
- Coordinator of the ChArMEx (the Chemistry-Aerosol Mediterranean Experiment)/MISTRALS in Algeria.
- President of the Administration Council of National Agency for Valorisation of Research Results and Technological Development, 2014-prsent.
- Member in the National Committee for Validation of Scientific Publications, 2014-present.
- Member in the Inter-Ministerial Committee for Research (CIS), Raw Materials and Energy, 2014-present.
- Member in the Administration Council of National Agency for Promotion and Rationalization of Energy Use (APRUE, Ministry of Energy), 2015-present.
- Member in the Administration Council of National Centre for Clean Industrial Technology, Ministry of Environment, 2015-present.
- Member in the Scientific Council of CDER, 2012-present.
- Member in the Administration Council of CDER, 2012-present.
- Member in the National Council of Energy Management, 2012-present.
- Member in the Executive Office of the Algerian Energy Committee, 2012-present.
- Member in the "World Energy Resources Study Group, World Energy Council", 20014-present.
- Member in the Executive Office of the Arab Renewable Energy Commission, 2012-present.
- Member in the National Inter-Ministerial Committee in charge of the validation of National Action Plan for the Environment and Sustainable Development, PNAE-DD, 2013-present.
- Member of the National Climate Plan Committee, 2014-present,
- Member in the Steering Committee in the inter-ministerial project: "National Plan on Biological Diversity and implementation in Algeria of the Conservation Strategic Plan on the Biological Diversity 2011-2020 and the Aichi goals ", 2014-present.
- Member of the National Committee for setting up an Earth and Geosciences Observatory in Algeria, 2013- present.
- Member of the Committee on Education about Bioethics and the Responsible Conduct of Science in Algeria (US National Academy of Science), 2013-present.
- President of the Scientific Committee of the Department of Organic Chemistry, Faculty of Chemistry, USTHB, 2010-2013.
- Member of the Scientific Council of the Faculty of Chemistry, USTHB, 2010-2013.
- Member of the Review Panel of EuroVol (Ecology of Plant Volatiles, from Molecules to the Globe), European Science Foundation (ESF), 2010-2014.
- Member of the ESF Pool of Reviewers, 2010-2012.
- Member of several Expertise Committees of National Research Projects.
- Honorary Chair of Scientific Committees in several National and International Conferences.
- Member of several Organizing and Scientific Committees of Conferences.
- Member of the Scientific Council of the Faculty of Chemistry, USTHB, 2003-004.
- Member of the Scientific Committee of the Department of Organic Chemistry, Faculty of Chemistry, USTHB, 2003-2007.

- Member of the Quality Assurance Commission of USTHB, 2012-2014.
- Member of Steering Committee in many national and international projects.

### Editorial Activities

- Director of Publication, Revue des Energies Renouvelables (<http://www.cder.dz>), 2012-present.
- Director of Publication, Bulletin des Energies Renouvelables (<http://www.cder.dz>), 2012-present.
- Editorial Board, Atmospheric Measurement Techniques ([http://www.atmospheric-measurement-techniques.net/general\\_information/editorial\\_board.html](http://www.atmospheric-measurement-techniques.net/general_information/editorial_board.html)), 2013-present.
- Editorial Board: International Journal of Environmental Pollution and Solutions (<http://ijeps.uscip.us/EditorialBoard.aspx>), 2012-present.
- Assistant Editor: Journal of the Algerian Chemical Society, 2002-2004.
- Secretary: Bulletin of the Algerian Chemical Society (SAC *INFO*), 2003-2004.
- Reviewer in several journals.

### Research Interests

- Climate change, renewable energy, green economy and sustainable development;
- Measurement of reactive species-including aerosols- in field campaigns;
- Study of the atmosphere-biosphere and the atmosphere-ocean interactions under the changing climate;
- Study the impact of the Ocean acidification caused by climate change;
- Study the role of reactive gases and aerosols in chemical cycles and radiation transfer;
- Study of the presence and behavior of persistent organic pollutants (POPs) in the environment;
- Study the Sources, transport, and transformation of atmospheric trace gases in the global atmosphere;
- Air Pollution Monitoring ;
- Chemical characterization and source reconciliation of organic aerosols in urban, industrial and remote sites.
- Formation and accumulation on particles of mutagenic species, i.e. nitrated polycyclic aromatic hydrocarbons (nitro-PAH), formed by photochemical reaction.
- Development of sampling and analytical techniques for the study of atmospheric trace gases.

### Main International Research Projects

- QUEST-4: Quantification of Aerosol Nucleation in the European Boundary Layer, 2005.
- PeECE III: Pelagic Ecosystem CO<sub>2</sub> Enrichment Study, 2005. <http://peece.ifm-geomar.de/index2005.htm>.
- SOPRAN (Surface Ocean Processes in the Anthropocene), 2007-2011.
- OOMPH: Organics over the Ocean Modifying Particles in both Hemispheres, 2005-2007. <http://www.atmosphere.mpg.de/enid/oomph>;
- GABRIEL: Guyanas Atmosphere-Biosphere exchange and Radicals Intensive Experiment with the Learjet, 2005. <http://gemini.mpch-mainz.mpg.de/~scheeren/gabriel/>;
- High Altitude Long Range Research Aircraft (HALO), 2004-2009.
- DOMINO (Diel Oxidant Mechanism In relation to Nitrogen Oxides), Arenosillo (Huelva) Spain, 2008.

- HUMMPPA (Hyytiälä United Measurements of Photochemistry and Particles in Air), Hyytiälä, Finland, 2010.
- Coordinator of the ChArMEx (the Chemistry-Aerosol Mediterranean Experiment) project in Algeria, 2011-2015.
- Coordinator of the Tassili-Egide Algerian-French bilateral project with Laboratory of Environmental and Climate Science, Atomic Energy Commissariat: Setting up an Observatory of Atmospheric Chemical Composition in Algeria: A contribution to MISTRALS-CHARMEX Mediterranean network, (project N° 11MDU830), 2011-2015.
- Algerian Coordinator of REELCOOP (Research Cooperation in Renewable Energy Technologies for Electricity Generation), EU FP7 project, 2013-2017.
- Algerian Coordinator of the European project " Better", Bringing Europe and Third countries closer Together Through Renewable Energies, 2013-present.

## Teaching

- General Chemistry (1996-present)
- Organic Chemistry (2000-present)
- Analytical Chemistry (2000-present)
- Atmospheric Chemistry and climate change (2007-present)

## Supervising Magister and PhD students

Supervising several Master, Magister and doctor students.

## Selected peer-Reviewed Publications

### Peer-Reviewed Publications

#### 2015

1. PK Misztal, CN Hewitt, J Wildt, JD Blande, ASD Eller, S Fares, DR Gentner, JB Gilman, M Graus, J Greenberg, AB Guenther, A Hansel, P Harley, M Huang, K Jardine, T Karl, L Kaser, FN Keutsch, A Kiendler-Scharr, E Kleist, BM Lerner, T Li, J Mak, AC Nölscher, R Schnitzhofer, V Sinha, B Thornton, C Warneke, F Wegener, C Werner, J Williams, DR Worton, **N Yassaa** and AH Goldstein, Atmospheric benzenoid emissions from plants rival those from fossil fuels, *Nature Communication, Scientific Report*, 2015, 5:11520 | DOI: 10.1038/srep11520.
2. **N. Yassaa**, Urban air pollution may alter efforts to mitigate climate change, *Atmospheric Environment*, under review, 2015.
3. S. Khedidji, K. Croes, **N. Yassaa**, R. Ladji, M.S. Denison, W. Baeyens and M. Elskens, Assessment of dioxin-like activity in PM<sub>10</sub> air samples from an industrial location in Algeria, using the DRE-CALUX bioassay, *Chemosphere* 2015, under review.
4. A. Akbi, **N. Yassaa**, R. Boudjema, B. Aliouat, Cost of renewable energy production in Algeria: Benefits drawn from fossil fuel savings, *Renewable & Sustainable Energy Reviews*, 2015, under review.
5. **N. Yassaa**, Algeria renewable energy program: an overview and perspectives. *Renewable and Sustainable Energy Reviews*, 2015, under review.

#### 2014

6. E. Mesarchaki, **N. Yassaa**, D. Hein, H. Lutterbeck, H.W. Bange, J. Williams, A novel method for the measurement of VOCs in seawater using needle traps and GC-MS, *Marine Chemistry* 159, 1-8, 2014.
7. A. Boudghene Stambouli, Z. Khiat, S. Flazi, H. Tanemoto, M. Nakajima, H. Isoda, F. Yokoyama, S. Hannachi, K. Kurokawa, M. Shimizu, H. Koinuma, **N. Yassaa**, Trends and challenges of sustainable energy and water research in North Africa: Sahara solar breeder concerns at the intersection of energy/water, *Renewable and Sustainable Energy Reviews* 30, 912-922, 2014.
8. R. Ladj, N. Yassaa, C. Balducci, A. Cecinato, Particle size distribution of n-alkanes and polycyclic aromatic hydrocarbons (PAHs) in urban and industrial aerosols of Algiers, Algeria, *Atmospheric Pollution and Research* 21, 1819-1832, 2014.
9. C. Balducci, R. Ladj, V. Muto, P. Romagnoli, **N. Yassaa**, A. Cecinato, Biogenic and anthropogenic organic components of Saharan sands, chemosphere, in press, 2014.

### 2013

10. S. Khedidji, R. Ladj, **N. Yassaa**, «A wintertime study of polycyclic aromatic hydrocarbons indoor and outdoor air of a big student residence in Algiers, Algeria », *Atmospheric Pollution and Research* 20, 4906-4919, 2013.
11. Y. Foudil-Cherif, **N. Yassaa**, « Essential Oil Composition and Enantiomeric Distribution of Monoterpenes in the Volatile Fraction of Algerian Myrtle (*Myrtus Communis* L.) Leaves», *Journal of Essential Oils Research* 25 (5) , 401-407, 2013.

### 2012

12. **N. Yassaa**, W. Song, J. Lelieveld, A. Vanhatalo, J. Bäck, J. Williams, Diel cycles of isoprenoids in the emissions of Norway spruce, different Scots pine chemotypes, and in Boreal forest ambient air during HUMPPA-COPEC-2010, *Atmospheric Chemistry and Physics* 12, 7215-7229, 2012.
13. Y. Foudil-Cherif, **N. Yassaa**, «Enantiomeric and non-enantiomeric monoterpenes of *Juniperus communis* L. and *Juniperus oxycedrus* needles and berries determined by HS-SPME and enantioselective GC/MS », *Food Chemistry* 135, 1796-1800, 2012.
14. B.J.H. van Stratum, J. Vil`a-Guerau de Arellano, K. van den Dries, H. G. Ouwersloot, T.W. van Laar, M. Martinez, J. Lelieveld, J.-M. Diesch, F. Drewnick, Z. Hosaynali Beygi, H. Fischer, E. Regelin, H. Harder, V. Sinha, J.A. Adame Carnero, M. Sörgel, R. Sander, H. Bozem, W. Song, J. Williams, and **N. Yassaa**, « Study of the diurnal variability of atmospheric chemistry with respect to boundary layer dynamics during DOMINO », *Atmospheric Chemistry and Physics* 12, 5329-5341, 2012.

### 2011

15. **N. Yassaa**, P. Ciccioli, E. Brancaleoni, F. Frattoni, B.Y. Meklati, «Ambient measurements of selected VOCs in populated and remote sites of the sahara desert », *Atmospheric Research*, 100, 2011, 141-146.
16. W. Song, J. Williams, **N. Yassaa**, E. Regelin, H. Harder, M. Martinez, J.A.A. Carnero, P.H. Fernandez, H. Bozem, H. Fisher, J. Lelieveld, “Characterization of enantiomeric monoterpenes and anthropogenic BTEX compounds at a Mediterranean Stone pine Forest site in Southern Spain”, *Journal of Atmospheric Chemistry* 68, 233-250, 2011.
17. J. N. Crowley, J. Thieser, M. Tang, G. Schuster, H. Bozem, Z. Hosaynali Beygi, H. Fischer, J. Diesch, F. Drewnick, S. Borrmann, W. Song, **N. Yassaa**, J. Williams, D. Pöhler, U. Platt, J. Lelieveld, “Variable lifetimes and loss mechanisms for NO<sub>3</sub> and N<sub>2</sub>O<sub>5</sub> during the

DOMINO campaign: Contrasts between marine, urban and continental air” *Atmospheric Chemistry and Physics* 11, 10853-10870, 2011

18. J. Williams, J. Crowley, H. Fischer, H. Harder, M. Martinez, T. Petäjä, J. Rinne, J. Bäck, M. Boy, M. Dal Maso, J. Aalto, H. Aaltonen, J. Hakala, M. Kajos, P. Keronen, P. Rantala, J. Levula, T. Pohja, H. Hakola, J. Paatero, T. Vesala, F. Herrmann, J. Auld, E. Mesarchaki, W. Song, N. Yassaa, A. Nölscher, A.M. Johnson, T. Custer, V. Sinha, J. Thieser, N. Pouvesle, D. Taraborrelli, M.J. Tang, H. Bozem, Z. Hosaynali-Beygi, R. Axinte, R. Oswald, A. Novelli, D. Kubistin, K. Hens, U. Jeved, K. Trawny, C. Breitenberger, P.J. Hidalgo, G.J. Ebben, F.M. Geiger, A. L. Corrigan, L.M. Russell, H.G. Ouwersloot, J. Vilà-Guerau de Arellano, L. Ganzeveld, A. Vogel, M. Beck, A. Bayerle, C.J. Kampf, M. Bertelmann, F. Köllner, T. Hoffmann, J. Valverde, D. González, M.-L. Riekkola, M. Kulmala, J. Lelieveld. “The summertime Boreal forest field measurement intensive (HUMPPA-COPEC-2010): an overview of meteorological and chemical influences. *Atmospheric Chemistry and Physics* 11, 10599-10618, 2011.

## 2010

19. N. Yassaa, T. Custer, W. Song, F. Pech, J. Kesselmeier, J. Williams, “Quantitative and enantioselective analysis of monoterpenes from plant chambers and in ambient air using SPME”, *Atmospheric Measurement Techniques* 3, 1615-1627, 2010.
20. R. Ladj, N. Yassaa, C. Balducci, A. Cecinato, “Organic components of Algerian desert dust”, *Chemosphere* 81, 925-931, 2010.
21. J. Williams, T. Custer, H. Riede, R. Sander, P. Jöckel, P. Hoor, S. Wong-Zehnpfennig, Z. Hosaynali Beygi, H. Fischer, V. Gros, A. Colomb, B. Bonsang, N. Yassaa, I. Peeken, E. Atlas, C. Waluda, J. van Aardenne, J. Lelieveld, “Ozone over the Southern Oceans is exceptionally sensitive to ship exhausts”, *Environmental Chemistry*, 2010, 7, 171-182.
22. B. Bonsang, V. Gros, I. Peeken, N. Yassaa, E. Zöllner, K. Bluhm, R. Sarda-Esteve, J. Williams, “ Isoprene emission from phytoplankton monocultures, relationship with chlorophyll, cell volume, and carbon content”, *Environmental Chemistry*, 2010, 7, 554-563.

## 2009

23. N. Yassaa, A. Wishkerman, F. Keppler, J. Williams “A method for the fast determination of methyl chloride and methyl bromide emissions from plant leaf litter, soil and salt samples using HS-SPME and GC-MS”, *Environmental Chemistry* 6, 311-318, 2009.
24. R. Ladj, N. Yassaa, C. Balducci, A. Cecinato and B.Y. Meklati, « Distribution of the solvent extractable organic compounds in fine (PM1) and coarse (PM1-10) particles in urban, industrial and forest atmospheres of Northern Algeria », *Science of the Total Environment* 408 (2009), 415-424.
25. R. Ladj, N. Yassaa, C. Balducci, A. Cecinato and B.Y. Meklati, « Annual variation of particulate organic compounds in PM<sub>10</sub> in urban atmosphere of Algiers », *Atmospheric Research* 92, 2009, 258-269.
26. G. Eerdekens, N. Yassaa, V. Sinha, P. P. Aalto, H. Aufmhoff, F. Arnold, M. Kulmala, J. Williams, “VOC measurements within a boreal forest during spring 2005: the role of monoterpenes in selected intense nucleation events (source inventory)”, *Atmospheric Chemistry and Physics* 9, 8331-8350, 2009.
27. S.R. Arnold, D.V. Spracklen, J. Williams, N. Yassaa, J. Sciare C., B. Bonsang, V. Gros, I. Peeken, S. Alvaïn, C. Moulin, “Isoprene emissions from speciated phytoplankton and impacts on marine organic carbon”, *Atmospheric Chemistry and Physics* 9, 1253-1262, 2009.



28. G. Eerdekens, L. Ganzeveld, J. Vilà-Guerau de Arellano, T. Klüpfel, V. Sinha, **N. Yassaa**, J. Williams, J. Lelieveld, “Flux estimates of isoprene, methanol and acetone from airborne PTR-MS measurements above the Tropical rainforest during the GABRIEL 2005 campaign”, *Atmospheric Chemistry and Physics* 9, 4207-4227, 2009.

## 2008

29. **N. Yassaa**, I. Peeken, E. Zöllner, K. Bluhm, S. Arnold, D. Spracklen, J. Williams, « Evidence for marine production of monoterpenes », *Environmental Chemistry* 5, 2008, 391-401.
30. A. Colomb, **N. Yassaa**, K. Lochte, I. Peeken, J. Williams, « Screening volatile organic compounds (VOCs) emissions from five phytoplankton species by headspace gas chromatography-mass spectrometry (HS-GC/MS) », *Journal of Environmental Monitoring* 10, 2008, 325-330. Highlighted by Chemical Science 2008, N°3 « something fishy in the air » and in Chemistry World, 14 February 2008.
31. M. Vogt, S. Turner, **N. Yassaa**, M. Steinke, J. Williams, P. Liss, « Laboratory inter-comparison of dissolved dimethyl sulphide (DMS) measurements using purge-and-trap and solid-phase microextraction techniques during a mesocosm experiment », *Marine Chemistry* 108, 2008, 32-39.

## 2007

32. **N. Yassaa** and J. Williams, « Enantiomeric monoterpene emissions from natural and damaged Scots pine in a boreal coniferous forest measured using solid-phase microextraction and gas chromatography/mass spectrometry », *Journal of Chromatography A* 1141, 138-144, 2007.
33. J. Williams, **N. Yassaa**, S. Bartenbach, J. Lelieveld, « Mirror image hydrocarbons from Tropical and Boreal forests », *Atmospheric Chemistry and Physics* 7, 973-980, 2007. **Highlighted by “Nature” as Views and News, Vol. 446, 26 April 2007, page 991.**
34. R. Ladjji, **N. Yassaa**, A. Cecinato and B.Y. Meklati, « Chemical characterisation and seasonal variation of particulate organic compounds in atmospheric PM<sub>10</sub> in the biggest municipal waste landfill of Algeria », *Atmospheric Research* 86, 2007, 249-260.
35. A. Stickler, H. Fischer, H. Bozem, C. Gurk, C. Schiller, M. Martinez-Harder, D. Kubistin, H. Harder, J. Williams, G. Eerdekens, **N. Yassaa**, L. Ganzeveld, R. Sander, J. Lelieveld, « Chemistry, transport and dry deposition of trace gases in the boundary layer over the tropical Atlantic Ocean and the Guyanas during the GABRIEL field campaign », *Atmospheric Chemistry and Physics* 7, 3933-3956, 2007.
36. J. Williams, V. Gros, E. Atlas, K. Maciejczyk, A. Batsaikhan, H. Schöler, C. Forster, B. Quack, **N. Yassaa**, R. Sander and R. van Dingenen, « Possible evidence for a connection between methyl iodide emissions and Saharan dust », *Journal of Geophysical Research-Atmosphere*, 2007, vol. 112, DO7302, doi: 10.1029/2005JD006702.

## 2006

37. **N. Yassaa**, A. Colomb, K. Lochte, I. Peeken, J. Williams, « Determination of Dimethylsulfide (DMS) emitted by eight marine phytoplankton species using HS-SPME and gas chromatography/mass spectrometry », *Limnology and Oceanography: Methods* 4, 2006, 374-381.
38. **N. Yassaa**, E. Brancaleoni, M. Frattoni and P. Ciccioli, « Isomeric analysis of BTEXs in the atmosphere using  $\beta$ -cyclodextrin capillary chromatography coupled with thermal desorption and mass spectrometry », *Chemosphere* 63, 2006, 502-508.

## 2005



39. N. Yassaa and A. Cecinato, « Composition of torched crude oil organic particulate emitted by refinery and its similarity to atmospheric aerosol in the surrounding area », *Chemosphere* 60, 2005, 1660-1666.
40. N. Yassaa and J. Williams, « Analysis of the enantiomeric composition of monoterpenes in plant emissions using portable dynamic sample/SPME and chiral gas chromatography/mass spectrometry », *Atmospheric Environment* 39, 2005, 4875-4884.
41. N. Yassaa and A. Cecinato, « Composition of extractable organic matter in airborne at a location of 10 km south of Algiers city area, Algeria », *Fresenius' Environmental Bulletin*, 14, 2005, 676-680.

## 2002

42. A. Cecinato, N. Yassaa, V. Di Paolo and M. Possanzini, « Observation of volatile and semi-volatile carbonyls in an Algerian urban environment using dinitrophenyl hydrazine/silica-HPLC and pentafluorophenylhydrazine/silica-GC-MS », *Journal of Environmental Monitoring* 4 (2), 2002, 223-228.

## 2001

43. N. Yassaa, B.Y. Meklati and A. Cecinato, « Chemical characteristics of organic aerosols in Algiers city area. Influence of a fat manufacture plant », *Atmospheric Environment* 35 (34), 2001, 6003-6013.
44. N. Yassaa, B.Y. Meklati and A. Cecinato, « Particulate *n*-alkanes, *n*-alkanoic acids and polycyclic aromatic hydrocarbons in the atmosphere of Algiers City Area », *Atmospheric Environment* 35 (10), 2001, 1843-1851.
45. N. Yassaa, B.Y. Meklati, E. Brancaleoni, M. Frattoni and P. Ciccioli, « Polar and non-polar volatile organic compounds (VOCs) in urban Algiers and saharian sites of Algeria », *Atmospheric Environment* 35 (4), 2001, 787-801.
46. N. Yassaa, B.Y. Meklati, A. Cecinato and F. Marino, « Organic aerosols in urban and waste landfill of Algiers metropolitan area : occurrence and sources », *Environmental Science & Technology* 35 (2), 2001, 306-311.
47. N. Yassaa, E. Brancaleoni, M. Frattoni and P. Ciccioli, « Trace level determination of enantiomeric monoterpenes in terrestrial plant emission and in the atmosphere using  $\beta$ -cyclodextrin capillary chromatography coupled with thermal desorption and mass spectrometry », *Journal of Chromatography A* 915, 2001, 185-197.
48. N. Yassaa, B.Y. Meklati, A. Cecinato and F. Marino, « Chemical characteristics of organic aerosol in Bab-Ezzouar (Algiers). Contribution of bituminous product manufacture », *Chemosphere* 45 (3), 2001, 315-322.
49. N. Yassaa, B.Y. Meklati, A. Cecinato and F. Marino, « Organic content of particulate matter in Ouargla city, Algeria », *Annali di Chimica* 91, 2001, 577-585.

## 2000

50. N. Yassaa, B.Y. Meklati and A. Cecinato, « Evaluation of monoterpene biogenic volatile organic compounds in ambient air around *Eucalyptus globulus*, *Pinus halepensis* and *Cedrus atlantica* trees growing in Algiers city area by chiral and achiral capillary gas chromatography », *Atmospheric Environment* 34 (17), 2000, 2809-2816.

## 1999

51. N. Yassaa, B.Y. Meklati and A. Cecinato, « Analysis of volatile organic compounds in ambient air of Algiers by gas chromatography with a  $\beta$ -cyclodextrin capillary column », *Journal of Chromatography A* 846, 1999, 287-293.

52. **N. Yassaa**, B.Y. Meklati, N. Spahis and A. Addoun, « Utilisation de charbons actifs locaux dans l'échantillonnage des polluants organiques de l'air. Etude par CPG », *Journal of Algerian Chemical Society* 9 (2), 1999, 193-202.
53. **N. Yassaa**, B.Y. Meklati and A. Cecinato, « Qualitative evaluation of monocyclic aromatic hydrocarbons in urban air of Algiers by two extraction techniques », *Pollution Atmosphérique* 164, 1999, 93-102.

#### 1997

54. **N. Yassaa** and B.Y. Meklati, « Etude de micropolluants organiques dans l'atmosphère urbaine », *SANTE PLUS* N° 59, Novembre-Décembre 1997, 16-19.

### Publications in conference proceedings

#### 2011

55. S. Khedidji, R. Ladj, **N. Yassaa**, « Monitoring of polycyclic aromatic hydrocarbons in atmospheric aerosols of Algiers city area : occurrence and size distribution », International Proceedings of Chemical, Biological & Environmental Engineering, Vol. 24, pp. 304-308, Edited by Wu Kaijin, IACSIT Press, Singapore, 2011.
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