

Curriculum Vitae



First Name : Nouredine

Family Name : YASSAA

Date and place of birth : 10 / 01 / 1973, Algiers,
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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, USTHB, Algiers-graduated first in the class of chemistry (1st/98).

1997 Magister in Chemistry (Applied Organic Chemistry), USTHB, Algiers.

2001 Doctorate in Chemistry (Applied Organic Chemistry), USTHB, Algiers, subsequently with the Institute of Air Pollution, National Scientific Council (CNR), Rome, Italy.

Languages written, read or spoken: Arabic, French, English, Italian, German (basic level).

Professional Positions

- 2019-present** *Commissioner for Renewable Energy and Energy Efficiency*, under the authority of the Prime Minister, Algiers, Algeria.
- 2012-2019** *Director, Centre for Renewable Energy Development, CDER, Algiers, Algeria (~850 employees)*, among the largest research institution in Algeria and North Africa.
- 2015-present** *IPCC Working Group I Vice-Chair.*
- 2009-present** *Professor*, Faculty of Chemistry, University of Sciences and Technology Houari Boumediene, USTHB, 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.
- 2001-2004** *Visiting Scientist* at CNR (National Council of Research), Institute for Atmospheric Pollution, Rome, Italy.
- 2003-2004** *Associate Professor*, Faculty of Chemistry, USTHB, Algiers, Algeria.
- 1997-2003** *Assistant Professor*, Faculty of Chemistry, USTHB, Algiers, Algeria.

OTHER PROFESSIONAL ACTIVITIES

International

- National Focal Point of *IPCC (Intergovernmental Panel on Climate Change)*, 2014-2015.
- National Designated Entity of *CTCN (The Climate Technology Centre and Network) of the United Nations Framework Convention on Climate Change*, 2014-present.
- Member of *the Algerian United Nations Framework Convention on Climate Change's (UNFCCC) negotiating team*, 2012-2015.
- Member of *the "World Energy Resources Study Group, World Energy Council"*, 20014- 2018.
- Member of *the Scientific Steering Committee of the International Global Atmospheric Chemistry (IGAC) project, Future Earth*, 2014- 2018.
- Algerian National Contact Point for *the European Horizon 2020 Research & Innovation programme*, 2018-2019.
- Member of *the Review Panel, European Science Foundation (ESF)*, 2010-2014.

African

- Member of *the Governing Committee of the Joint African Union - European Union Research Program on Renewable Energy « Preparing for Long-Term Joint EU-AU Research and Innovation Partnership on Renewable Energy »*, 2018-2019.
- A founding member of *the African Group on Atmospheric Sciences (ANGA)*.

- Reviewer of *the Integrated assessment of air pollution and climate change for sustainable development in Africa, United Nations Environment Programme*, 2022.
- Associate Editor, *Clean Air Journal*, 2016-present.

Regional

- Member of *the Board of Trustees of the Regional Center for Renewable Energy and Energy Efficiency (RCREEE)*, 2021-present.
- Member of *the Arab Nations Expert Committee on Renewable Energy and Energy Efficiency, Arab League (League of Arab States)*, 2021-present.
- A founder member of *the Arab Renewable Energy Commission and member of its Council of Sages*, 2012-present.
- Member of *the Energy Transition Committee, Observatoire Méditerranéen de l'Energie (Mediterranean Energy Observatory)*, 2012-present.
- Member of *the Arab Maghreb Union Expert Committee in charge of evaluating the situation of the Maghreb University and the Maghreb Academy of Sciences*, 2015-2019.
- Coordinator of *the "Mediterranean Integrated Studies at Regional and Local Scales" (MISTRALS) Programme in Algeria*, 2012-2019.
- Coordinator of *the ChArMEx (the Chemistry-Aerosol Mediterranean Experiment)/MISTRALS in Algeria*, 2011-2019.

National

- President of *the Inter-Ministerial Committee for Research (CIS), Raw Materials and Energy*, 2018-2019.
- Member of *the Inter-Ministerial Committee for Research (CIS), Raw Materials and Energy*, 2014-2018.
- President of *the Board of Trustees of the National Agency for Valorisation of Research Results and Technological Development*, 2014-2019.
- Member of *the Inter-Ministerial Committee for Energy Management*, 2012-2019.
- Member of *the Executive Bureau of the Algerian Energy Committee*, 2012-2019.
- Member of *the Board of Trustees of the National Agency for Promotion and Rationalization of Energy Use (APRUE, Ministry of Energy), Ministry of Energy*, 2015-2018.
- Member of *the Board of Trustees of the National Centre for Clean Industrial Technology, Ministry of Environment*, 2015-2018.
- Member of *the National Climate Committee*, 2015-2019.
- Member of *the National Climate Plan Committee*, 2014-2019.
- Member of *the National Committee tasked or the elaboration of the Algerian Intended Nationally Determined Contributions (INDC-Algeria)*, 2014-2015.
- Focal Point of *the Ministry of Higher Education and Scientific Research for Climate Change*, 2012-2019.

- Member of *the National Inter-Ministerial Committee in charge of the validation of National Action Plan for the Environment and Sustainable Development, PNAE-DD*, 2013-2016.
- Member of *the National Committee for the actualization of the National Territorial Management Scheme*, 2015-2019.
- Member of *the National Committee for Validation of Scientific Publications*, 2014-2019.
- Member of *the National Committee for the actualization of the Higher Education Cartography in Algeria*, 2018-2019.
- Member of *the National Committee for setting up an Earth and Geosciences Observatory in Algeria*, 2013- 2019.
- Member of *the Committee on Education about Bioethics and the Responsible Conduct of Science in Algeria (US National Academy of Science)*, 2013-2016.
- Member of *the Scientific Council of CDER*, 2012-2019.
- Member of *the Board of Trustees of CDER*, 2012-2019.
- 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 Scientific Council of the Faculty of Chemistry, USTHB*, 2003-2004.
- 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 *the Steering Committees in many national and international projects*. Member of several *Expertise Committees of National Research Projects*.
- Member of several *Organizing and Scientific Committees of Conferences*.
- Honorary Chair of *the Scientific Committees in several National and International Conferences*.

FIELD OF EXPERTISE

Renewable Energy, Energy Efficiency, Energy Transition, Climate Change, Sustainable Development, Energy Geopolitics, Environment, Atmospheric Science.

PROJECTS, PROGRAMMES AND PLANS

- ✓ Responsible of several programmes in the field of renewable energy and energy efficiency involving multiple sectors ; energy, building, transport, agriculture, environment,...
- ✓ Contribution to the elaboration of the Algerian Energy Transition Strategy.
- ✓ Contribution to the elaboration of the Algerian Roadmap for Hydrogen Development.
- ✓ Responsible for conducting a Clean and Sustainable Mobility study in Algeria.
- ✓ Responsible of the quality infrastructure projects for solar PV and water solar heaters at CDER.

- ✓ Responsible for the deployment of ongrid and offgrid renewable energy projects at scale of Kilowatts to Megawatts.
- ✓ Responsible in Algeria of "Mena Hybrid Solar system, EranetMed project", 2017-2019.
- ✓ Responsible in Algeria of the European project FP7 « REELCOOP », Research Cooperation in Renewable Energy Technologies for Electricity Generation, 2013-2017.
- ✓ Responsible in Algeria of European project FP7 "Better", Bringing Europe and Third countries closer Together Through Renewable Energies, 2013-2017.
- ✓ 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.
- ✓ Participation to many field campaigns in the Desert Sahara and Sahel, the Southern and Northern Atlantic Oceans, Indian Ocean, the Temporal, Boreal and Tropical Forests, ...
- ✓ Responsible of many research programmes at national and international levels.

EDITORIAL ACTIVITIES

- Director of Publication, « Revue des Energies Renouvelables » (<http://www.cder.dz>), 2012-2019.
- Director of Publication, « Bulletin des Energies Renouvelables » (<http://www.cder.dz>), 2012-2019.
- Editorial Board, Atmospheric Measurement Techniques (http://www.atmospheric-measurement-techniques.net/general_information/editorial_board.html), 2013-2019.
- Editorial Board (Editorial Advisory Board) Clean Air Journal, published in South Africa, <http://www.cleanairjournal.org.za/board/index.php>, 2016- present.
- Reviewer of the Renewables Global Status Report, REN21, 2016-present.
- Reviewer in several journals.

PUBLICATIONS

IPCC PUBLICATIONS

- ❖ **Participation** in the elaboration of IPCC special reports and assessment reports during the sixth cycle.
- ❖ **Author** of the Summary for Policymakers and Executive Summary, IPCC Special Report on Climate Change and Land: An IPCC Special Report on Climate Change, Desertification, Land Degradation, Sustainable Land Management, Food Security, and Greenhouse gas fluxes in Terrestrial Ecosystems, published in 8 August 2019.
- ❖ **Author** of the Summary for Policymakers, The Physical Science Basis, Working Group I contribution to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, August 2021.
- ❖ **Review Editor** of Chapter 6: Short-Lived Climate Forcers, Working Group I contribution to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change IPCC WGI Sixth Assessment Report, August 2021.
- ❖ **Review Editor** of the Summary for Policymakers and longer report of the IPCC Synthesis Report.
- ❖ **Author** of the report of the Expert Meeting on Short-lived Climate Forcers, 2018.
- ❖ **Author** of the report of the Joint 1st and 2nd IPCC Expert Meeting on Short-lived Climate Forcers, 2021.
- ❖ **Author** of the report of the 3rd IPCC Expert Meeting on Short-lived Climate Forcers, 2022.
- ❖ **Member** of the Scientific Steering Committee: IPCC Special Report on Climate Change and Land, IPCC Synthesis Report, Expert Meeting on Short-lived Climate Forcers.

Contributions to improving IPCC process

- ❖ **Member** of the Informal Group on Publications (IGPubs).

Peer-Reviewed Publications

As to 6.5.2023:

Scopus: more than 74 peer-reviewed papers, h-index= 27, more than 2090 citations.
Google Scholar, h-index=32, i10-index=58, more than 3000 citations.

2023

1. A Dajuma, M Bamba Sylla, M Tall, M Almazroui, N Yassaa, A Diedhiou and F Giorgi, Projected expansion of hottest climate zones over Africa during the Mid and late 21st century, Environmental Research: Climate 2 (2023) 025002.
2. A Boudghene Stambouli, T benmessaoud, N Yassaa, Green Hydrogen and its role in the Algerian energy transition, 2023, under review.
3. L Rabhi, A Lemou, R Ladji, JB Nicolas, N Bonnaire, J Sciare, N Mihalopoulos, N Yassaa, Size distribution of water-soluble ions in the Southwest Mediterranean Basin: results from the ChArMEx project, 2023, under review.

4. S Khedidji, C Balducci, L Rabhi, A Cecinato, R Ladji, **N Yassaa**, Influence of the partitioning of the organic compounds in air on the worker health risk assessment: A study case in a paint manufacturing, 2023, under review.

2021

5. M Chikh, S Berkane, A Mahrane, R Sellami, **N Yassaa**, Performance assessment of a 400 kWp multi-technology photovoltaic grid-connected pilot plant in arid region of Algeria, *Renewable Energy* 172, 488-501, 2021.

2020

6. A Lemou, L Rabhi, H Merabet, R Ladji, JB Nicolas, N Bonnaire, Mohamed Abou Mustapha, Redha Dilmi, Jean Sciare, Nikolaos Mihalopoulos, **Noureddine Yassaa**, Chemical characterization of fine particles (PM_{2.5}) at a coastal site in the South Western Mediterranean during the ChArMex experiment, *Environmental Science and Pollution Research* 27, 20427-20445, 2020.
7. S Khedidji, K Müller, L Rabhi, G Spindler, KW Fomba, D van Pinxteren, **Noureddine Yassaa**, Hartmut Herrmann, Chemical Characterization of Marine Aerosols in a South Mediterranean Coastal Area Located in Bou Ismaïl, Algeria, *Aerosol and Air Quality Research* 20 (11), 2448-2473, 2020.
8. I Vamvakas, V Salamalikis, D Benitez, A Al-Salaymeh, S Bouaichaoui, **Noureddine Yassaa**, AmenAllah Guizani, Andreas Kazantzidis, Estimation of global horizontal irradiance using satellite-derived data across Middle East-North Africa: The role of aerosol optical properties and site-adaptation methodologies, *Renewable Energy* 157, 312-33, 2020.
9. O Guerri, A Dali, SM Boudia, **N Yassaa**, Performance evaluation of a wind farm using different power density distributions, *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 1-13, 2020.
10. A Lemou, L Rabhi, N Cherifi, R Ladji, **N Yassaa**, *Algerian Journal of Environmental Science and Technology* 6 (3), 2020.
11. N Oucher, R Kerbach, G Passerini, S Carletti, **N Yassaa**, Ozone photochemical pollution over the Northe of Algeria: Cartography and modelling, *WIT Transactions on Ecology and the Environment* 244, 125-136, 2020.

2019

12. S Louassa, O Guerri, A Kaabeche, **N Yassaa**, Effects of local ambient air temperatures on wind park performance: case of the Kaberten wind park, *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 1-14, 2019.
13. H Merabet, R Kerbach, N Mihalopoulos, I Stavroulas, M Kanakidou, **N. Yassaa**, Measurement of atmospheric black carbon in some South Mediterranean cities: Seasonal variations and source apportionment, *Clean Air Journal* 29 (2), 1-19, 2019.

2018

14. L Rabhi, A Lemou, A Cecinato, C Balducci, N Cherifi, R Ladji, **N Yassaa**, Polycyclic aromatic hydrocarbons, phthalates, parabens and other environmental contaminants in dust and suspended particulates of Algiers, Algeria, *Environmental Science and Pollution Research* 25, 24253-24265

15. K Abdeladim, S Bouchakour, AH Arab, SO Amrouche, **N Yassaa**, Promotion of renewable energy in some MENA region countries, IOP Conference Series: Earth and Environmental Science 154 (1), 012003, 2018.
16. S Semaoui, K Abdeladim, AH Arab, S Boulahchich, SO Amrouche, **N Yassaa**, Experimental grid connected PV system power analysis, AIP Conference Proceedings 1968 (1), 030032, 2018.
17. AH Arab, IH Mahammed, SO Amrouche, B Taghezouit, **N Yassaa**, Performance degradation of photovoltaic modules at different sites, IOP Conference Series: Earth and Environmental Science 154 (1), 012005, 2018.
18. K Assami, R Ladj, Y Moussaoui, **N Yassaa**, BY Meklati, Influence of car body repair activities on particulate matter pollution in a suburban area (Bouzaréah City, Algiers), International Journal of Environmental Science and Technology 15, 1019-1028, 2018.

2017

19. S. Khedidji, C. Balducci, R. Ladj, A. Cecinato, M. Perilli, **N. Yassaa**, Chemical composition of particulate organic matter at industrial, university and forest areas in Bouira province, Algeria, Atmospheric Pollution Research 8, 474-482, 2017.
20. A. Akbi, M. Saber, M. Aziza, **N. Yassaa**, An overview of sustainable bioenergy potential in Algeria, Renewable and Sustainable Energy Reviews 72, 240-245, 2017.
21. AH Arab, S Bouchakour, SO Amrouche, K Abdeladim, S Semaoui, B Taghezouit, A Razagui, S Boulahchiche, F Tobbal, **N Yassaa**, Qualité de la tension au point d'injection du système photovoltaïque du CDER, Journal of Renewable Energies 20 (1), 1-9, 2017.
22. SO Amrouche, SH Saidj, S Boumechta, AH Arab, K Abdeladim, S Bouchakour, **N Yassaa**, Distributed photovoltaic systems in Algeria and control of DC-DC converters for grid integration-an overview, Energy Procedia 136, 356-361, 2017.
23. N Ouafi, H Moghrani, N Benaouda, **N Yassaa**, R Maachi, Evaluation qualitative et quantitative de la qualité des feuilles de Laurier noble Algérien séchées dans un séchoir solaire convectif, Journal of Renewable Energies 20 (1), 161-168, 2017.
24. AH Arab, S Bouchakour, K Abdeladim, SO Amrouche, S Semaoui, B Taghezouit, **N Yassaa**, Connection of the CDER-Algiers photovoltaic system to low-voltage distribution grid, Energy Procedia 136, 145-150
25. S Khedidji, K Croes, **N Yassaa**, R Ladj, MS Denison, W Baeyens, Marc Elskens, Assessment of dioxin-like activity in PM₁₀ air samples from an industrial location in Algeria, using the DRE-CALUX bioassay, Environmental Science and Pollution Research 24, 11868-11877, 2017.

2016

26. **N. Yassaa**, Air pollution may alter efforts to mitigate climate change, Atmospheric Environment 127, 2016, 221-222.
27. A. Akbi, **N. Yassaa**, R. Boudjema, B. Aliouat, A new method for cost of renewable energy production in Algeria: Integrate all benefits drawn from fossil fuel savings, Renewable & Sustainable Energy Reviews 56, 2016, 1150-1157.

28. N. Ouafi, N. Benaouda, H. Moghrani, **N. Yassaa**, R. Maachi, Experimental analysis of solar drying kinetic of Algerian bay leaves (*Laurus nobilis* L.), *Revue des Energies Renouvelables* 19, 251-264, 2016.
29. D. Schüler, S. Wilbert, N. Geuder, R. Affolter, F. Wolfertstetter, C. Prah, M. Röger, M. Schroedter-Homscheidt, G. Abdellatif, A. Allah Guizani, M. Balghouthi, A. Khalil, A. Mezrhab, A. Al-Salaymeh, **N. Yassaa**, F. Chellali, D. Draou, P. Blanc, J. Dubranna, O. M. K. Sabry, The enerMENA Meteorological Network – Solar Radiation Measurements in the MENA Region, DOI: 10.1063/1.4949240, 2016. Conference: SOLARPACES 2015: International Conference on Concentrating Solar Power and Chemical Energy Systems.

2015

30. S. Khedidji, K. Croes, **N. Yassaa**, R. Ladj, M.S. Denison, W. Baeyens and M. Elskens, Assessment of dioxin-like activity in PM₁₀ air samples from an industrial location in Algeria, using the DRE-CALUX bioassay, *Environmental Science and Pollution Research*, DOI 10.1007/s11356-015-5841-4, 2015.
31. 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, Scientific Reports*, 5:12064 | DOI: 10.1038/srep12064, 2015.
32. N. Ouafia, H. Moghrani, N. Benaouada, **N. Yassaa**, R. Maachi, R.Younsi, Moisture sorption isotherms and heat of Algerian Bay Leaves (*Laurus nobilis*) Maderas. *Ciencia y Tecnología* 17(4), 759 - 772, 2015.
33. F.N. Allouche, **N. Yassaa**, H. Lounici, Sorption of Methyl Orange from Aqueous Solution on Chitosan Biomass , *Procedia Earth and Planetary Science* 15, 596-601, 2015.

2014

34. 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.
35. 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.
36. 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.
37. 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

38. S. Khedidji, R. Ladji, **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.
39. 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

40. **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.
41. 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.
42. 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

43. **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.
44. 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.
45. 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 NO₃ and N₂O₅ during the DOMINO campaign: Contrasts between marine, urban and continental air” *Atmospheric Chemistry and Physics* 11, 10853-10870, 2011
46. 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. Javed, 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.
47. S. Khedidji, R. Ladji, 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.

2010

48. 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.
49. R. Ladji, N. Yassaa, C. Balducci, A. Cecinato, "Organic components of Algerian desert dust", *Chemosphere* 81, 925-931, 2010.
50. 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.
51. 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

52. 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.
53. R. Ladji, 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.
54. R. Ladji, N. Yassaa, C. Balducci, A. Cecinato and B.Y. Meklati, « Annual variation of particulate organic compounds in PM₁₀ in urban atmosphere of Algiers », *Atmospheric Research* 92, 2009, 258-269.
55. 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.
56. 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.
57. 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.
 58. G. Eerdekens, **N. Yassaa**, V. Sinha, J. Williams, “VOC measurements within a boreal forest during spring 2005: the role of monoterpenes in selected intense nucleation”, Proceedings of the 4th International Conference on proton Transfer Reaction Mass Spectrometry and its Applications, Obergurgl, Austria, 16-21 February 2009, pp. 134-138.
 59. R. Ladj, **N. Yassaa**, C. Balducci, A. Cecinato, B.Y. Meklati, « Characterization of aliphatic and polycyclic aromatic hydrocarbons of PM10 aerosols in some northern Algerian atmospheres », Proceedings of the Global Conference on Global Warming 2009, 5-9 July 2009, Istanbul, Turkey, pp. 1099-1106.
 60. Y. Foudil-Cherif, **N. Yassaa**, N. Boutarene et B. Y. Meklati, « Study of Biogenic volatile organic compounds emitted from *Juniperus communis* and *Juniperus oxycedrus* growing in Algeria », Proceedings of the Global Conference on Global Warming 2009, 5-9 Juillet 2009, Istanbul, Turquie, 1093-1098.

2008

61. **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.
62. 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.
63. 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

64. **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.
65. 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.**
66. R. Ladj, **N. Yassaa**, A. Cecinato and B.Y. Meklati, « Chemical characterisation and seasonal variation of particulate organic compounds in atmospheric PM₁₀ in

the biggest municipal waste landfill of Algeria», *Atmospheric Research* 86,2007, 249-260.

67. A. Stickler, H. Fischer, H. Bozem, C. Gurk, C. Schiller, M. Martinez-Harder, D. Kubistin, H. Harder, J. Williams, G. Eerdeken, 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.
68. 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, D07302, doi: 10.1029/2005JD006702.

2006

69. 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.
70. N. Yassaa, E. Brancaloni, M. Frattoni and P. Ciccioli, « Isomeric analysis of BTEXs in the atmosphere using β -cyclodextrin capillary chromatography coupled with thermal desorption and mass spectrometry », *Chemosphere* 63, 2006, 502-508.

2005

71. 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.
72. 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.
73. 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

74. 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

75. 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.
76. 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.

77. 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.
78. 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.
79. N. Yassaa, E. Brancaleoni, M. Frattoni and P. Ciccioli, « Trace level determination of enantiomeric monoterpenes in terrestrial plant emission and in the atmosphere using β -cyclodextrin capillary chromatography coupled with thermal desorption and mass spectrometry », *Journal of Chromatography A* 915, 2001, 185-197.
80. 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.
81. 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.
82. N. Yassaa, B.Y. Meklati and A. Cecinato, « Composition of extractable organic matter in airborne at a location of 10 km south of Algiers city area, Algeria », Proceedings of 3rd International Conference on Urban Air Quality, Measurement, Modeling and Management, Loutraki, Greece, March 19-23, 2001, pp. 1-4.

2000

83. 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.
84. N. Yassaa, B.Y. Meklati, A. Cecinato and F. Marino, « Qualitative and quantitative evaluation of organic particulate in urban atmosphere of Algiers Metropolitan area », Proceedings of “ Colloque sur l’Héliothermie, l’Environnement et la Maîtrise des Systèmes Solaires ”, Algiers, May 13-15, 2000, pp. 464-469.
85. N. Yassaa, B.Y. Meklati and A. Cecinato, « Determination of enantiomeric discrimination of some monoterpene species emitted by *Pinus halepensis* and *Cedrus atlantica* using gas chromatography and a β -cyclodextrin capillary column », Proceedings of 23rd International Symposium on Capillary Chromatography, Riva del Garda, Italy, June 5-10, 2000, CD-ROM, M22, pp. 1-5.

1999

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

87. **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.
88. **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.
89. **N. Yassaa** and B.Y. Meklati, « Application de la technique microextraction en phase solide dans l'analyse des composés organiques volatils dans l'air », Proceedings of " 2^{ème} Colloque National de Génie Chimique ", Boumerdès, February 23-24, 1999, pp. 60-65.
90. **N. Yassaa**, B.Y. Meklati, A. Cecinato and F. Marino, « Echantillonnage, extraction et analyse des particules organiques dans l'air », Proceedings of 2^{ème} Séminaire National de Génie des Procédés, Alger, 05-06 December 1999, pp. 265-269.

1998

91. **N. Yassaa**, A.Y. Badjah Hadj-Ahmed and B.Y. Meklati, « Evaluation de la pollution atmosphérique par les composés organiques volatils dans la région d'Alger Centre », Proceedings of Third Maghrebian Conference on Process Engineering, Tamanrasset (Algérie), May 10-13, 1998, Tome III, Part 2, pp. 288-291.

1997

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

OTHER PUBLICATIONS

1. Director of publication: Algerian Renewable Energy Resource Atlas (in three languages), 2019.
2. Director of publication: Transition Energétique en Algérie : *Leçons, Etat des Lieux et Perspectives pour un Développement Accéléré des Energies Renouvelables*, 2020.
3. Director of publication: *Éclairage Public en Algérie : Référentiel National pour une Lumière de Qualité et Ecoénergétique*, 2021.
4. Director of publication: *Guide Technique des Installations Solaires Photovoltaïques Autonomes et Raccordées au Réseau Basses Tensions*, 2022.
5. Director of publication: *Recueil de textes réglementaires relatifs aux énergies renouvelables et à l'efficacité énergétique*, 2022.
6. Contributing author: *Renewables Global Status Report*, 2020, 2021, 2022, published by REN21.
7. Reviewer: *Integrated assessment of air pollution and climate change for sustainable development in Africa*, 2022, published by the United Nations Environment Programme.
8. Author: *World Energy Resources 2016*, 2016, published by World Energy Council.

9. Author: The effects of pine shoot beetle (*tomicus piniperda*) on the photosynthesis and VOC emissions of Scots pine (*Pinus Sylvestris*), published by the University of Helsinki, 2012.
10. Author: Chemical Characteristics and Source Reconciliation of Organic Aerosols in Algiers City Area, in: Global Warming, Green Energy and Technology, Springer Sciences, 2010.
11. Author: Biogenic Emission and Essential Oils of Some Eucalyptus Species: a Comparison Study, in: Global Warming, Green Energy and Technology, Springer Sciences, 2010.
12. Author: Chiral characterization of monoterpenes present in the volatile fraction of *Myrtus communis* L. growing in Algeria, published by IACSIT Press, Singapore, 2011.
13. Author: Organic Pollutants in Airborne Particulates of Algiers City Area, dans: Environmental Chemistry, Green Chemistry and Pollutants in Ecosystems, Springer-Verlag, Berlin, Allemagne, Spécialité: Environnement, 2005.
14. Author: Identification et Détermination des Composés Organiques Particulaires Emis par la Décharge Municipale de Oued-Esmar, in : L'Environnement en Algérie : Impacts et Stratégies de Protection. Ouvrage collectif, Edition Dar El Houda Constantine, 2001.

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- 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.
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