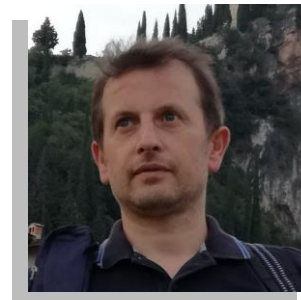


CURRICULUM VITÆ

24 February 2021

- *Claudio Zaccone, Ph.D.* -**Personal details**

Place and date of birth: Valsinni, 31st December 1977
 Citizenship: Italian
 Address: Dept. of Biotechnology, University of Verona
 Cà Vignal 2, room 2.28, Strada Le Grazie 15, 37134
 Verona, Italy
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 URL: <http://www.claudiozaccone.net>
<http://www.dbt.univr.it/?ent=persona&id=54972&lang=en>

**Education and Career**

- 2019-present** (October) *Associate Professor*, Department of Biotechnology, University of Verona, Italy
2018-2019 (March / September) *Associate Professor*, Department of the Sciences of Agriculture, Food and Environment, University of Foggia, Italy
2017 (August) *Guest Scientist*, Department of Soil and Crop Sciences, Colorado State University, Ft Collins, USA
2017 (August) *National Habilitation* as Associate Professor in Analytical Chemistry (Aug. 2017 - Aug. 2026)
2017 (April) *National Habilitation* as Full Professor in Agricultural Chemistry (Apr. 2017 - Apr. 2026)
2016 (July - August) *Guest Scientist*, Institute of Agricultural Sciences, Spanish National Research Council (CSIC), Madrid, Spain
2014 (February) *National Habilitation* as Associate Professor in Agricultural Chemistry (Feb. 2014 - Feb. 2023)
2014 (February) *National Habilitation* as Associate Professor in Geochemistry (Feb. 2014 - Feb. 2023)
2013-2014 (June / May) *Academic Research Associate*, Faculty of Agricultural, Life and Environmental Sciences, Department of Renewable Resources, University of Alberta, Edmonton, Canada (on leave from the University of Foggia)
2012 (August) *Guest Scientist*, Faculty of Agricultural, Life and Environmental Sciences, University of Alberta, Edmonton, Canada
2010 (July - September) *Guest Scientist*, Institute of Earth Sciences, University of Heidelberg, Germany
2008-2018 (December / March) *Academic Researcher*, Department of the Sciences of Agriculture, Food and Environment, University of Foggia, Italy
2007 (May) *Ph.D. in Agricultural Chemistry*, University of Bari, Italy. Dissertation title: "Humification processes and trace elements geochemistry in a Swiss ombrotrophic peat bog"
2006 (March - April) Research period, Institute of Environmental Geochemistry, University of Heidelberg, Germany. Advisor: Prof. W. Shotyk
2005 (April - November) Research period, Institute of Environmental Geochemistry, University of Heidelberg, Germany. Advisor: Prof. W. Shotyk
2004 (July) Summer School organized by Italian Environment Pesticides Research Group, "Pesticides and Environment", Alghero (Italy)
2003-06 *Ph.D. student* in Agricultural Chemistry, Department of Biology and Chemistry of Agro-Forestry and Environment, University of Bari, Italy. Supervisor: Prof. T. Miano
2003 (October) *Professional certificate of Doctor in Forest Sciences*
2003 (April) *Degree in Environmental Sciences and Forestry* with highest grade (110/110) "cum Laude", University of Bari (Italy). Research thesis in "Hydraulic-forest watershed management"

Academic activity (Teaching and Institutional)

2020-2021 "Fundamentals of soil sciences", Dept. of Biotechnology, University of Verona

“Sustainable agriculture”, Dept. of Biotechnology, University of Verona
“Climate change and soil functions”, Dept. of Biotechnology, University of Verona
Member of the *Board of Professors*, Ph.D. School “Natural and Engineering Sciences”, specialization
“Biotechnology” (XXXVI cycle), University of Verona

2019-2020 “Sustainable agriculture”, Dept. of Biotechnology, University of Verona
“The soil: biotic and abiotic components”, International Centre for Advanced Mediterranean
Agronomic Studies of Bari (CIHEAM - IAM Bari)
Member of the *Board of Professors*, Ph.D. School “Soil and Food Sciences”, specialization
“Agricultural Chemistry” (XXXV cycle), University of Bari

2018-2019 “Soil Chemistry”, Dept. of the Sciences of Agriculture, Food and Environment, University of Foggia
“Soil quality and biomass management”, Dept. of the Sciences of Agriculture, Food and
Environment, University of Foggia
“Nutraceutics and Functional Foods”, Dept. of the Sciences of Agriculture, Food and Environment,
University of Foggia
“The soil: biotic and abiotic components”, International Centre for Advanced Mediterranean
Agronomic Studies of Bari (CIHEAM - IAM Bari)
Member of the *Board of Professors*, Ph.D. School “Soil and Food Sciences”, specialization
“Agricultural Chemistry” (XXXIV cycle), University of Bari

2017-2018 “Soil Chemistry”, Dept. of the Sciences of Agriculture, Food and Environment, University of Foggia
“Soil quality and biomass management”, Dept. of the Sciences of Agriculture, Food and
Environment, University of Foggia
“The soil: biotic and abiotic components”, International Centre for Advanced Mediterranean
Agronomic Studies of Bari (CIHEAM - IAM Bari)
Member of the *Board of Professors*, Ph.D. School “Soil and Food Sciences”, specialization
“Agricultural Chemistry” (XXXIII cycle), University of Bari

2016-2017 “Soil Chemistry”, Dept. of the Sciences of Agriculture, Food and Environment, University of Foggia
“Soil quality and biomass management”, Dept. of the Sciences of Agriculture, Food and
Environment, University of Foggia
“The soil: biotic and abiotic components”, International Centre for Advanced Mediterranean
Agronomic Studies of Bari (CIHEAM - IAM Bari)
Member of the *Board of Professors*, Ph.D. School “Soil and Food Sciences”, specialization
“Agricultural Chemistry” (XXXII cycle), University of Bari

2015-2016 “Soil Chemistry”, Dept. of the Sciences of Agriculture, Food and Environment, University of Foggia
“Soil quality and biomass management”, Dept. of the Sciences of Agriculture, Food and
Environment, University of Foggia
“The soil: biotic and abiotic components”, International Centre for Advanced Mediterranean
Agronomic Studies of Bari (CIHEAM - IAM Bari)
Member of the *Board of Professors*, Ph.D. School “Soil and Food Sciences”, specialization
“Agricultural Chemistry” (XXXI cycle), University of Bari

2014-2015 “Soil Chemistry”, Dept. of the Sciences of Agriculture, Food and Environment, University of Foggia
“Soil quality and biomass management”, Dept. of the Sciences of Agriculture, Food and
Environment, University of Foggia
“The soil: biotic and abiotic components”, International Centre for Advanced Mediterranean
Agronomic Studies of Bari (CIHEAM - IAM Bari)
Member of the *Board of Professors*, Ph.D. School “Soil and Food Sciences”, specialization
“Agricultural Chemistry” (XXX cycle), University of Bari

2013-2014 “Soil Chemistry”, Dept. of the Sciences of Agriculture, Food and Environment, University of Foggia
“Soil quality and biomass management”, Dept. of the Sciences of Agriculture, Food and
Environment, University of Foggia
Member of the *Board of Professors*, Ph.D. School “Soil and Food Sciences”, specialization
“Agricultural Chemistry” (XXIX cycle), University of Bari

2012-2013 “Soil Chemistry”, Dept. of the Sciences of Agriculture, Food and Environment, University of Foggia

“Soil and Environment”, Dept. of the Sciences of Agriculture, Food and Environment, University of Foggia

“Soil quality and biomass management”, Dept. of the Sciences of Agriculture, Food and Environment, University of Foggia

“The soil: biotic and abiotic components”, International Centre for Advanced Mediterranean Agronomic Studies of Bari (CIHEAM - IAM Bari)

Member of the *Board of Professors*, Ph.D. School “Soil and Food Sciences”, specialization “Agricultural Chemistry” (XXVIII cycle), University of Bari

2011-2012 “Soil Chemistry”, Faculty of Agriculture, University of Foggia

“Soil and Environment”, Faculty of Agriculture, University of Foggia

“Soil quality and biomass management”, Faculty of Agriculture, University of Foggia

Member of the *Board of Professors*, Ph.D. School “Soil and Food Sciences”, specialization “Agricultural Chemistry” (XXVII cycle), University of Bari

2010-2011 “Soil Chemistry”, Faculty of Agriculture, University of Foggia

“Soil and Environment”, Faculty of Agriculture, University of Foggia

“Agricultural Chemistry”, Faculty of Agriculture, University of Molise

Member of the *Board of Professors*, Ph.D. School “Environment and Landscape Cultures”, specialization “Rural Land and Sustainable Agro-systems” (XXVI cycle), University of Foggia

Member of the *Board of Professors*, Ph.D. School “Soil and Food Sciences”, specialization “Agricultural Chemistry” (XXVI cycle), University of Bari

2009-2010 “Soil Chemistry”, Faculty of Agriculture, University of Foggia

“Soil and Environment”, Faculty of Agriculture, University of Foggia

Member of the *Board of Professors*, Ph.D. course “Food Quality and Human Nutrition” (XXV cycle), University of Foggia

Member of the *Board of Professors*, Ph.D. course “Agricultural Chemistry” (XXV cycle), University of Bari

2008-2009 “Soil Chemistry”, Faculty of Agriculture, University of Foggia

Tutor/Advisor of 9 BSc students, 7 MSc students, 2 PhD students; International Advisor of 1 MSc student; Advisor of 1 post-doc researcher.

Vice President of the *School of Sciences and Engineering*, University of Verona (2020/21-2022/23)

Member of the Scientific Commission of the Department of the Sciences of Agriculture, Food and Environment, University of Foggia (2016-2019)

Elected Member and Secretary of the Scientific Commission, University of Foggia (2012-2016)

Member of the Teaching Commission of the programme in Agricultural Science and Technology (B.Sc. and M.Sc.), University of Foggia (2009-2019)

Scientific activity

Main research fields: Soil Chemistry, Environmental Chemistry, Geochemistry.

Main research interests: *i*) characterization of organic matter in soils and sediments, *ii*) influence of climate change on soil organic carbon pools (sinks or sources of C?), *iii*) biogeochemistry of trace elements, radionuclides and organic pollutants in soils and sediments: reconstruction of their atmospheric depositions during centuries (natural vs. anthropogenic sources), and *iv*) waste biomass utilization in agriculture.

- Peer-reviewed articles (WoS-JCR) with Impact Factor	72
- Book Chapters	14
- Contributions in Conference Proceedings and in Journals without Impact Factor	> 160
- Seminars and invited lectures	> 45
- Scientific/Organizing Committees	> 20
- Convener/Chairperson during scientific conferences and congresses	> 45

Bibliometrics:

H-index: Scopus, 25; WoS, 25; g-Scholar, 30

Citations: Scopus, 1624; WoS, 1474; g-Scholar, 2107

<https://www.scopus.com/authid/detail.uri?authorId=22433862000>

<https://publons.com/researcher/2891963/claudio-zaccone/>

<http://orcid.org/0000-0003-4391-354X>

<https://scholar.google.it/citations?user=7XKHIK0AAAAJ&hl>

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

<https://it.linkedin.com/in/claudio-zaccone-univr>

Synergistic activities and Services

i) Scientific Society memberships

International Humic Substances Society (IHSS, since 2005), European Geosciences Union (EGU, since 2007), International Union of Soil Sciences (IUSS, since 2006), Italian Society of Soil Science (SISS, since 2006), Italian Society of Agricultural Chemistry (SICA, since 2006).

ii) Appointments

Advisory Board member, International Humic Substances Society (IHSS) (October 2020-to date; elected)

Advisory Board member, Italian Society of Agricultural Chemistry (SICA) (January 2020-to date; elected)

President, Soil System Sciences (SSS) division, European Geosciences Union (EGU) (April 2019-to date; elected)

Programme Group Chair, Soil System Sciences (SSS) division, European Geosciences Union (EGU) (January 2019-to date)

Advisory Board member, Italian Society of Soil Science (SISS) (January 2019-to date; elected)

IT Administrator, International Humic Substances Society (IHSS) (September 2018-to date)

Vice Chair, Commission 4.1. (Soils and the Environment), Division 4, International Union of Soil Sciences (IUSS) (March 2018-to date; elected)

Secretary-Treasurer, Italian Society of Agricultural Chemistry (SICA) (January 2018-January 2020)

Member of the Italian National Focal Point, Soil Global Partnership - Pillar 5 “Harmonization of methods, measurements and indicators for the sustainable management and protection of soil resources” (March 2016-present)

Member, Division IV (Environmental and Social Role of Soil), Italian Society of Soil Science (SISS) (January 2015-December 2018; elected)

Treasurer, Italian Society of Soil Science (SISS) (January 2015-December 2018; elected)

Science Officer, Soil System Sciences (SSS) division, European Geosciences Union (EGU) (May 2014-to date)

Expert nominated by the Italian Ministry of Agricultural, Food and Forestry Policies (MIPAAF) to draw up the Strategic Plan for the Innovation and Research in the agriculture, food and forestry field (2014-2020) – Sector II “Climatic change, biodiversity, soil functionality and other ecological and social functions” (October 2013) (ISBN: 9788899595463)

Chair, Soil Chemistry Sub-division, Soil System Sciences (SSS) division, European Geosciences Union (EGU) (May 2012-May 2014)

Member, Commission II (Soil Chemistry) and Commission VIII (Soil and Environment), Italian Society of Soil Science (SISS) (2012-2014; elected)

Auditor, Italian Society of Soil Science (SISS) (2012-2014; elected)

Web Officer, International Humic Substances Society (IHSS) (July 2011-September 2018)

Outreach Officer, Soil System Sciences (SSS) division, European Geosciences Union (EGU) (April 2011-April 2012)

iii) Editorial activity

Member of the *Editorial Board* of Sustainability (MDPI), a peer-reviewed, WoS-JCR journal (September 2019-to date)

Member of the *Editorial Board* of Frontiers in Earth Science (Frontiers) and Frontiers in Environmental Science (Frontiers), peer-reviewed, open access journals (June 2018-to date)

Member of the *Editorial Board* of Journal of Soils and Sediments (Springer), a peer-reviewed, WoS-JCR journal (January 2017-to date)

Member of the *Editorial Board* of Heliyon (Elsevier), a peer-reviewed, open access journal (March 2015-July 2019)

Member of the *Editorial Board* of Cogent Food & Agriculture (Taylor & Francis), a peer reviewed, open access journal (April 2014-to date)

Member of the *Editorial Board* of Soil (Copernicus Publications), a peer-reviewed, open access journal (May 2013-to date)

Member of the *Editorial Board* of Geoderma (Elsevier), a peer-reviewed, WoS-JCR journal (May 2013-to date)

Member of the *Editorial Board* of Journal of Chemistry (Hindawi), a peer-reviewed, WoS-JCR journal (March 2012-to date)

Guest Editor for the following (7) WoS -JCR journals: *Soil Systems*, MDPI (“Selected Soil-Related Papers from the First Joint Meeting on Soil and Plant System Sciences - SPSS 2019”); *Plants*, MDPI (“Selected Plant-Related Papers from the First Joint Meeting on Soil and Plant System Sciences - SPSS 2019”); *Journal of Soils and Sediments*, Springer (“Natural Organic Matter: chemistry, function and fate in the environment”; Volume 18, April 2018); *Catena*, Elsevier (“Man versus Nature: natural and anthropogenic footprints recorded in the soil archives”; Volume 132, September 2015); *European Journal of Soil Science*, Wiley-Blackwell (“Soils and paleosols as archives of natural and anthropogenic environmental changes”; Volume 65, Issue 4, July 2014); *Quaternary International*, Elsevier (“Soils as a Record of the Past”; Volume 306, September 2013); *Biology and Fertility of Soils*, Springer (“Mechanisms of C stabilization and sequestration in soils”; Volume 49, Issue 5, July 2013)

iv) Peer-review activity

Referee for the following (>75) international peer-reviewed journals (WoS, JCR): *Agronomy* (MDPI), *Applied Geochemistry* (Elsevier), *Applied Sciences* (MDPI), *Applied Soil Ecology* (Elsevier), *Archives of Agronomy and Soil Science* (Taylor & Francis), *Atmosphere* (MDPI), *Atmospheric Pollution Research* (Elsevier), *Biology and Fertility of Soils* (Springer), *Catena* (Elsevier), *Chemical and Biological Technologies in Agriculture* (Springer), *Chemical Geology* (Elsevier), *Chemistry and Ecology* (Taylor & Francis), *Chemosphere* (Elsevier), *Clean - Soil, Air, Water* (Wiley), *Communications in Soil Science and Plant Analysis* (Taylor & Francis), *Compost Science & Utilization* (Taylor & Francis), *Ecological Engineering* (Elsevier), *Ecotoxicology and Environmental Safety* (Elsevier), *Environmental Chemistry* (CSIRO), *Environmental Pollution* (Elsevier), *Environmental Science and Pollution Research* (Springer), *Environmental Science & Technology* (ACS), *Environmental Science: Processes & Impacts* (RCS), *European Journal of Agronomy* (Elsevier), *European Journal of Forest Research* (Springer), *European Journal of Soil Science* (Wiley), *Field Crops Research* (Elsevier), *Food Analytical Methods* (Springer), *Forests* (MDPI), *Frontiers in Environmental Science* (Frontiers), *Geoderma* (Elsevier), *Global and Planetary Change* (Elsevier), *Global Change Biology* (Wiley), *HortScience* (Amer. Soc. Horticultural Science), *iForest - Biogeosciences and Forestry* (SISEF), *International Agrophysics* (De Gruyter), *International Journal of Environmental Analytical Chemistry* (Taylor & Francis), *International Journal of Environmental Research and Public Health* (MDPI), *International Journal of Molecular Sciences* (MDPI), *International Journal of Phytoremediation* (Taylor & Francis), *International Journal of Recycling of Organic Waste in Agriculture* (Springer), *Journal of Analytical and Applied Pyrolysis* (Elsevier), *Journal of Arid Land* (Science Press), *Journal of Environmental Management* (Elsevier), *Journal of Environmental Monitoring* (RSC), *Journal of Environmental Quality* (Amer. Soc. Agronomy), *Journal of Forestry Research* (Springer), *Journal of Geochemical Exploration* (Elsevier), *Journal of Hazardous Materials* (Elsevier), *Journal of Microbiology* (Springer), *Journal of Plant Nutrition and Soil Science* (Wiley), *Journal of Soils and Sediments* (Springer), *Journal of Synchrotron Radiation* (Wiley), *Land Degradation & Development* (Wiley), *Minerals* (MDPI), *Molecules* (MDPI), *Organic Geochemistry* (Elsevier), *Palaeogeography, Palaeoclimatology, Palaeoecology* (Elsevier), *Pedosphere* (Elsevier), *Precision Agriculture* (Springer), *Quaternary International* (Elsevier), *Science Advances* (AAAS), *Science of the Total Environment* (Elsevier), *Scientia Horticulturae* (Elsevier), *Scientific Reports* (Nature Publishing Group), *Soil Ecology Letters* (Springer), *Soil & Tillage Research* (Elsevier), *Soil Research* (CSIRO), *Soil Science* (Lippincott Williams & Wilkins), *Solid Earth* (Copernicus), *Spectrochimica Acta - Part B* (Elsevier), *Sustainability* (MDPI), *The Holocene* (SAGE), *Vadose Zone Journal* (Soil Sci. Soc. Amer.), *Water* (MDPI), *Water, Air, & Soil Pollution* (Springer), *Wetlands* (Springer).

Referee for the following (10) international peer-reviewed journals without Impact Factor: *Acta geodynamica et geomaterialia* (Acad. Sci. Czech Rep.), *Agriculture* (MPDI), *Applied and Environmental Soil Science* (Hindawi), *Cogent Food & Agriculture* (Taylor & Francis), *Journal of Environmental Chemistry and Ecotoxicology* (Academic Journals), *Journal of Environmental Protection* (Scientific Research Publishing), *Open Agriculture* (De Gruyter), *Soil Horizons* (SSSA), *Soil Systems* (MDPI), *SpringerPlus* (Springer).

Research Project Evaluator for the University of Milano (Italy; 2011), the Free University of Bozen-Bolzano (Italy; 2013), the Emilia-Romagna Region (Italy; 2016, 2017), the Swiss National Science Foundation (2014), the Croatian Science Foundation (2015), the Cyprus Research Promotion Foundation (2017), the German Research Foundation (2017), the Dutch Research Council (2019), the Polish National Science Centre (2019, 2020) and the Swedish Research Council for Sustainable Development (2019-2023).

Evaluator for the ANVUR-VQR (Research Quality Evaluation) 2011-2014.

v) Scientific and Organizing Committees

1. Member of the *Scientific and Organizing Committee* of the First Joint Meeting on Soil and Plant System Sciences (SPSS 2019) “Natural and Human-induced Impacts on the Critical Zone and Food Production”, September 23-26, 2019, Bari, Italy
2. Member of the *International Scientific Committee* of the 8th International Symposium on Interactions of Soil Minerals with Organic Components and Microorganisms (ISMOM) “Understanding Soil Interfacial Reactions for Sustainable Soil Management and Climatic Change Mitigation”, June 23-28, 2019, Seville, Spain.
3. Member of the *Scientific Committee* of the XI School of Soil Biodiversity, June 4-7, 2019, Portici, Italy
4. Member of the *International Scientific Committee* of the 19th Meeting of the International Humic Substances Society “Humic Substances and their contribution to the climate change mitigation”, September 16-21, 2018, Albena Resort, Varna Region, Bulgaria
5. Member of the *Scientific Committee* of the XXXVI National Congress of the Italian Society of Agricultural Chemistry “Il ruolo della Chimica Agraria per la gestione sostenibile delle risorse agrarie e forestali”, September 24-26, 2018, Reggio Calabria, Italy
6. Member of the *Scientific Committee* of the 1^o National joint meeting of the Italian Society of Soil Science – Italian Society of Pedology “Il ruolo della Scienza del suolo per gli obiettivi dello sviluppo sostenibile”, September 10-13, 2018, Palermo, Italy
7. Member of the *Scientific Committee* of the X School of Soil Biodiversity, May 22-24, 2018, Giussago, Italy
8. Member of the *Scientific Committee* of the 42^o National Congress of the Italian Society of Soil Science “Il suolo al servizio degli ecosistemi”, December 4-7, 2017, Firenze, Italy
9. Member of the *Scientific Committee* of the IX School of Soil Biodiversity, July 6-7, 2017, Palermo, Italy
10. Member of the *Scientific Committee* of the 41^o National Congress of the Italian Society of Soil Science “Soil: a world to discover”, December 5-7, 2016, Ancona, Italy
11. Member of the *Scientific Committee* of the XL National Congress of the Italian Society of Soil Science, December 1-3, 2015, Roma, Italy
12. Member of the *Scientific Committee* of the International workshop “Plant-soil-water interfaces in hydromorphic subaqueous ecosystems”, 23-24 June, 2015, Imola, Italy
13. Member of the *Scientific and Organizing Committee* of the International Conference “ELS 2014 - the Earth Living Skin: Soil, Life and Climate Changes”, 22-25 September, 2014, Bari, Italy
14. Member of the *Scientific and Organizing Committee* of the 17th Meeting of the International Humic Substances Society “Natural Organic Matter: Structure, Dynamics, Innovative applications”, September 1-5, 2014, Ioannina, Greece
15. Member of the *National Organizing Committee* of the International Conference “Biochars, Composts, and Digestates. Production, Characterization, Regulation, Marketing, Uses and Environmental Impact (BCD 2013)”, October 17-20, 2013, Bari, Italy
16. Member of the *Scientific and Organizing Committee* of the 29th International Conference of the Society for Environmental Geochemistry and Health, July 8-12, 2013, Toulouse, France
17. Member of the *Scientific Committee* of the National Congress of the Italian Society of Soil Science, June 25-28, 2013, Viterbo, Italy
18. Member of the *Scientific and Organizing Committee* of the 16th Meeting of the International Humic Substances Society “Functions of Natural Organic Matter in Changing Environment”, September 9-14, 2012, Hangzhou, China
19. Member of the *National Organizing Committee* of the 4th International Congress EUROSIL 2012, July 02-06, 2012, Bari, Italy
20. Member of the *Scientific and Organizing Committee* of the XXIX National Congress of the Italian Society of Agricultural Chemistry, September 21-23, 2011, Foggia, Italy
21. Member of the *National Scientific and Organizing Committee* of the III National Congress on “Soil Quality, Food and Health”, May 20-22, 2010, Naples, Italy
22. Member of the *National Organizing Committee* of the 15th International Symposium on “Environmental Pollution and its Impact on Life in the Mediterranean Region”, October 7-11, 2009, Bari, Italy

vi) Session organization and chairing

1. *Convener and Chairperson* of Session SSS5.5 “Biomass and waste valorization within a circular economy: from urban mining to soil amendments”, European Geosciences Union General Assembly (Sharing Geoscience Online), 4-8 May, 2020, Vienna, Austria
2. *Co-convener and Chairperson* of Session SSS5.2/BG3 “Mechanisms of soil organic matter stabilization and carbon sequestration”, European Geosciences Union General Assembly (Sharing Geoscience Online), 4-8 May, 2020, Vienna, Austria

3. *Chairperson* of Session 4(I) “Dynamics of pollutants at soil interfaces – What is new and how can environmental biotechnology be beneficial for soil restoration and bioremediation?”, 8th International Symposium on Interactions of Soil Minerals with Organic Components and Microorganisms (ISMOM) “Understanding Soil Interfacial Reactions for Sustainable Soil Management and Climatic Change Mitigation”, June 23-28, 2019, Seville, Spain
4. *Co-convener* and *Chairperson* of Session SSS5.9/ERE2.10 “Waste management and soil: impacts, benefits and risks of biochar, wood ash and other amendments”, European Geosciences Union General Assembly, 7-12 April, 2019, Vienna, Austria
5. *Co-convener* and *Chairperson* of Session SSS5.14 “Soil minerals and the cycling of elements with special focus on carbon”, European Geosciences Union General Assembly, 7-12 April, 2019, Vienna, Austria
6. *Convener* of Session SSS5.6 “General Soil Chemistry: from basic research to environmental aspects to food security”, European Geosciences Union General Assembly, 8-13 April, 2018, Vienna, Austria
7. *Co-convener* of Session SSS5.13 “Biogeochemistry and hydrology of hydromorphic soils”, European Geosciences Union General Assembly, 8-13 April, 2018, Vienna, Austria
8. *Co-convener* of Session SSS5.2 “New and traditional soil amendments: impacts, benefits, and risks”, European Geosciences Union General Assembly, 8-13 April, 2018, Vienna, Austria
9. *Co-convener* and *Chairperson* of Session SSS5.1/CL3.06 “Mechanisms of soil organic matter stabilization and C sequestration”, European Geosciences Union General Assembly, 8-13 April, 2018, Vienna, Austria
10. *Convener* and *Chairperson* of Session SSS5.17 “General Soil Chemistry: from basic research to environmental aspects to food security”, European Geosciences Union General Assembly, 23-28 April, 2017, Vienna, Austria
11. *Co-convener* and *Chairperson* of Session SSS5.12 “Chemistry of exogenous and native soil organic matter: accrual, mineralization, stabilization and management”, European Geosciences Union General Assembly, 23-28 April, 2017, Vienna, Austria
12. *Co-convener* of Session SSS6.5/BG9.55 “Natural and pyrogenic organic carbon and nitrogen in soils: Function, fate, analytical challenges and how this relates to the concept of humic substances”, European Geosciences Union General Assembly, 23-28 April, 2017, Vienna, Austria
13. *Convener* and *Chairperson* of Session SSS5.6 “Peatlands and wetlands in the tropics and beyond: biogeochemistry, ecology, and carbon cycle”, European Geosciences Union General Assembly, 23-28 April, 2017, Vienna, Austria
14. *Co-convener* of Session SSS5.4 “Future challenges in biochar research”, European Geosciences Union General Assembly, 23-28 April, 2017, Vienna, Austria
15. *Chairperson* of the Session “Environment”, XXXIV National Conference of the Italian Society of Agricultural Chemistry, 5-7 October, 2016, Perugia, Italy
16. *Chairperson* of Session 3 “Dynamics of NOM in diverse environments”, 18th International Conference of the International Humic Substance Society, 11-16 September, 2016, Kanazawa, Japan
17. *Co-convener* and *Chairperson* of Session SSS9.12 “Element biogeochemistry and ecological functions of paddy, peatland and wetland soils”, European Geosciences Union General Assembly, 17-22 April, 2016, Vienna, Austria
18. *Co-convener* and *Chairperson* of Session SSS6.2 “Natural and pyrogenic organic carbon and nitrogen in soils: Function, fate, analytical challenges and how this relates to the concept of humic substances”, European Geosciences Union General Assembly, 17-22 April, 2016, Vienna, Austria
19. *Convener* and *Chairperson* of Session SSS5.10 “New and traditional soil amendments: impacts, benefits, and risks”, European Geosciences Union General Assembly, 17-22 April, 2016, Vienna, Austria
20. *Co-convener* and *Chairperson* of Session SSS5.6/CL2.18 “Mechanisms and models of soil organic matter stabilization, C and N sequestration and losses, including greenhouse gas emissions”, European Geosciences Union General Assembly, 17-22 April, 2016, Vienna, Austria
21. *Convener* and *Chairperson* of Session SSS6.5 “Biogeochemical cycles in hydromorphic and agro-forestal soils”, European Geosciences Union General Assembly, 12-17 April, 2015, Vienna, Austria
22. *Convener* and *Chairperson* of Session SSS5.5 “Soil organic matter amendments: impacts, benefits, and risks”, European Geosciences Union General Assembly, 12-17 April, 2015, Vienna, Austria
23. *Co-convener* and *Chairperson* of Session SSS5.2 “Mechanisms and models of soil organic matter stabilization, mineralization and greenhouse gas emissions”, European Geosciences Union General Assembly, 12-17 April, 2015, Vienna, Austria
24. *Convener* and *Chairperson* of Session ELS04 “Ecology and biogeochemistry of organic-carbon-rich soils in a changing world”, ELS 2014 “The Earth Living Skin: Soil, Life and Climate Changes”, 22-25 September, 2014, Bari, Italy
25. *Co-convener* and *Chairperson* of Session ELS02 “Plant and soil interaction in a changing climate”, ELS 2014 “The Earth Living Skin: Soil, Life and Climate Changes”, 22-25 September, 2014, Bari, Italy

26. *Co-convener* of Session SSS10.11/SC21 “Short course on forest fire effects on soil properties”, European Geosciences Union General Assembly, 27 April - 02 May, 2014, Vienna, Austria
27. *Convener* and *Chairperson* of Session SSS5.4 “Geochemical processes and C sequestration in peatlands and organic soils”, European Geosciences Union General Assembly, 27 April - 02 May, 2014, Vienna, Austria
28. *Co-convener* of Session SSS5.3 “Fire impacts on physical and chemical properties of ash, soils, and thermal analysis in soil science”, European Geosciences Union General Assembly, 27 April - 02 May, 2014, Vienna, Austria
29. *Co-convener* and *Chairperson* of Session SSS3.3 “Use of soil records in geocology and landscape archaeology”, European Geosciences Union General Assembly, 27 April - 02 May, 2014, Vienna, Austria
30. *Chairman* of Session S3.8. “Long-term survivability of biochar and digestates in soils and soil carbon sequestration with agricultural implications - myth or reality?”, International Conference “Biochars, Composts, and Digestates - Production, Characterization, Regulation, Marketing, Uses and Environmental Impact” (BCD 2013), 17-20 October, 2013, Bari, Italy
31. *Chairman* of Session S3.7. “Soil organic matter amendments: impacts, benefits, and risks”, International Conference “Biochars, Composts, and Digestates - Production, Characterization, Regulation, Marketing, Uses and Environmental Impact” (BCD 2013), 17-20 October, 2013, Bari, Italy
32. *Chairman* of Session I “Soil”, XXXI National Meeting of the Italian Society of Agricultural Chemistry, 16-17 September, 2013, Napoli, Italy
33. *Co-convener* and *Chairperson* of Session BG2.7/SSS1.1 “Molecular, isotopic and associated modeling techniques focusing on terrestrial ecosystem”, European Geosciences Union General Assembly, 7-12 April, 2013, Vienna, Austria
34. *Co-convener* of Session SSS1.2 “Element cycling and ecological functions of paddy and wetland soils”, European Geosciences Union General Assembly, 7-12 April, 2013, Vienna, Austria
35. *Co-convener* and *Chairperson* of Session SSS5.3 “Soil as a Record of the Past: Soil science in cultural and natural landscapes”, European Geosciences Union General Assembly, 7-12 April, 2013, Vienna, Austria
36. *Co-convener* and *Chairperson* of Session S07.06 “Mechanisms of C sequestration and stabilization in soils”, 4th International Congress EUROSIL 2012”, July 02-06, 2012, Bari, Italy
37. *Co-convener* and *Chairperson* of Session S05.01 “Soils organic matter amendments: impacts, benefits, and risks”, 4th International Congress EUROSIL 2012”, July 02-06, 2012, Bari, Italy
38. *Convener* and *Chairperson* of Session S01.01 “Soils and sediments as natural archives”, 4th International Congress EUROSIL 2012”, July 02-06, 2012, Bari, Italy
39. *Convener* and *Chairperson* of Session SSS10.2 “Soils as record of the past”, European Geosciences Union General Assembly, 22-27 April, 2012, Vienna, Austria
40. *Chairperson* of Session SSS1.1 “Milestones in Soil Science Research”, European Geosciences Union General Assembly, 22-27 April, 2012, Vienna, Austria
41. *Chairperson* of the Session “Humus substances chemistry and structure”, IX National Meeting of the International Humic Substances Society - Italian Chapter “Molecular Aspects of Humic Substances and Biological Functionality in Soil Ecosystems”, December 5-7, 2011, Portici, Italy
42. *Convener* of Session SSS4.3 “Molecular carbon cycling in the environment and implications on humus bioactivity and global changes”, European Geosciences Union General Assembly, 3-8 April, 2011, Vienna, Austria
43. *Co-convener* and *Chairperson* of Session SSS1.3 “Molecular proxies for studying biogeochemical changes in the environment”, European Geosciences Union General Assembly, 3-8 April, 2011, Vienna, Austria
44. *Co-convener* and *Chairperson* of Session SSS17 “Dehydrated and rewetted peatlands: hydrological, physical and chemical changes”, European Geosciences Union General Assembly, 2-7 May, 2010, Vienna, Austria
45. *Co-convener* and *Chairperson* of Session SSS23 “Soil Organic Matter: structures, functions, management strategies, and C cycle”, European Geosciences Union General Assembly, 2-7 May, 2010, Vienna, Austria
46. *Chairperson* of Session 2 “Soil quality, pollution, degradation and desertification”, 15th International Symposium on “Environmental Pollution and its Impact on Life in the Mediterranean Region”, October 7-11, 2009, Bari, Italy

Awards

- 2017** *Outstanding Contribution in Reviewing award* for 2017 (Environmental Pollution, Elsevier)
- 2017** *Recipient* of the “Annual individual funding for fundamental research activities - FFABR 2017”, Italian National Agency for the Evaluation of the University and Research Systems (ANVUR)
- 2016** *Excellence in Reviewing award* for 2016 (Chemosphere, Elsevier)

- 2016 *Excellence in Reviewing award* for 2016 (Journal of Soils and Sediments, Springer)
- 2012 *Research Award*, Rotary Club Foggia Capitanata (District 2120)
- 2011 *Outstanding Young Scientists Award* (OYSA) 2012, Division on Soil System Sciences (SSS), European Geosciences Union (EGU) [<http://www.egu.eu/sss/awards-medals/>]
- 2010 *Best Ph.D. Thesis award* from the Italian Society of Agricultural Chemistry
- 2009 *Training award* from the Italian Society of Soil Science
- 2009 *Travel bursary*, COST Action 639 BurnOut (Greenhouse gas budgets from soils under changing climate and land use), Helsinki (Finland), May 19-20
- 2008 *Travel bursary*, COST Action 639 BurnOut (Greenhouse gas budgets from soils under changing climate and land use), Birmensdorf (Switzerland), March 6-8
- 2007 *Young Scientist's Travel Award for Europeans* (YSTA), European Geosciences Union (EGU) General Assembly, Vienna (Austria), 15 - 20 April
- 2006 *Travel bursary*, 13th Meeting of the International Humic Substances Society (IHSS), Karlsruhe (Germany), July 30 - August 4
- 2005 *Travel bursary*, VI National Congress of International Humic Substances Society (IHSS) - Italian section, Perugia (Italy), 15-16 December

Previous work experiences and Research contracts

- 2011 (May-June) Teaching contracts with several junior/senior high schools ("Losapio" school, Gioia del Colle; "Stefano da Putignano" school, Putignano; "Don S. Bavaro" school, Giovinazzo) as expert in the environmental field
- 2008 (June-September) Research contract with the Dep. of Biology and Chemistry of Agro-Forestry and Environment, University of Bari, Italy. Object: Physico-chemical and spectroscopic characterization of Posidonia oceanica residues. POPRURA, Interreg IIIA/GRECIA-ITALIA 2000-2006
- 2008 (April-June) Teaching contract with the "G. Falcone" junior high school (Adelfia) as expert in the environmental field
- 2007-08 (December-July) Research contract with the Dep. of Biology and Chemistry of Agro-Forestry and Environment, University of Bari (Italy). Object: Physico-chemical and spectroscopic characterization of Posidonia oceanica residues. POPRURA, Interreg IIIA/GRECIA-ITALIA 2000-2006
- 2007 (October-December) Contract with the Agro-Forestry and Environmental System Planning and Management Department, University of Bari (Italy). Object: Guidelines about the protected area management. INTEGRA, Interreg – Cards – Phare Measure 1.1
- 2007 (October-December) Contract with the University of Bari. Object: Guidelines about the protected area management. Interreg III B – Archimed "INNOVA" project
- 2007 (March-June) Contract with the University of Bari. Object: Guidelines about the protected area management. Interreg III B – Archimed "INNOVA" project
- 2007 (January-March) Contract with C.I.H.E.A.M.-I.A.M.B., "Interreg III A Italia-Albania project – action b
- 2006 (November) Teaching contracts with "E. Majorana" Institute of Bari as expert in the environmental field
- 2005 (May) Research contract with the Environmental Geochemistry Institute, University of Heidelberg, Germany
- 2004-05 Member of Posidonia s.c.a.r.l. board, society working in the cultural and environmental field
- 2004 (April) Research contract with the Agro-Forestry and Environmental System Planning and Management Department, University of Bari (Italy). Area of interest: erosion, slope stabilization, rivers, GIS
- 2003 (September) Tutor, Eureka s.r.l., Bari, Italy
- 2003 (August) Research contract with the Agro-Forestry and Environmental System Planning and Management Department, University of Bari (Italy). Area of interest: biotechnical slope stabilization, low environmental impact measures, check dams

Research projects and Scientific consulting

"DNA occurrence in organic matter fractions isolated from amended, agricultural soils". Cassa di Risparmio di Puglia Foundation. [Principal Investigator, June.2016-June.2018]

"Climate warming and vegetation change in peatlands: spatial and temporal effects on biogeochemistry" (VEGANPEAT - Task #2. Seasonal variability of DOC in peatland pore-water: a quantitative and qualitative approach along an altitudinal gradient). Swiss National Science Foundation. [External Collaborator; Feb.2014-Feb.2015]

“Atmospheric Deposition of Organic Contaminants in NE Alberta: Background Values and Industrial Contributions of the Past 60 years”. Alberta Innovates - Energy and Environment Solutions, Canada. [Research Unit member; Apr.2012-to date]

“Chemical and biomolecular indicators for reconstructing environmental changes in natural archives” (RU topic: “Influence of humification process on the possibility of peat bogs to be used as “reliable archives” of environmental changes”). Ministry of Education, Universities and Research (MIUR). Research Projects of National Interest program, call 2009. [Research Unit leader; Oct.2011-Oct.2013]

“In.Te.R.R.A. - Innovazioni tecnologiche e di processo per il riutilizzo irriguo delle acque reflue urbane e agro-industriali ai fini della gestione sostenibile delle risorse idriche (Technology and process innovations for irrigation reuse of treated municipal and agro-industrial wastewaters in order to achieve sustainable water resources management)”. PON 2007-2013; Project Cod. 01_01480. [Task leader; 2011-2013]

“STAR-AgroEnergy - Scientific & Technological Advancement in Research on Agro-Energy: an integrated approach to renewable energy generation according to sustainability criteria”. REGPOT-2011-1; EU FP7 (Grant agreement n: 286269). [WP leader; 2011-Jun.2012]

“AZBSASP - Agrozootecnica biologica: Considerazioni in termini di Sicurezza Alimentare e problemi di Salute pubblica” (RU topic: Fattori influenzanti la produzione ed il destino dello Ptaquiloside nel sistema suolo-pianta in regime di agro-zootecnica biologica). MIPAAF project (D.M. 15847/7742/09). [Task leader; 2009-2014]

“PROPURA - Posidonia oceanica (L.) Del.: protection, restoring of meadows and use of beached residues in agriculture”. PIC INTERREG IIIA / GREECE-ITALY 2000-2006. Research project, Asse 3 - Misura 3.1. [Research Unit member; 2008]

“INNOVA - Establishing common models of integrated sustainable monitoring, planning and management of high environmental value areas to control natural resources degradation”. INTERREG III B – ARCHIMED. [Research Unit member; 2007]

Determination of depositional fluxes and enrichment factors of trace elements (Pb, Sb e Th) throughout a 4-m deep peat profile: lithogenic vs. anthropogenic sources [2017; Dept. of Soil, Plant and Food Sciences – University of Bari Aldo Moro, Italy]

Studying the impact of an incinerator located in the province of Foggia on the concentration of trace elements in surrounding agricultural soils [2016; E.T.A. Energie Tecnologie Ambiente S.r.l., Italy]

Investigating the fate of Br in the plant-soil system in organic agriculture [2016; BonassisaLab S.r.l., Italy]

Studying the impact of an incinerator located in the province of Foggia on the concentration of major and trace elements in surrounding agricultural soils [2012; E.T.A. Energie Tecnologie Ambiente S.p.a., Italy]

Studying the humification processes in peat bogs [2011; Institute of Earth Science - University of Heidelberg, Germany]

Scientific publications

A) Peer-reviewed publications (WoS-JCR) with Impact Factor (n = 72, since 2007; * = corresponding author)

1. Marangi, M., Airoidi, S., Beneduce, L., **Zaccone, C.** (in press) Wild whale faecal samples as a proxy of anthropogenic impact. *Scientific Reports*.
Impact factor (-): 3.998
MULTIDISCIPLINARY SCIENCES (17/71)
2. Bao, K., Zhang, Y., **Zaccone, C.**, Meadows, M.E. (2021) Human impact on C/N/P accumulation in lake sediments from northeast China during the last 150 years. *Environmental Pollution*, 271: 116345.
Impact factor (-): 6.793
ENVIRONMENTAL SCIENCES (21/265)
3. van Bellen, S., Shotyk, W., Magnan, G., Davies, L., Nason, T., Mullan-Boudreau, G., Garneau, M., Noernberg, T., Bragazza, L., **Zaccone, C.** (2020) Carbon and nitrogen accumulation rates in ombrotrophic peatlands of central and northern Alberta, Canada, during the last millennium. *Biogeochemistry*, 151: 251-272.
Impact factor (-): 4.161
ENVIRONMENTAL SCIENCES (64/265), GEOSCIENCES, MULTIDISCIPLINARY (24/200)
4. **Zaccone, C.***, Schiavon, M., Celletti, S., Miano, T. (2020) Selected Plant-Related Papers from the First Joint Meeting on Soil and Plant System Sciences (SPSS 2019)–“Natural and Human-Induced Impacts on the Critical Zone and Food Production”. *Plants*, 9: 1132 [Guest Editorial].

Impact factor (-): 2.762
PLANT SCIENCES (58/234)

5. Giannetta, B., Balint, R., Said-Pullicino, D., Plaza, C., Martin, M., **Zaccone, C.** (2020) Fe(II)-catalyzed transformation of Fe (oxyhydr)oxides across organic matter fractions in organically amended soils. *Science of the Total Environment*, 748: 141125.

Impact factor (-): 6.551
ENVIRONMENTAL SCIENCES (22/265)

6. De Vleeschouwer, F., Baron, S., Cloy, J.M., Enrico, M., Ettler, V., Fagel, N., Kempter, H., Kylander, M., Li, C., Longman, J., Martinez-Cortizas, A., Marx, S., Mattielli, N., Mighall, T., Nieminen, T.M., Piotrowska, N., Pontevedra Pombal, X., Pratte, S., Renson, V., Shotyk, W., Shuttleworth, E., Sikorski, J., Stromsoe, N., Talbot, J., von Scheffer, C., Weiss, D., **Zaccone, C.**, Le Roux, G. (2020) Comment on: "A novel approach to peatlands as archives of total cumulative spatial pollution loads from atmospheric deposition of airborne elements complementary to EMEP data: Priority pollutants (Pb, Cd, Hg)" by Miszczach et al. *Science of the Total Environment*, 737: 138699.

Impact factor (-): 6.551
ENVIRONMENTAL SCIENCES (22/265)

7. Giannetta, B., Plaza, C., Siebecker, M.G., Aquilanti, G., Vischetti, C., Plaisier, J.R., Juanco, M., Sparks, D.L., **Zaccone, C.*** (2020) Iron speciation in organic matter fractions isolated from soils amended with biochar and organic fertilizers. *Environmental Science & Technology*, 54: 5093-5101.

Impact factor (-): 7.864
ENGINEERING, ENVIRONMENTAL (6/53), ENVIRONMENTAL SCIENCES (15/265)

8. Vinci, G., Mazzei, P., Drosos, M., **Zaccone, C.**, Piccolo, A. (2020) Molecular characterization of ombrotrophic peats by humeomics. *Chemical and Biological Technologies in Agriculture*, 7: 18.

Impact factor (-): 2.929
AGRICULTURE, MULTIDISCIPLINARY (7/58)

9. Giannetta, B., Siebecker, M.G., **Zaccone, C.***, Plaza, C., Rovira, P., Vischetti, C., Sparks, D.L. (2020) Iron(III) fate after complexation with soil organic matter in fine silt and clay fractions: an EXAFS spectroscopic approach. *Soil & Tillage Research*, 200: 104617.

Impact factor (-): 4.601
SOIL SCIENCE (4/38)

10. Bletsa, E., **Zaccone, C.***, Miano, T., Terzano, R., Deligiannakis, Y. (2020) Natural Mn-todorikite as an efficient and green azo dye-degradation catalyst. *Environmental Sciences and Pollution Research*, 27: 9835–9842.

Impact factor (-): 3.056
ENVIRONMENTAL SCIENCES (99/265)

11. Bao, K., **Zaccone, C.**, Tao, Y., Wang, J., Shen, J., Zhang, Y. (2020) Source apportionment of priority PAHs in 11 lake sediment cores from Songnen Plain, Northeast China. *Water Research*, 168: 115158.

Impact factor (-): 9.130
ENGINEERING, ENVIRONMENTAL (3/53), ENVIRONMENTAL SCIENCES (6/265), WATER RESOURCES (1/94)

12. Segnana, M., Oeggl, K., Poto, L., Gabrieli, J., Festi, D., Kofler, W., Cesco Frare, P., **Zaccone, C.**, Barbante, C. (2020) Holocene vegetation history and human impact in the eastern Italian Alps: a multi-proxy study on the Coltrondo peat bog, Comelico Superiore, Italy. *Vegetation History and Archaeobotany*, 29: 407-426.

Impact factor (-): 2.364
PLANT SCIENCES (72/234), PALEONTOLOGY (8/55)

13. Giannetta, B., Plaza, C., **Zaccone, C.***, Vischetti, C., Rovira, P. (2019) Ecosystem type effects on the stabilization of organic matter in soils: combining size fractionation with sequential chemical extractions. *Geoderma*, 353: 423-434.

Impact factor (2019): 4.848
SOIL SCIENCE (3/38, Q1)

14. Plaza, C., Giannetta, B., Benavente, I., Vischetti, C., **Zaccone, C.*** (2019) Density-based fractionation of soil organic matter: effects of heavy liquid and heavy fraction washing. *Scientific Reports*, 9: 10146.

Impact factor (2019): 3.998
MULTIDISCIPLINARY SCIENCES (17/71, Q1)

15. Giannetta, B., **Zaccone, C.***, Plaza, C., Siebecker, M.G., Rovira, P., Vischetti, C., Sparks, D.L. (2019) The role of Fe(III) in soil organic matter stabilization in two size fractions having opposite features. *Science of the Total Environment*, 653: 667-674.
Impact factor (2019): 6.551
ENVIRONMENTAL SCIENCES (22/265, Q1)
16. Plaza, C., **Zaccone, C.**, Sawicka, K., Méndez, A.M., Tarquis, A., Gascó, G., Heuvelink, G.B.M., Schuur, E.A.G., Maestre, F.T. (2018) Soil resources and element stocks in drylands to face global issues. *Scientific Reports*, 8: 13788.
Impact factor (2018): 4.011
MULTIDISCIPLINARY SCIENCES (15/69, Q1)
17. **Zaccone, C.***, Beneduce, L., Lotti, C., Martino, G., Plaza, C. (2018) DNA occurrence in organic matter fractions isolated from amended, agricultural soils. *Applied Soil Ecology*, 130: 134-142.
Impact factor (2018): 3.445
SOIL SCIENCE (8/35, Q1)
18. **Zaccone, C.***, Plaza, C., Ciavatta, C., Miano, T.M., Shotyk, W. (2018) Advances in the determination of humification degree in peat since Achard (1786): applications in geochemical and paleoenvironmental studies. *Earth-Science Reviews*, 185: 163-178 [with cover].
Impact factor (2018): 9.530
GEOSCIENCES, MULTIDISCIPLINARY (3/196, Q1)
19. Giannetta, B., Plaza, C., Vischetti, C., Cotrufo, M.F., **Zaccone, C.*** (2018) Distribution and thermal stability of physically and chemically protected organic matter fractions in soils across different ecosystems. *Biology and Fertility of Soils*, 54: 671-681.
Impact factor (2018): 4.829
SOIL SCIENCE (2/35, Q1)
20. Provenzano, M.R., Cavallo, O., Malerba, A.D., Fabbri, C., **Zaccone, C.** (2018) Unravelling (maize silage) digestate features throughout a full-scale plant: a spectroscopic and thermal approach. *Journal of Cleaner Production*, 193: 372-378.
Impact factor (2018): 6.395
ENGINEERING, ENVIRONMENTAL (8/52, Q1), ENVIRONMENTAL SCIENCES (18/250, Q1), GREEN & SUSTAINABLE SCIENCE AND TECHNOLOGY (6/35, Q1)
21. Davies, L.J., Appleby, P., Jensen, B.J.L., Magnan, G., Mullan-Boudreau, G., Noernberg, T., Shannon, B., Shotyk, W., van Bellen, S., **Zaccone, C.**, Froese, D.G. (2018) High-resolution age modelling of peat bogs from northern Alberta, Canada, using pre- and post-bomb ¹⁴C, ²¹⁰Pb and historical cryptotephra. *Quaternary Geochronology*, 47: 138-162.
Impact factor (2018): 3.962
GEOGRAPHY, PHYSICAL (11/50, Q1), GEOSCIENCES, MULTIDISCIPLINARY (28/196, Q1)
22. Brusetti, L., Ciccazzo, S., Borruso, L., Belluci, M., **Zaccone, C.**, Beneduce, L. (2018) Metataxonomy and functionality of wood-tar degrading microbial consortia. *Journal of Hazardous Materials*, 353: 108-117.
Impact factor (2018): 7.650
ENGINEERING, ENVIRONMENTAL (4/52, Q1), ENVIRONMENTAL SCIENCES (12/250, Q1)
23. van Bellen, S., Magnan, G., Davies, L., Froese, D., Mullan-Boudreau, G., **Zaccone, C.**, Garneau, M., Shotyk, W. (2018) Testate amoeba records indicate regional 20th-century lowering of water tables in ombrotrophic peatlands in central-northern Alberta, Canada. *Global Change Biology*, 24: 2758-2774.
Impact factor (2018): 8.880
BIODIVERSITY CONSERVATION (1/58, Q1), ENVIRONMENTAL SCIENCES (5/250, Q1), ECOLOGY (6/164, Q1)
24. Magnan, G., van Bellen, S., Davies, L., Froese, D., Garneau, M., Mullan-Boudreau, G., **Zaccone, C.**, Shotyk, W. (2018) Impact of the Little Ice Age cooling and 20th century climate change on peatland vegetation dynamics in central and northern Alberta using a multi-proxy approach and high-resolution peat chronologies. *Quaternary Science Reviews*, 185: 230-243.
Impact factor (2018): 4.641
GEOGRAPHY, PHYSICAL (5/50, Q1), GEOSCIENCES, MULTIDISCIPLINARY (13/196, Q1)

25. Knicker, H., Rosario-Ortiz, F.L., **Zaccone, C.** (2018) Natural organic matter: chemistry, function and fate in the environment. Preface - Special issue in memory of Frank J. Stevenson. *Journal of Soils and Sediments*, 18: 1209-1211 [Guest Editorial].
Impact factor (2018): 2.669
ENVIRONMENTAL SCIENCES (100/250, Q2), SOIL SCIENCE (13/35, Q2)
26. **Zaccone, C.***, Lobianco, D., Raber, G., D’Orazio, V., Shotyk, W., Miano, T.M., Francesconi, K. (2018) Methylated arsenic species throughout a 4-m deep core from a free-floating peat island. *Science of the Total Environment*, 621: 67-74.
Impact factor (2018): 5.589
ENVIRONMENTAL SCIENCES (27/250, Q1)
27. Kempster, H., Krachler, M., Shotyk, W., **Zaccone, C.** (2017) Validating modelled data on major and trace element deposition in southern Germany using Sphagnum moss. *Atmospheric Environment*, 167: 656-664.
Impact factor (2017): 3.708
ENVIRONMENTAL SCIENCES (54/241, Q1)
28. Bragazza, L., Buttler, A., Robroek, B.J.M., Albrecht, R., **Zaccone, C.**, Jassey, V.E.J., Signarbieux, C. (2017) Response to Editor to the comment by Delarue (2016) to our paper entitled “Persistent high temperature and low precipitation reduce peat carbon accumulation”. *Global Change Biology*, 23: e7-e8.
Impact factor (2017): 8.997
BIODIVERSITY CONSERVATION (1/55, Q1), ENVIRONMENTAL SCIENCES (3/241, Q1), ECOLOGY (5/158, Q1)
29. Concheri, G., Stevanato, P., **Zaccone, C.**, Shotyk, W., D’Orazio, V., Miano, T., Piffanelli, P., Rizzi, V., Ferrandi, C., Squartini, A. (2017) Rapid peat accumulation favours the occurrence of both fen and bog microbial communities within a Mediterranean, free-floating peat island. *Scientific Reports*, 7: 8511.
Impact factor (2017): 4.122
MULTIDISCIPLINARY SCIENCES (12/64, Q1)
30. Kempster, H., Krachler, M., Shotyk, W., **Zaccone, C.** (2017) Major and trace metals in Sphagnum moss from four southern German bogs, and comparison with available moss monitoring data. *Ecological Indicators*, 78: 19-25.
Impact factor (2017): 3.983
ENVIRONMENTAL SCIENCES (48/241, Q1)
31. Shotyk, W., Appleby, P.G., Bicalho, B., Davies, L.J., Froese, D., Grant-Weaver, I., Magnan, G., Mullan-Boudreau, G., Noernberg, T., Pelletier, R., Shannon, R., van Bellen, S., **Zaccone, C.** (2017) Peat bogs document decades of declining atmospheric contamination by trace metals in the Athabasca Bituminous Sands region. *Environmental Science & Technology*, 51: 6237-6249.
Impact factor (2017): 6.653
ENGINEERING, ENVIRONMENTAL (4/50, Q1), ENVIRONMENTAL SCIENCES (11/241, Q1)
32. **Zaccone, C.***, Lobianco, D., Shotyk, W., Ciavatta, C., Appleby, P.G., Brugiapaglia, E., Casella, L., Miano, T.M., D’Orazio, V. (2017) Highly anomalous accumulation rates of C and N recorded by a relic, free-floating peatland in Central Italy. *Scientific Reports*, 7: 43040.
Impact factor (2017): 4.122
MULTIDISCIPLINARY SCIENCES (12/64, Q1)
33. Shotyk, W., Bicalho, B., Cuss, C.W., Donner, M.W., Grant-Weaver, I., Haas-Neill, S., Javed, M.B., Krachler, M., Noernberg, T., Pelletier, R., **Zaccone, C.** (2017) Trace metals in the dissolved fraction (<0.45 µm) of the lower Athabasca River: analytical challenges and environmental implications. *Science of the Total Environment*, 580: 660-669.
Impact factor (2017): 4.610
ENVIRONMENTAL SCIENCES (27/241, Q1)
34. Bragazza, L., Buttler, A., Robroek, B.J.M., Albrecht, R., **Zaccone, C.**, Jassey, V.E.J., Signarbieux, C. (2016) Persistent high temperature and low precipitation reduce peat carbon accumulation. *Global Change Biology*, 22(12): 4114-4123.
Impact factor (2016): 8.502
BIODIVERSITY CONSERVATION (1/53, Q1), ENVIRONMENTAL SCIENCES (5/229, Q1), ECOLOGY (6/153, Q1)

35. Shotyk, W., Appleby, P.G., Bicalho, B., Davies, L., Froese, D., Grant-Weaver, I., Krachler, M., Magnan, G., Mullan-Boudreau, G., Noernberg, T., Pelletier, R., Shannon, B., van Bellen, S., **Zaccone, C.** (2016) Peat bogs in northern Alberta, Canada reveal decades of declining atmospheric Pb contamination. *Geophysical Research Letters*, 43: 9964-9974.
Impact factor (2016): 4.253
GEOSCIENCES, MULTIDISCIPLINARY (14/188, Q1)
36. Shotyk, W., Bicalho, B., Cuss, C.W., Duke, M.J.M., Noernberg, T., Pelletier, R., Steinnes, E., **Zaccone, C.** (2016) Dust is the dominant source of “heavy metals” to peat moss (*Sphagnum fuscum*) in the bogs of the Athabasca Bituminous Sands region of northern Alberta. *Environment International*, 92-93: 494-506.
Impact factor (2016): 7.088
ENVIRONMENTAL SCIENCES (7/229, Q1)
37. Plaza, C., Giannetta, B., Fernández, J.M., López-de-Sá, E.G., Polo, A., Gascó, G., Méndez, A., **Zaccone, C.** (2016) Response of different soil organic matter pools to biochar and organic fertilizers. *Agriculture, Ecosystems and Environment*, 225: 150-159.
Impact factor (2016): 4.099
AGRICULTURE, MULTIDISCIPLINARY (1/56, Q1), ENVIRONMENTAL SCIENCES (35/229, Q1), ECOLOGY (30/153, Q1)
38. Zhang, Y., Shotyk, W., **Zaccone, C.**, Noernberg, T., Pelletier, R., Bicalho, B., Froese, D.G., Davies, L., Martin, J.W. (2016) Airborne Petcoke Dust is a Major Source of Polycyclic Aromatic Hydrocarbons in the Athabasca Oil Sands Region. *Environmental Science & Technology*, 50(4): 1711-1720.
Impact factor (2016): 6.198
ENGINEERING, ENVIRONMENTAL (4/49, Q1), ENVIRONMENTAL SCIENCES (12/229, Q1)
39. Shotyk, W., Kempster, H., Krachler, M., **Zaccone, C.** (2015) Stable (^{206}Pb , ^{207}Pb , ^{208}Pb) and radioactive (^{210}Pb) lead isotopes in 1 year of growth of *Sphagnum* moss from four ombrotrophic bogs in southern Germany: geochemical significance and environmental implications. *Geochimica et Cosmochimica Acta*, 163: 101-125.
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1. Zhang, Y., Shotyky, W., Pelletier, R., **Zaccone, C.**, Noernberg, T., Mullan-Boudreau, G., Martin, J. Sources, Spatial-Distributions and Fluxes of PAH-Contaminated Dusts in the Athabasca Oil Sands Region. *Environmental Science & Technology*.
2. Schillaci, C., Saia, S., Lipani, A., Perego, A., **Zaccone, C.**, Acutis, M. Determination of minimum number of samples allowing to detect long term soil organic carbon changes in Mediterranean arable lands using paired-sites. *Carbon Balance and Management*.

B) Book Chapters (n = 14)

1. Ciavatta, C., Centemero, M., Toselli, M., **Zaccone, C.**, Senesi, N. (in press) *Compost Production, Analysis and Applications in Agriculture*. In: Yang, Y., Keiluweit, M., Senesi, N., Xing, B. (Eds). *Multi-Scale Biogeochemical Processes in Soil Ecosystems - Critical Reactions and Resilience to Climate Changes*. Volume 5. Wiley - IUPAC Series on Biophysico-Chemical Processes in Environmental Systems.
2. Caporale, A.G., **Zaccone, C.** (2020) *Chapter 2. Basilicata*. In: Adamo, P., Capra, G.F., Vacca, A., Vianello, G. (Eds). *Proverbi del suolo/Soil Proverbs*, Geoparemiologia, Edizioni dell'Orso, pp. 35-44 (ISSN: 2704-9183; ISBN: 978-88-3613-032-0).
3. Plaza, C., Gascó, G., Méndez, A., **Zaccone, C.**, Maestre, F.T. (2018) *Chapter 2. Soil organic matter in dryland ecosystems*. In: García, C., Nannipieri, P., Hernández, T. (Eds.). *The Future of Soil Carbon: Its conservation and formation*, Elsevier, pp. 39-70 (ISBN: 978-0-12-811687-6; doi: 10.1016/B978-0-12-811687-6.00002-X).
4. **Zaccone, C.**, Castellano, C., Miano, T., Balena, P., Bonifazi, A. (2017) *Capitolo 3.1. Governo del territorio e "soil conservation": fattori di rischio di perdita di sostanza organica del suolo in Puglia*. In: Torre, C.M.,

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 6. **Zaccone, C.**, Sequi, P. (2017) *Capitolo 1. Suolo e ambiente*. In: Sequi P., Ciavatta C., Miano T. (Coord.). *Fondamenti di Chimica del suolo*, pp. 235-256, pp. 15-25 (ISBN: 978-88-555-3362-1) (in Italian).
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C) Contributions in Conference Proceedings or in Journals with ISSN or ISBN (n = 11)

1. **Zaccone, C.**, Plaza, C., Ciavatta, C., Miano, T.M., Shotyky, W., 2018 - *Determination of humification degree in peat profiles*. In: Book of Abstracts of the 19th Meeting of the International Humic Substances Society “Humic Substances and their contribution to the climate change mitigation”, September 16-21, 2018, Albena Resort, Varna Region, Bulgaria, 53-54 (ISBN: 978-619-90189-3-4).
2. Cavallo, O., De la Rosa, J.M., González-Pérez, J.A., **Zaccone, C.**, Knicker, H., Pezzolla, D., Gigliotti, G., Provenzano, M.R., 2018 - *Effects of percolate recirculation frequency on the organic matter composition after solid-state anaerobic digestion of straw and pig slurry*. In: Book of Abstracts of the 19th Meeting of the International Humic Substances Society “Humic Substances and their contribution to the climate change mitigation”, September 16-21, 2018, Albena Resort, Varna Region, Bulgaria, 285-286 (ISBN: 978-619-90189-3-4).
3. Pavan, C., Celi, L., D’Amico, M., Freppaz, M., Siniscalco, C., **Zaccone, C.**, 2016 - *Relazione tra specie vegetali e clima nella formazione di una torbiera alpina su serpentinite*. *Nimbus*, 75: 29-32 (ISSN: 1122-4339) (in Italian).
4. **Zaccone, C.**, Miano, T.M., 2011 - *La percezione del suolo come “memoria storica” dei cambiamenti ambientali*. In: Le Penseur (Ed). “La percezione del Suolo” - Atti del workshop. Giornata mondiale del Suolo, 2-3 December, 2010, Palermo, Italy, 203-206 (ISBN: 978-88-95315-11-9) (in Italian).
5. **Zaccone, C.**, Shotyky, W., Coccozza, C., Miano, T.M., 2010 - *Major and trace elements biogeochemistry and C sequestration in bog soils*. In: Gilkes RJ, Prakongkep N (Eds.). *Proceedings of the 19th World Congress of*

- Soil Science; Soil Solutions for a Changing World (ISBN: 978-0-646-53783-2); Published on DVD; <http://www.iuss.org>; Division Symposium 2.1; Wetland soils and global change; 2010 Aug 1-6. Brisbane, Australia: IUSS; 2010, pp. 33-36.
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 8. **Zaccone, C.**, Coccozza, C., Cheburkin, A.K., Shotyk, W., Miano, T.M., 2007 - *Il bromo nella torba e negli acidi umici - Possibili implicazioni nella ricostruzione del suo ciclo biogeochimico?* In: "Suolo Ambiente Paesaggio". Atti del Convegno Nazionale della Società Italiana della Scienza del Suolo (2006), Imola, Italy, 147-153 (ISBN: 88-902831-1-4) (in Italian).
 9. **Zaccone, C.**, Miano, T., Shotyk, W., 2007 - *Evoluzione delle componenti organiche ed interazioni con gli elementi traccia in una torbiera ombrotrofica.* In: "Il suolo: sistema centrale nell'ambiente e nell'agricoltura". Atti del Convegno Nazionale della Scienza del Suolo (2005), Bari, Italy, 211-218 (ISBN: 978-88-902831-0-9) (in Italian).
 10. **Zaccone, C.**, Miano, T., Shotyk, W., 2006 - *Bromine Behavior in Raw Peat and Humic Acids from an Ombrotrophic Bog.* In: F.H. Frimmel and G. Abbt-Braun (Eds.) "Humic Substances – Linking Structure to Functions". Proceedings of the 13th Meeting of the International Humic Substances Society, Karlsruhe, Germany. Vol. II, pp. 657-660 (ISSN: 1612-118x).
 11. Gentile, F., Puglisi, S., **Zaccone, C.**, 2004 - *Un esempio di sistemazione a basso impatto ambientale di un'area in frana in Italia meridionale.* In: 10th Internationales Symposium "INTERPRAEVENT 2004", 24-28 maggio 2004, Riva/Trient, Italy. Vol. II, pp. 161-172 (ISBN: 3901164065) (in Italian).

D) Contributions in National and International Congresses (n = 148)

1. Beneduce, L., Plaza, C., Trotta, S., **Zaccone, C.**, 2020 - *Interaction of exogenous microbial inoculum with soil organic matter fractions.* EGUosphere, 6731 (doi: 10.5194/egusphere-egu2020-6731).
2. Giannetta, B., Balint, R., Said-Pullicino, D., Plaza, C., Martin, M., **Zaccone, C.**, 2020 - *Fe(II)-catalyzed transformation of Fe (hydr)oxides in particle-size soil organic matter fractions from amended agricultural soils.* EGUosphere, 14483 (doi: 10.5194/egusphere-egu2020-14483).
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2. "Relazione suolo-pianta e qualità delle produzioni" (a cura di: V. Lattanzio, **C. Zaccone**). Atti del XXIX Convegno Nazionale della Società Italiana di Chimica Agraria, 21-23 September, 2011, Foggia, Italy. pp. 108 + xxii (in Italian).

1. “*Suolo e cambiamento climatico*”. World Soil Day 2020 “L’essenziale è invisibile agli occhi: la vita segreta del suolo”, Trento (Italy), 9 December, 2020.
2. “*Does physical fractionation of SOM pools preserve information about microbial taxa distribution and ecological functions?*”. First Joint Meeting on Soil and Plant System Sciences (SPSS 2019) “Natural and Human-induced Impacts on the Critical Zone and Food Production”, Bari (Italy), 23-26 September, 2019.
3. “*The mystery of free-floating islands: from C sinks to environmental archives*”. University of Verona (Italy), 10 May, 2018.
4. “*I problemi della prevenzione e della repressione degli illeciti in materia ambientale: il contributo delle Scienze del suolo*”. “Terra solchi di verità e giustizia”, Foggia (Italy), 15 March, 2018.
5. “*Using DNA to unravel SOM fate in agricultural soils*”. 42° Congresso Nazionale della Società Italiana della Scienza del Suolo “Il suolo al servizio degli ecosistemi”, Firenze (Italy), 5-7 December, 2017.
6. “*High resolution records of organic matter accumulation, trace element and dust depositions and environmental changes from the free-floating peat island of Posta Fibreno*”. 11th International Conference “Humic Substances in Ecosystems (HSE11)”, Kudowa-Zdrój (Poland), 29 May – 1 June, 2017.
7. “*Occurrence of organic arsenic species in a 4-m deep free-floating mire*”. European Geosciences Union General Assembly, Vienna (Austria), 23-28 April, 2017.
8. “*Free-floating islands as records of the past*”. 41° Congresso Nazionale della Società Italiana della Scienza del Suolo “Soil: a world to discover”, Ancona (Italy), 5-7 December, 2016.
9. “*How fast does organic matter may accumulate? The “mystery” of floating islands*”. 18th International Conference of the International Humic Substances Society “Keystone for future Earth: Natural Organic Matter (NOM) in diverse environments”, Kanazawa (Japan), 11-16 September, 2016.
10. “*Peat bogs as natural archives of human activity and environmental changes throughout centuries*”. Joint International Summer School “Advanced methods and new integrated approaches to study soil processes in mountain ecosystems”, Pieve Tesino (Italy), 26-30 June, 2016.
11. “*Peat bogs and their role as natural archives*”. Institute of Chemistry, University of Graz, Graz (Austria), 20 April, 2016.
12. “*Seven centuries of atmospheric Pb deposition recorded in a floating mire from Central Italy*”. European Geosciences Union General Assembly, Vienna (Austria), 18-22 April, 2016.
13. “*Floating mires and environmental changes*”. Workshop “Plant-soil-water interfaces in riverine, hydromorphic, subaqueous ecosystems”, Imola (Italy), 23-24 June, 2015.
14. “*Is biochar application always a good strategy to preserve organic matter in agricultural soils? An overview*”. Carbon Storage in Soil and Its Role in Supporting Agriculture, Universities for EXPO 2015, Milan (Italy), 18 June, 2015.
15. “*Organic matter evolution throughout a 100-cm ombrotrophic profile from an Italian floating mire*”. European Geosciences Union General Assembly, Vienna (Austria), 12-17 April, 2015.
16. “*Introduction to the Soil System*”. PhD International Winter School “Feeding the world: the contribution of research in agricultural chemistry to sustainable development”, Piacenza (Italy), 9-12 February, 2015.
17. “*Peat bogs, a thousand years old time machine*”. University of Torino, Grugliasco (Italy), 7 November, 2014.
18. “*Sphagnum mosses from twenty-one ombrotrophic bogs in the Athabasca Bituminous Sands region fail to reveal significant atmospheric contamination of “heavy metals”: from contemporary mining and upgrading activities*”. ELS 2014 “The Earth Living Skin: Soil, Life and Climate Changes”, Bari (Italy), 22-25 September, 2014.
19. “*Comparing humification indices along ombrotrophic peat profiles*”. ELS 2014 “The Earth Living Skin: Soil, Life and Climate Changes”, Bari (Italy), 22-25 September, 2014.
20. “*Soil quality conservation in Italy*”. Soil and Water Conservation course, University of Alberta, Edmonton (Canada), 2 April, 2014.
21. “*Soil Organic Matter: from molecular to landscape scales*”. CAIP Chair Candidate Seminar, University of Alberta, Edmonton (Canada), 3 February, 2014.
22. “*Organic matter evolution in peat following smouldering fire - implications for palaeoenvironmental reconstructions*”. Renewable Resources Seminar Series, University of Alberta, Edmonton (Canada), 5 December, 2013.
23. “*Physico-chemical and spectroscopic investigations of organic matter evolution in peat affected by smouldering - A lab experiment*”. European Geosciences Union General Assembly, Vienna (Austria), 7-12 April, 2013.
24. “*Gestione della sostanza organica e processi degradativi nel suolo*”. X Convegno AISSA “La valorizzazione del territorio agrario e il controllo del degrado del suolo”, Palermo (Italy), 28-29 November, 2012.

25. "Characterization of the peat organic material following smouldering wildfires: possible implications in the reconstruction of paleoenvironmental changes". 16th Meeting of the International Humic Substances Society "Functions of Natural Organic Matter in Changing Environment", Hangzhou (China), 9-14 September, 2012.
26. "Do smouldering fires along peat columns affect paleoenvironmental reconstructions?". 4th International Congress EUROSOIL 2012 "Soil Science for the Benefit of Mankind and Environment", Bari (Italy), 2-6 July, 2012.
27. "Reconstructing paleoenvironmental changes using ombrotrophic bog profiles". PhD International Summer School "Soil, plant and biomasses in a changing environment", Pieve Tesino (Italy), 16-19 May, 2012.
28. "The humus 'memory' - Are paleoenvironmental changes and past human activities archived in peat humic acids?". European Geosciences Union General Assembly, Vienna (Austria), 22-27 April, 2012.
29. "Evolution of the peat organic material following smouldering wildfires and possible implications in paleoenvironmental reconstructions". IX National Meeting of the International Humic Substances Society - Italian Chapter, Portici (Italy), 5-7 December, 2011.
30. "Humification processes and trace elements geochemistry in a Swiss ombrotrophic peat bog". XXVIII National Congress of the Italian Society of Agricultural Chemistry, Piacenza (Italy), 20-21 September, 2010.
31. "Sustainable utilization of peat bog areas". Wetlands management and strategy course, "Multidisciplinary Training programme for Iraqi officers and technicians" project, CIHEAM-IAM.B, Bari (Italy), 09 July, 2010.
32. "Conservative behaviour of the isotopic ratios trend in peat humic acids". European Geosciences Union General Assembly, Vienna (Austria), 02-07 May, 2010.
33. "Influence of water table changes on peat features and humification processes". European Geosciences Union General Assembly, Vienna (Austria), 02-07 May, 2010.
34. "Natural vs. anthropogenic sources of organic and inorganic contaminants recorded in an undisturbed bog profile". XIX International Symposium on Environmental Biogeochemistry ISEB 2009 "Environmental Changes and Sustainability of Biogeochemical Cycling", Hamburg (Germany), 14-18 September, 2009.
35. "Humus memory - Investigating the role of humic acids in the accumulation of organic and inorganic pollutants along an ombrotrophic bog profile". COST Action 639 BurnOut (Greenhouse gas budgets from soils under changing climate and land use), Peatland meeting, Helsinki (Finland), May 19-20, 2009.
36. "2000 anni di deposizione atmosferica di PAHs ricostruiti mediante l'utilizzo di un profilo di torbiera ombrotrofica (bog)". National Congress of Italian Society of Soil Science, Ancona-Monte Catria (Italy), June 24-27, 2008.
37. "Diagenetic trends of phenolic constituents in Sphagnum-dominated peat and its corresponding humic fraction along a bog profile". COST Action 639 BurnOut, Conference and Workshop, Birmensdorf (Switzerland), March 6-8, 2008.
38. "Organic soils as witnesses of human activity in the centuries". 5th International Congress of the European Society for Soil Conservation, Palermo (Italy), 25-30 June, 2007.
39. "Input antropogenici di Pb, Cu e ¹³⁷Cs registrati in un istosuolo". VII National Congress of the International Humic Substances Society, Italian division, Catania (Italy), 31 May - 1st June, 2007.
40. "Bromine in peat and related humic acids from ombrotrophic bog and implications in the reconstruction of its fate". European Geosciences Union General Assembly, Vienna (Austria), 15-20 April, 2007.
41. "Possibile uso delle torbiere ombrotrofiche quali archivi delle deposizioni atmosferiche". Faculty of Agriculture, University of Bari (Italy), 30 October, 2006.
42. "Influenza delle procedure di estrazione degli AU sul contenuto di alcuni elementi traccia". XXIV National Congress of the Italian Society of Agricultural Chemistry, Alghero (Italy), 1-4 October, 2006.
43. "Il comportamento del bromo tra torba ed acidi umici estratti da due profili ombrotrofici (peat bogs)". National Congress of the Italian Society of Soil Science, Imola (Italy), 27-30 June, 2006.
44. "Caratterizzazione di sostanza organica ed acidi umici da una torbiera ombrotrofica svizzera". VI National Congress of the International Humic Substances Society, Italian division, Perugia (Italy), 15-16 December, 2005.
45. "Sostanza organica ed acidi umici estratti lungo un profilo di torbiera ombrotrofica, e rispettive interazioni con i metalli". Faculty of Agriculture, University of Bari (Italy), 9 November, 2005.
46. "Organic matter and humic acids in an ombrotrophic peat bog profile, and interactions with metals". Institute of Environmental Geochemistry, University of Heidelberg (Germany), 27 October, 2005.
47. "Raw peat and humic acids in a Swiss ombrotrophic bog profile". Institute of Environmental Geochemistry, University of Heidelberg (Germany), 8 July, 2005.
48. "Descrizione e caratterizzazione di un profilo di una torbiera ombrotrofica svizzera". Faculty of Agriculture, University of Bari (Italy), 22 November, 2004.