

CURRICULUM VITÆ

4 December 2018

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

Place and date of birth: Valsinni, 31st December 1977
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<https://sites.google.com/a/unifg.it/dr-claudio-zaccone/>

**Education and Career**

- 2018** (March) *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. 2023)
- 2017** (April) *National Habilitation* as Full Professor in Agricultural Chemistry (Apr. 2017 - Apr. 2023)
- 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. 2020)
- 2014** (February) *National Habilitation* as Associate Professor in Geochemistry (Feb. 2014 - Feb. 2020)
- 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"
- 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.M. Miano
- 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** (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"

Scientific activity

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

Main research interests: *i*) molecular and functional characterization of organic matter in soils, sediments and biomass, *ii*) interactions between humic substances and organic/inorganic pollutants, *iii*) biogeochemistry of trace elements, radionuclides and organic pollutants: utilization of ombrotrophic profiles as archives of atmospheric depositions during centuries (natural vs. anthropogenic sources), *iv*) evolution of organic matter in soils and sediments in relation to climate changes (sinks or sources of C?), *v*) biomass utilization in agricultural soils.

- Peer-reviewed publications (ISI-JCR) with Impact Factor	58
- Book Chapters	12
- Contributions in Conference Proceedings and in Journals without Impact Factor	> 145
- Seminars and invited lectures	> 45
- Scientific/Organizing Committees	> 15
- Convener/Chairperson during scientific conferences and congresses	> 40

Bibliometrics:

H-index: Scopus, 20; WoS, 19; g-Scholar, 22

Citations: Scopus, 1004; WoS, 885; g-Scholar, 1293

<http://www.researcherid.com/rid/A-8568-2008>

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

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

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

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

Academic activity (Teaching and Institutional)

2018-2019	<p>“Soil Chemistry”, Dept. of the Sciences of Agriculture, Food and Environment, University of Foggia</p> <p>“Soil quality and biomass management”, Dept. of the Sciences of Agriculture, Food and Environment, University of Foggia</p> <p>“The soil: biotic and abiotic components”, International Centre for Advanced Mediterranean Agronomic Studies of Bari (CIHEAM - IAM Bari)</p> <p>Member of the <i>Board of Professors</i>, Ph.D. School “Soil and Food Sciences”, specialization “Agricultural Chemistry” (XXXIV cycle), University of Bari</p>
2017-2018	<p>“Soil Chemistry”, Dept. of the Sciences of Agriculture, Food and Environment, University of Foggia</p> <p>“Soil quality and biomass management”, Dept. of the Sciences of Agriculture, Food and Environment, University of Foggia</p> <p>“The soil: biotic and abiotic components”, International Centre for Advanced Mediterranean Agronomic Studies of Bari (CIHEAM - IAM Bari)</p> <p>Member of the <i>Board of Professors</i>, Ph.D. School “Soil and Food Sciences”, specialization “Agricultural Chemistry” (XXXIII cycle), University of Bari</p>
2016-2017	<p>“Soil Chemistry”, Dept. of the Sciences of Agriculture, Food and Environment, University of Foggia</p> <p>“Soil quality and biomass management”, Dept. of the Sciences of Agriculture, Food and Environment, University of Foggia</p> <p>“The soil: biotic and abiotic components”, International Centre for Advanced Mediterranean Agronomic Studies of Bari (CIHEAM - IAM Bari)</p> <p>Member of the <i>Board of Professors</i>, Ph.D. School “Soil and Food Sciences”, specialization “Agricultural Chemistry” (XXXII cycle), University of Bari</p>
2015-2016	<p>“Soil Chemistry”, Dept. of the Sciences of Agriculture, Food and Environment, University of Foggia</p> <p>“Soil quality and biomass management”, Dept. of the Sciences of Agriculture, Food and Environment, University of Foggia</p> <p>“The soil: biotic and abiotic components”, International Centre for Advanced Mediterranean Agronomic Studies of Bari (CIHEAM - IAM Bari)</p>

- 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, 3 MSc students, 1 PhD student; International Advisor of 1 MSc student; Advisor of 1 post-doc researcher.

Member of the Scientific Commission of the Department of the Sciences of Agriculture, Food and Environment (2016-2020)

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

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

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

Elected Vice Chair, Commission 4.1. (Soils and the Environment), Division 4, International Union of Soil Sciences (IUSS) (March 2018-present)

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

Member ex-officio of the Board of the International Humic Substances Society (IHSS) (September 2016-present)

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)

Elected Member of the Division IV (Environmental and Social Role of Soil), Italian Society of Soil Science (SISS) (2015-present)

Treasurer, Italian Society of Soil Science (SISS) (January 2015-present)

Science Officer of the Soil System Sciences (SSS) division, European Geosciences Union (EGU) (May 2014-present)

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

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

Secretary of the Commission II (Soil Chemistry), Italian Society of Soil Science (SISS) (2012-2014)

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

Web Officer of the International Humic Substances Society (IHSS) (July 2011-to date)

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

iii) Editorial activity

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

Member of the *Editorial Board* of *Journal of Soils and Sediments* (Springer), a peer-reviewed, ISI-JCR journal (Jan.2017-to present)

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

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

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

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

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

Guest Editor for the following (5) ISI-JCR journals: *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 (>60) international peer-reviewed journals (ISI, JCR): *Applied Geochemistry* (Elsevier), *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), *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), *Geoderma* (Elsevier), *Global and Planetary Change* (Elsevier), *HortScience* (Amer. Soc. Horticultural Science), *International Agrophysics* (De Gruyter), *International Journal of Environmental Analytical Chemistry* (Taylor & Francis), *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 Plant Nutrition and Soil Science* (Wiley), *Journal of Soils and Sediments* (Springer), *Journal of Synchrotron Radiation* (Wiley), *Land Degradation & Development* (Wiley), *Minerals* (MDPI), *Organic Geochemistry* (Elsevier), *Palaeogeography, Palaeoclimatology, Palaeoecology* (Elsevier), *Precision Agriculture* (Springer), *Quaternary International* (Elsevier), *Science of the Total Environment* (Elsevier), *Scientia Horticulturae* (Elsevier), *Scientific Reports* (Nature Publishing Group), *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* (MDPI), *Applied and Environmental Soil Science* (Hindawi), *Chemical and Biological Technologies in Agriculture* (Springer), *Cogent Food & Agriculture* (Taylor & Francis), *iForest - Biogeosciences and Forestry* (SISEF), *Journal of Environmental Chemistry and Ecotoxicology* (Academic Journals), *Journal of Environmental Protection* (Scientific Research Publishing), *Open Agriculture* (De Gruyter), *Soil Horizons* (SSSA), *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) and the German Research Foundation (2017).

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

v) Scientific and Organizing Committees

1. 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
2. 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
3. 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
4. Member of the *Scientific Committee* of the X School of Soil Biodiversity, May 22-24, 2018, Giussago, Italy
5. 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
6. Member of the *Scientific Committee* of the IX School of Soil Biodiversity, July 6-7, 2017, Palermo, Italy
7. 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
8. Member of the *Scientific Committee* of the XL National Congress of the Italian Society of Soil Science, December 1-3, 2015, Roma, Italy
9. Member of the *Scientific Committee* of the International workshop “Plant-soil-water interfaces in hydromorphic subaqueous ecosystems”, 23-24 June, 2015, Imola, Italy
10. 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

11. 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
12. 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
13. 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
14. Member of the *Scientific Committee* of the National Congress of the Italian Society of Soil Science, June 25-28, 2013, Viterbo, Italy
15. 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
16. Member of the *National Organizing Committee* of the 4th International Congress EUROSOIL 2012, July 02-06, 2012, Bari, Italy
17. 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
18. 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
19. 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* 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
2. *Co-convener* of Session SSS5.13 “Biogeochemistry and hydrology of hydromorphic soils”, European Geosciences Union General Assembly, 8-13 April, 2018, Vienna, Austria
3. *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
4. *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
5. *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
6. *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
7. *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
8. *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
9. *Co-convener* of Session SSS5.4 “Future challenges in biochar research”, European Geosciences Union General Assembly, 23-28 April, 2017, Vienna, Austria
10. *Chairperson* of the Session “Environment”, XXXIV National Conference of the Italian Society of Agricultural Chemistry, 5-7 October, 2016, Perugia, Italy
11. *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
12. *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
13. *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
14. *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
15. *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

16. *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
17. *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
18. *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
19. *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
20. *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
21. *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
22. *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
23. *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
24. *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
25. *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
26. *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
27. *Chairman* of Session I “Soil”, XXXI National Meeting of the Italian Society of Agricultural Chemistry, 16-17 September, 2013, Napoli, Italy
28. *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
29. *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
30. *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
31. *Co-convener and Chairperson* of Session S07.06 “Mechanisms of C sequestration and stabilization in soils”, 4th International Congress EUROSOIL 2012”, July 02-06, 2012, Bari, Italy
32. *Co-convener and Chairperson* of Session S05.01 “Soils organic matter amendments: impacts, benefits, and risks”, 4th International Congress EUROSOIL 2012”, July 02-06, 2012, Bari, Italy
33. *Convener and Chairperson* of Session S01.01 “Soils and sediments as natural archives”, 4th International Congress EUROSOIL 2012”, July 02-06, 2012, Bari, Italy
34. *Convener and Chairperson* of Session SSS10.2 “Soils as record of the past”, European Geosciences Union General Assembly, 22-27 April, 2012, Vienna, Austria
35. *Chairperson* of Session SSS1.1 “Milestones in Soil Science Research”, European Geosciences Union General Assembly, 22-27 April, 2012, Vienna, Austria
36. *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
37. *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
38. *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
39. *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

40. *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
41. *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** *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 (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-Forestal 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

“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]

Scientific publications

A) Peer-reviewed publications (ISI-JCR) with Impact Factor (n = 58, since 2007; * = corresponding author)

1. 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 (-): 4.610
ENVIRONMENTAL SCIENCES (27/241)

2. 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 (-): 4.122
MULTIDISCIPLINARY SCIENCES (12/64)

3. **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 (-): 2.916
SOIL SCIENCE (8/34)

4. **Zaccone, C.***, Plaza, C., Ciavatta, C., Miano, T.M., Shoty, 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.

Impact factor (-): 7.491

GEOSCIENCES, MULTIDISCIPLINARY (4/189)

5. 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 (-): 3.808
SOIL SCIENCE (4/34)
6. 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 (-): 5.651
GREEN & SUSTAINABLE SCIENCE AND TECHNOLOGY (6/33), ENGINEERING, ENVIRONMENTAL (7/50), ENVIRONMENTAL SCIENCES (21/241)
7. 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 ^{14}C , ^{210}Pb and historical cryptotephra. *Quaternary Geochronology*, 47: 138-162.
Impact factor (-): 3.440
GEOGRAPHY, PHYSICAL (12/49), GEOSCIENCES, MULTIDISCIPLINARY (33/189)
8. 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 (-): 6.434
ENGINEERING, ENVIRONMENTAL (5/50), ENVIRONMENTAL SCIENCES (13/241)
9. 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 (-): 8.997
BIODIVERSITY CONSERVATION (1/55), ENVIRONMENTAL SCIENCES (3/241), ECOLOGY (5/158)
10. 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 (-): 4.334
GEOGRAPHY, PHYSICAL (5/49), GEOSCIENCES, MULTIDISCIPLINARY (12/189)
11. 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 (-): 2.627
ENVIRONMENTAL SCIENCES (90/241), SOIL SCIENCE (11/34)
12. **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 (-): 4.610
ENVIRONMENTAL SCIENCES (27/241)
13. Kempter, 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)
14. Bragazza, L., Buttler, A., Robroek, B.J.M., Albrecht, R., **Zaccone, C.**, Jasey, 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)

15. 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)
16. Kempter, 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)
17. 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)
18. **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)
19. 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)
20. 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)
21. 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)
22. 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)
23. 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)
24. 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)
25. Shotyk, W., Kempter, 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.
- Impact factor (2015): 4.315
GEOCHEMISTRY & GEOPHYSICS (8/81, Q1)
26. Shotyk, W., Belland, R., Duke, J., Kempter, H., Krachler, M., Noernberg, T., Pelletier, R., Vile, M.A., Wieder, K., **Zaccone, C.**, Zhang, S., 2015 - Response to Comment on “*Sphagnum* mosses from 21 ombrotrophic bogs in the Athabasca Bituminous Sands region show no significant atmospheric contamination of ‘heavy metals’”. *Environmental Science & Technology*, 49(10): 6354-6357.
- Impact factor (2015): 5.393
ENGINEERING, ENVIRONMENTAL (3/49, Q1), ENVIRONMENTAL SCIENCES (14/225, Q1)
27. Kluiving, S., van Mourik, J.M., **Zaccone, C.**, 2015 - Man versus Nature: natural and anthropogenic footprints recorded in the soil archives. *Catena*, 132: 69-71 [Guest Editorial].
- Impact factor (2015): 2.612
GEOSCIENCES, MULTIDISCIPLINARY (42/184, Q1), SOIL SCIENCE (9/34, Q2)
28. Abdeldaym, E.A., Erriquens, F., Sasanelli, N., Ceglie, F.G., **Zaccone, C.**, Miano, T., Cocozza, C., 2014 - Effects of several amendments on organic melon growth and production, *Meloidogyne incognita* population and soil properties. *Scientia Horticulturae*, 180: 156-160.
- Impact factor (2014): 1.365
HORTICULTURE (9/33, Q2)
29. Shotyk, W., Belland, R., Duke, J., Kempter, H., Krachler, M., Noernberg, T., Pelletier, R., Vile, M.A., Wieder, K., **Zaccone, C.**, Zhang, S., 2014 - *Sphagnum* mosses from 21 ombrotrophic bogs in the Athabasca Bituminous Sands region show no significant atmospheric contamination of “heavy metals”. *Environmental Science & Technology*, 48(21): 12603-12611.
- Impact factor (2014): 5.330
ENGINEERING, ENVIRONMENTAL (3/47, Q1), ENVIRONMENTAL SCIENCES (10/221, Q1)
30. **Zaccone, C.***, Cavoski, I., Costi, R., Sarais, G., Caboni, P., Traversa, A., Miano, T.M., 2014 - Ptaquiloside in *Pteridium aquilinum* subsp. *aquilinum* and corresponding soils from the South of Italy: influence of physical and chemical features of soils on its occurrence. *Science of the Total Environment*, 496: 365-372.
- Impact factor (2014): 4.099
ENVIRONMENTAL SCIENCES (18/221, Q1)
31. **Zaccone, C.***, Rein, G., D’Orazio, V., Hadden, R.M., Belcher, C.M., Miano, T.M., 2014 - Smouldering fire signatures in peat and their implications for palaeoenvironmental reconstructions. *Geochimica et Cosmochimica Acta*, 137: 134-146.
- Impact factor (2014): 4.331
GEOCHEMISTRY & GEOPHYSICS (9/79, Q1)
32. **Zaccone, C.***, Quideau, S., Sauer, D., 2014 - Soils and paleosols as archives of natural and anthropogenic environmental changes. *European Journal of Soil Science*, 65(4): 403-405 [Guest Editorial].
- Impact factor (2014): 2.649
SOIL SCIENCE (7/34, Q1)
33. Puglisi, E., **Zaccone, C.**, Cappa, F., Cocconcelli, P.S., Shotyk, W., Trevisan, M., Miano, T.M., 2014 - Changes in bacterial and archaeal community assemblages along an ombrotrophic peat bog profile. *Biology and Fertility of Soils*, 50(5): 815-826.
- Impact factor (2014): 3.398
SOIL SCIENCE (2/34, Q1)
34. Senesi, G.S., Dell’Aglia, M., De Giacomo, A., De Pascale, O., Al Chami, Z., Miano, T.M., **Zaccone, C.**, 2014 - Elemental composition analysis of plants and composts used for soil remediation by Laser-Induced Breakdown Spectroscopy. *Clean - Soil, Air, Water*, 42(6): 791-798.
- Impact factor (2014): 1.945
ENVIRONMENTAL SCIENCES (100/221, Q2)

35. Kooch, Y., **Zaccone, C.***, Lamersdorf, N.P., Tonon, G., 2014 - Pit and mound influence on soil features in an Oriental Beech (*Fagus orientalis* Lipsky) forest. *European Journal of Forest Research*, 133(2): 347-354.
Impact factor (2014): 2.095
FORESTRY (9/65, Q1)
36. **Zaccone, C.***, Pabst, S., Senesi, G.S., Shotyk, W., Miano, T.M., 2013 - Comparative evaluation of the mineralogical composition of *Sphagnum* peat and their corresponding humic acids, and implications for understanding past dust depositions. *Quaternary International*, 306(C): 80-87.
Impact factor (2013): 2.128
GEOGRAPHY, PHYSICAL (23/46, Q2), GEOSCIENCES, MULTIDISCIPLINARY (58/173, Q2)
37. Poto, L., Gabrieli, J., Crowhurst, S.J., Appleby, P.G., Ferretti, P., Surian, N., Cozzi, G., **Zaccone, C.**, Turetta, C., Pini, R., Kehrwald, N., Barbante, C., 2013 - The first continuous Late Glacial - Holocene peat bog multi-proxy record from the Dolomites (NE Italian Alps). *Quaternary International*, 306(C): 71-79.
Impact factor (2013): 2.128
GEOGRAPHY, PHYSICAL (23/46, Q2), GEOSCIENCES, MULTIDISCIPLINARY (58/173, Q2)
38. Kluiving, S.J., van Mourik, J.M., Barbante, C., **Zaccone, C.***, 2013 - Soils as a Record of the Past. *Quaternary International*, 306(C): 1-2 [Guest Editorial].
Impact factor (2013): 2.128
GEOGRAPHY, PHYSICAL (23/46, Q2), GEOSCIENCES, MULTIDISCIPLINARY (58/173, Q2)
39. Kooch, Y., Hosseini, S.M., **Zaccone, C.***, Jalilvand, H., Hojjati, S.M., 2012 - Soil organic carbon sequestration as affected by afforestation: the Darab Kola forest (North of Iran) case study. *Journal of Environmental Monitoring*, 14(9): 2438-2446.
Impact factor (2012): 2.085
CHEMISTRY, ANALYTICAL (34/75, Q2), ENVIRONMENTAL SCIENCES (84/209, Q2)
40. **Zaccone, C.***, Miano, T.M., Shotyk, W., 2012 - Interpreting the ash trend within ombrotrophic bog profiles: atmospheric dust depositions vs. mineralization processes. The Etang de la Gruère case study. *Plant & Soil*, 353(1): 1-9.
Impact factor (2012): 2.638
AGRONOMY (9/78, Q1), PLANT SCIENCES (45/195, Q1), SOIL SCIENCE (4/34, Q1)
41. **Zaccone, C.***, Casiello, G., Longobardi, F., Bragazza, L., Sacco, A., Miano, T.M., 2011 - Evaluating the 'conservative' behaviour of stable isotopic ratios ($\delta^{13}\text{C}$, $\delta^{15}\text{N}$, and $\delta^{18}\text{O}$) in humic acids and their reliability as paleoenvironmental proxies along a peat sequence. *Chemical Geology*, 285(1-4): 124-132.
Impact factor (2011): 3.518
GEOCHEMISTRY & GEOPHYSICS (7/76, Q1)
42. Dell'Aglio, M., Gaudiuso, R., Senesi, G.S., De Giacomo, A., **Zaccone, C.***, Miano, T.M., De Pascale, O., 2011 - Monitoring of heavy metals in polluted soils by Laser Induced Breakdown Spectroscopy (LIBS). *Journal of Environmental Monitoring*, 13(5): 1422-1426.
Impact factor (2011): 1.991
CHEMISTRY, ANALYTICAL (34/73, Q2), ENVIRONMENTAL SCIENCES (79/205, Q2)
43. **Zaccone, C.***, Sanei, H., Outridge, P.M., Miano, T.M., 2011 - Studying the humification degree and evolution of peat down a Holocene bog profile (Inuvik, NW Canada): A petrological and chemical perspective. *Organic Geochemistry*, 42(4): 399-408.
Impact factor (2011): 2.785
GEOCHEMISTRY & GEOPHYSICS (17/76, Q1)
44. Cocozza, C., Parente, A., **Zaccone, C.**, Mininni, C., Santamaria, P., Miano, T., 2011 - Chemical, physical and spectroscopic characterization of *Posidonia oceanica* (L.) Del. residues and their possible recycle. *Biomass & Bioenergy*, 35(2): 799-807.
Impact factor (2011): 3.646
AGRICULTURAL ENGINEERING (2/12, Q1), ENERGY & FUELS (13/81, Q1)
45. Cocozza, C., Parente, A., **Zaccone, C.**, Mininni, C., Santamaria, P., Miano, T., 2011 - Comparative management of offshore *Posidonia* residues: Composting vs. energy recovery. *Waste Management*, 31(1): 78-84.
Impact factor (2011): 2.482
ENGINEERING, ENVIRONMENTAL (12/45, Q2), ENVIRONMENTAL SCIENCES (57/205, Q2)

46. **Zaccone, C.**, Di Caterina, R., Rotunno, T., Quinto, M., 2010 - Soil-farming system-food-health: effect of conventional and organic fertilizers on heavy metal (Cd, Cr, Cu, Ni, Pb, Zn) content in semolina samples. *Soil & Tillage Research*, 107(2): 97-105.
Impact factor (2010): 2.100
SOIL SCIENCE (8/32, Q1)
47. **Zaccone, C.***, D'Orazio, V., Shotyk, W., Miano, T.M., 2009 - Chemical and spectroscopic investigation of porewater and aqueous extracts of corresponding peat samples throughout a bog core (Jura Mountains, Switzerland). *Journal of Soils and Sediments*, 9(5): 443-456.
Impact factor (2009): 2.613
SOIL SCIENCE (3/31, Q1)
48. **Zaccone, C.***, Soler-Rovira, P., Plaza, C., Coccozza, C., Miano, T.M., 2009 - Variability in As, Ca, Cr, K, Mn, Sr, and Ti concentrations among humic acids isolated from peat using NaOH, Na₄P₂O₇ and NaOH+Na₄P₂O₇ solutions. *Journal of Hazardous Materials*, 167(1-3): 987-994.
Impact factor (2009): 4.144
ENGINEERING, ENVIRONMENTAL (4/42, Q1), ENVIRONMENTAL SCIENCES (10/180, Q1)
49. Senesi, G.S., Dell'Aglio, M., Gaudioso, R., De Giacomo, A., **Zaccone, C.**, De Pascale, O., Miano, T.M., Capitelli, M., 2009 - Heavy metal concentrations in soils as determined by laser induced breakdown spectroscopy (LIBS), with special emphasis on chromium. *Environmental Research*, 109(4): 413-420.
Impact factor (2009): 3.237
ENVIRONMENTAL SCIENCES (23/180, Q1), PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH (19/122, Q1)
50. **Zaccone, C.***, Gallipoli, A., Coccozza, C., Trevisan, M., Miano, T.M., 2009 - Distribution patterns of selected PAHs in bulk peat and corresponding humic acids from a Swiss ombrotrophic bog profile. *Plant and Soil*, 315(1-2): 35-45.
Impact factor (2009): 2.517
AGRONOMY (9/61, Q1), PLANT SCIENCES (31/162, Q1), SOIL SCIENCE (4/31, Q1)
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SOIL SCIENCE (6/31, Q1)
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SOIL SCIENCE (5/30, Q1)

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GEOCHEMISTRY & GEOPHYSICS (15/63, Q1)

Papers under review (n = 3)

1. Segnana, M., Oeggli, K., Poto, L., Gabrieli, J., Festi, D., Kofler, W., Cesco Frare, P., **Zaccone, C.**, Barbante, C. - Holocene vegetation history and human impact in the Eastern Italian Alps: a multi-proxy study on the Coltrondo peat bog, Comelico Superiore, Italy. *Palaeogeography, Palaeoclimatology, Palaeoecology*.
2. Giannetta, B., Plaza, C., **Zaccone, C.***, Vischetti, C., Rovira, P. - Land use effects on the stabilization of organic matter in soils: combining size fractionation with sequential chemical extractions. *Geoderma*.
3. Plaza, C., Giannetta, B., Benavente, I., Vischetti, C., **Zaccone, C.** - Density-based fractionation of soil organic matter: effects of heavy liquid and heavy fraction washing. *Scientific Reports*.

B) Book Chapters (n = 12)

1. 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).
2. **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., Bonifazi, A., Arcidiacono, A., Ronchi, S., Salata, S. (a cura di). *Il consumo di suolo in Puglia - 2017. Rapporti regionali*, INU Edizioni, pp. 279-290 (ISBN: 978-88-7603-160-1) (in Italian).
3. Badalucco, L., Laudicina, V.A., **Zaccone, C.**, 2017 - *Capitolo 12. Suoli particolari*. In: Sequi P., Ciavatta C., Miano T. (Coord.). *Fondamenti di Chimica del suolo*, Pàtron editore, pp. 235-256 (ISBN: 978-88-555-3362-1) (in Italian).
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5. **Zaccone, C.**, Martin, M., Freppaz, M., Said-Pullicino, D., Celi, L., 2015 - *Peatlands and organic soils*. In: Romeo, Vita, Manuelli, Zanini, Freppaz, Stanchi (Eds). *Understanding Mountain Soils: A contribution from mountain areas to the International Year of Soils 2015*. FAO, Rome, Italy, pp. 67-69 (ISBN: 978-92-5-108804-3).
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7. **Zaccone, C.**, Pabst, S., Miano, T.M., Shotyk, W., 2013 - *The fate of mineral particles in bulk peat and corresponding humic acids throughout an ombrotrophic bog profile: atmospheric dust depositions vs. mineralization processes*. In: Xu, J., Wu, J., He, Y. (Eds.). *Functions of Natural Organic Matter in Changing Environment*, Springer, Vol. I, pp. 61-65 (print ISBN: 978-94-007-5633-5; on-line ISBN: 978-94-007-5634-2) (doi: 10.1007/978-94-007-5634-2_11).
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11. Contento, F., **Zaccone, C.**, Buono, F., Ladisa, G., Grittani, A., 2008 - *Handbook of Indicators*. In: Lacirignola, C., Notarangelo, B. (Eds.). Management Criteria: a handbook for the sustainable management of protected areas in the Adriatic euro-region. IAM Bari, Italy, pp. 109 + Cd-rom (ISBN: 2-85352-402-7).
12. Gentile, F., **Zaccone, C.**, Forte, L., Mantino, F., Puglisi, S., 2006 - Impiego di briglie filtranti in un torrente della Basilicata e aspetti della rinaturazione indotti dal tipo di intervento. In: Nuova Editoriale Bios. Le sistemazioni idraulico-forestali per la difesa del territorio. *Quaderni di Idronomia Montana*, 26: 413-423 (ISBN: 88-6093-009-X) (in Italian).

C) Articles in Conference Proceedings, and in National or International Journals without Impact Factor (n = 16)

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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.**, D'Orazio, V., Lobianco, D., Miano, T.M., Adamo, P., Shotyky, W., 2014 - *Peat Evolution along Deep Profiles from a Floating Mire (Posta Fibreno, Centre of Italy)*. In: "Natural Organic Matter: Structure, Dynamics, Innovative applications". Book of Abstracts, 17th Meeting of the International Humic Substances Society, 1-5 September 2014, Ioannina, Greece, 7-8.
5. **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).
6. **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.
7. **Zaccone, C.**, Shotyky, W., Miano, T.M., 2010 - *Past Human Activities and Environmental Changes as Recorded by Humic Acids from Raised Bogs*. In: "Advances in natural organic matter and humic substances research". Proceedings Book of 15th Meeting of the International Humic Substances Society, Vol. 1, pp. 60-63.
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9. **Zaccone, C.**, D'Orazio, V., Coccozza, C., Mondelli, D., Miano, T.M., 2007 - *Il contenuto di alcuni elementi traccia negli AU da torba: influenza dei diversi estraenti*. In: Atti del XXIV Convegno Nazionale della Società Italiana di Chimica Agraria (2006), Alghero, Italy, 148-156 (in Italian).
10. Parente A., Coccozza, C., Spinelli, M., **Zaccone, C.**, Miano, T.M., Santamaria, P., 2007 - *I residui di Posidonia oceanica (L.) Del.: un rifiuto o una risorsa da valorizzare?* In: Maggioli (Ed.) "La cultura e le tecnologie ambientali in Italia ed in Europa". Atti dei seminari Ecomondo 2007, Rimini, Italy, vol. 317-1, pp. 79-83 (ISBN: 88-387-3979-X) (in Italian).
11. **Zaccone, C.**, Coccozza, C., Cheburkin, A.K., Shotyky, 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).

12. **Zaccone, C.**, Coccozza, C., Shotyky, W., Miano, T.M., 2007 - *Input antropogenici di Pb, Cu e ¹³⁷Cs registrati in un istosuolo*. In: Atti del VII Convegno Nazionale International Humic Substances Society - Sez. Italiana, Catania, Italy, 88-91 (in Italian).
13. **Zaccone, C.**, Miano, T., Shotyky, 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).
14. **Zaccone, C.**, Miano, T., Shotyky, 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).
15. **Zaccone, C.**, Miano, T.M., Shotyky, W., 2005 - *Caratterizzazione di sostanza organica ed acidi umici da una torbiera ombrotrofica svizzera*. In: Atti del VI Convegno Nazionale International Humic Substances Society - Sez. Italiana, Perugia, Italy, 113-115 (in Italian).
16. 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 = 131)

1. Giannetta, B., **Zaccone, C.**, Plaza, C., Siebecker, M., Aquilanti, G., Czyzycki, M., Vischetti, C., Sparks, D.L., 2018 - *A spectroscopic approach to Fe speciation in SOM pools under agricultural soils subjected to biochar and organic fertilizers*. In: Atti del XXXVI Convegno Nazionale della Società Italiana di Chimica Agraria "Il ruolo della Chimica Agraria per la gestione sostenibile delle risorse agrarie e forestali", settembre 24-26, 2018, Reggio Calabria, Italy, 37-38.
2. Davies, L., Froese, D., Appleby, P., Jensen, B, Magnan, G., Mullan-Boudreau, G., Noernberg, T., Shotyky, W., van Bellen, S., **Zaccone, C.**, 2018 - *Modern cryptotephra and high-resolution Bayesian age modelling of peat bog profiles: a case study using six sites from Alberta, Canada*. In: Book of Abstracts of the INTAV International Field Conference on Tephrochronology, 24 June - 1 July, 2018, Moieciu de Sus, Romania, 51.
3. Zhang, Y., Shotyky, W., Noernberg, T., Pelletier, R., Mullan-Boudreau, G., **Zaccone, C.**, Martin, J.W., 2018 - *Atmospheric Deposition of Polycyclic Aromatic Hydrocarbons in the Athabasca Oil Sands Region*. In: Abstracts of the 101st Canadian Chemistry Conference and Exhibition, 27-31 May, 2018, Edmonton, Canada, CSC181654.
4. Giannetta, B., **Zaccone, C.**, Plaza, C., Siebecker, M.G., Rovira, P., Vischetti, C., Sparks, D.L., 2018 - *Soil Organic Matter-Mineral interactions across different land uses: the importance of Fe-mediated stabilization*. Geophysical Research Abstracts, Vol. 20, 10582 (ISSN: 1029-7006; eISSN: 1607-7962).
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8. Giannetta, B., Plaza, C., **Zaccone, C.**, Siebecker, M.G., Rovira, P., Vischetti, C., Sparks, D.L., 2017 - *Impact of Fe(III)-OM complexes and Fe(III) polymerization on SOM pools reactivity under different land uses*. In: Abstracts of the AGU Fall Meeting, 11-15 December, 2017, New Orleans, USA, B41D-1974.
9. **Zaccone, C.**, Beneduce, L., Lotti, C., Martino, G., Plaza, C., 2017 - *Using DNA to unravel SOM fate in agricultural soils*. In: Libro dei Riassunti del 42° Congresso Nazionale della Società Italiana della Scienza del Suolo "Il suolo al servizio degli ecosistemi", 5-7 December, 2017, Firenze, Italy, 41.
10. Giannetta, B., **Zaccone, C.**, Plaza, C., Siebecker, M.G., Vischetti, C., Sparks, D.L., 2017 - *Fe(III) fate after complexation with SOM pools under different land uses*. In: Atti del XXXV Convegno Nazionale della Società Italiana di Chimica Agraria "La ricerca in Chimica Agraria: integrazione dello studio dei sistemi suolo, pianta e ambiente", 11-13 September, 2017, Udine, Italy, 14.
11. Cavallo, O., Provenzano, M.R., **Zaccone, C.**, Pezzolla, D., Gigliotti, G., de la Rosa, J.M., González-Pérez, J.A., Knicker, H., 2017 - *Influence of percolate recirculation on the stability of digestate from straw and pig slurry*. In: Book of Abstract of the GRIFA-IHSS Summer School, 6-8 June, 2017, Siracusa, Italy, 7.

12. **Zaccone, C.**, 2017 - *High resolution records of organic matter accumulation, trace element and dust depositions and environmental changes from the free-floating peat island of Posta Fibreno*. In: Book of Abstracts of the 11th International Conference “Humic Substances in Ecosystems (HSE11)”, 29 May – 1 June, 2017, Kudowa-Zdrój, Poland, 45.
13. Zhang, Y., Shotyky, W., Davies, L., Froese, D.G., Noernberg, T., Pelletier, R., **Zaccone, C.**, Martin, J.W., 2017 - *High-Resolution Record of Polycyclic Aromatic Hydrocarbon Deposition in Peat Bogs of Canada*. In: Book of Abstracts of the 3rd International Conference on Environmental Pollution and Health, 13-14 May, 2017, Guangzhou, China, S10-04.
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17. Giannetta, B., **Zaccone, C.**, Rovira, P., Vischetti, C., Plaza, C., 2017 - *Nitrogen stabilization in organo-mineral fractions from soils with different land uses*. Geophysical Research Abstracts, Vol. 19, 17977 (ISSN: 1029-7006; eISSN: 1607-7962).
18. Lobianco, D., **Zaccone, C.**, Raber, G., D'Orazio, V., Miano, T., Francesconi, K., 2017 - *Occurrence of organic arsenic species in a 4-m deep free-floating mire*. Geophysical Research Abstracts, Vol. 19, 7552 (ISSN: 1029-7006; eISSN: 1607-7962).
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20. Davies, L.J., Froese, D., Appleby, P., van Bellen, S., Magnan, G., Mullan-Boudreau, G., Noernberg, T., Shotyky, W., **Zaccone, C.**, 2016 - *High-resolution age modelling of peat bog profiles using pre and post-bomb 14C, 210Pb and cryptotephra data from six Albertan peat bogs*. In: Abstracts of the AGU Fall Meeting, 12-16 December, 2016, San Francisco, USA, B23C-0598.
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23. Martino, G., Beneduce, L., Plaza, C., **Zaccone, C.**, 2016 - *Total and bacterial DNA diversity in physically isolated SOM pools, and possible implication in C sequestration phenomena*. In: Libro dei Riassunti del 41° Congresso Nazionale della Società Italiana della Scienza del Suolo “Soil: a world to discover”, 5-7 December, 2016, Ancona, Italy, 26.
24. **Zaccone, C.**, Lobianco, D., D'Orazio, V., P. Appleby, Miano, T., Shotyky, W., 2016 - *Free-floating islands as records of the past*. In: Libro dei Riassunti del 41° Congresso Nazionale della Società Italiana della Scienza del Suolo “Soil: a world to discover”, 5-7 December, 2016, Ancona, Italy, 4.
25. Froese, D., Davies, L.J., Appleby, P., Bandara, S., van Bellen, S., Magnan, G., Mullan-Boudreau, G., Noernberg, T., Shotyky, W., Staniszevsk, K., **Zaccone, C.**, 2016 - *High-resolution age modelling of peat bog profiles using pre and post-bomb 14C, 210Pb and cryptotephra data from Alberta and Yukon peatlands*. In: Book of Papers of the 1st DANTE workshop “Dating the ANThropocene in Environmental archives”, 19-21 October, 2016, Toulouse, France, 17.
26. Cavallo, O., **Zaccone, C.**, Pezzolla, D., Tacconi, C., Provenzano, M.R., Gigliotti, G., 2016 - *Analisi termogravimetrica di campioni di liquame suino e paglia sottoposti a pretrattamento anaerobico e successivo compostaggio*. In: Atti del XXXIV Convegno Nazionale della Società Italiana di Chimica Agraria “Ambiente e Sostenibilità: il ruolo della chimica agraria dalla ricerca alla produttività”, 5-7 October, 2016, Perugia, Italy, 36 (in Italian).
27. **Zaccone, C.**, Lobianco, D., Shotyky, W., Miano, T.M., D'Orazio, V., 2016 - *Le torbiere flottanti ed il loro ruolo come sink di carbonio*. In: Atti del XXXIV Convegno Nazionale della Società Italiana di Chimica

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28. Martino, G., Sakrabani, R., **Zaccone, C.**, 2016 - *Development of an innovative approach to evaluate VOCs production from unamended and amended soils using SIFT-MS*. In: Atti del XXXIV Convegno Nazionale della Società Italiana di Chimica Agraria “Ambiente e Sostenibilità: il ruolo della chimica agraria dalla ricerca alla produttività”, 5-7 October, 2016, Perugia, Italy, 18.
 29. **Zaccone, C.**, D’Orazio, V., Lobianco, D., Shotyky, W., Miano, T., 2016 - *How fast does organic matter may accumulate? The “mystery” of floating islands*. In: Proceedings of the 18th International Conference of the International Humic Substances Society “Keystone for future Earth: Natural Organic Matter (NOM) in diverse environments”, 11-16 September, 2016, Kanazawa, Japan, O3-4.
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E) Other (n = 1)

1. "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 settembre, 2011, Foggia, Italy. pp. 108 + xxii (in Italian).

Seminars and invited lectures in National/International Congresses and Meetings

1. "The mystery of free-floating islands: from C sinks to environmental archives". University of Verona (Italy), 10 May, 2018.
2. "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.
3. "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.
4. "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.
5. "Occurrence of organic arsenic species in a 4-m deep free-floating mire". EUROPEAN GEOSCIENCES UNION General Assembly, Vienna (Austria), 23-28 April, 2017.
6. "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.

7. *"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.
8. *"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.
9. *"Peat bogs and their role as natural archives"*. Institute of Chemistry, University of Graz, Graz (Austria), 20 April, 2016.
10. *"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.
11. *"Floating mires and environmental changes"*. Workshop "Plant-soil-water interfaces in riverine, hydromorphic, subaqueous ecosystems", Imola (Italy), 23-24 June, 2015.
12. *"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.
13. *"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.
14. *"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.
15. *"Peat bogs, a thousand years old time machine"*. University of Torino, Grugliasco (Italy), 7 November, 2014.
16. *"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.
17. *"Comparing humification indices along ombrotrophic peat profiles"*. ELS 2014 "The Earth Living Skin: Soil, Life and Climate Changes", Bari (Italy), 22-25 September, 2014.
18. *"Soil quality conservation in Italy"*. Soil and Water Conservation course, University of Alberta, Edmonton (Canada), 2 April, 2014.
19. *"Soil Organic Matter: from molecular to landscape scales"*. CAIP Chair Candidate Seminar, University of Alberta, Edmonton (Canada), 3 February, 2014.
20. *"Organic matter evolution in peat following smouldering fire - implications for palaeoenvironmental reconstructions"*. Renewable Resources Seminar Series, University of Alberta, Edmonton (Canada), 5 December, 2013.
21. *"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.
22. *"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.
23. *"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.
24. *"Do smouldering fires along peat columns affect paleoenvironmental reconstructions?"*. 4th International Congress EUROSIL 2012 "Soil Science for the Benefit of Mankind and Environment", Bari (Italy), 2-6 July, 2012.
25. *"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.
26. *"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.
27. *"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.
28. *"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.
29. *"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.
30. *"Conservative behaviour of the isotopic ratios trend in peat humic acids"*. EUROPEAN GEOSCIENCES UNION General Assembly, Vienna (Austria), 02-07 May, 2010.
31. *"Influence of water table changes on peat features and humification processes"*. EUROPEAN GEOSCIENCES UNION General Assembly, Vienna (Austria), 02-07 May, 2010.

32. “*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.
33. “*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.
34. “*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.
35. “*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.
36. “*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.
37. “*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.
38. “*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.
39. “*Possibile uso delle torbiere ombrotrofiche quali archivi delle deposizioni atmosferiche*”. Faculty of Agriculture, University of Bari (Italy), 30 October, 2006.
40. “*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.
41. “*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.
42. “*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.
43. “*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.
44. “*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.
45. “*Raw peat and humic acids in a Swiss ombrotrophic bog profile*”. Institute of Environmental Geochemistry, University of Heidelberg (Germany), 8 July, 2005.
46. “*Descrizione e caratterizzazione di un profilo di una torbiera ombrotrofica svizzera*”. Faculty of Agriculture, University of Bari (Italy), 22 November, 2004.

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