

Riccardo Spaccini

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

111
papers

4,235
citations

38
h-index

60
g-index

114
ext. papers

4,861
ext. citations

5.7
avg, IF

5.59
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 111 | Differences in nutrients, organic components and decomposition pattern of <i>Phillyrea angustifolia</i> leaf litter across a low maquis. <i>Plant and Soil</i> , 2021 , 464, 559-578 | 4.2 | 2 |
| 110 | Humic substances from green compost increase bioactivity and antibacterial properties of essential oils in Basil leaves. <i>Chemical and Biological Technologies in Agriculture</i> , 2021 , 8, | 4.4 | 8 |
| 109 | Molecular characterization of soil organic matter and its extractable humic fraction from long-term field experiments under different cropping systems. <i>Geoderma</i> , 2021 , 383, 114700 | 6.7 | 8 |
| 108 | Bioactivity and antimicrobial properties of chemically characterized compost teas from different green composts. <i>Waste Management</i> , 2021 , 120, 98-107 | 8.6 | 15 |
| 107 | Efficient simultaneous removal of heavy metals and polychlorobiphenyls from a polluted industrial site by washing the soil with natural humic surfactants. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 25748-25757 | 5.1 | 5 |
| 106 | Insights on Molecular Characteristics of Hydrochars by C-NMR and Off-Line TMAH-GC/MS and Assessment of Their Potential Use as Plant Growth Promoters. <i>Molecules</i> , 2021 , 26, | 4.8 | 2 |
| 105 | Hydrochar obtained with by-products from the sugarcane industry: Molecular features and effects of extracts on maize seed germination. <i>Journal of Environmental Management</i> , 2021 , 281, 111878 | 7.9 | 1 |
| 104 | Acclimation with humic acids enhances maize and tomato tolerance to salinity. <i>Chemical and Biological Technologies in Agriculture</i> , 2021 , 8, | 4.4 | 3 |
| 103 | Changes in water-extractable organic matter in tropical forest and agricultural soils as detected by the DRIFT spectroscopy technique. <i>Land Degradation and Development</i> , 2021 , 32, 4755 | 4.4 | 0 |
| 102 | Molecular properties of the Humeome of two calcareous grassland soils as revealed by GC/qTOF-MS and NMR spectroscopy. <i>Chemosphere</i> , 2021 , 279, 130518 | 8.4 | 1 |
| 101 | Soil Amendments with Lignocellulosic Residues of Biorefinery Processes Affect Soil Organic Matter Accumulation and Microbial Growth. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 3381-3391 | 8.3 | 5 |
| 100 | Infrared spectra of soil organic matter under a primary vegetation sequence. <i>Chemical and Biological Technologies in Agriculture</i> , 2020 , 7, | 4.4 | 13 |
| 99 | Humic acids trigger the weak acids stress response in maize seedlings. <i>Chemical and Biological Technologies in Agriculture</i> , 2020 , 7, | 4.4 | 6 |
| 98 | Humic extracts from hydrochar and Amazonian Anthrosol: Molecular features and metal binding properties using EEM-PARAFAC and 2D FTIR correlation analyses. <i>Chemosphere</i> , 2020 , 256, 127110 | 8.4 | 7 |
| 97 | Humic extracts of hydrochar and Amazonian Dark Earth: Molecular characteristics and effects on maize seed germination. <i>Science of the Total Environment</i> , 2020 , 708, 135000 | 10.2 | 25 |
| 96 | Molecular dynamics of organic matter in a tilled soil under short term wheat cultivation. <i>Soil and Tillage Research</i> , 2020 , 196, 104448 | 6.5 | 7 |
| 95 | Amendments with humified compost effectively sequester organic carbon in agricultural soils. <i>Land Degradation and Development</i> , 2020 , 31, 1206-1216 | 4.4 | 11 |

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| 94 | Evaluation of molecular properties of humic acids from vermicompost by 13 C-CPMAS-NMR spectroscopy and thermochemolysis-GCMS. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019 , 141, 104634 ⁶ | | 17 |
| 93 | The Soil Humeome: Chemical Structure, Functions and Technological Perspectives 2019 , 183-222 | | 14 |
| 92 | Soil washing with solutions of humic substances from manure compost removes heavy metal contaminants as a function of humic molecular composition. <i>Chemosphere</i> , 2019 , 225, 150-156 | 8.4 | 52 |
| 91 | Bioactivity of humic substances and water extracts from compost made by ligno-cellulose wastes from biorefinery. <i>Science of the Total Environment</i> , 2019 , 646, 792-800 | 10.2 | 39 |
| 90 | Disease suppressiveness of agricultural greenwaste composts as related to chemical and bio-based properties shaped by different on-farm composting methods. <i>Biological Control</i> , 2019 , 137, 104026 | 3.8 | 19 |
| 89 | Molecular changes of soil organic matter induced by root exudates in a rice paddy under CO2 enrichment and warming of canopy air. <i>Soil Biology and Biochemistry</i> , 2019 , 137, 107544 | 7.5 | 20 |
| 88 | Alkamides: a new class of plant growth regulators linked to humic acid bioactivity. <i>Chemical and Biological Technologies in Agriculture</i> , 2019 , 6, | 4.4 | 14 |
| 87 | Effective carbon sequestration in Italian agricultural soils by in situ polymerization of soil organic matter under biomimetic photocatalysis. <i>Land Degradation and Development</i> , 2018 , 29, 485-494 | 4.4 | 21 |
| 86 | Linking organic matter chemistry with soil aggregate stability: Insight from 13C NMR spectroscopy. <i>Soil Biology and Biochemistry</i> , 2018 , 117, 175-184 | 7.5 | 93 |
| 85 | An alternative to mineral phosphorus fertilizers: The combined effects of <i>Trichoderma harzianum</i> and compost on <i>Zea mays</i> , as revealed by 1H NMR and GC-MS metabolomics. <i>PLoS ONE</i> , 2018 , 13, e0209864 | 3.7 | 33 |
| 84 | The Molecular Composition of Humus Carbon: Recalcitrance and Reactivity in Soils 2018 , 87-124 | | 19 |
| 83 | A molecular zoom into soil Humeome by a direct sequential chemical fractionation of soil. <i>Science of the Total Environment</i> , 2017 , 586, 807-816 | 10.2 | 42 |
| 82 | Molecular characteristics of water-extractable organic matter from different composted biomasses and their effects on seed germination and early growth of maize. <i>Science of the Total Environment</i> , 2017 , 590-591, 40-49 | 10.2 | 41 |
| 81 | In situ polymerization of soil organic matter by oxidative biomimetic catalysis. <i>Chemical and Biological Technologies in Agriculture</i> , 2017 , 4, | 4.4 | 6 |
| 80 | OMDY: a new model of organic matter decomposition based on biomolecular content as assessed by 13C-CPMAS-NMR. <i>Plant and Soil</i> , 2017 , 411, 377-394 | 4.2 | 21 |
| 79 | The molecular characteristics of compost affect plant growth, arbuscular mycorrhizal fungi, and soil microbial community composition. <i>Biology and Fertility of Soils</i> , 2016 , 52, 15-29 | 6.1 | 64 |
| 78 | Molecular Properties and Functions of Humic Substances and Humic-Like Substances (HULIS) from Biomass and Their Transformation Products 2016 , 85-114 | | 3 |
| 77 | Phosphorus speciation and high-affinity transporters are influenced by humic substances. <i>Journal of Plant Nutrition and Soil Science</i> , 2016 , 179, 206-214 | 2.3 | 27 |

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| 76 | Decomposition of bio-degradable plastic polymer in a real on-farm composting process. <i>Chemical and Biological Technologies in Agriculture</i> , 2016 , 3, | 4.4 | 16 |
| 75 | Enhancing sustainability of a processing tomato cultivation system by using bioactive compost teas. <i>Scientia Horticulturae</i> , 2016 , 202, 117-124 | 4.1 | 34 |
| 74 | On-farm compost: a useful tool to improve soil quality under intensive farming systems. <i>Applied Soil Ecology</i> , 2016 , 107, 13-23 | 5 | 63 |
| 73 | In situ photo-polymerization of soil organic matter by heterogeneous nano-TiO ₂ and biomimetic metal-porphyrin catalysts. <i>Biology and Fertility of Soils</i> , 2016 , 52, 585-593 | 6.1 | 12 |
| 72 | Characterization of typical aquatic humic substances in areas of sugarcane cultivation in Brazil using tetramethylammonium hydroxide thermochemolysis. <i>Science of the Total Environment</i> , 2015 , 518-519, 201-8 | 10.2 | 17 |
| 71 | Effects of on-farm composted tomato residues on soil biological activity and yields in a tomato cropping system. <i>Chemical and Biological Technologies in Agriculture</i> , 2015 , 2, 4 | 4.4 | 45 |
| 70 | Off-line TMAH-GC/MS and NMR characterization of humic substances extracted from river sediments of northwestern S \tilde{B} Paulo under different soil uses. <i>Science of the Total Environment</i> , 2015 , 506-507, 234-40 | 10.2 | 21 |
| 69 | Molecular Sizes and Association Forces of Humic Substances in Solution 2015 , 89-118 | | 1 |
| 68 | Unveiling the molecular composition of the unextractable soil organic fraction (humins) by humeomics. <i>Biology and Fertility of Soils</i> , 2015 , 51, 443-451 | 6.1 | 33 |
| 67 | Molecular characteristics of humic acids isolated from vermicomposts and their relationship to bioactivity. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 11412-9 | 5.7 | 39 |
| 66 | Soil Organic Matter Quality From Soils Cropped by Traditional Peasants. <i>Sustainable Agriculture Research</i> , 2014 , 3, 63 | 1 | 0 |
| 65 | Molecular characteristics of vermicompost and their relationship to preservation of inoculated nitrogen-fixing bacteria. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013 , 104, 540-550 | 6 | 30 |
| 64 | Rhizosphere microbial diversity as influenced by humic substance amendments and chemical composition of rhizodeposits. <i>Journal of Geochemical Exploration</i> , 2013 , 129, 82-94 | 3.8 | 36 |
| 63 | Remediation of highly contaminated soils from an industrial site by employing a combined treatment with exogenous humic substances and oxidative biomimetic catalysis. <i>Journal of Hazardous Materials</i> , 2013 , 261, 55-62 | 12.8 | 22 |
| 62 | Metabolomic by 1H NMR spectroscopy differentiates "Fiano di Avellino" white wines obtained with different yeast strains. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 10816-22 | 5.7 | 39 |
| 61 | Agricultural waste-based composts exhibiting suppressivity to diseases caused by the phytopathogenic soil-borne fungi <i>Rhizoctonia solani</i> and <i>Sclerotinia minor</i> . <i>Applied Soil Ecology</i> , 2013 , 65, 43-51 | 5 | 109 |
| 60 | Molecular evaluation of soil organic matter characteristics in three agricultural soils by improved off-line thermochemolysis: the effect of hydrofluoric acid demineralisation treatment. <i>Analytica Chimica Acta</i> , 2013 , 802, 46-55 | 6.6 | 34 |
| 59 | Stabilization by hydrophobic protection as a molecular mechanism for organic carbon sequestration in maize-amended rice paddy soils. <i>Science of the Total Environment</i> , 2013 , 458-460, 319-30 | 10.2 | 31 |

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| 58 | Degradation of 2,4-dichlorophenol and coupling into humic matter by oxidative biomimetic catalysis with iron-porphyrin. <i>Journal of Geochemical Exploration</i> , 2013 , 129, 28-33 | 3.8 | 10 |
| 57 | Differences in fluorescence properties between humic acid and its size fractions separated by preparative HPSEC. <i>Journal of Geochemical Exploration</i> , 2013 , 129, 23-27 | 3.8 | 20 |
| 56 | Effects of field managements for soil organic matter stabilization on water-stable aggregate distribution and aggregate stability in three agricultural soils. <i>Journal of Geochemical Exploration</i> , 2013 , 129, 45-51 | 3.8 | 34 |
| 55 | Microbiological features and bioactivity of a fermented manure product (preparation 500) used in biodynamic agriculture. <i>Journal of Microbiology and Biotechnology</i> , 2013 , 23, 644-51 | 3.3 | 26 |
| 54 | Decomposition of black locust and black pine leaf litter in two coeval forest stands on Mount Vesuvius and dynamics of organic components assessed through proximate analysis and NMR spectroscopy. <i>Soil Biology and Biochemistry</i> , 2012 , 51, 1-15 | 7.5 | 62 |
| 53 | Chemical properties of humic matter as related to induction of plant lateral roots. <i>European Journal of Soil Science</i> , 2012 , 63, 315-324 | 3.4 | 52 |
| 52 | Molecular properties of a fermented manure preparation used as field spray in biodynamic agriculture. <i>Environmental Science and Pollution Research</i> , 2012 , 19, 4214-25 | 5.1 | 29 |
| 51 | Use of a new hybrid sol-gel zirconia matrix in the removal of the herbicide MCPA: a sorption/degradation process. <i>Environmental Science & Technology</i> , 2012 , 46, 1755-63 | 10.3 | 19 |
| 50 | New Modeling Approach to Describe and Predict Carbon Sequestration Dynamics in Agricultural Soils 2012 , 291-307 | | 4 |
| 49 | Carbon Sequestration in Soils by Hydrophobic Protection and In Situ Catalyzed Photo-Polymerization of Soil Organic Matter (SOM): Chemical and Physical/Chemical Aspects of SOM in Field Plots 2012 , 61-105 | | 10 |
| 48 | The Stable Isotopes Approach to Study C and N Sequestration Processes in a Plant-Soil System 2012 , 107-144 | | 7 |
| 47 | Fulvic acid affects proliferation and maturation phases in <i>Abies cephalonica</i> embryogenic cells. <i>Journal of Plant Physiology</i> , 2011 , 168, 1226-33 | 3.6 | 24 |
| 46 | Compost amendments enhance peat suppressiveness to <i>Pythium ultimum</i> , <i>Rhizoctonia solani</i> and <i>Sclerotinia minor</i> . <i>Biological Control</i> , 2011 , 56, 115-124 | 3.8 | 128 |
| 45 | Carbon sequestration in soil by in situ catalyzed photo-oxidative polymerization of soil organic matter. <i>Environmental Science & Technology</i> , 2011 , 45, 6697-702 | 10.3 | 25 |
| 44 | Molecular changes in particulate organic matter (POM) in a typical Chinese paddy soil under different long-term fertilizer treatments. <i>European Journal of Soil Science</i> , 2010 , 61, 231-242 | 3.4 | 60 |
| 43 | Conformational Distribution of Dissolved Organic Matter Released from Compost by Repeated Water Extractions. <i>Compost Science and Utilization</i> , 2010 , 18, 105-110 | 1.2 | 3 |
| 42 | Bioactivity of chemically transformed humic matter from vermicompost on plant root growth. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 3681-8 | 5.7 | 99 |
| 41 | Remediation of waters contaminated with MCPA by the yeasts <i>Lipomyces starkeyi</i> entrapped in a sol-gel zirconia matrix. <i>Environmental Science & Technology</i> , 2010 , 44, 9476-81 | 10.3 | 18 |

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| 40 | Chemical composition and bioactivity properties of size-fractions separated from a vermicompost humic acid. <i>Chemosphere</i> , 2010 , 78, 457-66 | 8.4 | 126 |
| 39 | Molecular characteristics of humic acids extracted from compost at increasing maturity stages. <i>Soil Biology and Biochemistry</i> , 2009 , 41, 1164-1172 | 7.5 | 108 |
| 38 | Effect of humic acids on phosphate level and energetic metabolism of tobacco BY-2 suspension cell cultures. <i>Environmental and Experimental Botany</i> , 2009 , 65, 287-295 | 5.9 | 18 |
| 37 | Molecular changes in organic matter of a compost-amended soil. <i>European Journal of Soil Science</i> , 2009 , 60, 287-296 | 3.4 | 36 |
| 36 | Binding of phenol and differently halogenated phenols to dissolved humic matter as measured by NMR spectroscopy. <i>Environmental Science & Technology</i> , 2009 , 43, 5377-82 | 10.3 | 61 |
| 35 | Effects of a humic acid and its size-fractions on the bacterial community of soil rhizosphere under maize (<i>Zea mays</i> L.). <i>Chemosphere</i> , 2009 , 77, 829-37 | 8.4 | 45 |
| 34 | Relationships Between Chemical Characteristics and Root Growth Promotion of Humic Acids Isolated From Brazilian Oxisols. <i>Soil Science</i> , 2009 , 174, 611-620 | 0.9 | 51 |
| 33 | Multivariate analysis of CPMAS ¹³ C-NMR spectra of soils and humic matter as a tool to evaluate organic carbon quality in natural systems. <i>European Journal of Soil Science</i> , 2008 , 59, 496-504 | 3.4 | 32 |
| 32 | Evaluation of the factors affecting direct polarization solid state ³¹ P-NMR spectroscopy of bulk soils. <i>European Journal of Soil Science</i> , 2008 , 59, 584-591 | 3.4 | 26 |
| 31 | Reduced toxicity of olive mill waste waters by oxidative coupling with biomimetic catalysis. <i>Environmental Science & Technology</i> , 2008 , 42, 4896-901 | 10.3 | 12 |
| 30 | Carbon deposition in soil rhizosphere following amendments with compost and its soluble fractions, as evaluated by combined soil-plant rhizobox and reporter gene systems. <i>Chemosphere</i> , 2008 , 73, 1292-9 | 8.4 | 40 |
| 29 | Molecular characterization of a compost and its water-soluble fractions. <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 1017-24 | 5.7 | 29 |
| 28 | Interactions of three s-triazines with humic acids of different structure. <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 7360-6 | 5.7 | 24 |
| 27 | BIOACTIVITY AND CHEMICAL CHARACTERISTICS OF HUMIC ACIDS FROM TROPICAL SOILS SEQUENCE. <i>Soil Science</i> , 2008 , 173, 624-637 | 0.9 | 33 |
| 26 | Spectroscopic Characterization of Compost at Different Maturity Stages. <i>Clean - Soil, Air, Water</i> , 2008 , 36, 152-157 | 1.6 | 27 |
| 25 | Molecular characterization of compost at increasing stages of maturity. 1. Chemical fractionation and infrared spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2007 , 55, 2293-302 | 5.7 | 45 |
| 24 | Molecular characterization of compost at increasing stages of maturity. 2. Thermochemolysis-GC-MS and ¹³ C-CPMAS-NMR spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2007 , 55, 2303-11 | 5.7 | 64 |
| 23 | Relationship between molecular characteristics of soil humic fractions and glycolytic pathway and krebs cycle in maize seedlings. <i>Soil Biology and Biochemistry</i> , 2007 , 39, 3138-3146 | 7.5 | 124 |

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|----|---|------|-----|
| 22 | Spectroscopic and conformational properties of size-fractions separated from a lignite humic acid. <i>Chemosphere</i> , 2007 , 69, 1032-9 | 8.4 | 48 |
| 21 | Advanced CPMAS-13C NMR techniques for molecular characterization of size-separated fractions from a soil humic acid. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 386, 382-90 | 4.4 | 38 |
| 20 | Changes of humic substances characteristics from forested to cultivated soils in Ethiopia. <i>Geoderma</i> , 2006 , 132, 9-19 | 6.7 | 98 |
| 19 | Molecular and isotopic study of lipids in particle size fractions of a sandy cultivated soil (Cestas cultivation sequence, southwest France): Sources, degradation, and comparison with Cestas forest soil. <i>Organic Geochemistry</i> , 2006 , 37, 20-44 | 3.1 | 79 |
| 18 | Separation of molecular constituents from a humic acid by solid-phase extraction following a transesterification reaction. <i>Talanta</i> , 2006 , 68, 1135-42 | 6.2 | 30 |
| 17 | Influence of the addition of organic residues on carbohydrate content and structural stability of some highland soils in Ethiopia. <i>Soil Use and Management</i> , 2006 , 18, 404-411 | 3.1 | 5 |
| 16 | Soil remediation: humic acids as natural surfactants in the washings of highly contaminated soils. <i>Environmental Pollution</i> , 2005 , 135, 515-22 | 9.3 | 191 |
| 15 | Influence of land use on the characteristics of humic substances in some tropical soils of Nigeria. <i>European Journal of Soil Science</i> , 2005 , 56, 343-352 | 3.4 | 50 |
| 14 | State of the art of CPMAS 13C-NMR spectroscopy applied to natural organic matter. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2004 , 44, 215-223 | 10.4 | 146 |
| 13 | Sequestration of a Biologically Labile Organic Carbon in Soils by Humified Organic Matter. <i>Climatic Change</i> , 2004 , 67, 329-343 | 4.5 | 87 |
| 12 | Carbohydrates and aggregation in lowland soils of Nigeria as influenced by organic inputs. <i>Soil and Tillage Research</i> , 2004 , 75, 161-172 | 6.5 | 52 |
| 11 | State of the Art of CPMAS 13C-NMR Spectroscopy Applied to Natural Organic Matter. <i>ChemInform</i> , 2004 , 35, no | | 1 |
| 10 | Effects of some dicarboxylic acids on the association of dissolved humic substances. <i>Biology and Fertility of Soils</i> , 2003 , 37, 255-259 | 6.1 | 37 |
| 9 | Chemical properties of humic substances in soils of an Italian volcanic system. <i>Geoderma</i> , 2003 , 117, 243-250 | 6.7 | 23 |
| 8 | Increased soil organic carbon sequestration through hydrophobic protection by humic substances. <i>Soil Biology and Biochemistry</i> , 2002 , 34, 1839-1851 | 7.5 | 197 |
| 7 | Influence of the addition of organic residues on carbohydrate content and structural stability of some highland soils in Ethiopia. <i>Soil Use and Management</i> , 2002 , 18, 404-411 | 3.1 | 30 |
| 6 | Carbohydrates in water-stable aggregates and particle size fractions of forested and cultivated soils in two contrasting tropical ecosystems. <i>Biogeochemistry</i> , 2001 , 53, 1-22 | 3.8 | 63 |
| 5 | Decomposition of maize straw in three European soils as revealed by DRIFT spectra of soil particle fractions. <i>Geoderma</i> , 2001 , 99, 245-260 | 6.7 | 36 |

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| 4 | Transformation of organic matter from maize residues into labile and humic fractions of three European soils as revealed by ¹³ C distribution and CPMAS-NMR spectra. <i>European Journal of Soil Science</i> , 2000 , 51, 583-594 | 3.4 | 83 |
| 3 | Polymerization of humic substances by an enzyme-catalyzed oxidative coupling. <i>Die Naturwissenschaften</i> , 2000 , 87, 391-4 | 2 | 72 |
| 2 | Transformation of organic matter from maize residues into labile and humic fractions of three European soils as revealed by ¹³ C distribution and CPMAS-NMR spectra. <i>European Journal of Soil Science</i> , 2000 , 51, 583-594 | 3.4 | 26 |
| 1 | Increased sequestration of organic carbon in soil by hydrophobic protection. <i>Die Naturwissenschaften</i> , 1999 , 86, 496-9 | 2 | 64 |