

Alessandro Piccolo

List of Publications by Year in descending order

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214
papers

12,412
citations

26567

56
h-index

32761

100
g-index

216
all docs

216
docs citations

216
times ranked

9012
citing authors

#	ARTICLE	IF	CITATIONS
1	THE SUPRAMOLECULAR STRUCTURE OF HUMIC SUBSTANCES. <i>Soil Science</i> , 2001, 166, 810-832.	0.9	766
2	Humic and fulvic acids as biostimulants in horticulture. <i>Scientia Horticulturae</i> , 2015, 196, 15-27.	1.7	591
3	The supramolecular structure of humic substances: A novel understanding of humus chemistry and implications in soil science. <i>Advances in Agronomy</i> , 2002, 75, 57-134.	2.4	573
4	Molecular characterization of dissolved organic matter (DOM): a critical review. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 109-124.	1.9	523
5	Conformational Arrangement of Dissolved Humic Substances. Influence of Solution Composition on Association of Humic Molecules. <i>Environmental Science & Technology</i> , 1999, 33, 1682-1690.	4.6	265
6	Role of Hydrophobic Components of Soil Organic Matter in Soil Aggregate Stability. <i>Soil Science Society of America Journal</i> , 1999, 63, 1801-1810.	1.2	259
7	Increased soil organic carbon sequestration through hydrophobic protection by humic substances. <i>Soil Biology and Biochemistry</i> , 2002, 34, 1839-1851.	4.2	231
8	Soil remediation: humic acids as natural surfactants in the washings of highly contaminated soils. <i>Environmental Pollution</i> , 2005, 135, 515-522.	3.7	217
9	Structural characteristics of humic substances as related to nitrate uptake and growth regulation in plant systems. <i>Soil Biology and Biochemistry</i> , 1992, 24, 373-380.	4.2	180
10	State of the art of CPMAS ¹³ C-NMR spectroscopy applied to natural organic matter. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2004, 44, 215-223.	3.9	173
11	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.	4.2	164
12	Chemical composition and bioactivity properties of size-fractions separated from a vermicompost humic acid. <i>Chemosphere</i> , 2010, 78, 457-466.	4.2	164
13	Macromolecular changes of humic substances induced by interaction with organic acids. <i>European Journal of Soil Science</i> , 1996, 47, 319-328.	1.8	154
14	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.	1.4	150
15	Aggregation and Disaggregation of Humic Supramolecular Assemblies by NMR Diffusion Ordered Spectroscopy (DOSY-NMR). <i>Environmental Science & Technology</i> , 2008, 42, 699-706.	4.6	149
16	Basis of a Humeomics Science: Chemical Fractionation and Molecular Characterization of Humic Biosuprastructures. <i>Biomacromolecules</i> , 2011, 12, 1187-1199.	2.6	137
17	Adsorption of Glyphosate by Humic Substances. <i>Journal of Agricultural and Food Chemistry</i> , 1996, 44, 2442-2446.	2.4	134
18	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.	2.1	134

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19	Reduced Heterogeneity of a Lignite Humic Acid by Preparative HPSEC Following Interaction with an Organic Acid. Characterization of Size-Separates by Pyr-GC-MS And 1H-NMR Spectroscopy. <i>Environmental Science & Technology</i> , 2002, 36, 76-84.	4.6	128
20	Bioactivity of Chemically Transformed Humic Matter from Vermicompost on Plant Root Growth. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 3681-3688.	2.4	125
21	Molecular characteristics of humic acids extracted from compost at increasing maturity stages. <i>Soil Biology and Biochemistry</i> , 2009, 41, 1164-1172.	4.2	121
22	Changes of humic substances characteristics from forested to cultivated soils in Ethiopia. <i>Geoderma</i> , 2006, 132, 9-19.	2.3	115
23	Advances in humeomics: Enhanced structural identification of humic molecules after size fractionation of a soil humic acid. <i>Analytica Chimica Acta</i> , 2012, 720, 77-90.	2.6	114
24	Effects of mineral and monocarboxylic acids on the molecular association of dissolved humic substances. <i>European Journal of Soil Science</i> , 1999, 50, 687-694.	1.8	108
25	1H HRMAS-NMR metabolomic to assess quality and traceability of mozzarella cheese from Campania buffalo milk. <i>Food Chemistry</i> , 2012, 132, 1620-1627.	4.2	102
26	Sequestration of a Biologically Labile Organic Carbon in Soils by Humified Organic Matter. <i>Climatic Change</i> , 2004, 67, 329-343.	1.7	98
27	Electrospray ionization mass spectrometry of terrestrial humic substances and their size fractions. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 377, 1047-1059.	1.9	95
28	Atrazine Interactions with Soil Humic Substances of Different Molecular Structure. <i>Journal of Environmental Quality</i> , 1998, 27, 1324-1333.	1.0	93
29	Effects of coal derived humic substances on water retention and structural stability of Mediterranean soils. <i>Soil Use and Management</i> , 1996, 12, 209-213.	2.6	91
30	On-farm compost: a useful tool to improve soil quality under intensive farming systems. <i>Applied Soil Ecology</i> , 2016, 107, 13-23.	2.1	87
31	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.	2.3	87
32	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.	4.2	85
33	Effects of humic substances on the bioavailability and aerobic biodegradation of polychlorinated biphenyls in a model soil. <i>Biotechnology and Bioengineering</i> , 2002, 77, 204-211.	1.7	84
34	Impact of arbuscular mycorrhizal fungi applications on maize production and soil phosphorus availability. <i>Journal of Geochemical Exploration</i> , 2013, 129, 40-44.	1.5	84
35	Quantitative aspects of solid-state 13C-NMR spectra of humic substances from soils of volcanic systems. <i>Geoderma</i> , 1997, 80, 327-338.	2.3	81
36	Polymerization of humic substances by an enzyme-catalyzed oxidative coupling. <i>Die Naturwissenschaften</i> , 2000, 87, 391-394.	0.6	80

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37	Conformational changes of humic substances induced by some hydroxy-, keto-, and sulfonic acids. <i>Soil Biology and Biochemistry</i> , 2001, 33, 563-571.	4.2	80
38	High-power gradient diffusion NMR spectroscopy for the rapid assessment of extra-virgin olive oil adulteration. <i>Food Chemistry</i> , 2010, 118, 153-158.	4.2	80
39	Quantitative Evaluation of Noncovalent Interactions between Glyphosate and Dissolved Humic Substances by NMR Spectroscopy. <i>Environmental Science & Technology</i> , 2012, 46, 5939-5946.	4.6	80
40	Title is missing!. <i>Biogeochemistry</i> , 2001, 53, 1-22.	1.7	78
41	CHROMATOGRAPHIC AND SPECTROPHOTOMETRIC PROPERTIES OF DISSOLVED HUMIC SUBSTANCES COMPARED WITH MACROMOLECULAR POLYMERS. <i>Soil Science</i> , 2001, 166, 174-185.	0.9	77
42	CHARACTERISTICS OF SOIL HUMIC EXTRACTS OBTAINED BY SOME ORGANIC AND INORGANIC SOLVENTS AND PURIFIED BY HCl-HF TREATMENT. <i>Soil Science</i> , 1988, 146, 418-426.	0.9	75
43	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.	1.8	74
44	Molecular Characterization of Compost at Increasing Stages of Maturity. 2. Thermochemolysis ¹³ C-MS and ¹³ C-CPMAS-NMR Spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 2303-2311.	2.4	73
45	Polymerization of dissolved humic substances catalyzed by peroxidase. Effects of pH and humic composition. <i>Organic Geochemistry</i> , 2002, 33, 281-294.	0.9	72
46	Plant chemical priming by humic acids. <i>Chemical and Biological Technologies in Agriculture</i> , 2020, 7, .	1.9	71
47	Increased Sequestration of Organic Carbon in Soil by Hydrophobic Protection. <i>Die Naturwissenschaften</i> , 1999, 86, 496-499.	0.6	69
48	NMR spectroscopy evaluation of direct relationship between soils and molecular composition of red wines from Aglianico grapes. <i>Analytica Chimica Acta</i> , 2010, 673, 167-172.	2.6	68
49	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	67
50	Quantitative differences in evaluating soil humic substances by liquid- and solid-state ¹³ C-NMR spectroscopy. <i>Geoderma</i> , 1997, 80, 339-352.	2.3	66
51	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.	3.9	66
52	Binding of Phenol and Differently Halogenated Phenols to Dissolved Humic Matter As Measured by NMR Spectroscopy. <i>Environmental Science & Technology</i> , 2009, 43, 5377-5382.	4.6	64
53	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.	3.9	64
54	Effects of humic substances and soya lecithin on the aerobic bioremediation of a soil historically contaminated by polycyclic aromatic hydrocarbons (PAHs). <i>Biotechnology and Bioengineering</i> , 2004, 88, 214-223.	1.7	63

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55	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, 829-837.	4.2	63
56	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, .	1.9	63
57	Effects of fractions of coal-derived humic substances on seed germination and growth of seedlings (<i>Lactuca sativa</i> and <i>Lycopersicum esculentum</i>). <i>Biology and Fertility of Soils</i> , 1993, 16, 11-15.	2.3	61
58	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.	1.8	58
59	Polyphasic Screening, Homopolysaccharide Composition, and Viscoelastic Behavior of Wheat Sourdough from a <i>Leuconostoc lactis</i> and <i>Lactobacillus curvatus</i> Exopolysaccharide-Producing Starter Culture. <i>Applied and Environmental Microbiology</i> , 2012, 78, 2737-2747.	1.4	58
60	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.	3.9	58
61	Metabolomics by Proton High-Resolution Magic-Angle-Spinning Nuclear Magnetic Resonance of Tomato Plants Treated with Two Secondary Metabolites Isolated from <i>Trichoderma</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 3538-3545.	2.4	56
62	Spectroscopic and conformational properties of size-fractions separated from a lignite humic acid. <i>Chemosphere</i> , 2007, 69, 1032-1039.	4.2	55
63	Rhizosphere microbial diversity as influenced by humic substance amendments and chemical composition of rhizodeposits. <i>Journal of Geochemical Exploration</i> , 2013, 129, 82-94.	1.5	54
64	<i>Methylobacterium populi</i> VP2: Plant Growth-Promoting Bacterium Isolated from a Highly Polluted Environment for Polycyclic Aromatic Hydrocarbon (PAH) Biodegradation. <i>Scientific World Journal</i> , The, 2014, 2014, 1-11.	0.8	54
65	Physical-chemical characteristics of lignins separated from biomasses for second-generation ethanol. <i>Biomass and Bioenergy</i> , 2014, 62, 58-67.	2.9	54
66	Enhancing sustainability of a processing tomato cultivation system by using bioactive compost teas. <i>Scientia Horticulturae</i> , 2016, 202, 117-124.	1.7	54
67	The molecular properties of biochar carbon released in dilute acidic solution and its effects on maize seed germination. <i>Science of the Total Environment</i> , 2017, 576, 858-867.	3.9	53
68	Oligomerization of Humic Phenolic Monomers by Oxidative Coupling under Biomimetic Catalysis. <i>Environmental Science & Technology</i> , 2006, 40, 6955-6962.	4.6	52
69	Humic substances stimulate maize nitrogen assimilation and amino acid metabolism at physiological and molecular level. <i>Chemical and Biological Technologies in Agriculture</i> , 2015, 2, .	1.9	52
70	Cremenolide, a new antifungal, 10-member lactone from <i>Trichoderma cremeum</i> with plant growth promotion activity. <i>Natural Product Research</i> , 2016, 30, 2575-2581.	1.0	51
71	Increased Conformational Rigidity of Humic Substances by Oxidative Biomimetic Catalysis. <i>Biomacromolecules</i> , 2005, 6, 351-358.	2.6	50
72	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, 2293-2302.	2.4	50

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73	Humic-like bioactivity on emergence and early growth of maize (<i>Zea mays</i> L.) of water-soluble lignins isolated from biomass for energy. <i>Plant and Soil</i> , 2016, 402, 221-233.	1.8	50
74	Optical microsensors for pesticides identification based on porous silicon technology. <i>Biosensors and Bioelectronics</i> , 2005, 20, 2136-2139.	5.3	49
75	Host-Guest Interactions between 2,4-Dichlorophenol and Humic Substances As Evaluated by ¹ H NMR Relaxation and Diffusion Ordered Spectroscopy. <i>Environmental Science & Technology</i> , 2008, 42, 8440-8445.	4.6	49
76	Effect of a Compost and Its Water-Soluble Fractions on Key Enzymes of Nitrogen Metabolism in Maize Seedlings. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 11267-11276.	2.4	49
77	Cerinolactone, a Hydroxy-Lactone Derivative from <i>Trichoderma cerinum</i> . <i>Journal of Natural Products</i> , 2012, 75, 103-106.	1.5	49
78	Potential of three microbial bio-effectors to promote maize growth and nutrient acquisition from alternative phosphorous fertilizers in contrasting soils. <i>Chemical and Biological Technologies in Agriculture</i> , 2017, 4, .	1.9	49
79	Molecular Rigidity and Diffusivity of Al ³⁺ And Ca ²⁺ Humates As Revealed by NMR Spectroscopy. <i>Environmental Science & Technology</i> , 2009, 43, 2417-2424.	4.6	48
80	Isolation and Characterization of Gramineae and Fabaceae Soda Lignins. <i>International Journal of Molecular Sciences</i> , 2017, 18, 327.	1.8	48
81	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.	3.9	48
82	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, 1292-1299.	4.2	47
83	Conformational changes of dissolved humic and fulvic superstructures with progressive iron complexation. <i>Journal of Geochemical Exploration</i> , 2013, 129, 1-5.	1.5	47
84	Carbon, nitrogen and phosphorus concentrations in aggregates of organic waste-amended soils. <i>Biological Wastes</i> , 1990, 31, 97-111.	0.3	45
85	Effects of some dicarboxylic acids on the association of dissolved humic substances. <i>Biology and Fertility of Soils</i> , 2003, 37, 255-259.	2.3	45
86	Silica Treatments: A Fire Retardant Strategy for Hemp Fabric/Epoxy Composites. <i>Polymers</i> , 2016, 8, 313.	2.0	45
87	Phosphorus speciation and high-affinity transporters are influenced by humic substances. <i>Journal of Plant Nutrition and Soil Science</i> , 2016, 179, 206-214.	1.1	45
88	An alternative to mineral phosphorus fertilizers: The combined effects of <i>Trichoderma harzianum</i> and compost on <i>Zea mays</i> , as revealed by ¹ H NMR and GC-MS metabolomics. <i>PLoS ONE</i> , 2018, 13, e0209664.	1.1	45
89	BIOACTIVITY AND CHEMICAL CHARACTERISTICS OF HUMIC ACIDS FROM TROPICAL SOILS SEQUENCE. <i>Soil Science</i> , 2008, 173, 624-637.	0.9	44
90	Metabolomic by ¹ H NMR Spectroscopy Differentiates Fiano Di Avellino White Wines Obtained with Different Yeast Strains. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 10816-10822.	2.4	44

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91	Molecular composition of the Humeome extracted from different green composts and their biostimulation on early growth of maize. <i>Plant and Soil</i> , 2018, 429, 407-424.	1.8	44
92	Effects of <i>Bacillus amyloliquefaciens</i> and different phosphorus sources on Maize plants as revealed by NMR and GC-MS based metabolomics. <i>Plant and Soil</i> , 2018, 429, 437-450.	1.8	43
93	Molecular changes of soil organic matter induced by root exudates in a rice paddy under CO ₂ enrichment and warming of canopy air. <i>Soil Biology and Biochemistry</i> , 2019, 137, 107544.	4.2	43
94	Elemental Quantitation of Natural Organic Matter by CPMAS 13C NMR Spectroscopy. <i>Solid State Nuclear Magnetic Resonance</i> , 2002, 21, 158-170.	1.5	42
95	Rates of Oxidative Coupling of Humic Phenolic Monomers Catalyzed by a Biomimetic Iron-Porphyrin. <i>Environmental Science & Technology</i> , 2006, 40, 1644-1649.	4.6	42
96	Humic-Like Water-Soluble Lignins from Giant Reed (<i>Arundo donax</i> L.) Display Hormone-Like Activity on Plant Growth. <i>Journal of Plant Growth Regulation</i> , 2017, 36, 995-1001.	2.8	42
97	Bioactivity and antimicrobial properties of chemically characterized compost teas from different green composts. <i>Waste Management</i> , 2021, 120, 98-107.	3.7	42
98	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.	2.6	41
99	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.	1.5	41
100	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, 382-390.	1.9	40
101	Biochars from olive mill waste have contrasting effects on plants, fungi and phytoparasitic nematodes. <i>PLoS ONE</i> , 2018, 13, e0198728.	1.1	40
102	Molecular changes in organic matter of a compost-amended soil. <i>European Journal of Soil Science</i> , 2009, 60, 287-296.	1.8	39
103	Water-Soluble Lignins from Different Bioenergy Crops Stimulate the Early Development of Maize (<i>Zea mays</i> L.) Seedlings. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 10784-10791.	1.7	39
104	Unveiling the molecular composition of the unextractable soil organic fraction (humin) by humeomics. <i>Biology and Fertility of Soils</i> , 2015, 51, 443-451.	2.3	39
105	Quantitative Structure-Activity Relationship of Humic-Like Biostimulants Derived From Agro-Industrial Byproducts and Energy Crops. <i>Frontiers in Plant Science</i> , 2020, 11, 581.	1.7	39
106	Decomposition of maize straw in three European soils as revealed by DRIFT spectra of soil particle fractions. <i>Geoderma</i> , 2001, 99, 245-260.	2.3	38
107	Hybrid humic acid/titanium dioxide nanomaterials as highly effective antimicrobial agents against gram(+) pathogens and antibiotic contaminants in wastewater. <i>Environmental Research</i> , 2021, 193, 110562.	3.7	36
108	Limitations of electrospray ionization in the analysis of a heterogeneous mixture of naturally occurring hydrophilic and hydrophobic compounds. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 3163-3170.	0.7	35

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109	The molecular dynamics of soil humus as a function of tillage. <i>Land Degradation and Development</i> , 2018, 29, 1792-1805.	1.8	35
110	Multivariate analysis of CP-MAS 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.	1.8	34
111	Humic acids increase the maize seedlings exudation yield. <i>Chemical and Biological Technologies in Agriculture</i> , 2019, 6, .	1.9	34
112	Separation of molecular constituents from a humic acid by solid-phase extraction following a transesterification reaction. <i>Talanta</i> , 2006, 68, 1135-1142.	2.9	33
113	Molecular Characterization of Extracts from Biorefinery Wastes and Evaluation of Their Plant Biostimulation. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 9023-9031.	3.2	33
114	Spectroscopic Characterization of Compost at Different Maturity Stages. <i>Clean - Soil, Air, Water</i> , 2008, 36, 152-157.	0.7	32
115	Carbon Sequestration in Soil by in Situ Catalyzed Photo-Oxidative Polymerization of Soil Organic Matter. <i>Environmental Science & Technology</i> , 2011, 45, 6697-6702.	4.6	32
116	Evaluation of molecular properties of humic acids from vermicompost by ¹³ C-CP-MAS-NMR spectroscopy and thermochemolysis-MS. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 141, 104634.	2.6	32
117	Molecular Characterization of a Compost and Its Water-Soluble Fractions. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 1017-1024.	2.4	31
118	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.	2.6	31
119	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.	2.0	29
120	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.	1.4	29
121	Induction of micronuclei in <i>Vicia faba</i> root tips treated in different soils with the herbicide alachlor. <i>Mutation Research - Genetic Toxicology Testing and Biomonitoring of Environmental Or Occupational Exposure</i> , 1990, 241, 1-6.	1.2	28
122	Interactions between natural organic matter and organic pollutants as revealed by NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 667-678.	1.1	28
123	In memoriam Prof. F.J. Stevenson and the Question of humic substances in soil. <i>Chemical and Biological Technologies in Agriculture</i> , 2016, 3, .	1.9	28
124	Antibacterial and antioxidant properties of humic substances from composted agricultural biomasses. <i>Chemical and Biological Technologies in Agriculture</i> , 2022, 9, .	1.9	28
125	Structural Characterization of Isomeric Dimers from the Oxidative Oligomerization of Catechol with a Biomimetic Catalyst. <i>Biomacromolecules</i> , 2007, 8, 737-743.	2.6	27
126	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.	1.8	27

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127	Molecular composition of water-soluble lignins separated from different non-food biomasses. <i>Fuel Processing Technology</i> , 2015, 131, 175-181.	3.7	27
128	Enhanced Molecular Dimension of a Humic Acid Induced by Photooxidation Catalyzed by Biomimetic Metalporphyrins. <i>Biomacromolecules</i> , 2005, 6, 2120-2125.	2.6	26
129	Interactions of Three s-Triazines with Humic Acids of Different Structure. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 7360-7366.	2.4	26
130	Fulvic acid affects proliferation and maturation phases in <i>Abies cephalonica</i> embryogenic cells. <i>Journal of Plant Physiology</i> , 2011, 168, 1226-1233.	1.6	26
131	Off-line TMAH-GC/MS and NMR characterization of humic substances extracted from river sediments of northwestern São Paulo under different soil uses. <i>Science of the Total Environment</i> , 2015, 506-507, 234-240.	3.9	26
132	The Soil Humeome: Chemical Structure, Functions and Technological Perspectives. , 2019, , 183-222.		26
133	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.	2.3	26
134	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.	6.5	25
135	Enhanced catechol oxidation by heterogeneous biomimetic catalysts immobilized on clay minerals. <i>Journal of Molecular Catalysis A</i> , 2013, 371, 8-14.	4.8	25
136	Decomposition of bio-degradable plastic polymer in a real on-farm composting process. <i>Chemical and Biological Technologies in Agriculture</i> , 2016, 3, .	1.9	25
137	The Molecular Composition of Humus Carbon: Recalcitrance and Reactivity in Soils. , 2018, , 87-124.		25
138	Metabolic profile of intact tissue from uterine leiomyomas using high-resolution magic-angle spinning ¹ H NMR spectroscopy. <i>NMR in Biomedicine</i> , 2010, 23, 1137-1145.	1.6	24
139	Oxidative and Photooxidative Polymerization of Humic Suprastructures by Heterogeneous Biomimetic Catalysis. <i>Biomacromolecules</i> , 2013, 14, 1645-1652.	2.6	24
140	Effective carbon sequestration in Italian agricultural soils by <i>in situ</i> polymerization of soil organic matter under biomimetic photocatalysis. <i>Land Degradation and Development</i> , 2018, 29, 485-494.	1.8	24
141	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, .	1.9	24
142	A comparison of acid hydrolyses for the determination of carbohydrate content in soils. <i>Communications in Soil Science and Plant Analysis</i> , 1996, 27, 2909-2915.	0.6	23
143	Chemical properties of humic substances in soils of an Italian volcanic system. <i>Geoderma</i> , 2003, 117, 243-250.	2.3	23
144	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.	1.5	23

#	ARTICLE	IF	CITATIONS
145	OMDY: a new model of organic matter decomposition based on biomolecular content as assessed by ¹³ C-CPMAS-NMR. <i>Plant and Soil</i> , 2017, 411, 377-394.	1.8	23
146	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.	2.7	23
147	Molecular size distribution of compost-derived humates as a function of concentration and different counterions. <i>Chemosphere</i> , 2008, 73, 1162-1166.	4.2	22
148	Formation and characterization of OH ⁻ Al ³⁺ humate ⁻ montmorillonite complexes. <i>Organic Geochemistry</i> , 1999, 30, 461-468.	0.9	21
149	Reduction of 2,4-dichlorophenol toxicity to <i>Pseudomonas putida</i> after oxidative incubation with humic substances and a biomimetic catalyst. <i>Ecotoxicology and Environmental Safety</i> , 2007, 66, 335-342.	2.9	21
150	HRMAS NMR spectroscopy applications in agriculture. <i>Chemical and Biological Technologies in Agriculture</i> , 2017, 4, .	1.9	21
151	Effects of microbial bioeffectors and P amendments on P forms in a maize cropped soil as evaluated by ³¹ P-NMR spectroscopy. <i>Plant and Soil</i> , 2018, 427, 87-104.	1.8	21
152	Humeomics: A key to unravel the humic pentagram. <i>Applied Soil Ecology</i> , 2018, 123, 513-516.	2.1	21
153	A study on structural evolution of hybrid humic Acids-SiO ₂ nanostructures in pure water: Effects on physico-chemical and functional properties. <i>Chemosphere</i> , 2022, 287, 131985.	4.2	21
154	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.	4.2	21
155	Valorization of lignins from energy crops and agro-industrial byproducts as antioxidant and antibacterial materials. <i>Journal of the Science of Food and Agriculture</i> , 2022, 102, 2885-2892.	1.7	21
156	Reduced activity of alkaline phosphatase due to host-guest interactions with humic superstructures. <i>Chemosphere</i> , 2013, 93, 1972-1979.	4.2	20
157	Replacing calcium with ammonium counterion in lignosulfonates from paper mills affects their molecular properties and bioactivity. <i>Science of the Total Environment</i> , 2018, 645, 411-418.	3.9	19
158	Tuning Functional Behavior of Humic Acids through Interactions with Stober Silica Nanoparticles. <i>Polymers</i> , 2020, 12, 982.	2.0	19
159	Plant hormone crosstalk mediated by humic acids. <i>Chemical and Biological Technologies in Agriculture</i> , 2022, 9, .	1.9	19
160	Amendments with humified compost effectively sequester organic carbon in agricultural soils. <i>Land Degradation and Development</i> , 2020, 31, 1206-1216.	1.8	17
161	The Wine: Typicality or Mere Diversity? The Effect of Spontaneous Fermentations and Biotic Factors on the Characteristics of Wine. <i>Agriculture and Agricultural Science Procedia</i> , 2016, 8, 769-773.	0.6	15
162	Anti-inflammatory activity and potential dermatological applications of characterized humic acids from a lignite and a green compost. <i>Scientific Reports</i> , 2022, 12, 2152.	1.6	15

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163	Integrated approach of metal removal and bioprecipitation followed by fungal degradation of organic pollutants from contaminated soils. <i>European Journal of Soil Biology</i> , 2007, 43, 380-387.	1.4	14
164	Reduced Toxicity of Olive Mill Waste Waters by Oxidative Coupling with Biomimetic Catalysis. <i>Environmental Science & Technology</i> , 2008, 42, 4896-4901.	4.6	14
165	Europium(III) complexed by HPSEC size-fractions of a vertisol humic acid: Small differences evidenced by time-resolved luminescence spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 78, 1173-1179.	2.0	14
166	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.	2.3	14
167	Effective degradation of organic pollutants in aqueous media by microbial strains isolated from soil of a contaminated industrial site. <i>Chemical and Biological Technologies in Agriculture</i> , 2016, 3, .	1.9	14
168	Iron extractability from iron-humate complexes by a siderophore and a mixture of organic acids. <i>Canadian Journal of Soil Science</i> , 1993, 73, 293-298.	0.5	13
169	O-Alkylation of a lignite humic acid by phase-transfer catalysis. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 384, 994-1001.	1.9	13
170	Effects of a biomimetic iron- ϵ -porphyrin on soil respiration and maize root morphology as by a microcosm experiment. <i>Journal of Plant Nutrition and Soil Science</i> , 2010, 173, 399-406.	1.1	13
171	Co-polymerization of penta-halogenated phenols in humic substances by catalytic oxidation using biomimetic catalysis. <i>Environmental Science and Pollution Research</i> , 2012, 19, 1485-1493.	2.7	13
172	Modification of chemical and conformational properties of natural organic matter by click chemistry as revealed by ESI-Orbitrap mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 8515-8523.	1.9	13
173	Novel Humo-Pectic Hydrogels for Controlled Release of Agroproducts. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 10079-10088.	3.2	13
174	Optimized procedure for the determination of P species in soil by liquid-state ³¹ P-NMR spectroscopy. <i>Chemical and Biological Technologies in Agriculture</i> , 2015, 2, .	1.9	12
175	Structural characterization of carbon and nitrogen molecules in the Humeome of two different grassland soils. <i>Chemical and Biological Technologies in Agriculture</i> , 2018, 5, .	1.9	12
176	Chlamyphilone, a Novel Pochonia chlamydosporia Metabolite with Insecticidal Activity. <i>Molecules</i> , 2019, 24, 750.	1.7	12
177	HRMAS-NMR metabolomics of Aglianicone grapes pulp to evaluate terroir and vintage effects, and, as assessed by the electromagnetic induction (EMI) technique, spatial variability of vineyard soils. <i>Food Chemistry</i> , 2019, 283, 215-223.	4.2	12
178	Bioactivity of two different humic materials and their combination on plants growth as a function of their molecular properties. <i>Plant and Soil</i> , 2022, 472, 509-526.	1.8	12
179	The Nature of Soil Organic Matter and Innovative Soil Managements to Fight Global Changes and Maintain Agricultural Productivity. , 2012, , 1-19.		11
180	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.	3.2	11

#	ARTICLE	IF	CITATIONS
181	Insights on Molecular Characteristics of Hydrochars by ¹³ C-NMR and Off-Line TMAH-GC/MS and Assessment of Their Potential Use as Plant Growth Promoters. <i>Molecules</i> , 2021, 26, 1026.	1.7	11
182	Genotoxic effect induced by herbicides atrazine glyphosate in plants of <i>Vicia faba</i> grown in different soils. <i>Science of the Total Environment</i> , 1992, 123-124, 233-240.	3.9	10
183	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.	1.5	10
184	Acetone-induced polymerisation of 3-aminopropyltrimethoxysilane (APTMS) as revealed by NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2014, 52, 383-388.	1.1	10
185	NMR-based metabolomics of water-buffalo milk after conventional or biological feeding. <i>Chemical and Biological Technologies in Agriculture</i> , 2018, 5, .	1.9	10
186	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.	3.8	10
187	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
188	The mechanisms of humic substances self-assembly with biological molecules: The case study of the prion protein. <i>PLoS ONE</i> , 2017, 12, e0188308.	1.1	10
189	Structural characterisation of groundwater hydrophobic acids isolated from the Tomago Sand Beds, Australia. <i>Organic Geochemistry</i> , 2005, 36, 385-397.	0.9	9
190	High-Resolution Magic-Angle-Spinning NMR and Magnetic Resonance Imaging Spectroscopies Distinguish Metabolome and Structural Properties of Maize Seeds from Plants Treated with Different Fertilizers and Arbuscular mycorrhizal fungi. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 2580-2588.	2.4	9
191	Potential alteration of iron—humate complexes by plant root exudates and microbial siderophores. <i>Chemical and Biological Technologies in Agriculture</i> , 2018, 5, .	1.9	9
192	Molecular dynamics of organic matter in a tilled soil under short term wheat cultivation. <i>Soil and Tillage Research</i> , 2020, 196, 104448.	2.6	9
193	Aggregate fractions shaped molecular composition change of soil organic matter in a rice paddy under elevated CO ₂ and air warming. <i>Soil Biology and Biochemistry</i> , 2021, 159, 108289.	4.2	9
194	Molecular characterization of ombrotrophic peats by humeomics. <i>Chemical and Biological Technologies in Agriculture</i> , 2020, 7, .	1.9	9
195	Remediation of Hydrocarbon-Contaminated Soil by Washing with Novel Chemically Modified Humic Substances. <i>Journal of Environmental Quality</i> , 2015, 44, 1764-1771.	1.0	8
196	Assessment of geographical origin and production period of royal jelly by NMR metabolomics. <i>Chemical and Biological Technologies in Agriculture</i> , 2020, 7, .	1.9	8
197	COMMENTS ON “MODERN ANALYTICAL STUDIES OF HUMIC SUBSTANCES” BY HATCHER ET AL.. <i>Soil Science</i> , 2003, 168, 73-74.	0.9	7
198	Reduced activity of α-glucosidase resulting from host—guest interactions with dissolved fulvic acids as revealed by NMR spectroscopy. <i>European Journal of Soil Science</i> , 2013, 64, 508-515.	1.8	7

#	ARTICLE	IF	CITATIONS
199	In situ polymerization of soil organic matter by oxidative biomimetic catalysis. <i>Chemical and Biological Technologies in Agriculture</i> , 2017, 4, .	1.9	7
200	Molecular characterization of organic matter in two calcareous soils: the effects of an acid decarbonation treatment. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 5243-5253.	1.9	7
201	Complementary ESI and APPI high resolution mass spectrometry unravel the molecular complexity of a soil humeome. <i>Analytica Chimica Acta</i> , 2022, 1194, 339398.	2.6	7
202	Bio-Based Hydrogels Composed of Humic Matter and Pectins of Different Degree of Methyl-Esterification. <i>Molecules</i> , 2020, 25, 2936.	1.7	6
203	Molecular Properties and Functions of Humic Substances and Humic-Like Substances (HULIS) from Biomass and Their Transformation Products. , 2016, , 85-114.		5
204	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.	4.2	5
205	Precise measurement of $1H\ 90^\circ$ pulse in solid-state NMR spectroscopy for complex and heterogeneous molecular systems. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 2903-2909.	1.9	4
206	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	4
207	New Modeling Approach to Describe and Predict Carbon Sequestration Dynamics in Agricultural Soils. , 2012, , 291-307.		4
208	The impact of long-term field experiments under different cropping systems on the molecular dynamics and stability of the soil Humeome. <i>Agriculture, Ecosystems and Environment</i> , 2022, 331, 107928.	2.5	4
209	Molecular Understanding of a Humic Acid by α -Humeomic ϵ -Fractionation and Benefits from Preliminary HPSEC Separation. , 2013, , 89-94.		2
210	State of the Art of CPMAS ^{13}C -NMR Spectroscopy Applied to Natural Organic Matter. <i>ChemInform</i> , 2004, 35, no.	0.1	1
211	Molecular Sizes and Association Forces of Humic Substances in Solution. , 0, , 89-118.		1
212	Reduced catalytic activity of an exogenous extracellular β -D-glucosidase due to adsorption on a model humic-clay complex and different soils under wetting and drying cycles. <i>Biology and Fertility of Soils</i> , 2019, 55, 617-627.	2.3	1
213	Mitigation of GHGs Emission From Soils by a Catalyzed In-Situ Photo-Oxidative Polymerization of Soil Organic Matter. <i>Nature Precedings</i> , 2010, , .	0.1	0
214	Flame retardancy and mechanical properties of ecofriendly coated hemp fabrics/epoxy composites. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	0