

Alessandro Piccolo

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212
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h-index

89
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216
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10,982
ext. citations

5.5
avg, IF

6.66
L-index

#	Paper	IF	Citations
212	THE SUPRAMOLECULAR STRUCTURE OF HUMIC SUBSTANCES. <i>Soil Science</i> , 2001 , 166, 810-832	0.9	678
211	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	7.7	461
210	Molecular characterization of dissolved organic matter (DOM): a critical review. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 109-24	4.4	392
209	Humic and fulvic acids as biostimulants in horticulture. <i>Scientia Horticulturae</i> , 2015 , 196, 15-27	4.1	352
208	Conformational Arrangement of Dissolved Humic Substances. Influence of Solution Composition on Association of Humic Molecules. <i>Environmental Science & Technology</i> , 1999 , 33, 1682-1690	10.3	236
207	Role of Hydrophobic Components of Soil Organic Matter in Soil Aggregate Stability. <i>Soil Science Society of America Journal</i> , 1999 , 63, 1801-1810	2.5	214
206	Increased soil organic carbon sequestration through hydrophobic protection by humic substances. <i>Soil Biology and Biochemistry</i> , 2002 , 34, 1839-1851	7.5	197
205	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
204	State of the art of CPDAS 13C-NMR spectroscopy applied to natural organic matter. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2004 , 44, 215-223	10.4	146
203	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	7.5	144
202	Macromolecular changes of humic substances induced by interaction with organic acids. <i>European Journal of Soil Science</i> , 1996 , 47, 319-328	3.4	132
201	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
200	Chemical composition and bioactivity properties of size-fractions separated from a vermicompost humic acid. <i>Chemosphere</i> , 2010 , 78, 457-66	8.4	126
199	Aggregation and disaggregation of humic supramolecular assemblies by NMR diffusion ordered spectroscopy (DOSY-NMR). <i>Environmental Science & Technology</i> , 2008 , 42, 699-706	10.3	126
198	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
197	Adsorption of Glyphosate by Humic Substances. <i>Journal of Agricultural and Food Chemistry</i> , 1996 , 44, 2442-2446	5.7	120
196	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	10.3	117

195	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
194	Basis of a humeomics science: chemical fractionation and molecular characterization of humic biosuprastructures. <i>Biomacromolecules</i> , 2011 , 12, 1187-99	6.9	108
193	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
192	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
191	Changes of humic substances characteristics from forested to cultivated soils in Ethiopia. <i>Geoderma</i> , 2006 , 132, 9-19	6.7	98
190	¹ H HRMAS-NMR metabolomic to assess quality and traceability of mozzarella cheese from Campania buffalo milk. <i>Food Chemistry</i> , 2012 , 132, 1620-1627	8.5	94
189	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	3.4	94
188	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	6.6	90
187	Sequestration of a Biologically Labile Organic Carbon in Soils by Humified Organic Matter. <i>Climatic Change</i> , 2004 , 67, 329-343	4.5	87
186	Electrospray ionization mass spectrometry of terrestrial humic substances and their size fractions. <i>Analytical and Bioanalytical Chemistry</i> , 2003 , 377, 1047-59	4.4	85
185	Atrazine Interactions with Soil Humic Substances of Different Molecular Structure. <i>Journal of Environmental Quality</i> , 1998 , 27, 1324-1333	3.4	85
184	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	3.1	78
183	Conformational changes of humic substances induced by some hydroxy-, keto-, and sulfonic acids. <i>Soil Biology and Biochemistry</i> , 2001 , 33, 563-571	7.5	76
182	Effects of humic substances on the bioavailability and aerobic biodegradation of polychlorinated biphenyls in a model soil. <i>Biotechnology and Bioengineering</i> , 2002 , 77, 204-11	4.9	75
181	Quantitative aspects of solid-state ¹³ C-NMR spectra of humic substances from soils of volcanic systems. <i>Geoderma</i> , 1997 , 80, 327-338	6.7	72
180	Polymerization of humic substances by an enzyme-catalyzed oxidative coupling. <i>Die Naturwissenschaften</i> , 2000 , 87, 391-4	2	72
179	CHROMATOGRAPHIC AND SPECTROPHOTOMETRIC PROPERTIES OF DISSOLVED HUMIC SUBSTANCES COMPARED WITH MACROMOLECULAR POLYMERS. <i>Soil Science</i> , 2001 , 166, 174-185	0.9	70
178	High-power gradient diffusion NMR spectroscopy for the rapid assessment of extra-virgin olive oil adulteration. <i>Food Chemistry</i> , 2010 , 118, 153-158	8.5	69

177	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	69
176	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
175	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
174	Polymerization of dissolved humic substances catalyzed by peroxidase. Effects of pH and humic composition. <i>Organic Geochemistry</i> , 2002 , 33, 281-294	3.1	64
173	Increased sequestration of organic carbon in soil by hydrophobic protection. <i>Die Naturwissenschaften</i> , 1999 , 86, 496-9	2	64
172	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
171	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
170	Quantitative evaluation of noncovalent interactions between glyphosate and dissolved humic substances by NMR spectroscopy. <i>Environmental Science & Technology</i> , 2012 , 46, 5939-46	10.3	61
169	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
168	NMR spectroscopy evaluation of direct relationship between soils and molecular composition of red wines from Aglianico grapes. <i>Analytica Chimica Acta</i> , 2010 , 673, 167-72	6.6	61
167	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
166	Quantitative differences in evaluating soil humic substances by liquid- and solid-state ¹³ C-NMR spectroscopy. <i>Geoderma</i> , 1997 , 80, 339-352	6.7	59
165	Impact of arbuscular mycorrhizal fungi applications on maize production and soil phosphorus availability. <i>Journal of Geochemical Exploration</i> , 2013 , 129, 40-44	3.8	58
164	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
163	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
162	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, 214-23	4.9	51
161	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
160	Spectroscopic and conformational properties of size-fractions separated from a lignite humic acid. <i>Chemosphere</i> , 2007 , 69, 1032-9	8.4	48

159	Oligomerization of humic phenolic monomers by oxidative coupling under biomimetic catalysis. <i>Environmental Science & Technology</i> , 2006 , 40, 6955-62	10.3	46
158	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
157	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
156	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, 2737-47	4.8	45
155	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
154	Increased conformational rigidity of humic substances by oxidative biomimetic catalysis. <i>Biomacromolecules</i> , 2005 , 6, 351-8	6.9	45
153	Optical microsensors for pesticides identification based on porous silicon technology. <i>Biosensors and Bioelectronics</i> , 2005 , 20, 2136-9	11.8	45
152	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	6.1	45
151	Physical-chemical characteristics of lignins separated from biomasses for second-generation ethanol. <i>Biomass and Bioenergy</i> , 2014 , 62, 58-67	5.3	44
150	Molecular rigidity and diffusivity of Al ³⁺ and Ca ²⁺ humates as revealed by NMR spectroscopy. <i>Environmental Science & Technology</i> , 2009 , 43, 2417-24	10.3	44
149	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
148	Methylobacterium populi VP2: plant growth-promoting bacterium isolated from a highly polluted environment for polycyclic aromatic hydrocarbon (PAH) biodegradation. <i>Scientific World Journal, The</i> , 2014 , 2014, 931793	2.2	42
147	Elemental quantitation of natural organic matter by CP/MAS ¹³ C NMR spectroscopy. <i>Solid State Nuclear Magnetic Resonance</i> , 2002 , 21, 158-70	3.1	42
146	Metabolomics by Proton High-Resolution Magic-Angle-Spinning Nuclear Magnetic Resonance of Tomato Plants Treated with Two Secondary Metabolites Isolated from Trichoderma. <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 3538-45	5.7	42
145	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
144	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	10.2	41
143	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, 8440-5	10.3	41
142	Cerinolactone, a hydroxy-lactone derivative from Trichoderma cerinum. <i>Journal of Natural Products</i> , 2012 , 75, 103-6	4.9	40

141	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
140	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
139	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
138	Rates of oxidative coupling of humic phenolic monomers catalyzed by a biomimetic iron-porphyrin. <i>Environmental Science & Technology</i> , 2006 , 40, 1644-9	10.3	39
137	Conformational changes of dissolved humic and fulvic superstructures with progressive iron complexation. <i>Journal of Geochemical Exploration</i> , 2013 , 129, 1-5	3.8	38
136	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
135	Cremonolide, 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	2.3	37
134	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
133	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	4.2	36
132	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
131	Molecular changes in organic matter of a compost-amended soil. <i>European Journal of Soil Science</i> , 2009 , 60, 287-296	3.4	36
130	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, 11267-76	5.7	36
129	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
128	Enhancing sustainability of a processing tomato cultivation system by using bioactive compost teas. <i>Scientia Horticulturae</i> , 2016 , 202, 117-124	4.1	34
127	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
126	Isolation and Characterization of Gramineae and Fabaceae Soda Lignins. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	34
125	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
124	Silica Treatments: A Fire Retardant Strategy for Hemp Fabric/Epoxy Composites. <i>Polymers</i> , 2016 , 8,	4.5	34

123	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,	4.4	33
122	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
121	BIOACTIVITY AND CHEMICAL CHARACTERISTICS OF HUMIC ACIDS FROM TROPICAL SOILS SEQUENCE. <i>Soil Science</i> , 2008 , 173, 624-637	0.9	33
120	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, e0209864	3.7	33
119	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
118	Carbon, nitrogen and phosphorus concentrations in aggregates of organic waste-amended soils. <i>Biological Wastes</i> , 1990 , 31, 97-111		32
117	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, 5	4.4	31
116	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
115	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
114	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, 3163-70	2.2	29
113	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
112	Water-Soluble Lignins from Different Bioenergy Crops Stimulate the Early Development of Maize (<i>Zea mays</i> , L.). <i>Molecules</i> , 2015 , 20, 19958-70	4.8	28
111	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
110	The molecular dynamics of soil humus as a function of tillage. <i>Land Degradation and Development</i> , 2018 , 29, 1792-1805	4.4	27
109	Spectroscopic Characterization of Compost at Different Maturity Stages. <i>Clean - Soil, Air, Water</i> , 2008 , 36, 152-157	1.6	27
108	Plant chemical priming by humic acids. <i>Chemical and Biological Technologies in Agriculture</i> , 2020 , 7,	4.4	27
107	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	4.2	26
106	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	4.2	26

105	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
104	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
103	Enhanced molecular dimension of a humic acid induced by photooxidation catalyzed by biomimetic metalporphyrins. <i>Biomacromolecules</i> , 2005 , 6, 2120-5	6.9	25
102	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
101	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	4.7	24
100	Biochars from olive mill waste have contrasting effects on plants, fungi and phytoparasitic nematodes. <i>PLoS ONE</i> , 2018 , 13, e0198728	3.7	24
99	Enhanced catechol oxidation by heterogeneous biomimetic catalysts immobilized on clay minerals. <i>Journal of Molecular Catalysis A</i> , 2013 , 371, 8-14		24
98	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
97	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
96	In memoriam Prof. F.J. Stevenson and the Question of humic substances in soil. <i>Chemical and Biological Technologies in Agriculture</i> , 2016 , 3,	4.4	23
95	Chemical properties of humic substances in soils of an Italian volcanic system. <i>Geoderma</i> , 2003 , 117, 243-250	2.5	23
94	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		23
93	Interactions between natural organic matter and organic pollutants as revealed by NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2015 , 53, 667-78	2.1	22
92	Molecular composition of water-soluble lignins separated from different non-food biomasses. <i>Fuel Processing Technology</i> , 2015 , 131, 175-181	7.2	22
91	Remediation of highly contaminated soils from an industrial site by employing a combined treatment with exogeneous humic substances and oxidative biomimetic catalysis. <i>Journal of Hazardous Materials</i> , 2013 , 261, 55-62	12.8	22
90	Oxidative and photooxidative polymerization of humic suprastructures by heterogeneous biomimetic catalysis. <i>Biomacromolecules</i> , 2013 , 14, 1645-52	6.9	22
89	Off-line TMAH-GC/MS and NMR characterization of humic substances extracted from river sediments of northwestern S� Paulo under different soil uses. <i>Science of the Total Environment</i> , 2015 , 506-507, 234-40	10.2	21
88	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

87	Molecular Characterization of Extracts from Biorefinery Wastes and Evaluation of Their Plant Biostimulation. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 9023-9031	8.3	21
86	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	4.2	21
85	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, 1137-45	4.4	21
84	Molecular size distribution of compost-derived humates as a function of concentration and different counterions. <i>Chemosphere</i> , 2008 , 73, 1162-6	8.4	21
83	Structural characterization of isomeric dimers from the oxidative oligomerization of catechol with a biomimetic catalyst. <i>Biomacromolecules</i> , 2007 , 8, 737-43	6.9	21
82	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	7.5	20
81	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
80	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, 335-42	7	20
79	Formation and characterization of OH-Aluminate-montmorillonite complexes. <i>Organic Geochemistry</i> , 1999 , 30, 461-468	3.1	20
78	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	6.2	19
77	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
76	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	1.5	19
75	The Molecular Composition of Humus Carbon: Recalcitrance and Reactivity in Soils 2018 , 87-124		19
74	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
73	HRMAS NMR spectroscopy applications in agriculture. <i>Chemical and Biological Technologies in Agriculture</i> , 2017 , 4,	4.4	17
72	Evaluation of molecular properties of humic acids from vermicompost by ¹³ C-CPMAS-NMR spectroscopy and thermochemolysis- ¹³ CMS. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019 , 141, 104634 ⁶		17
71	Humeomics: A key to unravel the humusic pentagram. <i>Applied Soil Ecology</i> , 2018 , 123, 513-516	5	17
70	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

69	Reduced activity of alkaline phosphatase due to host-guest interactions with humic superstructures. <i>Chemosphere</i> , 2013 , 93, 1972-9	8.4	16
68	Bioactivity and antimicrobial properties of chemically characterized compost teas from different green composts. <i>Waste Management</i> , 2021 , 120, 98-107	8.6	15
67	The Soil Humeome: Chemical Structure, Functions and Technological Perspectives 2019 , 183-222		14
66	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		14
65	Humic acids increase the maize seedlings exudation yield. <i>Chemical and Biological Technologies in Agriculture</i> , 2019 , 6,	4.4	14
64	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, 1173-9	4.4	13
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