

Alessandro Piccolo

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.

212
papers

9,742
citations

51
h-index

89
g-index

216
ext. papers

10,982
ext. citations

5.5
avg, IF

6.66
L-index

#	Paper	IF	Citations
212	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	4.2	1
211	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	4.9	5
210	Complementary ESI and APPI high resolution mass spectrometry unravel the molecular complexity of a soil humeome.. <i>Analytica Chimica Acta</i> , 2022 , 1194, 339398	6.6	1
209	A study on structural evolution of hybrid humic Acids-SiO nanostructures in pure water: Effects on physico-chemical and functional properties. <i>Chemosphere</i> , 2022 , 287, 131985	8.4	7
208	Antibacterial and antioxidant properties of humic substances from composted agricultural biomasses. <i>Chemical and Biological Technologies in Agriculture</i> , 2022 , 9,	4.4	5
207	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	5.7	0
206	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> , 2021 ,	4.3	5
205	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
204	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
203	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	7.9	9
202	Bioactivity and antimicrobial properties of chemically characterized compost teas from different green composts. <i>Waste Management</i> , 2021 , 120, 98-107	8.6	15
201	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
200	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
199	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
198	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	7.5	4
197	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
196	Novel Humo-Pectic Hydrogels for Controlled Release of Agroproducts. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 10079-10088	8.3	9

195	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
194	Bio-Based Hydrogels Composed of Humic Matter and Pectins of Different Degree of Methyl-Esterification. <i>Molecules</i> , 2020 , 25,	4.8	2
193	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
192	Tuning Functional Behavior of Humic Acids through Interactions with StBer Silica Nanoparticles. <i>Polymers</i> , 2020 , 12,	4.5	10
191	Molecular characterization of ombrotrophic peats by humeomics. <i>Chemical and Biological Technologies in Agriculture</i> , 2020 , 7,	4.4	6
190	Assessment of geographical origin and production period of royal jelly by NMR metabolomics. <i>Chemical and Biological Technologies in Agriculture</i> , 2020 , 7,	4.4	3
189	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
188	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
187	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
186	Amendments with humified compost effectively sequester organic carbon in agricultural soils. <i>Land Degradation and Development</i> , 2020 , 31, 1206-1216	4.4	11
185	Plant chemical priming by humic acids. <i>Chemical and Biological Technologies in Agriculture</i> , 2020 , 7,	4.4	27
184	Evaluation of molecular properties of humic acids from vermicompost by ¹³ C-CPMAS-NMR spectroscopy and thermochemolysis-GC/MS. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019 , 141, 104634 ⁶		17
183	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	4.4	4
182	The Soil Humeome: Chemical Structure, Functions and Technological Perspectives 2019 , 183-222		14
181	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
180	Chlamyphilone, a Novel Metabolite with Insecticidal Activity. <i>Molecules</i> , 2019 , 24,	4.8	4
179	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
178	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

177	Humic acids increase the maize seedlings exudation yield. <i>Chemical and Biological Technologies in Agriculture</i> , 2019 , 6,	4.4	14
176	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
175	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	6.1	1
174	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	8.5	6
173	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	5.7	7
172	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
171	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	4.2	9
170	The molecular dynamics of soil humus as a function of tillage. <i>Land Degradation and Development</i> , 2018 , 29, 1792-1805	4.4	27
169	NMR-based metabolomics of water-buffalo milk after conventional or biological feeding. <i>Chemical and Biological Technologies in Agriculture</i> , 2018 , 5,	4.4	7
168	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	10.2	12
167	Biochars from olive mill waste have contrasting effects on plants, fungi and phytoparasitic nematodes. <i>PLoS ONE</i> , 2018 , 13, e0198728	3.7	24
166	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
165	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
164	Humeomics: A key to unravel the humusic pentagram. <i>Applied Soil Ecology</i> , 2018 , 123, 513-516	5	17
163	Potential alteration of iron humate complexes by plant root exudates and microbial siderophores. <i>Chemical and Biological Technologies in Agriculture</i> , 2018 , 5,	4.4	7
162	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,	4.4	11
161	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	3.7	33
160	The Molecular Composition of Humus Carbon: Recalcitrance and Reactivity in Soils 2018 , 87-124		19

159	HRMAS NMR spectroscopy applications in agriculture. <i>Chemical and Biological Technologies in Agriculture</i> , 2017 , 4,	4.4	17
158	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
157	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
156	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
155	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
154	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
153	In situ polymerization of soil organic matter by oxidative biomimetic catalysis. <i>Chemical and Biological Technologies in Agriculture</i> , 2017 , 4,	4.4	6
152	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
151	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
150	Isolation and Characterization of Gramineae and Fabaceae Soda Lignins. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	34
149	The mechanisms of humic substances self-assembly with biological molecules: The case study of the prion protein. <i>PLoS ONE</i> , 2017 , 12, e0188308	3.7	7
148	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
147	Molecular Properties and Functions of Humic Substances and Humic-Like Substances (HULIS) from Biomass and Their Transformation Products 2016 , 85-114		3
146	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
145	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
144	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
143	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
142	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

141	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
140	Enhancing sustainability of a processing tomato cultivation system by using bioactive compost teas. <i>Scientia Horticulturae</i> , 2016 , 202, 117-124	4.1	34
139	Silica Treatments: A Fire Retardant Strategy for Hemp Fabric/Epoxy Composites. <i>Polymers</i> , 2016 , 8,	4.5	34
138	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
137	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
136	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
135	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,	4.4	12
134	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
133	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, 7	4.4	10
132	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
131	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
130	Humic and fulvic acids as biostimulants in horticulture. <i>Scientia Horticulturae</i> , 2015 , 196, 15-27	4.1	352
129	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, 8515-23	4.4	5
128	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, 234-40	10.2	21
127	Molecular composition of water-soluble lignins separated from different non-food biomasses. <i>Fuel Processing Technology</i> , 2015 , 131, 175-181	7.2	22
126	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
125	Remediation of Hydrocarbon-Contaminated Soil by Washing with Novel Chemically Modified Humic Substances. <i>Journal of Environmental Quality</i> , 2015 , 44, 1764-71	3.4	6
124	Molecular Sizes and Association Forces of Humic Substances in Solution 2015 , 89-118		1

123	Unveiling the molecular composition of the unextractable soil organic fraction (humin) by humeomics. <i>Biology and Fertility of Soils</i> , 2015 , 51, 443-451	6.1	33
122	Acetone-induced polymerisation of 3-aminopropyltrimethoxysilane (APTMS) as revealed by NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2014 , 52, 383-8	2.1	6
121	Physical-chemical characteristics of lignins separated from biomasses for second-generation ethanol. <i>Biomass and Bioenergy</i> , 2014 , 62, 58-67	5.3	44
120	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
119	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
118	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
117	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
116	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, 10816-22	5.7	39
115	Molecular characterization of dissolved organic matter (DOM): a critical review. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 109-24	4.4	392
114	Enhanced catechol oxidation by heterogeneous biomimetic catalysts immobilized on clay minerals. <i>Journal of Molecular Catalysis A</i> , 2013 , 371, 8-14		24
113	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
112	Reduced activity of alkaline phosphatase due to host-guest interactions with humic superstructures. <i>Chemosphere</i> , 2013 , 93, 1972-9	8.4	16
111	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
110	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
109	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
108	Molecular Understanding of a Humic Acid by Humeomic Fractionation and Benefits from Preliminary HPSEC Separation 2013 , 89-94		2
107	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
106	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

105	Oxidative and photooxidative polymerization of humic suprastructures by heterogeneous biomimetic catalysis. <i>Biomacromolecules</i> , 2013 , 14, 1645-52	6.9	22
104	Reduced activity of β -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	3.4	4
103	Effective Remediation of Contaminated Soils by Eco-Compatible Physical, Biological, and Chemical Practices 2013 , 267-296		4
102	The Nature of Soil Organic Matter and Innovative Soil Managements to Fight Global Changes and Maintain Agricultural Productivity 2012 , 1-19		8
101	Cerinolactone, a hydroxy-lactone derivative from <i>Trichoderma cerinum</i> . <i>Journal of Natural Products</i> , 2012 , 75, 103-6	4.9	40
100	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
99	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
98	Co-polymerization of penta-halogenated phenols in humic substances by catalytic oxidation using biomimetic catalysis. <i>Environmental Science and Pollution Research</i> , 2012 , 19, 1485-93	5.1	12
97	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
96	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
95	New Modeling Approach to Describe and Predict Carbon Sequestration Dynamics in Agricultural Soils 2012 , 291-307		4
94	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
93	Basis of a humeomics science: chemical fractionation and molecular characterization of humic biosuprastructures. <i>Biomacromolecules</i> , 2011 , 12, 1187-99	6.9	108
92	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
91	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
90	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
89	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
88	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

87	Effects of a biomimetic iron-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	2.3	12
86	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
85	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
84	Chemical composition and bioactivity properties of size-fractions separated from a vermicompost humic acid. <i>Chemosphere</i> , 2010 , 78, 457-66	8.4	126
83	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
82	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
81	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
80	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
79	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
78	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
77	Molecular changes in organic matter of a compost-amended soil. <i>European Journal of Soil Science</i> , 2009 , 60, 287-296	3.4	36
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, 11267-76	5.7	36
75	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
74	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
73	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
72	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
71	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
70	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

69	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
68	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
67	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
66	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
65	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
64	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
63	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
62	BIOACTIVITY AND CHEMICAL CHARACTERISTICS OF HUMIC ACIDS FROM TROPICAL SOILS SEQUENCE. <i>Soil Science</i> , 2008 , 173, 624-637	0.9	33
61	Spectroscopic Characterization of Compost at Different Maturity Stages. <i>Clean - Soil, Air, Water</i> , 2008 , 36, 152-157	1.6	27
60	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
59	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
58	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
57	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
56	Precise measurement of (¹ H) 90 degrees pulse in solid-state NMR spectroscopy for complex and heterogeneous molecular systems. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 387, 2903-9	4.4	2
55	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
54	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	2.9	12
53	Spectroscopic and conformational properties of size-fractions separated from a lignite humic acid. <i>Chemosphere</i> , 2007 , 69, 1032-9	8.4	48
52	O-Alkylation of a lignite humic acid by phase-transfer catalysis. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 384, 994-1001	4.4	10

51	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
50	Oligomerization of humic phenolic monomers by oxidative coupling under biomimetic catalysis. <i>Environmental Science & Technology</i> , 2006 , 40, 6955-62	10.3	46
49	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
48	Changes of humic substances characteristics from forested to cultivated soils in Ethiopia. <i>Geoderma</i> , 2006 , 132, 9-19	6.7	98
47	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
46	Enhanced molecular dimension of a humic acid induced by photooxidation catalyzed by biomimetic metalporphyrins. <i>Biomacromolecules</i> , 2005 , 6, 2120-5	6.9	25
45	Increased conformational rigidity of humic substances by oxidative biomimetic catalysis. <i>Biomacromolecules</i> , 2005 , 6, 351-8	6.9	45
44	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
43	Structural characterisation of groundwater hydrophobic acids isolated from the Tomago Sand Beds, Australia. <i>Organic Geochemistry</i> , 2005 , 36, 385-397	3.1	9
42	Optical microsensors for pesticides identification based on porous silicon technology. <i>Biosensors and Bioelectronics</i> , 2005 , 20, 2136-9	11.8	45
41	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
40	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
39	Sequestration of a Biologically Labile Organic Carbon in Soils by Humified Organic Matter. <i>Climatic Change</i> , 2004 , 67, 329-343	4.5	87
38	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
37	State of the Art of CPMAS 13C-NMR Spectroscopy Applied to Natural Organic Matter. <i>ChemInform</i> , 2004 , 35, no		1
36	COMMENTS ON MODERN ANALYTICAL STUDIES OF HUMIC SUBSTANCES BY HATCHER ET AL.. <i>Soil Science</i> , 2003 , 168, 73-74	0.9	7
35	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
34	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

33	Chemical properties of humic substances in soils of an Italian volcanic system. <i>Geoderma</i> , 2003 , 117, 243-250	6.7	23
32	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
31	Elemental quantitation of natural organic matter by CPMAS ¹³ C NMR spectroscopy. <i>Solid State Nuclear Magnetic Resonance</i> , 2002 , 21, 158-70	3.1	42
30	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 ¹ H-NMR spectroscopy. <i>Environmental Science & Technology</i> , 2002 , 36, 76-84	10.3	117
29	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
28	Increased soil organic carbon sequestration through hydrophobic protection by humic substances. <i>Soil Biology and Biochemistry</i> , 2002 , 34, 1839-1851	7.5	197
27	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
26	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
25	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
24	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
23	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
22	CHROMATOGRAPHIC AND SPECTROPHOTOMETRIC PROPERTIES OF DISSOLVED HUMIC SUBSTANCES COMPARED WITH MACROMOLECULAR POLYMERS. <i>Soil Science</i> , 2001 , 166, 174-185	0.9	70
21	THE SUPRAMOLECULAR STRUCTURE OF HUMIC SUBSTANCES. <i>Soil Science</i> , 2001 , 166, 810-832	0.9	678
20	Polymerization of humic substances by an enzyme-catalyzed oxidative coupling. <i>Die Naturwissenschaften</i> , 2000 , 87, 391-4	2	72
19	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
18	Increased sequestration of organic carbon in soil by hydrophobic protection. <i>Die Naturwissenschaften</i> , 1999 , 86, 496-9	2	64
17	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
16	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

15	Formation and characterization of OH-Aluminum-montmorillonite complexes. <i>Organic Geochemistry</i> , 1999 , 30, 461-468	3.1	20
14	Atrazine Interactions with Soil Humic Substances of Different Molecular Structure. <i>Journal of Environmental Quality</i> , 1998 , 27, 1324-1333	3.4	85
13	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
12	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
11	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
10	Adsorption of Glyphosate by Humic Substances. <i>Journal of Agricultural and Food Chemistry</i> , 1996 , 44, 2442-2446	5.7	120
9	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
8	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
7	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	1.4	13
6	Effects of fractions of coal-derived humic substances on seed germination and growth of seedlings (<i>Lactuca sativa</i> and <i>Lycopersicon esculentum</i>). <i>Biology and Fertility of Soils</i> , 1993 , 16, 11-15	6.1	45
5	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	10.2	10
4	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
3	Carbon, nitrogen and phosphorus concentrations in aggregates of organic waste-amended soils. <i>Biological Wastes</i> , 1990 , 31, 97-111		32
2	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
1	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