

Pellegrino Conte

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.

106
papers

4,337
citations

37
h-index

63
g-index

117
ext. papers

4,803
ext. citations

5
avg, IF

5.49
L-index

#	Paper	IF	Citations
106	Changes in Physicochemical Properties of Biochar after Addition to Soil. <i>Agriculture (Switzerland)</i> , 2022 , 12, 320	3	0
105	Differentiation among dairy products by combination of fast field cycling NMR relaxometry data and chemometrics. <i>Magnetic Resonance in Chemistry</i> , 2021 ,	2.1	1
104	Recent Developments in Understanding Biochar Physical Chemistry. <i>Agronomy</i> , 2021 , 11, 615	3.6	9
103	Heuristic Algorithm for the Analysis of Fast Field Cycling (FFC) NMR Dispersion Curves. <i>Analytical Chemistry</i> , 2021 , 93, 8553-8558	7.8	1
102	Fast field cycling NMR relaxometry as a tool to monitor Parmigiano Reggiano cheese ripening. <i>Food Research International</i> , 2021 , 139, 109845	7	8
101	Applications of fast field cycling NMR relaxometry. <i>Annual Reports on NMR Spectroscopy</i> , 2021 , 104, 141-188	1.88	2
100	Evaluation of adsorption ability of cyclodextrin-calixarene nanosponges towards Pb ion in aqueous solution. <i>Carbohydrate Polymers</i> , 2021 , 267, 118151	10.3	7
99	Water Dynamics at the Solid-Liquid Interface to Unveil the Textural Features of Synthetic Nanosponges. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 1847-1857	3.4	10
98	Nuclear Magnetic Resonance with Fast Field-Cycling Setup: A Valid Tool for Soil Quality Investigation. <i>Agronomy</i> , 2020 , 10, 1040	3.6	9
97	Standardizing the use of fast-field cycling NMR relaxometry for measuring hydrological connectivity inside the soil. <i>Magnetic Resonance in Chemistry</i> , 2020 , 58, 41-50	2.1	8
96	Small-sized platinum nanoparticles in soil organic matter: Influence on water holding capacity, evaporation and structural rigidity. <i>Science of the Total Environment</i> , 2019 , 694, 133822	10.2	8
95	Comparing different processing methods in apple slice drying. Part 2 solid-state Fast Field Cycling 1H-NMR relaxation properties, shrinkage and changes in volatile compounds. <i>Biosystems Engineering</i> , 2019 , 188, 345-354	4.8	16
94	Look for methods, not conclusions. <i>Cell Death and Disease</i> , 2019 , 10, 931	9.8	
93	Factors influencing structural heat-induced structural relaxation of dissolved organic matter. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 167, 422-428	7	3
92	Designing biochar properties through the blending of biomass feedstock with metals: Impact on oxyanions adsorption behavior. <i>Chemosphere</i> , 2019 , 214, 743-753	8.4	29
91	Measuring hydrological connectivity inside a soil by low field nuclear magnetic resonance relaxometry. <i>Hydrological Processes</i> , 2018 , 32, 93-101	3.3	11
90	Microstructural and associated chemical changes during the composting of a high temperature biochar: Mechanisms for nitrate, phosphate and other nutrient retention and release. <i>Science of the Total Environment</i> , 2018 , 618, 1210-1223	10.2	107

89	Structural and Mechanical Modification Induced by Water Content in Giant Wild Reed (<i>A. donax</i> L.). <i>ACS Omega</i> , 2018 , 3, 18510-18517	3.9	5
88	Influence of Adsorbed Water on the Activation Energy of Model Photocatalytic Reactions. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 2258-2267	3.8	21
87	Organic coating on biochar explains its nutrient retention and stimulation of soil fertility. <i>Nature Communications</i> , 2017 , 8, 1089	17.4	230
86	Biochar based remediation of water and soil contaminated by phenanthrene and pentachlorophenol. <i>Chemosphere</i> , 2017 , 186, 193-201	8.4	45
85	Assessing hydrological connectivity inside a soil by fast-field-cycling nuclear magnetic resonance relaxometry and its link to sediment delivery processes. <i>Environmental Earth Sciences</i> , 2017 , 76, 1	2.9	12
84	Soil-Water Interactions Unveiled by Fast Field Cycling NMR Relaxometry 2017 , 453-464		5
83	Mechanisms of Organic Coating on the Surface of a Poplar Biochar. <i>Current Organic Chemistry</i> , 2017 , 21, 559-565	1.7	18
82	Water Dynamics and Its Role in Structural Hysteresis of Dissolved Organic Matter. <i>Environmental Science & Technology</i> , 2016 , 50, 2210-6	10.3	11
81	Cooking influence on physico-chemical fruit characteristics of eggplant (<i>Solanum melongena</i> L.). <i>Food Chemistry</i> , 2016 , 194, 835-42	8.5	46
80	Evaluation of the surface affinity of water in three biochars using fast field cycling NMR relaxometry. <i>Magnetic Resonance in Chemistry</i> , 2016 , 54, 365-70	2.1	12
79	Plant growth improvement mediated by nitrate capture in co-composted biochar. <i>Scientific Reports</i> , 2015 , 5, 11080	4.9	200
78	Structure alteration of a sandy-clay soil by biochar amendments. <i>Journal of Soils and Sediments</i> , 2015 , 15, 816-824	3.4	75
77	Effects of ions on water structure: a low-field ^1H T 2 NMR relaxometry approach. <i>Magnetic Resonance in Chemistry</i> , 2015 , 53, 711-8	2.1	17
76	Research and Application of Biochar in Europe. <i>SSSA Special Publication Series</i> , 2015 , 409-422	0	7
75	Fourfold Increase in Pumpkin Yield in Response to Low-Dosage Root Zone Application of Urine-Enhanced Biochar to a Fertile Tropical Soil. <i>Agriculture (Switzerland)</i> , 2015 , 5, 723-741	3	95
74	Molecular Sizes and Association Forces of Humic Substances in Solution 2015 , 89-118		1
73	Conformational Redistribution of Honey Components following Different Storage Conditions. <i>International Journal of Spectroscopy</i> , 2015 , 2015, 1-7		6
72	Water dynamics in different biochar fractions. <i>Magnetic Resonance in Chemistry</i> , 2015 , 53, 726-34	2.1	20

71	Effect of heating time and temperature on the chemical characteristics of biochar from poultry manure. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 1912-8	5.7	84
70	Mechanisms of water interaction with pore systems of hydrochar and pyrochar from poplar forestry waste. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 4917-23	5.7	33
69	Hydration and water holding properties of cross-linked lignite humic acids. <i>Geoderma</i> , 2014 , 230-231, 151-160	6.7	28
68	Effect of pruning-derived biochar on heavy metals removal and water dynamics. <i>Biology and Fertility of Soils</i> , 2014 , 50, 1211-1222	6.1	38
67	Nature of water-biochar interface interactions. <i>GCB Bioenergy</i> , 2013 , 5, 116-121	5.6	53
66	Reconstruction of the environmental evolution of a Sicilian saltmarsh (Italy). <i>Environmental Science and Pollution Research</i> , 2013 , 20, 4847-58	5.1	9
65	Nature of Interactions at the Interface of Two Water-Saturated Commercial TiO ₂ Polymorphs. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 5269-5273	3.8	14
64	Combined proton NMR wideline and NMR relaxometry to study SOM-water interactions of cation-treated soils. <i>Journal of Hydrology and Hydromechanics</i> , 2013 , 61, 50-63	2.1	28
63	Editorial (Thematic Issue: Recent Advances in Environmental Organic and Bio-Organic Chemistry). <i>Current Organic Chemistry</i> , 2013 , 17, 2971-2971	1.7	
62	Effect of Organic Amendments on the Evolution of Soil Organic Matter in Soils Stressed by Intensive Agricultural Practices. <i>Current Organic Chemistry</i> , 2013 , 17, 2998-3005	1.7	25
61	Spatial patterns of, and environmental controls on, soil properties at a riparian-paddock interface. <i>Soil Biology and Biochemistry</i> , 2012 , 49, 38-45	7.5	27
60	Fast field cycling NMR relaxometry characterization of biochars obtained from an industrial thermochemical process. <i>Journal of Soils and Sediments</i> , 2012 , 12, 1211-1221	3.4	42
59	Effects of afforestation with four unmixed plant species on the soil-water interactions in a semiarid Mediterranean region (Sicily, Italy). <i>Journal of Soils and Sediments</i> , 2012 , 12, 1222-1230	3.4	21
58	Adsorption of dissolved organic matter on clay minerals as assessed by infra-red, CPMAS 13C NMR spectroscopy and low field T1 NMR relaxometry. <i>Organic Geochemistry</i> , 2011 , 42, 972-977	3.1	28
57	Effect of ramp size and sample spinning speed on CPMAS 13C NMR spectra of soil organic matter. <i>Organic Geochemistry</i> , 2011 , 42, 926-935	3.1	22
56	Applicability of solid state fast field cycling NMR relaxometry in understanding relaxation properties of leaves and leaf-litters. <i>Organic Geochemistry</i> , 2011 , 42, 978-984	3.1	9
55	Thermal transformation of micro-crystalline cellulose in phosphoric acid. <i>Cellulose</i> , 2011 , 18, 1499-1507	5.5	9
54	Dynamics of pistachio oils by proton nuclear magnetic resonance relaxation dispersion. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 400, 1443-50	4.4	23

53	Synthesis and characterization of a novel high luminescent gold-2-mercapto-1-methyl-imidazole complex. <i>Luminescence</i> , 2011 , 26, 506-9	2.5	5
52	DSC study on hyaluronan drying and hydration. <i>Thermochimica Acta</i> , 2011 , 523, 245-249	2.9	25
51	Palynological, physico-chemical and aroma characterization of Sicilian honeys. <i>Journal of ApiProduct and ApiMedical Science</i> , 2011 , 3, 164-173		2
50	Dynamics of hyaluronan aqueous solutions as assessed by fast field cycling NMR relaxometry. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 397, 3023-8	4.4	20
49	CPMAS 13C NMR Characterization of Leaves and Litters from the Reafforested Area of Mustigarufi in Sicily (Italy). <i>The Open Magnetic Resonance Journal</i> , 2010 , 3, 89-95		4
48	Effect of RF Field Inhomogeneity and Sample Restriction on Spectral Resolution of CP/MAS-13C NMR Spectra of Natural Organic Matter~!2009-07-15~!2009-12-11~!2010-06-18~!. <i>The Open Magnetic Resonance Journal</i> , 2010 , 3, 75-83		5
47	CPMAS 13C NMR Characterization of Leaves and Litters from the Reafforested Area of Mustigarufi in Sicily (Italy)~!2009-06-15~!2009-12-07~!2010-06-18~!. <i>The Open Magnetic Resonance Journal</i> , 2010 , 3, 89-95		7
46	Interaction of a Recombinant Prion Protein with Organo-Mineral Complexes as Assessed by FT-IR and CPMAS 13C NMR Analysis~!2009-07-21~!2009-12-07~!2010-06-18~!. <i>The Open Magnetic Resonance Journal</i> , 2010 , 3, 84-88		2
45	Solid-State 1H-NMR Relaxation Properties of the Fruit of a Wild Relative of Eggplant at Different Proton Larmor Frequencies. <i>Spectroscopy Letters</i> , 2009 , 42, 235-239	1.1	19
44	Synthesis and thermoelectric characterisation of bismuth nanoparticles. <i>Journal of Nanoparticle Research</i> , 2009 , 11, 1729-1738	2.3	49
43	Chemical and spectroscopic characteristics of the wood of <i>Vitis vinifera</i> cv. Sangiovese affected by esca disease. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 11469-75	5.7	19
42	Dissolution mechanism of crystalline cellulose in H3PO4 as assessed by high-field NMR spectroscopy and fast field cycling NMR relaxometry. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 8748-52	5.7	27
41	Interactions between 2-Aminobenzothiazole and Natural Organic Matter as Evidenced by CPMAS Nitrogen-15 NMR Spectroscopy. <i>Vadose Zone Journal</i> , 2009 , 8, 670-676	2.7	9
40	Evaluation of the factors affecting direct polarization solid state 31P-NMR spectroscopy of bulk soils. <i>European Journal of Soil Science</i> , 2008 , 59, 584-591	3.4	26
39	Dynamics of cross polarization in solid state nuclear magnetic resonance experiments of amorphous and heterogeneous natural organic substances. <i>Analytical Sciences</i> , 2008 , 24, 1183-8	1.7	13
38	1H NMR Spectroscopy with Multivariate Statistical Analysis as a Tool for a Rapid Screening of the Molecular Changes Occurring During Micro-Oxygenation of an Italian Red Wine. <i>The Open Magnetic Resonance Journal</i> , 2008 , 1, 77-80		7
37	NMR-investigation of the mechanism of silver mercaptide thermolysis in amorphous polystyrene. <i>Journal of Materials Chemistry</i> , 2007 , 17, 201-205		17
36	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

35	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
34	Spectroscopic and conformational properties of size-fractions separated from a lignite humic acid. <i>Chemosphere</i> , 2007 , 69, 1032-9	8.4	48
33	O-Alkylation of a lignite humic acid by phase-transfer catalysis. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 384, 994-1001	4.4	10
32	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
31	Changes of humic substances characteristics from forested to cultivated soils in Ethiopia. <i>Geoderma</i> , 2006 , 132, 9-19	6.7	98
30	Iodofluorination of alkenes and alkynes promoted by iodine and 4-iodotoluene difluoride. <i>Tetrahedron Letters</i> , 2006 , 47, 273-276	2	38
29	Increased conformational rigidity of humic substances by oxidative biomimetic catalysis. <i>Biomacromolecules</i> , 2005 , 6, 351-8	6.9	45
28	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
27	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
26	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
25	Carbohydrates and aggregation in lowland soils of Nigeria as influenced by organic inputs. <i>Soil and Tillage Research</i> , 2004 , 75, 161-172	6.5	52
24	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
23	State of the Art of CPMAS 13C-NMR Spectroscopy Applied to Natural Organic Matter. <i>ChemInform</i> , 2004 , 35, no		1
22	COMMENTS ON MODERN ANALYTICAL STUDIES OF HUMIC SUBSTANCES BY HATCHER ET AL.. <i>Soil Science</i> , 2003 , 168, 73-74	0.9	7
21	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
20	Chemical properties of humic substances in soils of an Italian volcanic system. <i>Geoderma</i> , 2003 , 117, 243-250	6.5	23
19	Potential availability of heavy metals to phytoextraction from contaminated soils induced by exogenous humic substances. <i>Chemosphere</i> , 2003 , 52, 265-75	8.4	198
18	Elemental quantitation of natural organic matter by CPMAS 13C NMR spectroscopy. <i>Solid State Nuclear Magnetic Resonance</i> , 2002 , 21, 158-70	3.1	42

17	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
16	Effect of concentration on the self-assembling of dissolved humic substances. <i>Developments in Soil Science</i> , 2002 , 28, 409-417	1.3	4
15	Increased soil organic carbon sequestration through hydrophobic protection by humic substances. <i>Soil Biology and Biochemistry</i> , 2002 , 34, 1839-1851	7.5	197
14	Combined effects of an oxidative enzyme and dissolved humic substances on ¹³ C-labelled 2,4-D herbicide as revealed by high-resolution ¹³ C NMR spectroscopy. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2001 , 26, 70-76	4.2	13
13	Increased retention of polycyclic aromatic hydrocarbons in soils induced by soil treatment with humic substances. <i>Environmental Pollution</i> , 2001 , 112, 27-31	9.3	92
12	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
11	CHROMATOGRAPHIC AND SPECTROPHOTOMETRIC PROPERTIES OF DISSOLVED HUMIC SUBSTANCES COMPARED WITH MACROMOLECULAR POLYMERS. <i>Soil Science</i> , 2001 , 166, 174-185	0.9	70
10	Polymerization of humic substances by an enzyme-catalyzed oxidative coupling. <i>Die Naturwissenschaften</i> , 2000 , 87, 391-4	2	72
9	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
8	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
7	High Pressure Size Exclusion Chromatography (HPSEC) of humic substances: molecular sizes, analytical parameters, and column performance. <i>Chemosphere</i> , 1999 , 38, 517-28	8.4	63
6	Atrazine Interactions with Soil Humic Substances of Different Molecular Structure. <i>Journal of Environmental Quality</i> , 1998 , 27, 1324-1333	3.4	85
5	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
4	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
3	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
2	Adsorption of Glyphosate by Humic Substances. <i>Journal of Agricultural and Food Chemistry</i> , 1996 , 44, 2442-2446	5.7	120
1	Environmental NMR: Fast-field-cycling Relaxometry 1996 , 389-398		13