

Pierluigi Mazzei

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.

62

papers

1,633

citations

24

h-index

38

g-index

63

ext. papers

2,024

ext. citations

5.6

avg. IF

4.82

L-index

#	Paper	IF	Citations
62	Advanced printable hydrogels from pre-crosslinked alginate as a new tool in semi solid extrusion 3D printing process. <i>Carbohydrate Polymers</i> , 2022 , 276, 118746	10.3	3
61	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
60	Changes in water-extractable organic matter in tropical forest and agricultural soils as detected by the DRIFT spectroscopy technique. <i>Land Degradation and Development</i> , 2021 , 32, 4755	4.4	0
59	Novel Humo-Pectic Hydrogels for Controlled Release of Agroproducts. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 10079-10088	8.3	9
58	Bio-Based Hydrogels Composed of Humic Matter and Pectins of Different Degree of Methyl-Esterification. <i>Molecules</i> , 2020 , 25,	4.8	2
57	A community-built calibration system: The case study of quantification of metabolites in grape juice by qNMR spectroscopy. <i>Talanta</i> , 2020 , 214, 120855	6.2	8
56	The fate of cigarette butts in different environments: Decay rate, chemical changes and ecotoxicity revealed by a 5-years decomposition experiment. <i>Environmental Pollution</i> , 2020 , 261, 114108	9.3	25
55	Molecular characterization of ombrotrophic peats by humeomics. <i>Chemical and Biological Technologies in Agriculture</i> , 2020 , 7,	4.4	6
54	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
53	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
52	Chlamyphilone, a Novel Metabolite with Insecticidal Activity. <i>Molecules</i> , 2019 , 24,	4.8	4
51	Humic acids increase the maize seedlings exudation yield. <i>Chemical and Biological Technologies in Agriculture</i> , 2019 , 6,	4.4	14
50	Reduced catalytic activity of an exogenous extracellular β -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
49	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
48	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> , 2019 , 66, 2500-2509	5.7	7
47	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
46	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

45	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
44	Biochars from olive mill waste have contrasting effects on plants, fungi and phytoparasitic nematodes. <i>PLoS ONE</i> , 2018 , 13, e0198728	3.7	24
43	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
42	An alternative to mineral phosphorus fertilizers: The combined effects of <i>Trichoderma harzianum</i> and compost on Zea mays, as revealed by 1H NMR and GC-MS metabolomics. <i>PLoS ONE</i> , 2018 , 13, e0209864	3.7	33
41	Effects of post cure treatment in the glass transformation range on the structure and fire behavior of in situ generated silica/epoxy hybrids. <i>Journal of Sol-Gel Science and Technology</i> , 2018 , 87, 156-169	2.3	9
40	HRMAS NMR spectroscopy applications in agriculture. <i>Chemical and Biological Technologies in Agriculture</i> , 2017 , 4,	4.4	17
39	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
38	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
37	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
36	OMDY: a new model of organic matter decomposition based on biomolecular content as assessed by 13C-CPMAS-NMR. <i>Plant and Soil</i> , 2017 , 411, 377-394	4.2	21
35	Isolation and Characterization of Gramineae and Fabaceae Soda Lignins. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	34
34	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
33	Molecular Properties and Functions of Humic Substances and Humic-Like Substances (HULIS) from Biomass and Their Transformation Products 2016 , 85-114		3
32	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
31	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	2.3	37
30	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
29	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
28	Silica Treatments: A Fire Retardant Strategy for Hemp Fabric/Epoxy Composites. <i>Polymers</i> , 2016 , 8,	4.5	34

27	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
26	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
25	Structural recognition of lignin isolated from bioenergy crops by subcritical water: ethanol extraction. <i>Fuel Processing Technology</i> , 2015 , 138, 637-644	7.2	18
24	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
23	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
22	Humic and fulvic acids as biostimulants in horticulture. <i>Scientia Horticulturae</i> , 2015 , 196, 15-27	4.1	352
21	Molecular composition of water-soluble lignins separated from different non-food biomasses. <i>Fuel Processing Technology</i> , 2015 , 131, 175-181	7.2	22
20	Performance Assessment in Fingerprinting and Multi Component Quantitative NMR Analyses. <i>Analytical Chemistry</i> , 2015 , 87, 6709-17	7.8	41
19	Phosphorus stably bonded to a silica gel matrix through niobium bridges. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15986-15995	13	17
18	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
17	Metabolites produced by <i>Gnomoniopsis castanea</i> associated with necrosis of chestnut galls. <i>Chemical and Biological Technologies in Agriculture</i> , 2014 , 1,	4.4	3
16	pH-controlled release of auxin plant hormones from cucurbit[7]uril macrocycle. <i>Chemical and Biological Technologies in Agriculture</i> , 2014 , 1, 2	4.4	9
15	Copolymerization of 2,4-dichlorophenol with humic substances by oxidative and photo-oxidative biomimetic catalysis. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 8016-24	5.1	4
14	A novel fungal metabolite with beneficial properties for agricultural applications. <i>Molecules</i> , 2014 , 19, 9760-72	4.8	47
13	Reduced complexity of multidimensional and diffusion NMR spectra of soil humic fractions as simplified by Humeomics. <i>Chemical and Biological Technologies in Agriculture</i> , 2014 , 1,	4.4	20
12	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
11	Reduced activity of alkaline phosphatase due to host-guest interactions with humic superstructures. <i>Chemosphere</i> , 2013 , 93, 1972-9	8.4	16
10	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

9	Microbiological features and bioactivity of a fermented manure product (preparation 500) used in biodynamic agriculture. <i>Journal of Microbiology and Biotechnology</i> , 2013 , 23, 644-51	3.3	26
8	Molecular properties of a fermented manure preparation used as field spray in biodynamic agriculture. <i>Environmental Science and Pollution Research</i> , 2012 , 19, 4214-25	5.1	29
7	Cerinolactone, a hydroxy-lactone derivative from <i>Trichoderma cerinum</i> . <i>Journal of Natural Products</i> , 2012 , 75, 103-6	4.9	40
6	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
5	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
4	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
3	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
2	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
1	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