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Characterizing phosphorus forms in cropland soils with solution  $^{31}\text{P}$ -NMR: past studies and future research needs

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#	Paper	IF	Citations
43	Characterizing the phosphorus forms extracted from soil by the Mehlich III soil test. <i>Geochemical Transactions</i> , <b>2018</b> , 19, 7	3	15
42	Urochloa ruziziensis cover crop increases the cycling of soil inositol phosphates. <i>Biology and Fertility of Soils</i> , <b>2018</b> , 54, 935-947	6.1	8
41	Speciation of Phosphorus from Agricultural Muck Soils to Stream and Lake Sediments. <i>Journal of Environmental Quality</i> , <b>2018</b> , 47, 884-892	3.4	13
40	Organic Phosphorus Forms in Agricultural Soils under Mediterranean Climate. <i>Soil Science Society of America Journal</i> , <b>2018</b> , 82, 783-795	2.5	8
39	Long-Term Land Use Affects Phosphorus Speciation and the Composition of Phosphorus Cycling Genes in Agricultural Soils. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 1643	5.7	27
38	Options for Improved Phosphorus Cycling and Use in Agriculture at the Field and Regional Scales. <i>Journal of Environmental Quality</i> , <b>2019</b> , 48, 1247-1264	3.4	38
37	Characterization of fluvo-aquic soil phosphorus affected by long-term fertilization using solution P NMR spectroscopy. <i>Science of the Total Environment</i> , <b>2019</b> , 692, 89-97	10.2	15
36	Redox-dependent phosphorus burial and regeneration in an offshore sulfidic sediment core in North Yellow Sea, China. <i>Marine Pollution Bulletin</i> , <b>2019</b> , 149, 110582	6.7	4
35	Organic phosphorus of soils under cacao agroforests in the Atlantic coast of Brazil. <i>Geoderma Regional</i> , <b>2019</b> , 17, e00220	2.7	3
34	Linking organic P dynamics in tropical dry forests to changes in rainfall regime: Evidences of the Yucatan Peninsula. <i>Forest Ecology and Management</i> , <b>2019</b> , 438, 75-85	3.9	4
33	Potential of phosphorus fractions to trace sediment sources in a rural catchment of Southern Brazil: Comparison with the conventional approach based on elemental geochemistry. <i>Geoderma</i> , <b>2019</b> , 337, 1067-1076	6.7	14
32	Biological soil crusts as key player in biogeochemical P cycling during pedogenesis of sandy substrate. <i>Geoderma</i> , <b>2019</b> , 338, 145-158	6.7	9
31	The chemical nature of soil organic phosphorus: A critical review and global compilation of quantitative data. <i>Advances in Agronomy</i> , <b>2020</b> , 160, 51-124	7.7	9
30	Soil Type Affects Organic Acid Production and Phosphorus Solubilization Efficiency Mediated by Several Native Fungal Strains from Mexico. <i>Microorganisms</i> , <b>2020</b> , 8,	4.9	11
29	Assessing Legacy Phosphorus in Soils. <i>Soil Systems</i> , <b>2020</b> , 4, 74	3.5	6
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27	Effects of suspended particular matters, excess PO <sub>4</sub> , and salinity on phosphorus speciation in coastal river sediments. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 27697-27707	5.1	3

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25	Yield response to soil test phosphorus in Switzerland: Pedoclimatic drivers of critical concentrations for optimal crop yields using multilevel modelling. <i>Science of the Total Environment</i> , <b>2021</b> , 755, 143453	10.2	6
24	O Isotope Labeling Combined with P Nuclear Magnetic Resonance Spectroscopy for Accurate Quantification of Hydrolyzable Phosphorus Species in Environmental Samples. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 2018-2025	7.8	3
23	Critical Review of Polyphosphate and Polyphosphate Accumulating Organisms for Agricultural Water Quality Management. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 2722-2742	10.3	6
22	Utilization of soil organic phosphorus as a strategic approach for sustainable agriculture. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2021</b> , 184, 311-319	2.3	4
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9	Potential Phosphorus Uptake Mechanisms in the Deep Sedimentary Biosphere. <i>Frontiers in Marine Science</i> , <b>2022</b> , 9,	4.5	

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- 7 Spatiotemporal distributions and relationships of phosphorus content, phosphomonoesterase activity, and bacterial phosphomonoesterase genes in sediments from a eutrophic brackish water lake in Chile. **2022**, 320, 115906 ○
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- 1 Accumulation of Labile P Forms and Promotion of Microbial Community Diversity in Mollisol with Long-Term Manure Fertilization. **2023**, 13, 884 ○