N J Barrow

List of Publications by Year
in descending order

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186 papers	8,875 citations	29994 54 h-index	56606 83 g-index
187 all docs	187 docs citations	187 times ranked	3699 citing authors

#	Article	IF	Citations
1	A mechanistic model for describing the sorption and desorption of phosphate by soil. Journal of Soil Science, 1983, 34, 733-750.	1.2	345
2	THE DESCRIPTION OF PHOSPHATE ADSORPTION CURVES. Journal of Soil Science, 1978, 29, 447-462.	1.2	290
3	Describing the adsorption of phosphate, citrate and selenite on a variable-charge mineral surface. Soil Research, 1980, 18, 49.	0.6	249
4	Reaction of Anions and Cations with Variable-Charge Soils. Advances in Agronomy, 1986, , 183-230.	2.4	204
5	THE SLOW REACTIONS BETWEEN SOIL AND ANIONS. Soil Science, 1975, 119, 167-177.	0.9	202
6	Modelling the effects of pH on phosphate sorption by soils. Journal of Soil Science, 1984, 35, 283-297.	1.2	202
7	Effects of crystallinity of goethite: II. Rates of sorption and desorption of phosphate. European Journal of Soil Science, 1997, 48, 101-114.	1.8	179
8	The effects of pH on phosphate uptake from the soil. Plant and Soil, 2017, 410, 401-410.	1.8	176
9	Root hair length determines beneficial effect of aGlomusspecies on shoot growth of some pasture species. New Phytologist, 1995, 131, 247-254.	3.5	154
10	Describing the effects of electrolyte on adsorption of phosphate by a variable charge surface. Soil Research, 1980, 18, 395.	0.6	145
11	Effects of vesicular-arbuscular mycorrhiza on the availability of iron phosphates to plants. Plant and Soil, 1987, 99, 401-410.	1.8	136
12	On the reversibility of phosphate sorption by soils. Journal of Soil Science, 1983, 34, 751-758.	1.2	135
13	The four laws of soil chemistry: the Leeper lecture 1998. Soil Research, 1999, 37, 787.	0.6	127
14	Reaction kinetics of the adsorption and desorption of nickel, zinc and cadmium by goethite. II Modelling the extent and rate of reaction. Journal of Soil Science, 1989, 40, 437-450.	1.2	126
15	Determination of total sulphur in soil and plant material. Analytica Chimica Acta, 1962, 27, 158-164.	2.6	125
16	Increasing phosphorus supply can increase the infection of plant roots by vesicular-arbuscular mycorrhizal fungi. Soil Biology and Biochemistry, 1984, 16, 419-420.	4.2	118
17	The effects of pH and chloride concentration on mercury sorption. I. By goethite. Journal of Soil Science, 1992, 43, 295-304.	1.2	112
18	The description of sorption curves. European Journal of Soil Science, 2008, 59, 900-910.	1.8	108

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19	Reactions with Variable-Charge Soils. , 1987, , .		105
20	Describing the effect of time on sorption of phosphate by iron and aluminium hydroxides. Journal of Soil Science, 1985, 36, 187-197.	1.2	103
21	Describing the adsorption of copper, zinc and lead on a variable charge mineral surface. Soil Research, 1981, 19, 309.	0.6	102
22	THE SLOW REACTIONS BETWEEN SOIL AND ANIONS. Soil Science, 1974, 118, 380-386.	0.9	95
23	EFFECT OF PREVIOUS ADDITIONS OF PHOSPHATE ON PHOSPHATE ADSORPTION BY SOILS. Soil Science, 1974, 118, 82-89.	0.9	91
24	Methods of measuring residual value of fertilizers. Australian Journal of Experimental Agriculture, 1972, 12, 502.	1.0	90
25	Testing a mechanistic model. II. The effects of time and temperature on the reaction of zinc with a soil. Journal of Soil Science, 1986, 37, 277-286.	1.2	87
26	COMPARISON OF THE ADSORPTION OF MOLYBDATE, SULFATE AND PHOSPHATE BY SOILS. Soil Science, 1970, 109, 282-288.	0.9	85
27	Testing a mechanistic model. III. The effects of pH on fluoride retention by a soil. Journal of Soil Science, 1986, 37, 287-293.	1.2	85
28	Possibility of using caustic residue from bauxite for improving the chemical and physical properties of sandy soils. Australian Journal of Agricultural Research, 1982, 33, 275.	1.5	83
29	EFFECTS OF solUTION: SOIL RATIO AND VIGOUR OF SHAKING ON THE RATE OF PHOSPHATE ADSORPTION BY SOIL. Journal of Soil Science, 1979, 30, 67-76.	1.2	81
30	Observations and modelling of the reactions of 10 metals with goethite: adsorption and diffusion processes. European Journal of Soil Science, 2007, 58, 1304-1315.	1.8	80
31	STUDIES ON EXTRACTION AND ON AVAILABILITY TO PLANTS OF ADSORBED PLUS SOLUBLE SULFATE. Soil Science, 1967, 104, 242-249.	0.9	79
32	THE DESCRIPTION OF DESORPTION OF PHOSPHATE FROM SOIL. Journal of Soil Science, 1979, 30, 259-270.	1.2	79
33	Testing a mechanistic model. V. The points of zero salt effect for phosphate retention, for zinc retention and for acid/alkali titration of a soil. Journal of Soil Science, 1986, 37, 303-310.	1.2	75
34	Equations for describing sigmoid yield responses and their application to some phosphate responses by lupins and by subterranean clover. Fertilizer Research, 1990, 22, 181-188.	0.5	75
35	THREE EFFECTS OF TEMPERATURE ON THE REACTIONS BETWEEN INORGANIC PHOSHATE AND SOIL. Journal of Soil Science, 1979, 30, 271-279.	1.2	74
36	A comparison of models for describing the adsorption of anions A on a variable charge mineral surface. Journal of Colloid and Interface Science, 1987, 119, 236-250.	5.0	74

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37	Specific activity of phosphorus in mycorrhizal and non-mycorrhizal plants in relation to the availability of phosphorus to plants. Soil Biology and Biochemistry, 1984, 16, 299-304.	4.2	73
38	Testing a mechanistic model. VII. The effects of pH and of electrolyte on the reaction of selenite and selenate with a soil. Journal of Soil Science, 1989, 40, 17-28.	1.2	73
39	Phosphorus Uptake and Utilization by Tree Seedlings. Australian Journal of Botany, 1977, 25, 571.	0.3	70
40	A mechanistic model for describing the sorption and desorption of phosphate by soil. European Journal of Soil Science, 2015, 66, 9-18.	1.8	69
41	The effects of pH and chloride concentration on mercury sorption. II. By a soil. Journal of Soil Science, 1992, 43, 305-312.	1.2	67
42	Testing a mechanistic model. IV. Describing the effects of pH on zinc retention by soils. Journal of Soil Science, 1986, 37, 295-302.	1.2	65
43	THE SLOW REACTIONS BETWEEN SOIL AND ANIONS. Soil Science, 1975, 119, 190-197.	0.9	62
44	Differences amongst a wide-ranging collection of soils in the rate of reaction with phosphate. Soil Research, 1980, 18, 215.	0.6	62
45	Studies on mineralization of sulphur from soil organic matter. Australian Journal of Agricultural Research, 1961, 12, 306.	1.5	61
46	The effects of phosphate on zinc sorption by a soil. Journal of Soil Science, 1987, 38, 453-459.	1.2	61
47	Effect of phosphate status on the sorption and desorption properties of some soils of northern India. Plant and Soil, 2014, 378, 383-395.	1.8	61
48	Soil phosphate chemistry and the P-sparing effect of previous phosphate applications. Plant and Soil, 2015, 397, 401-409.	1.8	61
49	A comparison of the mineralization of nitrogen and of sulphur from decomposing organic materials. Australian Journal of Agricultural Research, 1960, 11, 960.	1.5	60
50	The response to phosphate of two annual pasture species. I. Effect of the soil's ability to adsorb phosphate on comparative phosphate requirement. Australian Journal of Agricultural Research, 1975, 26, 137.	1.5	60
51	THE SLOW REACTIONS BETWEEN SOIL AND ANIONS. Soil Science, 1975, 119, 311-320.	0.9	59
52	An objective method for fitting models of ion adsorption on variable charge surfaces. Soil Research, 1980, 18, 37.	0.6	58
53	The soil phosphate fractionation fallacy. Plant and Soil, 2021, 459, 1-11.	1.8	58
54	The accumulation of soil organic matter under pasture and its effect on soil properties. Australian Journal of Experimental Agriculture, 1969, 9, 437.	1.0	57

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55	Plant and soil factors including mycorrhizal infection causing sigmoidal response of plants to applied phosphorus. Plant and Soil, 1983, 73, 187-201.	1.8	57
56	Modelling the effect of adsorption of phosphate and other anions on the surface charge of variable charge oxides. Journal of Soil Science, 1984, 35, 273-281.	1.2	57
57	A brief discussion on the effect of temperature on the reaction of inorganic ions with soil. Journal of Soil Science, 1992, 43, 37-45.	1.2	56
58	Comparing the effectiveness of fertilizers. Fertilizer Research, 1985, 8, 85-90.	0.5	54
59	Effects of surface heterogeneity on ion adsorption by metal oxides and by soils. Langmuir, 1993, 9, 2606-2611.	1.6	54
60	Effects of crystallinity of goethite: I. Preparation and properties of goethites of differing crystallinity. European Journal of Soil Science, 1997, 48, 87-99.	1.8	53
61	Modifications to the Freundlich equation to describe anion sorption over a large range and to describe competition between pairs of ions. European Journal of Soil Science, 2005, 56, 601-606.	1.8	53
62	Effects of time and temperature on the sorption of cadmium, zinc, cobalt, and nickel by a soil. Soil Research, 1998, 36, 941.	0.6	53
63	Partition of excreted nitrogen, sulphur, and phosphorus between the faeces and urine of sheep being fed pasture. Australian Journal of Agricultural Research, 1962, 13, 461.	1.5	52
64	Comparing the effects of pH on the sorption of metals by soil and by goethite, and on uptake by plants. European Journal of Soil Science, 1998, 49, 683-692.	1.8	52
65	EFFECTS OF IONIC STRENGTH AND NATURE OF THE CATION ON DESORPTION OF PHOSPHATE FROM SOIL. Journal of Soil Science, 1979, 30, 53-65.	1.2	51
66	Effect of previous additions of superphosphate on sorption of phosphate. Soil Research, 1998, 36, 359.	0.6	51
67	Testing a mechanistic model. I. The effects of time and temperature on the reaction of fluoride and molybdate with a soil. Journal of Soil Science, 1986, 37, 267-275.	1.2	50
68	THE SLOW REACTIONS BETWEEN SOIL AND ANIONS. Soil Science, 1977, 124, 265-278.	0.9	49
69	A DIRECT TEST OF THE ABILITY OF VESICULAR-ARBUSCULAR MYCORRHIZA TO HELP PLANTS TAKE UP FIXED SOIL PHOSPHATE. New Phytologist, 1977, 78, 269-276.	3.5	49
70	Sodium bicarbonate as an extractant for soil phosphate, I. Separation of the factors affecting the amount of phosphate displaced from soil from those affecting secondary adsorption. Geoderma, 1976, 16, 91-107.	2.3	48
71	A PARTIAL MODEL FOR THE RATE OF ADSORPTION AND DESORPTION OF PHOSPHATE BY GOETHITE. Journal of Soil Science, 1981, 32, 399-408.	1.2	48
72	Testing a mechanistic model. VIII. The effects of time and temperature of incubation on the sorption and subsequent desorption of selenite and selenate by a soil. Journal of Soil Science, 1989, 40, 29-37.	1.2	47

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73	The effect of water-logging on fixation of nitrogen by soil incubated with straw. Plant and Soil, 1962, 16, 258-262.	1.8	46
74	The reaction between phosphate and dry soil. I. The effect of time, temperature and dryness. Journal of Soil Science, 1992, 43, 749-758.	1.2	46
75	Factors affecting the amount of phosphate extracted from soil by anion exchange resin. Geoderma, 1977, 18, 309-323.	2.3	44
76	INFLUENCE OF SOLUTION CONCENTRATION OF CALCIUM ON THE ADSORPTION OF PHOSPHATE, SULFATE, AND MOLYBDATE BY SOILS. Soil Science, 1972, 113, 175-180.	0.9	43
77	ON THE DISPLACEMENT OF ADSORBED ANIONS FROM SOIL. Soil Science, 1974, 117, 28-33.	0.9	43
78	A Study of a Method for Displacing Soil Solution by Centrifuging with an Immiscible Liquid. Journal of Environmental Quality, 1980, 9, 315-319.	1.0	43
79	THE SLOW REACTIONS BETWEEN SOIL AND ANIONS. Soil Science, 1977, 124, 347-354.	0.9	41
80	Accessibility of subsoil potassium to wheat grown on duplex soils in the south-west of Western Australia. Soil Research, 2000, 38, 745.	0.6	41
81	Evaluation and Utilization of Residual Phosphorus in Soils. Assa, Cssa and Sssa, 2015, , 333-359.	0.6	40
82	Mineralization of nitrogen and sulphur from sheep faeces.. Australian Journal of Agricultural Research, 1961, 12, 644.	1.5	38
83	The reaction of plant nutrients and pollutants with soil. Soil Research, 1989, 27, 475.	0.6	38
84	Towards a single-point method for measuring phosphate sorption by soils. Soil Research, 2000, 38, 1099.	0.6	38
85	Mechanisms of Reaction of Zinc with Soil and Soil Components. , 1993, , 15-31.		37
86	Measurement of the effects of pH on phosphate availability. Plant and Soil, 2020, 454, 217-224.	1.8	35
87	Differences Among Some North American Soils in the Rate of Reaction with Phosphate. Journal of Environmental Quality, 1980, 9, 644-648.	1.0	34
88	A discussion of the methods for measuring the rate of reaction between soil and phosphate. Fertilizer Research, 1983, 4, 51-61.	0.5	34
89	A quick and simple method for determining the titration curve and estimating the lime requirement of soil. Soil Research, 1990, 28, 685.	0.6	34
90	STUDIES ON THE ADSORPTION OF SULFATE BY SOILS. Soil Science, 1967, 104, 342-349.	0.9	33

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91	Sodium bicarbonate as an extractant for soil phosphate III. Effects of the buffering capacity of a soil for phosphate. Geoderma, 1976, 16, 273-283.	2.3	32
92	Effect of level of application on the relative effectiveness of rock phosphate. Fertilizer Research, 1988, 15, 181-192.	0.5	32
93	EFFECTS OF ADSORPTION OF SULFATE BY SOILS ON THE AMOUNT OF SULFATE PRESENT AND ITS AVAILABILITY TO PLANTS. Soil Science, 1969, 108, 193-201.	0.9	31
94	The response to phosphate of two annual pasture species. II.* The specific rate of uptake of phosphate, its distribution and use for growth. Australian Journal of Agricultural Research, 1975, 26, 145.	1.5	31
95	The effect of time on the competition between anions for sorption. Journal of Soil Science, 1992, 43, 421-428.	1.2	31
96	Comparing two theories about the nature of soil phosphate. European Journal of Soil Science, 2021, 72, 679-685.	1.8	31
97	Testing a mechanistic model. X. The effect of pH and electrolyte concentration on borate sorption by a soil. Journal of Soil Science, 1989, 40, 427-435.	1.2	30
98	A review of certain aspects of sulphur as a soil constituent and plant nutrient. Plant and Soil, 1962, 17, 295-308.	1.8	29
99	Relationship between a soils ability to adsorb phosphate and the residual effectiveness of superphosphate. Soil Research, 1973, 11, 57.	0.6	29
100	Sodium bicarbonate as an extractant for soil phosphate, II. Effect of varying the conditions of extraction on the amount of phosphate initially displaced and on the secondary adsorption. Geoderma, 1976, 16, 109-123.	2.3	28
101	Rate of desorption of eight heavy metals from goethite and its implications for understanding the pathways for penetration. European Journal of Soil Science, 2012, 63, 389-398.	1.8	28
102	Mechanisms by which citric acid increases phosphate availability. Plant and Soil, 2018, 423, 193-204.	1.8	28
103	The effects of varying the nitrogen, sulphur, and phosphorus content of organic matter on its decomposition. Australian Journal of Agricultural Research, 1960, 11, 317.	1.5	28
104	Testing a mechanistic model. IX. Competition between anions for sorption by soil. Journal of Soil Science, 1989, 40, 415-425.	1.2	27
105	Three Residual Benefits of Applying Phosphate Fertilizer. Soil Science Society of America Journal, 2018, 82, 1168-1176.	1.2	27
106	Stimulated decomposition of soil organic matter during the decomposition of added organic materials. Australian Journal of Agricultural Research, 1960, 11, 331.	1.5	27
107	THE SLOW REACTIONS BETWEEN SOIL AND ANIONS. Soil Science, 1975, 119, 301-310.	0.9	26
108	Effect of drying soil on the measurement of phosphate adsorption. Communications in Soil Science and Plant Analysis, 1980, 11, 347-353.	0.6	26

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109	CHARACTERIZING THE RATE OF REACTION OF SOME ARGENTINIAN SOILS WITH PHOSPHATE. Soil Science, 1987, 143, 105-112.	0.9	26
110	Nutrient potential and capacity. II. Relationship between potassium potential and buffering capacity and the supply of potassium to plants. Australian Journal of Agricultural Research, 1966, 17, 849.	1.5	25
111	A modified model for evaluating residual phosphate in soil. Australian Journal of Agricultural Research, 1978, 29, 1011.	1.5	25
112	Effects of phosphorus application and mycorrhizal inoculation on root characteristics of subterranean clover and ryegrass in relation to phosphorus uptake. Plant and Soil, 1987, 104, 294-298.	1.8	25
113	Comparing simple methods for measuring phosphate sorption by soils. Soil Research, 2001, 39, 1433.	0.6	25
114	Selenium fertilizers for pastures grazed by sheep. 1. Selenium concentrations in whole blood and plasma. Australian Journal of Agricultural Research, 1994, 45, 863.	1.5	25
115	The reaction between phosphate and dry soil. II. The effect of time, temperature and moisture status during incubation on the amount of plant available P. Journal of Soil Science, 1992, 43, 759-766.	1.2	24
116	RELATIONSHIP BETWEEN UPTAKE OF PHOSPHORUS BY PLANTS AND THE PHOSPHORUS POTENTIAL AND BUFFERING CAPACITY OF THE SOILâ€”AN ATTEMPT TO TEST SCHOFIELDÊ¼S HYPOTHESIS. Soil Science, 1967, 104, 99-106.	0.9	22
117	Factors affecting the longâ€teem effectiveness of phosphate Ãnd molybdate fertilizers. Communications in Soil Science and Plant Analysis, 1974, 5, 355-364.	0.6	22
118	Simplification of a model for ion adsorption on oxide surfaces. Journal of Soil Science, 1982, 33, 211-217.	1.2	22
119	The movement of septic tank effluent through sandy soils near Perth. I. Movement of nitrogen. Soil Research, 1984, 22, 283.	0.6	22
120	Testing a mechanistic model. XI. The effects of time and of level of application on isotopically exchangeable phosphate. Journal of Soil Science, 1991, 42, 277-288.	1.2	22
121	Selenium fertilizers for pastures grazed by sheep. 2. Wool and liveweight responses to selenium. Australian Journal of Agricultural Research, 1994, 45, 877.	1.5	22
122	Slowly available sulphur fertilizers in South-western Australia. 1. Elemental sulphur. Australian Journal of Experimental Agriculture, 1971, 11, 211.	1.0	21
123	ON THE DISPLACEMENT OF ADSORBED ANIONS FROM SOIL. Soil Science, 1973, 116, 423-431.	0.9	21
124	Slow-release selenium fertilizers to correct selenium deficiency in grazing sheep in Western Australia. Fertilizer Research, 1994, 38, 183-188.	0.5	21
125	Chemical form of inorganic phosphate in sheep faeces. Soil Research, 1975, 13, 63.	0.6	20
126	EFFECTS OF RAINFALL AND PARENT MATERIAL ON THE ABILITY OF SOILS TO ADSORB SULFATE. Soil Science, 1969, 108, 120-126.	0.9	19

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127	The effects of time of incubation on the relation between charge and pH of soil. European Journal of Soil Science, 1996, 47, 131-136.	1.8	19
128	Effect of porosity of goethite on the sorption of six heavy metal ions. European Journal of Soil Science, 2013, 64, 805-813.	1.8	19
129	Effect of <scp>pH</scp> and prior treatment with phosphate on the rate and amount of reaction of soils with phosphate. European Journal of Soil Science, 2021, 72, 243-253.	1.8	19
130	A comparison of growth rates and phosphorus distribution in a range of pasture species. Australian Journal of Agricultural Research, 1969, 20, 1023.	1.5	18
131	Effect of phosphate status and <scp>pH</scp> on sulphate sorption and desorption. European Journal of Soil Science, 2015, 66, 286-297.	1.8	18
132	Reactions of Inorganic Sulfur in Soils. Agronomy, 0, , 233-249.	0.2	18
133	Further investigations on the use of lime on established pastures. Australian Journal of Experimental Agriculture, 1965, 5, 442.	1.0	18
134	The residual value of the phoshporus and suphur components of superphosphate on some Western Australian soils. Australian Journal of Experimental Agriculture, 1966, 6, 9.	1.0	18
135	The specific adsorption of organic and inorganic phosphates by variableâ€charge oxides. European Journal of Soil Science, 2015, 66, 859-866.	1.8	17
136	P2O5, K2O, CaO, MgO, and basic cations: pervasive use of references to molecules that do not exist in soil. Plant and Soil, 2020, 452, 1-4.	1.8	17
137	Determination of elemental sulphur in soils. Journal of the Science of Food and Agriculture, 1968, 19, 454-456.	1.7	15
138	A comparison of methods for measuring the effect of level of application on the relative effectiveness of two fertilizers. Fertilizer Research, 1990, 26, 1-10.	0.5	15
139	The movement of septic tank effluent through sandy soils near Perth. II. Movement of phosphorus. Soil Research, 1984, 22, 293.	0.6	14
140	Testing a mechanistic model. VI. Molecular modelling of the effects of pH on phosphate and on zinc retention by soils. Journal of Soil Science, 1986, 37, 311-318.	1.2	14
141	Some responses to lime on established pastures. Australian Journal of Experimental Agriculture, 1964, 4, 30.	1.0	14
142	Initial and residual effectiveness of molybdate fertilizer in two areas of south western Australia. Australian Journal of Agricultural Research, 1985, 36, 579.	1.5	13
143	The effectiveness of several methods of applying superphosphate on yield response by wheat. Australian Journal of Experimental Agriculture, 1973, 13, 430.	1.0	13
144	ABILITY OF THREE SOIL EXTRACTANTS TO REFLECT THE FACTORS THAT DETERMINE THE AVAILABILITY OF SOIL PHOSPHATE. Soil Science, 1987, 144, 319-329.	0.9	12

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145	Differences in the cadmium content of some common Western Australian pasture plants grown in a soil amended with cadmium - describing the effects of level of cadmium supply. Fertilizer Research, 1994, 39, 113-122.	0.5	12
146	A simple equation to describe sorption of anions by goethite. European Journal of Soil Science, 1999, 50, 151-155.	1.8	12
147	Influence of pH on a secondary effect of phosphate reaction: the decrease in sorption of newly added phosphate. Soil Research, 2002, 40, 775.	0.6	12
148	The effect of level of application on the residual value of superphosphate on a sandy soil in south-western Australia. Fertilizer Research, 1991, 29, 163-172.	0.5	10
149	Phosphate-solubilising microorganisms mainly increase plant phosphate uptake by effects of pH on root physiology. Plant and Soil, 2022, 476, 397-402.	1.8	10
150	How understanding soil chemistry can lead to better phosphate fertilizer practice: a 68 year journey (so far). Plant and Soil, 2022, 476, 117-131.	1.8	10
151	Effects of ionic strength and nature of the cation on the desorption of fluoride from soil. Journal of Soil Science, 1982, 33, 219-231.	1.2	9
152	Presenting data and distinguishing response curves. Plant and Soil, 2021, 462, 1-5.	1.8	9
153	Predicting phosphorus requirements of young Pinus radiata using sequential Bray soil extraction. Plant and Soil, 2011, 339, 425-434.	1.8	8
154	Physiological and ecological studies on the oestrogenic isoflavones in subterranean clover (T.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 411.	1.5	7
155	A note on the description of the kinetics of phosphate sorption. European Journal of Soil Science, 2000, 51, 531-535.	1.8	7
156	Describing and explaining the reaction of soils with phosphate using existing observations. European Journal of Soil Science, 2021, 72, 234-242.	1.8	7
157	Nutrient potential and capacity. I. The concepts of nutrient potential and capacity and their application to soil potassium and phosphorus. Australian Journal of Agricultural Research, 1965, 16, 61.	1.5	6
158	Nutrient potential and capacity. III. Minimum value of potassium potential for availability to Trifolium subterraneum in soil and in solution culture. Australian Journal of Agricultural Research, 1967, 18, 55.	1.5	6
159	Note on incomplete extraction of elemental sulphur from wet soil by chloroform. Journal of the Science of Food and Agriculture, 1970, 21, 439-440.	1.7	6
160	An evaluation of the immiscible displacement method for studying the reaction between soil and phosphate. Fertilizer Research, 1982, 3, 423-433.	0.5	6
161	Effect of phosphate sorption on soil <scp>pH</scp>. European Journal of Soil Science, 2022, 73, .	1.8	5
162	Slowly available sulphur fertilizers in South-western Australia. 2. Pyrites and pyrrhotite. Australian Journal of Experimental Agriculture, 1971, 11, 217.	1.0	5

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163	Factors in the molybdenum and phosphorus status of soils on the Dorrigo Plateau of NSW. Australian Journal of Experimental Agriculture, 1971, 11, 670.	1.0	5
164	Effect of the Nitrogen and Sulphur Content of Organic Matter on the Production of Ammonium and Sulphate. Nature, 1958, 181, 1806-1807.	13.7	4
165	A reâ€examination of the sorption and desorption dynamics of citrate ions in soil: comments on â€˜adsorption and desorption dynamics of citric acid and ions in soil by E. Oburger, et al.â€™. European Journal of Soil Science, 2012, 63, 523-527.	1.8	4
166	Effect of <scp>pH</scp> and prior phosphate application on the reaction of fluoride with soils from northern India. European Journal of Soil Science, 2016, 67, 294-302.	1.8	4
167	The pervasive use of P₂O₅, K₂O, CaO, MgO and other molecules that do not exist in soil or fertiliser bags. New Phytologist, 2021, 232, 1901-1903.	3.5	4
168	Suitability of Sorption-Desorption Models to Simulate Partitioning and Movement of Ions in Soils. Ecological Studies, 1989, , 18-32.	0.4	4
169	Reply to: Navigating limitations and opportunities of soil phosphorus fractionation: a comment onâ€œThe soil phosphate fractionation fallacyâ€•by Barrow et al. 2020. Plant and Soil, 2020, 453, 595-596.	1.8	4
170	Renovation of Phalaris pastures with special reference to nitrogen and sulphur relationships. Australian Journal of Agricultural Research, 1957, 8, 617.	1.5	4
171	Testing a mechanistic model. XI. The effects of time and of level of application on isotopically exchangeable phosphate. Journal of Soil Science, 1991, 42, 533-533.	1.2	3
172	Incubating superphosphate in ?dry?soil can reduce its effectiveness. Fertilizer Research, 1995, 44, 205-215.	0.5	3
173	Pervasive use of P2O5, K2O, CaO, MgO, and basic cations, none of which exist in soil. Biology and Fertility of Soils, 2020, 56, 743-745.	2.3	3
174	Describing and explaining the adsorption behaviour of oxides. , 1987, , 16-29.		3
175	Chapter 3.7 The reaction of anions and cations with metal oxides as models for their reaction with soil. Studies in Surface Science and Catalysis, 1996, , 829-856.	1.5	2
176	The efficiency of utilisation of P in superphosphate. New Zealand Journal of Crop and Horticultural Science, 1980, 8, 211-214.	0.2	1
177	Barrow, N. J. 1983. A mechanistic model for describing the sorption and desorption of phosphate by soil.Journal of Soil Science, 34, 733-750.Reflections by N. J. Barrow. European Journal of Soil Science, 2015, 66, 2-3.	1.8	1
178	Sorption Phenomena. Encyclopedia of Earth Sciences Series, 2008, , 745-756.	0.1	1
179	The reaction of anions and cations with soil. , 1987, , 54-80.		1
180	Sulfur Transformations and Fluxes. Encyclopedia of Earth Sciences Series, 2008, , 757-764.	0.1	1

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181	Some comments on: Phosphate and glyphosate sorption in soils following long-term phosphate applications by Munira et al. (2018). Geoderma, 2021, 402, 115334.	2.3	0
182	Variable charge oxides as soil constituents and as models of soil constituents. , 1987, , 6-15.		0
183	Modelling the reaction of anions and cations with soil. , 1987, , 81-100.		0
184	The rate of reaction with oxides. , 1987, , 30-36.		0
185	Deriving equations to describe adsorption and rate of adsorption. , 1987, , 118-123.		0
186	Differences in the cadmium content of some common WA pasture plants supplied with a range of levels of cadmium. , 1993, , 787-790.		0