

N J Barrow

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180
papers

7,419
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51
h-index

77
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187
ext. papers

7,989
ext. citations

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L-index

#	Paper	IF	Citations
180	A mechanistic model for describing the sorption and desorption of phosphate by soil. <i>Journal of Soil Science</i> , 1983 , 34, 733-750		310
179	THE DESCRIPTION OF PHOSPHATE ADSORPTION CURVES. <i>Journal of Soil Science</i> , 1978 , 29, 447-462		234
178	Describing the adsorption of phosphate, citrate and selenite on a variable-charge mineral surface. <i>Soil Research</i> , 1980 , 18, 49	1.8	217
177	THE SLOW REACTIONS BETWEEN SOIL AND ANIONS. <i>Soil Science</i> , 1975 , 119, 167-177	0.9	189
176	Modelling the effects of pH on phosphate sorption by soils. <i>Journal of Soil Science</i> , 1984 , 35, 283-297		173
175	Reaction of Anions and Cations with Variable-Charge Soils. <i>Advances in Agronomy</i> , 1986 , 183-230	7.7	171
174	Effects of crystallinity of goethite: II. Rates of sorption and desorption of phosphate. <i>European Journal of Soil Science</i> , 1997 , 48, 101-114	3.4	159
173	Root hair length determines beneficial effect of a <i>Glomus</i> species on shoot growth of some pasture species. <i>New Phytologist</i> , 1995 , 131, 247-254	9.8	139
172	Describing the effects of electrolyte on adsorption of phosphate by a variable charge surface. <i>Soil Research</i> , 1980 , 18, 395	1.8	125
171	On the reversibility of phosphate sorption by soils. <i>Journal of Soil Science</i> , 1983 , 34, 751-758		117
170	Effects of vesicular-arbuscular mycorrhiza on the availability of iron phosphates to plants. <i>Plant and Soil</i> , 1987 , 99, 401-410	4.2	113
169	Reaction kinetics of the adsorption and desorption of nickel, zinc and cadmium by goethite. II Modelling the extent and rate of reaction. <i>Journal of Soil Science</i> , 1989 , 40, 437-450		111
168	The four laws of soil chemistry: the Leeper lecture 1998. <i>Soil Research</i> , 1999 , 37, 787	1.8	108
167	Increasing phosphorus supply can increase the infection of plant roots by vesicular-arbuscular mycorrhizal fungi. <i>Soil Biology and Biochemistry</i> , 1984 , 16, 419-420	7.5	105
166	The effects of pH on phosphate uptake from the soil. <i>Plant and Soil</i> , 2017 , 410, 401-410	4.2	104
165	Determination of total sulphur in soil and plant material. <i>Analytica Chimica Acta</i> , 1962 , 27, 158-164	6.6	103
164	The effects of pH and chloride concentration on mercury sorption. I. By goethite. <i>Journal of Soil Science</i> , 1992 , 43, 295-304		93

163	Describing the effect of time on sorption of phosphate by iron and aluminium hydroxides. <i>Journal of Soil Science</i> , 1985 , 36, 187-197		93
162	The description of sorption curves. <i>European Journal of Soil Science</i> , 2008 , 59, 900-910	3.4	91
161	Describing the adsorption of copper, zinc and lead on a variable charge mineral surface. <i>Soil Research</i> , 1981 , 19, 309	1.8	90
160	THE SLOW REACTIONS BETWEEN SOIL AND ANIONS. <i>Soil Science</i> , 1974 , 118, 380-386	0.9	82
159	EFFECT OF PREVIOUS ADDITIONS OF PHOSPHATE ON PHOSPHATE ADSORPTION BY SOILS. <i>Soil Science</i> , 1974 , 118, 82-89	0.9	82
158	Testing a mechanistic model. II. The effects of time and temperature on the reaction of zinc with a soil. <i>Journal of Soil Science</i> , 1986 , 37, 277-286		79
157	Reactions with Variable-Charge Soils 1987 ,		79
156	Possibility of using caustic residue from bauxite for improving the chemical and physical properties of sandy soils. <i>Australian Journal of Agricultural Research</i> , 1982 , 33, 275		76
155	COMPARISON OF THE ADSORPTION OF MOLYBDATE, SULFATE AND PHOSPHATE BY SOILS. <i>Soil Science</i> , 1970 , 109, 282-288	0.9	76
154	Observations and modelling of the reactions of 10 metals with goethite: adsorption and diffusion processes. <i>European Journal of Soil Science</i> , 2007 , 58, 1304-1315	3.4	74
153	Methods of measuring residual value of fertilizers. <i>Australian Journal of Experimental Agriculture</i> , 1972 , 12, 502		72
152	THE DESCRIPTION OF DESORPTION OF PHOSPHATE FROM SOIL. <i>Journal of Soil Science</i> , 1979 , 30, 259-270		71
151	STUDIES ON EXTRACTION AND ON AVAILABILITY TO PLANTS OF ADSORBED PLUS SOLUBLE SULFATE. <i>Soil Science</i> , 1967 , 104, 242-249	0.9	71
150	Testing a mechanistic model. III. The effects of pH on fluoride retention by a soil. <i>Journal of Soil Science</i> , 1986 , 37, 287-293		68
149	EFFECTS OF SOLUTION: SOIL RATIO AND VIGOUR OF SHAKING ON THE RATE OF PHOSPHATE ADSORPTION BY SOIL. <i>Journal of Soil Science</i> , 1979 , 30, 67-76		67
148	Phosphorus Uptake and Utilization by Tree Seedlings. <i>Australian Journal of Botany</i> , 1977 , 25, 571	1.2	67
147	THREE EFFECTS OF TEMPERATURE ON THE REACTIONS BETWEEN INORGANIC PHOSPHATE AND SOIL. <i>Journal of Soil Science</i> , 1979 , 30, 271-279		64
146	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. <i>Journal of Soil Science</i> , 1986 , 37, 303-310		61

145	A comparison of models for describing the adsorption of anions A on a variable charge mineral surface. <i>Journal of Colloid and Interface Science</i> , 1987 , 119, 236-250	9.3	61
144	Testing a mechanistic model. VII. The effects of pH and of electrolyte on the reaction of selenite and selenate with a soil. <i>Journal of Soil Science</i> , 1989 , 40, 17-28		60
143	Testing a mechanistic model. IV. Describing the effects of pH on zinc retention by soils. <i>Journal of Soil Science</i> , 1986 , 37, 295-302		60
142	Equations for describing sigmoid yield responses and their application to some phosphate responses by lupins and by subterranean clover. <i>Fertilizer Research</i> , 1990 , 22, 181-188		59
141	Specific activity of phosphorus in mycorrhizal and non-mycorrhizal plants in relation to the availability of phosphorus to plants. <i>Soil Biology and Biochemistry</i> , 1984 , 16, 299-304	7.5	59
140	Differences amongst a wide-ranging collection of soils in the rate of reaction with phosphate. <i>Soil Research</i> , 1980 , 18, 215	1.8	57
139	THE SLOW REACTIONS BETWEEN SOIL AND ANIONS. <i>Soil Science</i> , 1975 , 119, 190-197	0.9	57
138	A comparison of the mineralization of nitrogen and of sulphur from decomposing organic materials. <i>Australian Journal of Agricultural Research</i> , 1960 , 11, 960		57
137	Studies on mineralization of sulphur from soil organic matter. <i>Australian Journal of Agricultural Research</i> , 1961 , 12, 306		56
136	The effects of phosphate on zinc sorption by a soil. <i>Journal of Soil Science</i> , 1987 , 38, 453-459		55
135	The effects of pH and chloride concentration on mercury sorption. II. By a soil. <i>Journal of Soil Science</i> , 1992 , 43, 305-312		54
134	Effects of surface heterogeneity on ion adsorption by metal oxides and by soils. <i>Langmuir</i> , 1993 , 9, 2606-2611		52
133	The response to phosphate of two annual pasture species. I. Effect of the soil's ability to adsorb phosphate on comparative phosphate requirement. <i>Australian Journal of Agricultural Research</i> , 1975 , 26, 137		52
132	Effects of time and temperature on the sorption of cadmium, zinc, cobalt, and nickel by a soil. <i>Soil Research</i> , 1998 , 36, 941	1.8	52
131	Effect of phosphate status on the sorption and desorption properties of some soils of northern India. <i>Plant and Soil</i> , 2014 , 378, 383-395	4.2	51
130	A brief discussion on the effect of temperature on the reaction of inorganic ions with soil. <i>Journal of Soil Science</i> , 1992 , 43, 37-45		51
129	Plant and soil factors including mycorrhizal infection causing sigmoidal response of plants to applied phosphorus. <i>Plant and Soil</i> , 1983 , 73, 187-201	4.2	51
128	Comparing the effectiveness of fertilizers. <i>Fertilizer Research</i> , 1985 , 8, 85-90		50

127	An objective method for fitting models of ion adsorption on variable charge surfaces. <i>Soil Research</i> , 1980 , 18, 37	1.8	50
126	THE SLOW REACTIONS BETWEEN SOIL AND ANIONS. <i>Soil Science</i> , 1975 , 119, 311-320	0.9	49
125	Modelling the effect of adsorption of phosphate and other anions on the surface charge of variable charge oxides. <i>Journal of Soil Science</i> , 1984 , 35, 273-281		48
124	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. <i>Journal of Soil Science</i> , 1989 , 40, 29-37		46
123	Effects of crystallinity of goethite: I. Preparation and properties of goethites of differing crystallinity. <i>European Journal of Soil Science</i> , 1997 , 48, 87-99	3.4	45
122	Comparing the effects of pH on the sorption of metals by soil and by goethite, and on uptake by plants. <i>European Journal of Soil Science</i> , 1998 , 49, 683-692	3.4	45
121	EFFECTS OF IONIC STRENGTH AND NATURE OF THE CATION ON DESORPTION OF PHOSPHATE FROM SOIL. <i>Journal of Soil Science</i> , 1979 , 30, 53-65		45
120	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. <i>Geoderma</i> , 1976 , 16, 91-107	6.7	45
119	Soil phosphate chemistry and the P-sparing effect of previous phosphate applications. <i>Plant and Soil</i> , 2015 , 397, 401-409	4.2	44
118	A DIRECT TEST OF THE ABILITY OF VESICULAR-ARBUSCULAR MYCORRHIZA TO HELP PLANTS TAKE UP FIXED SOIL PHOSPHATE. <i>New Phytologist</i> , 1977 , 78, 269-276	9.8	44
117	The reaction between phosphate and dry soil. I. The effect of time, temperature and dryness. <i>Journal of Soil Science</i> , 1992 , 43, 749-758		43
116	Testing a mechanistic model. I. The effects of time and temperature on the reaction of fluoride and molybdate with a soil. <i>Journal of Soil Science</i> , 1986 , 37, 267-275		43
115	Effect of previous additions of superphosphate on sorption of phosphate. <i>Soil Research</i> , 1998 , 36, 359	1.8	43
114	The effect of water-logging on fixation of nitrogen by soil incubated with straw. <i>Plant and Soil</i> , 1962 , 16, 258-262	4.2	42
113	Modifications to the Freundlich equation to describe anion sorption over a large range and to describe competition between pairs of ions. <i>European Journal of Soil Science</i> , 2005 , 56, 601-606	3.4	40
112	Factors affecting the amount of phosphate extracted from soil by anion exchange resin. <i>Geoderma</i> , 1977 , 18, 309-323	6.7	40
111	THE SLOW REACTIONS BETWEEN SOIL AND ANIONS. <i>Soil Science</i> , 1977 , 124, 265-278	0.9	39
110	Partition of excreted nitrogen, sulphur, and phosphorus between the faeces and urine of sheep being fed pasture. <i>Australian Journal of Agricultural Research</i> , 1962 , 13, 461		39

109	ON THE DISPLACEMENT OF ADSORBED ANIONS FROM SOIL. <i>Soil Science</i> , 1974 , 117, 28-33	0.9	38
108	A PARTIAL MODEL FOR THE RATE OF ADSORPTION AND DESORPTION OF PHOSPHATE BY GOETHITE. <i>Journal of Soil Science</i> , 1981 , 32, 399-408		37
107	The accumulation of soil organic matter under pasture and its effect on soil properties. <i>Australian Journal of Experimental Agriculture</i> , 1969 , 9, 437		37
106	INFLUENCE OF SOLUTION CONCENTRATION OF CALCIUM ON THE ADSORPTION OF PHOSPHATE, SULFATE, AND MOLYBDATE BY SOILS. <i>Soil Science</i> , 1972 , 113, 175-180	0.9	37
105	Accessibility of subsoil potassium to wheat grown on duplex soils in the south-west of Western Australia. <i>Soil Research</i> , 2000 , 38, 745	1.8	35
104	A Study of a Method for Displacing Soil Solution by Centrifuging with an Immiscible Liquid. <i>Journal of Environmental Quality</i> , 1980 , 9, 315-319	3.4	33
103	THE SLOW REACTIONS BETWEEN SOIL AND ANIONS. <i>Soil Science</i> , 1977 , 124, 347-354	0.9	33
102	Differences Among Some North American Soils in the Rate of Reaction with Phosphate. <i>Journal of Environmental Quality</i> , 1980 , 9, 644-648	3.4	32
101	A discussion of the methods for measuring the rate of reaction between soil and phosphate. <i>Fertilizer Research</i> , 1983 , 4, 51-61		31
100	Mineralization of nitrogen and sulphur from sheep faeces.. <i>Australian Journal of Agricultural Research</i> , 1961 , 12, 644		31
99	STUDIES ON THE ADSORPTION OF SULFATE BY SOILS. <i>Soil Science</i> , 1967 , 104, 342-349	0.9	31
98	The reaction of plant nutrients and pollutants with soil. <i>Soil Research</i> , 1989 , 27, 475	1.8	29
97	Effect of level of application on the relative effectiveness of rock phosphate. <i>Fertilizer Research</i> , 1988 , 15, 181-192		29
96	The response to phosphate of two annual pasture species. II.* The specific rate of uptake of phosphate, its distribution and use for growth. <i>Australian Journal of Agricultural Research</i> , 1975 , 26, 145		28
95	A quick and simple method for determining the titration curve and estimating the lime requirement of soil. <i>Soil Research</i> , 1990 , 28, 685	1.8	27
94	The effect of time on the competition between anions for sorption. <i>Journal of Soil Science</i> , 1992 , 43, 421-428		26
93	Testing a mechanistic model. IX. Competition between anions for sorption by soil. <i>Journal of Soil Science</i> , 1989 , 40, 415-425		26
92	CHARACTERIZING THE RATE OF REACTION OF SOME ARGENTINIAN SOILS WITH PHOSPHATE. <i>Soil Science</i> , 1987 , 143, 105-112	0.9	26

91	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. <i>Geoderma</i> , 1976 , 16, 109-123	6.7	26
90	Relationship between a soils ability to adsorb phosphate and the residual effectiveness of superphosphate. <i>Soil Research</i> , 1973 , 11, 57	1.8	26
89	The effects of varying the nitrogen, sulphur, and phosphorus content of organic matter on its decomposition. <i>Australian Journal of Agricultural Research</i> , 1960 , 11, 317		26
88	The soil phosphate fractionation fallacy. <i>Plant and Soil</i> , 2021 , 459, 1-11	4.2	26
87	Sodium bicarbonate as an extractant for soil phosphate III. Effects of the buffering capacity of a soil for phosphate. <i>Geoderma</i> , 1976 , 16, 273-283	6.7	25
86	A review of certain aspects of sulphur as a soil constituent and plant nutrient. <i>Plant and Soil</i> , 1962 , 17, 295-308	4.2	25
85	Nutrient potential and capacity. II. Relationship between potassium potential and buffering capacity and the supply of potassium to plants. <i>Australian Journal of Agricultural Research</i> , 1966 , 17, 849		25
84	Towards a single-point method for measuring phosphate sorption by soils. <i>Soil Research</i> , 2000 , 38, 1099	1.8	24
83	Mechanisms of Reaction of Zinc with Soil and Soil Components 1993 , 15-31		24
82	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. <i>Journal of Soil Science</i> , 1992 , 43, 759-766		24
81	Testing a mechanistic model. X. The effect of pH and electrolyte concentration on borate sorption by a soil. <i>Journal of Soil Science</i> , 1989 , 40, 427-435		24
80	Effects of phosphorus application and mycorrhizal inoculation on root characteristics of subterranean clover and ryegrass in relation to phosphorus uptake. <i>Plant and Soil</i> , 1987 , 104, 294-298	4.2	24
79	THE SLOW REACTIONS BETWEEN SOIL AND ANIONS. <i>Soil Science</i> , 1975 , 119, 301-310	0.9	24
78	EFFECTS OF ADSORPTION OF SULFATE BY SOILS ON THE AMOUNT OF SULFATE PRESENT AND ITS AVAILABILITY TO PLANTS. <i>Soil Science</i> , 1969 , 108, 193-201	0.9	24
77	Rate of desorption of eight heavy metals from goethite and its implications for understanding the pathways for penetration. <i>European Journal of Soil Science</i> , 2012 , 63, 389-398	3.4	23
76	A mechanistic model for describing the sorption and desorption of phosphate by soil. <i>European Journal of Soil Science</i> , 2015 , 66, 9-18	3.4	23
75	Effect of drying soil on the measurement of phosphate adsorption. <i>Communications in Soil Science and Plant Analysis</i> , 1980 , 11, 347-353	1.5	23
74	Stimulated decomposition of soil organic matter during the decomposition of added organic materials. <i>Australian Journal of Agricultural Research</i> , 1960 , 11, 331		23

73	A modified model for evaluating residual phosphate in soil. <i>Australian Journal of Agricultural Research</i> , 1978 , 29, 1011		22
72	Measurement of the effects of pH on phosphate availability. <i>Plant and Soil</i> , 2020 , 454, 217-224	4.2	22
71	Selenium fertilizers for pastures grazed by sheep. 1. Selenium concentrations in whole blood and plasma. <i>Australian Journal of Agricultural Research</i> , 1994 , 45, 863		21
70	Testing a mechanistic model. XI. The effects of time and of level of application on isotopically exchangeable phosphate. <i>Journal of Soil Science</i> , 1991 , 42, 277-288		20
69	The movement of septic tank effluent through sandy soils near Perth. I. Movement of nitrogen. <i>Soil Research</i> , 1984 , 22, 283	1.8	20
68	Simplification of a model for ion adsorption on oxide surfaces. <i>Journal of Soil Science</i> , 1982 , 33, 211-217		20
67	Slowly available sulphur fertilizers in South-western Australia. 1. Elemental sulphur. <i>Australian Journal of Experimental Agriculture</i> , 1971 , 11, 211		20
66	Factors affecting the long-term effectiveness of phosphate and molybdate fertilizers. <i>Communications in Soil Science and Plant Analysis</i> , 1974 , 5, 355-364	1.5	20
65	Three Residual Benefits of Applying Phosphate Fertilizer. <i>Soil Science Society of America Journal</i> , 2018 , 82, 1168-1176	2.5	20
64	Chemical form of inorganic phosphate in sheep faeces. <i>Soil Research</i> , 1975 , 13, 63	1.8	19
63	RELATIONSHIP BETWEEN UPTAKE OF PHOSPHORUS BY PLANTS AND THE PHOSPHORUS POTENTIAL AND BUFFERING CAPACITY OF THE SOIL. AN ATTEMPT TO TEST SCHOFIELD'S HYPOTHESIS. <i>Soil Science</i> , 1967 , 104, 99-106	0.9	19
62	Comparing simple methods for measuring phosphate sorption by soils. <i>Soil Research</i> , 2001 , 39, 1433	1.8	18
61	ON THE DISPLACEMENT OF ADSORBED ANIONS FROM SOIL. <i>Soil Science</i> , 1973 , 116, 423-431	0.9	17
60	Effect of porosity of goethite on the sorption of six heavy metal ions. <i>European Journal of Soil Science</i> , 2013 , 64, 805-813	3.4	16
59	The effects of time of incubation on the relation between charge and pH of soil. <i>European Journal of Soil Science</i> , 1996 , 47, 131-136	3.4	16
58	Slow-release selenium fertilizers to correct selenium deficiency in grazing sheep in Western Australia. <i>Fertilizer Research</i> , 1994 , 38, 183-188		15
57	A comparison of growth rates and phosphorus distribution in a range of pasture species. <i>Australian Journal of Agricultural Research</i> , 1969 , 20, 1023		15
56	Determination of elemental sulphur in soils. <i>Journal of the Science of Food and Agriculture</i> , 1968 , 19, 454-456	4.5	15

55	Further investigations on the use of lime on established pastures. <i>Australian Journal of Experimental Agriculture</i> , 1965 , 5, 442		15
54	Mechanisms by which citric acid increases phosphate availability. <i>Plant and Soil</i> , 2018 , 423, 193-204	4.2	15
53	Effect of phosphate status and pH on sulphate sorption and desorption. <i>European Journal of Soil Science</i> , 2015 , 66, 286-297	3.4	14
52	Evaluation and Utilization of Residual Phosphorus in Soils. <i>Assa, Cssa and Sssa</i> , 2015 , 333-359	0.3	14
51	A comparison of methods for measuring the effect of level of application on the relative effectiveness of two fertilizers. <i>Fertilizer Research</i> , 1990 , 26, 1-10		14
50	Selenium fertilizers for pastures grazed by sheep. 2. Wool and liveweight responses to selenium. <i>Australian Journal of Agricultural Research</i> , 1994 , 45, 877		14
49	The residual value of the phosphorus and sulphur components of superphosphate on some Western Australian soils. <i>Australian Journal of Experimental Agriculture</i> , 1966 , 6, 9		14
48	Testing a mechanistic model. VI. Molecular modelling of the effects of pH on phosphate and on zinc retention by soils. <i>Journal of Soil Science</i> , 1986 , 37, 311-318		13
47	A simple equation to describe sorption of anions by goethite. <i>European Journal of Soil Science</i> , 1999 , 50, 151-155	3.4	12
46	Initial and residual effectiveness of molybdate fertilizer in two areas of south western Australia. <i>Australian Journal of Agricultural Research</i> , 1985 , 36, 579		12
45	EFFECTS OF RAINFALL AND PARENT MATERIAL ON THE ABILITY OF SOILS TO ADSORB SULFATE. <i>Soil Science</i> , 1969 , 108, 120-126	0.9	12
44	Influence of pH on a secondary effect of phosphate reaction: the decrease in sorption of newly added phosphate. <i>Soil Research</i> , 2002 , 40, 775	1.8	12
43	Comparing two theories about the nature of soil phosphate. <i>European Journal of Soil Science</i> , 2021 , 72, 679-685	3.4	12
42	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. <i>Fertilizer Research</i> , 1994 , 39, 113-122		11
41	ABILITY OF THREE SOIL EXTRACTANTS TO REFLECT THE FACTORS THAT DETERMINE THE AVAILABILITY OF SOIL PHOSPHATE. <i>Soil Science</i> , 1987 , 144, 319-329	0.9	11
40	The movement of septic tank effluent through sandy soils near Perth. II. Movement of phosphorus. <i>Soil Research</i> , 1984 , 22, 293	1.8	11
39	Effect of pH and prior treatment with phosphate on the rate and amount of reaction of soils with phosphate. <i>European Journal of Soil Science</i> , 2021 , 72, 243-253	3.4	10
38	The specific adsorption of organic and inorganic phosphates by variable-charge oxides. <i>European Journal of Soil Science</i> , 2015 , 66, 859-866	3.4	9

37	The effect of level of application on the residual value of superphosphate on a sandy soil in south-western Australia. <i>Fertilizer Research</i> , 1991 , 29, 163-172		9
36	Reactions of Inorganic Sulfur in Soils. <i>Agronomy</i> , 2015 , 233-249	0.8	8
35	Some responses to lime on established pastures. <i>Australian Journal of Experimental Agriculture</i> , 1964 , 4, 30		8
34	A note on the description of the kinetics of phosphate sorption. <i>European Journal of Soil Science</i> , 2000 , 51, 531-535	3.4	7
33	Physiological and ecological studies on the oestrogenic isoflavones in subterranean clover (<i>T. subterraneum</i> L.). IX.* Effects of sulphur supply. <i>Australian Journal of Agricultural Research</i> , 1972 , 23, 411		7
32	Predicting phosphorus requirements of young <i>Pinus radiata</i> using sequential Bray soil extraction. <i>Plant and Soil</i> , 2011 , 339, 425-434	4.2	6
31	An evaluation of the immiscible displacement method for studying the reaction between soil and phosphate. <i>Fertilizer Research</i> , 1982 , 3, 423-433		6
30	Effects of ionic strength and nature of the cation on the desorption of fluoride from soil. <i>Journal of Soil Science</i> , 1982 , 33, 219-231		6
29	Nutrient potential and capacity. I. The concepts of nutrient potential and capacity and their application to soil potassium and phosphorus. <i>Australian Journal of Agricultural Research</i> , 1965 , 16, 61		6
28	Nutrient potential and capacity. III. Minimum value of potassium potential for availability to <i>Trifolium subterraneum</i> in soil and in solution culture. <i>Australian Journal of Agricultural Research</i> , 1967 , 18, 55		6
27	The effectiveness of several methods of applying superphosphate on yield response by wheat. <i>Australian Journal of Experimental Agriculture</i> , 1973 , 13, 430		6
26	Note on incomplete extraction of elemental sulphur from wet soil by chloroform. <i>Journal of the Science of Food and Agriculture</i> , 1970 , 21, 439-440	4.3	5
25	Slowly available sulphur fertilizers in South-western Australia. 2. Pyrites and pyrrhotite. <i>Australian Journal of Experimental Agriculture</i> , 1971 , 11, 217		5
24	A re-examination of the sorption and desorption dynamics of citrate ions in soil: comments on Adsorption and desorption dynamics of citric acid and ions in soil by E. Oburger, et al. <i>European Journal of Soil Science</i> , 2012 , 63, 523-527	3.4	4
23	Effect of the Nitrogen and Sulphur Content of Organic Matter on the Production of Ammonium and Sulphate. <i>Nature</i> , 1958 , 181, 1806-1807	50.4	4
22	Suitability of Sorption-Desorption Models to Simulate Partitioning and Movement of Ions in Soils. <i>Ecological Studies</i> , 1989 , 18-32	1.1	4
21	Renovation of Phalaris pastures with special reference to nitrogen and sulphur relationships. <i>Australian Journal of Agricultural Research</i> , 1957 , 8, 617		4
20	Factors in the molybdenum and phosphorus status of soils on the Dorrigo Plateau of NSW. <i>Australian Journal of Experimental Agriculture</i> , 1971 , 11, 670		4

19	Incubating superphosphate in dry soil can reduce its effectiveness. <i>Fertilizer Research</i> , 1995 , 44, 205-215		3
18	Describing and explaining the adsorption behaviour of oxides 1987 , 16-29		3
17	Describing and explaining the reaction of soils with phosphate using existing observations. <i>European Journal of Soil Science</i> , 2021 , 72, 234-242	3.4	3
16	Phosphate-solubilising microorganisms mainly increase plant phosphate uptake by effects of pH on root physiology. <i>Plant and Soil</i> , 1	4.2	2
15	Reply to: Navigating limitations and opportunities of soil phosphorus fractionation: a comment on the soil phosphate fractionation fallacy by Barrow et al. 2020. <i>Plant and Soil</i> , 2020 , 453, 595-596	4.2	2
14	Effect of pH and prior phosphate application on the reaction of fluoride with soils from northern India. <i>European Journal of Soil Science</i> , 2016 , 67, 294-302	3.4	2
13	Barrow, N. J. 1983. A mechanistic model for describing the sorption and desorption of phosphate by soil. <i>Journal of Soil Science</i> , 34, 733-750. Reflections by N. J. Barrow. <i>European Journal of Soil Science</i> , 2015 , 66, 2-3	3.4	1
12	Chapter 3.7 The reaction of anions and cations with metal oxides as models for their reaction with soil. <i>Studies in Surface Science and Catalysis</i> , 1996 , 829-856	1.8	1
11	The reaction of anions and cations with soil 1987 , 54-80		1
10	How understanding soil chemistry can lead to better phosphate fertilizer practice: a 68 year journey (so far). <i>Plant and Soil</i> ,	4.2	1
9	The pervasive use of P ₂ O ₅ , K ₂ O, CaO, MgO and other molecules that do not exist in soil or fertiliser bags. <i>New Phytologist</i> , 2021 , 232, 1901-1903	9.8	0
8	Testing a mechanistic model. XI. The effects of time and of level of application on isotopically exchangeable phosphate. <i>Journal of Soil Science</i> , 1991 , 42, 533-533		
7	The efficiency of utilisation of P in superphosphate. <i>New Zealand Journal of Crop and Horticultural Science</i> , 1980 , 8, 211-214		
6	Differences in the cadmium content of some common WA pasture plants supplied with a range of levels of cadmium 1993 , 787-790		
5	Variable charge oxides as soil constituents and as models of soil constituents 1987 , 6-15		
4	Modelling the reaction of anions and cations with soil 1987 , 81-100		
3	The rate of reaction with oxides 1987 , 30-36		
2	Deriving equations to describe adsorption and rate of adsorption 1987 , 118-123		

- 1 Some comments on: Phosphate and glyphosate sorption in soils following long-term phosphate applications by Munira et al. (2018). *Geoderma*, **2021**, 402, 115334

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