

# Neal W Menzies

## List of Publications by Citations

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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.

238 papers	6,482 citations	42 h-index	70 g-index
242 ext. papers	7,598 ext. citations	4.7 avg, IF	6.04 L-index

#	Paper	IF	Citations
238	Competitive sorption reactions between phosphorus and organic matter in soil: a review. <i>Soil Research</i> , <b>2005</b> , 43, 189	1.8	363
237	Evaluation of extractants for estimation of the phytoavailable trace metals in soils. <i>Environmental Pollution</i> , <b>2007</b> , 145, 121-30	9.3	316
236	Fate of ZnO nanoparticles in soils and cowpea ( <i>Vigna unguiculata</i> ). <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 13822-30	10.3	220
235	Soil and the intensification of agriculture for global food security. <i>Environment International</i> , <b>2019</b> , 132, 105078	12.9	217
234	Identification of the primary lesion of toxic aluminum in plant roots. <i>Plant Physiology</i> , <b>2015</b> , 167, 1402-11	16.6	145
233	The Effect of Copper Toxicity on the Growth and Root Morphology of Rhodes Grass ( <i>Chloris gayana</i> Knuth.) in Resin Buffered Solution Culture. <i>Plant and Soil</i> , <b>2005</b> , 278, 341-349	4.2	143
232	Trace metal phytotoxicity in solution culture: a review. <i>Journal of Experimental Botany</i> , <b>2010</b> , 61, 945-54	7	131
231	In situ distribution and speciation of toxic copper, nickel, and zinc in hydrated roots of cowpea. <i>Plant Physiology</i> , <b>2011</b> , 156, 663-73	6.6	118
230	Toxic effects of Pb <sup>2+</sup> on growth of cowpea ( <i>Vigna unguiculata</i> ). <i>Environmental Pollution</i> , <b>2007</b> , 150, 280-7	7.3	112
229	Crop residues and fertilizer nitrogen influence residue decomposition and nitrous oxide emission from a Vertisol. <i>Biology and Fertility of Soils</i> , <b>2011</b> , 47, 15-23	6.1	108
228	Environmental fate of fungicides in surface waters of a horticultural-production catchment in southeastern Australia. <i>Archives of Environmental Contamination and Toxicology</i> , <b>2012</b> , 62, 380-90	3.2	103
227	Process, performance, and pollution potential: A review of septic tank - soil absorption systems. <i>Soil Research</i> , <b>2005</b> , 43, 781	1.8	102
226	Effect of Cu Toxicity on Growth of Cowpea ( <i>Vigna unguiculata</i> ). <i>Plant and Soil</i> , <b>2006</b> , 279, 287-296	4.2	97
225	Seawater neutralization of alkaline bauxite residue and implications for revegetation. <i>Journal of Environmental Quality</i> , <b>2004</b> , 33, 1877-84	3.4	94
224	Toxicities of soluble Al, Cu, and La include ruptures to rhizodermal and root cortical cells of cowpea. <i>Plant and Soil</i> , <b>2008</b> , 303, 217-227	4.2	93
223	Mechanical and structural properties of native and alkali-treated bacterial cellulose produced by <i>Gluconacetobacter xylinus</i> strain ATCC 53524. <i>Cellulose</i> , <b>2009</b> , 16, 1047-1055	5.5	81
222	Silver sulfide nanoparticles (Ag <sub>2</sub> S-NPs) are taken up by plants and are phytotoxic. <i>Nanotoxicology</i> , <b>2015</b> , 9, 1041-9	5.3	80

221	A Review of the Use of the Basic Cation Saturation Ratio and the Ideal Soil. <i>Soil Science Society of America Journal</i> , <b>2007</b> , 71, 259-265	2.5	80
220	Carbon sequestration and biodiversity restoration potential of semi-arid mulga lands of Australia interpreted from long-term grazing exclosures. <i>Agriculture, Ecosystems and Environment</i> , <b>2011</b> , 141, 108-118	5.7	75
219	Silver Nanoparticles Entering Soils via the Wastewater-Sludge-Soil Pathway Pose Low Risk to Plants but Elevated Cl Concentrations Increase Ag Bioavailability. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 8274-81	10.3	75
218	Revegetation strategies for bauxite refinery residue: a case study of Alcan Gove in Northern Territory, Australia. <i>Environmental Management</i> , <b>2006</b> , 37, 297-306	3.1	73
217	Laterally resolved speciation of arsenic in roots of wheat and rice using fluorescence-XANES imaging. <i>New Phytologist</i> , <b>2014</b> , 201, 1251-1262	9.8	69
216	Modelling N mineralization from green manure and farmyard manure from a laboratory incubation study. <i>Ecological Modelling</i> , <b>2011</b> , 222, 719-726	3	68
215	Characterizing the uptake, accumulation and toxicity of silver sulfide nanoparticles in plants. <i>Environmental Science: Nano</i> , <b>2017</b> , 4, 448-460	7.1	66
214	Evaluation of the influence of sample preparation and extraction technique on soil solution composition. <i>Soil Research</i> , <b>1988</b> , 26, 451	1.8	63
213	Global changes in soil stocks of carbon, nitrogen, phosphorus, and sulphur as influenced by long-term agricultural production. <i>Global Change Biology</i> , <b>2017</b> , 23, 2509-2519	11.4	61
212	Assessment of P availability in heavily fertilized soils using the diffusive gradient in thin films (DGT) technique. <i>Plant and Soil</i> , <b>2005</b> , 269, 1-9	4.2	60
211	Zeolite/rock phosphate—novel slow release phosphorus fertiliser for potted plant production. <i>Scientia Horticulturae</i> , <b>2002</b> , 94, 333-343	4.1	58
210	Nitrogen-rich microbial products provide new organo-mineral associations for the stabilization of soil organic matter. <i>Global Change Biology</i> , <b>2018</b> , 24, 1762-1770	11.4	58
209	Absorption of foliar-applied Zn fertilizers by trichomes in soybean and tomato. <i>Journal of Experimental Botany</i> , <b>2018</b> , 69, 2717-2729	7	54
208	Do Decomposing Organic Matter Residues Reduce Phosphorus Sorption in Highly Weathered Soils?. <i>Soil Science Society of America Journal</i> , <b>2005</b> , 69, 1405-1411	2.5	52
207	Prediction of Pb speciation in concentrated and dilute nutrient solutions. <i>Environmental Pollution</i> , <b>2008</b> , 153, 548-54	9.3	51
206	Localization and chemical speciation of Pb in roots of signal grass ( <i>Brachiaria decumbens</i> ) and Rhodes grass ( <i>Chloris gayana</i> ). <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 4595-9	10.3	50
205	Alleviation of Cu and Pb rhizotoxicities in cowpea ( <i>Vigna unguiculata</i> ) as related to ion activities at root-cell plasma membrane surface. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 4966-73	10.3	49
204	Absorption of foliar-applied Zn in sunflower ( <i>Helianthus annuus</i> ): importance of the cuticle, stomata and trichomes. <i>Annals of Botany</i> , <b>2019</b> , 123, 57-68	4.1	48

203	Simulating soybean/wheat cropping system: APSIM model parameterization and validation. <i>Agriculture, Ecosystems and Environment</i> , <b>2012</b> , 152, 68-78	5.7	48
202	Toxic effects of Cu(2+) on growth, nutrition, root morphology, and distribution of Cu in roots of Sabi grass. <i>Science of the Total Environment</i> , <b>2009</b> , 407, 4616-21	10.2	47
201	Inhibition of cell-wall autolysis and pectin degradation by cations. <i>Plant Physiology and Biochemistry</i> , <b>2004</b> , 42, 485-92	5.4	47
200	Toxic effects of Pb2+ on the growth and mineral nutrition of signal grass ( <i>Brachiaria decumbens</i> ) and Rhodes grass ( <i>Chloris gayana</i> ). <i>Plant and Soil</i> , <b>2007</b> , 300, 127-136	4.2	45
199	Kinetics and nature of aluminium rhizotoxic effects: a review. <i>Journal of Experimental Botany</i> , <b>2016</b> , 67, 4451-67	7	44
198	Soil Science teaching principles. <i>Geoderma</i> , <b>2011</b> , 167-168, 9-14	6.7	44
197	Metal-induced cell rupture in elongating roots is associated with metal ion binding strengths. <i>Plant and Soil</i> , <b>2009</b> , 322, 303-315	4.2	42
196	Analytical methods and quality assurance. <i>Communications in Soil Science and Plant Analysis</i> , <b>2000</b> , 31, 1935-1939	1.5	42
195	Soil organic matter is stabilized by organo-mineral associations through two key processes: The role of the carbon to nitrogen ratio. <i>Geoderma</i> , <b>2020</b> , 357, 113974	6.7	42
194	The effect of salinity on plant-available water. <i>Plant and Soil</i> , <b>2017</b> , 418, 477-491	4.2	40
193	Examination of the distribution of arsenic in hydrated and fresh cowpea roots using two- and three-dimensional techniques. <i>Plant Physiology</i> , <b>2012</b> , 159, 1149-58	6.6	39
192	An empirical model for prediction of wheat yield, using time-integrated Landsat NDVI. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2018</b> , 72, 99-108	7.3	38
191	Toxic effects of low concentrations of Cu on nodulation of cowpea ( <i>Vigna unguiculata</i> ). <i>Environmental Pollution</i> , <b>2007</b> , 145, 309-15	9.3	38
190	Toxic effects of Ni2+ on growth of cowpea ( <i>Vigna unguiculata</i> ). <i>Plant and Soil</i> , <b>2007</b> , 292, 283-289	4.2	37
189	Environmental Risks of Fungicides Used in Horticultural Production Systems <b>2010</b> ,		36
188	Synchrotron-based X-ray absorption near-edge spectroscopy imaging for laterally resolved speciation of selenium in fresh roots and leaves of wheat and rice. <i>Journal of Experimental Botany</i> , <b>2015</b> , 66, 4795-806	7	35
187	Quantitative determination of metal and metalloid spatial distribution in hydrated and fresh roots of cowpea using synchrotron-based X-ray fluorescence microscopy. <i>Science of the Total Environment</i> , <b>2013</b> , 463-464, 131-9	10.2	35
186	Nitrate retention under sugarcane in wet tropical Queensland deep soil profiles. <i>Soil Research</i> , <b>2003</b> , 41, 1145	1.8	35

185	Manganese distribution and speciation help to explain the effects of silicate and phosphate on manganese toxicity in four crop species. <i>New Phytologist</i> , <b>2018</b> , 217, 1146-1160	9.8	33
184	Effect of ionic strength and clay mineralogy on Na <sup>+</sup> exchange and the SAR:ESP relationship. <i>European Journal of Soil Science</i> , <b>2006</b> , 57, 626-633	3.4	33
183	Alkali hydroxide-induced gelation of pectin. <i>Food Hydrocolloids</i> , <b>2004</b> , 18, 375-378	10.6	33
182	Analytical methods and quality assurance. <i>Communications in Soil Science and Plant Analysis</i> , <b>2000</b> , 31, 1981-1991	1.5	32
181	Determination of total soluble aluminum in soil solution using pyrocatechol violet, lanthanum and iron to discriminate against micro-particulates and organic ligands. <i>Communications in Soil Science and Plant Analysis</i> , <b>1992</b> , 23, 2525-2545	1.5	32
180	Risk of Silver Transfer from Soil to the Food Chain Is Low after Long-Term (20 Years) Field Applications of Sewage Sludge. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 4901-4909	10.3	31
179	Green waste compost reduces nitrous oxide emissions from feedlot manure applied to soil. <i>Agriculture, Ecosystems and Environment</i> , <b>2010</b> , 136, 273-281	5.7	31
178	Toxicity of metals to roots of cowpea in relation to their binding strength. <i>Environmental Toxicology and Chemistry</i> , <b>2011</b> , 30, 1827-33	3.8	29
177	How Important is the Quality of Organic Amendments in Relation to Mineral N Availability in Soils?. <i>Agricultural Research</i> , <b>2013</b> , 2, 99-110	1.4	28
176	Effects of Ca, Cu, Al and La on pectin gel strength: implications for plant cell walls. <i>Carbohydrate Research</i> , <b>2010</b> , 345, 1174-9	2.9	28
175	Fresh water leaching of alkaline bauxite residue after sea water neutralization. <i>Journal of Environmental Quality</i> , <b>2009</b> , 38, 2050-7	3.4	27
174	Effect of pH on Na induced Ca deficiency. <i>Plant and Soil</i> , <b>2005</b> , 269, 119-129	4.2	27
173	Quantifying the economic impact of soil constraints on Australian agriculture: A case-study of wheat. <i>Land Degradation and Development</i> , <b>2018</b> , 29, 3866-3875	4.4	25
172	Soil Nitrogen and Nitrogen-Use Efficiency under Long-Term No-till Practice. <i>Soil Science Society of America Journal</i> , <b>2011</b> , 75, 2251-2261	2.5	25
171	Seedling responses of three Australian tree species to toxic concentrations of zinc in solution culture. <i>Plant and Soil</i> , <b>2001</b> , 235, 151-158	4.2	25
170	A web-accessible computer program for calculating electrical potentials and ion activities at cell-membrane surfaces. <i>Plant and Soil</i> , <b>2014</b> , 375, 35-46	4.2	24
169	Nitrous oxide emission from feedlot manure and green waste compost applied to Vertisols. <i>Biology and Fertility of Soils</i> , <b>2009</b> , 45, 809-819	6.1	24
168	Long-term flow rates and biomat zone hydrology in soil columns receiving septic tank effluent. <i>Water Research</i> , <b>2006</b> , 40, 2327-38	12.5	24

167	In-situ soil solution extraction with polyacrylonitrile hollow-fibers. <i>Communications in Soil Science and Plant Analysis</i> , <b>2000</b> , 31, 1875-1886	1.5	24
166	Ferric minerals and organic matter change arsenic speciation in copper mine tailings. <i>Environmental Pollution</i> , <b>2016</b> , 218, 835-843	9.3	23
165	The rhizotoxicity of metal cations is related to their strength of binding to hard ligands. <i>Environmental Toxicology and Chemistry</i> , <b>2014</b> , 33, 268-77	3.8	23
164	Soil Organic Carbon Stabilization: Mapping Carbon Speciation from Intact Microaggregates. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 12275-12284	10.3	23
163	Effects of methyl jasmonate on plant growth and leaf properties. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2018</b> , 181, 409-418	2.3	22
162	Effects of copper fungicide residues on the microbial function of vineyard soils. <i>Environmental Science and Pollution Research</i> , <b>2013</b> , 20, 1574-85	5.1	22
161	Separating multiple, short-term, deleterious effects of saline solutions on the growth of cowpea seedlings. <i>New Phytologist</i> , <b>2011</b> , 189, 1110-1121	9.8	22
160	Effect of fresh green waste and green waste compost on mineral nitrogen, nitrous oxide and carbon dioxide from a Vertisol. <i>Waste Management</i> , <b>2011</b> , 31, 1720-8	8.6	22
159	Toxicity of Cd to signal grass ( <i>Brachiaria decumbens</i> Stapf.) and Rhodes grass ( <i>Chloris gayana</i> Kunth.). <i>Plant and Soil</i> , <b>2010</b> , 330, 515-523	4.2	22
158	Influence of Soil Moisture Content on Soil Solution Composition. <i>Soil Science Society of America Journal</i> , <b>2008</b> , 72, 355-361	2.5	22
157	Simulated rainwater effects on anion exchange capacity and nitrate retention in Ferrosols. <i>Soil Research</i> , <b>2005</b> , 43, 33	1.8	22
156	Gypsum solubility in seawater, and its application to bauxite residue amelioration. <i>Soil Research</i> , <b>2004</b> , 42, 953	1.8	22
155	Effects of changes in leaf properties mediated by methyl jasmonate (MeJA) on foliar absorption of Zn, Mn and Fe. <i>Annals of Botany</i> , <b>2017</b> , 120, 405-415	4.1	21
154	Inter-regional variability in environmental availability of fungicide derived copper in vineyard soils: an Australian case study. <i>Journal of Agricultural and Food Chemistry</i> , <b>2010</b> , 58, 449-57	5.7	21
153	Influence of texture in bauxite residues on void ratio, water holding characteristics, and penetration resistance. <i>Geoderma</i> , <b>2010</b> , 158, 421-426	6.7	21
152	Calculated activity of Mn <sup>2+</sup> at the outer surface of the root cell plasma membrane governs Mn nutrition of cowpea seedlings. <i>Journal of Experimental Botany</i> , <b>2011</b> , 62, 3993-4001	7	21
151	Chemical Characterization of Soils of a Tropical Humid Forest Zone: A Methodology. <i>Soil Science Society of America Journal</i> , <b>1997</b> , 61, 1355-1363	2.5	21
150	Trends in key soil parameters under conservation agriculture-based sustainable intensification farming practices in the Eastern Ganga Alluvial Plains. <i>Soil Research</i> , <b>2019</b> , 57, 883	1.8	21

149	Metal ion effects on hydraulic conductivity of bacterial cellulose-pectin composites used as plant cell wall analogs. <i>Physiologia Plantarum</i> , <b>2010</b> , 138, 205-14	4.6	20
148	Influence of Hydraulic Loading and Effluent Flux on Surface Surcharging in Soil Absorption Systems. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2008</b> , 13, 681-692	1.8	20
147	Characteristics of membrane filters in relation to aluminium studies in soil solutions and natural waters. <i>Journal of Soil Science</i> , <b>1991</b> , 42, 585-597		20
146	Distribution and speciation of Mn in hydrated roots of cowpea at levels inhibiting root growth. <i>Physiologia Plantarum</i> , <b>2013</b> , 147, 453-64	4.6	19
145	The sequestration and turnover of soil organic carbon in subtropical leucaena-grass pastures. <i>Agriculture, Ecosystems and Environment</i> , <b>2017</b> , 248, 38-47	5.7	19
144	Model studies on the role of citrate, malate and pectin esterification on the enzymatic degradation of Al- and Ca-pectate gels: possible implications for Al-tolerance. <i>Plant Physiology and Biochemistry</i> , <b>2003</b> , 41, 1007-1010	5.4	19
143	Hydraulic properties of layered soils influence survival of Rhodes grass ( <i>Chloris gayana</i> Kunth.) during water stress. <i>Plant and Soil</i> , <b>2005</b> , 270, 287-297	4.2	19
142	Nitrification in a Vertisol subsoil and its relationship to the accumulation of ammonium-nitrogen at depth. <i>Soil Research</i> , <b>2002</b> , 40, 727	1.8	19
141	Reforestation of agricultural land in the tropics: The relative contribution of soil, living biomass and debris pools to carbon sequestration. <i>Science of the Total Environment</i> , <b>2019</b> , 649, 1502-1513	10.2	19
140	Engineered silver nanoparticles in terrestrial environments: a meta-analysis shows that the overall environmental risk is small. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 2531-2544	7.1	19
139	An electrostatic model predicting Cu and Ni toxicity to microbial processes in soils. <i>Soil Biology and Biochemistry</i> , <b>2013</b> , 57, 720-730	7.5	18
138	Aluminum Complexation with Malate within the Root Apoplast Differs between Aluminum Resistant and Sensitive Wheat Lines. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 1377	6.2	18
137	Hydrolysis and speciation of Al bound to pectin and plant cell wall material and its reaction with the dye chrome azurol S. <i>Journal of Agricultural and Food Chemistry</i> , <b>2010</b> , 58, 5553-60	5.7	18
136	Growth Response of Various Perennial Grasses to Increasing Salinity. <i>Journal of Plant Nutrition</i> , <b>2006</b> , 29, 1573-1584	2.3	18
135	Seedling responses of four Australian tree species to toxic concentrations of manganese in solution culture. <i>Plant and Soil</i> , <b>2004</b> , 258, 341-350	4.2	18
134	Plant growth limitation and nutrient loss following piled burning in slash and burn agriculture. <i>Nutrient Cycling in Agroecosystems</i> , <b>2003</b> , 65, 23-33	3.3	18
133	Evaluation of fly ash as a component of potting substrates. <i>Scientia Horticulturae</i> , <b>1996</b> , 67, 87-99	4.1	18
132	Magnesium in tropical and subtropical soils from north-eastern Australia. II. Response by glasshouse-grown maize to applied magnesium. <i>Soil Research</i> , <b>1997</b> , 35, 629	1.8	18



131	In situ speciation and distribution of toxic selenium in hydrated roots of cowpea. <i>Plant Physiology</i> , <b>2013</b> , 163, 407-18	6.6	17
130	The effect of ionic strength variation and anion competition on the development of nitrate accumulations in variable charge subsoils. <i>Soil Research</i> , <b>2005</b> , 43, 43	1.8	17
129	The measurement of actual acidity in acid sulfate soils and the determination of sulfidic acidity in suspension after peroxide oxidation. <i>Soil Research</i> , <b>2002</b> , 40, 1133	1.8	17
128	Soil nitrogen status and turnover in subtropical leucaena-grass pastures as quantified by $\delta^{15}\text{N}$ natural abundance. <i>Geoderma</i> , <b>2018</b> , 313, 126-134	6.7	16
127	Conversion of sub-tropical native vegetation to introduced conifer forest: Impacts on below-ground and above-ground carbon pools. <i>Forest Ecology and Management</i> , <b>2016</b> , 370, 65-75	3.9	16
126	Responses of Four Australian Tree Species to Toxic Concentrations of Copper in Solution Culture. <i>Journal of Plant Nutrition</i> , <b>2006</b> , 29, 1127-1141	2.3	16
125	A simple positive pressure apparatus for the ultrafiltration of soil solution. <i>Communications in Soil Science and Plant Analysis</i> , <b>1991</b> , 22, 137-145	1.5	16
124	Soil carbon and nitrogen dynamics in a Vertisol following 50 years of no-tillage, crop stubble retention and nitrogen fertilization. <i>Geoderma</i> , <b>2020</b> , 358, 113996	6.7	16
123	Sulfur dynamics in sub-tropical soils of Australia as influenced by long-term cultivation. <i>Plant and Soil</i> , <b>2016</b> , 402, 211-219	4.2	15
122	Changes in exchangeable cations and micronutrients in soils and grains of long-term, low input cropping systems of subtropical Australia. <i>Geoderma</i> , <b>2017</b> , 285, 293-300	6.7	15
121	Rhizotoxicity of aluminate and polycationic aluminium at high pH. <i>Plant and Soil</i> , <b>2005</b> , 266, 177-186	4.2	15
120	Phosphorus Storage on Effluent Irrigated Land. <i>Journal of Environmental Quality</i> , <b>1999</b> , 28, 750-754	3.4	15
119	Exchange and solution phase chemistry of acid, highly weathered soils .I. Characteristics of soils and the effects of lime and gypsum amendments. <i>Soil Research</i> , <b>1994</b> , 32, 251	1.8	15
118	Characterizing the uptake, accumulation and toxicity of silver sulfide nanoparticles in plants. <i>Environmental Science: Nano</i> , <b>2017</b> , 4, 448-460	7.1	15
117	Identifying the species of copper that are toxic to plant roots in alkaline nutrient solutions. <i>Plant and Soil</i> , <b>2012</b> , 361, 317-327	4.2	14
116	Improvements to peroxide oxidation methods for analysing sulfur in acid sulfate soils. <i>Soil Research</i> , <b>2002</b> , 40, 1115	1.8	14
115	Exchange and solution phase chemistry of acid, highly weathered soils .I. Investigation of mechanisms controlling Al release into solution. <i>Soil Research</i> , <b>1994</b> , 32, 269	1.8	14
114	Management of the major chemical soil constraints affecting yields in the grain growing region of Queensland and New South Wales, Australia a review. <i>Soil Research</i> , <b>2018</b> , 56, 765	1.8	14



113	Nitrate ammonification and its relationship to the accumulation of ammonium in a Vertisol subsoil. <i>Soil Research</i> , <b>2003</b> , 41, 687	1.8	13
112	Control of nutrient solutions for studies at high pH. <i>Plant and Soil</i> , <b>2005</b> , 266, 343-354	4.2	13
111	Effects of calcium and aluminum in the soil solution of acid, surface soils on root elongation of mungbean. <i>Soil Research</i> , <b>1994</b> , 32, 721	1.8	13
110	The Effects of Copper Hydroxide, Captan and Trifloxystrobin Fungicides on Soil Phosphomonoesterase and Urease Activity. <i>Water, Air, and Soil Pollution</i> , <b>2013</b> , 224, 1	2.6	12
109	Recovery of cowpea seedling roots from exposure to toxic concentrations of trace metals. <i>Plant and Soil</i> , <b>2011</b> , 341, 423-436	4.2	12
108	Rhizotoxic effects of silver in cowpea seedlings. <i>Environmental Toxicology and Chemistry</i> , <b>2010</b> , 29, 2072-2088	3.8	12
107	Effect of Mn deficiency and legume inoculation on rhizosphere pH in highly alkaline soils. <i>Plant and Soil</i> , <b>2004</b> , 262, 13-21	4.2	12
106	Changes in soil chemistry after the application of gypsum and sulfur and irrigation with coal seam water. <i>Geoderma</i> , <b>2019</b> , 337, 782-791	6.7	12
105	Absorption of foliar applied Zn is decreased in Zn deficient sunflower ( <i>Helianthus annuus</i> ) due to changes in leaf properties. <i>Plant and Soil</i> , <b>2018</b> , 433, 309-322	4.2	12
104	Selection for rapid germination and emergence may improve wheat seedling establishment in the presence of soil surface crusts. <i>Plant and Soil</i> , <b>2018</b> , 426, 227-239	4.2	11
103	Calcium affects the competitiveness of acid-sensitive and acid-tolerant strains of <i>Bradyrhizobium japonicum</i> in nodulating and fixing nitrogen with two soybean cultivars in acid soil. <i>Soil Biology and Biochemistry</i> , <b>2012</b> , 46, 115-122	7.5	11
102	Laboratory prescreening of <i>Bradyrhizobium japonicum</i> for low pH, Al and Mn tolerance can be used to predict their survival in acid soils. <i>Soil Biology and Biochemistry</i> , <b>2012</b> , 48, 135-141	7.5	11
101	Growth and yield response of glasshouse- and field-grown sweetpotato to nitrogen supply. <i>Nutrient Cycling in Agroecosystems</i> , <b>2017</b> , 108, 309-321	3.3	11
100	Vegetation Dieback on Clay-Capped Pyritic Mine Waste. <i>Journal of Environmental Quality</i> , <b>2000</b> , 29, 437-442	4.4	11
99	Time-resolved X-ray fluorescence analysis of element distribution and concentration in living plants: An example using manganese toxicity in cowpea leaves. <i>Environmental and Experimental Botany</i> , <b>2018</b> , 156, 151-160	5.9	11
98	Examination into the Accuracy of Exchangeable Cation Measurement in Saline Soils. <i>Communications in Soil Science and Plant Analysis</i> , <b>2006</b> , 37, 1819-1832	1.5	10
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94	The role of soil in defining planetary boundaries and the safe operating space for humanity. <i>Environment International</i> , <b>2021</b> , 146, 106245	12.9	10
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92	Mineral nutrition and specific leaf area of plants under contrasting long-term fire frequencies: a case study in a mesic savanna in Australia. <i>Trees - Structure and Function</i> , <b>2016</b> , 30, 329-335	2.6	9
91	Chemical characterisation of deep profile Ferrosols under sugarcane in wet tropical northern Queensland. <i>Soil Research</i> , <b>2004</b> , 42, 69	1.8	9
90	Effects of incubation time and filtration technique on soil solution composition with particular reference to inorganic and organically complexed Al. <i>Soil Research</i> , <b>1991</b> , 29, 223	1.8	9
89	Application of sewage sludge containing environmentally-relevant silver sulfide nanoparticles increases emissions of nitrous oxide in saline soils. <i>Environmental Pollution</i> , <b>2020</b> , 265, 114807	9.3	8
88	Comparative hydrolysis and sorption of Al and La onto plant cell wall material and pectic materials. <i>Plant and Soil</i> , <b>2010</b> , 332, 319-330	4.2	8
87	Growth of Eucalyptus species in a Brown Kandosol, and changes in soil phosphorus fractionation following fertilisation. <i>Soil Research</i> , <b>2007</b> , 45, 190	1.8	8
86	Mg induced Ca deficiency under alkaline conditions. <i>Plant and Soil</i> , <b>2005</b> , 269, 245-250	4.2	8
85	Piggery pond sludge as a nitrogen source for crops. 1. Mineral N supply estimated from laboratory incubations and field application of stockpiled and wet sludge. <i>Australian Journal of Agricultural Research</i> , <b>2005</b> , 56, 245		8
84	Magnesium in tropical and subtropical soils from north-eastern Australia. I. Magnesium fractions and interrelationships with soil properties. <i>Soil Research</i> , <b>1997</b> , 35, 615	1.8	8
83	UAV-Thermal imaging and agglomerative hierarchical clustering techniques to evaluate and rank physiological performance of wheat genotypes on sodic soil. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2021</b> , 173, 221-237	11.8	8
82	Effect of long-term no-tillage and nitrogen fertilization on phosphorus distribution in bulk soil and aggregates of a Vertisol. <i>Soil and Tillage Research</i> , <b>2021</b> , 205, 104760	6.5	8
81	Intensified sweetpotato production in Papua New Guinea drives plant nutrient decline over the last decade. <i>Agriculture, Ecosystems and Environment</i> , <b>2018</b> , 254, 10-19	5.7	8
80	Soil organic carbon and nitrogen sequestration and turnover in aggregates under subtropical leucaena grass pastures. <i>Soil Research</i> , <b>2018</b> , 56, 632	1.8	8
79	Comparison between methods using copper, lanthanum, and colorimetry for the determination of the cation exchange capacity of plant cell walls. <i>Journal of Agricultural and Food Chemistry</i> , <b>2010</b> , 58, 4554-9	5.7	7
78	Using quantity/intensity relationships to assess the potential for ammonium leaching in a Vertosol. <i>Soil Research</i> , <b>2003</b> , 41, 207	1.8	7

77	Mining disturbance alters phosphorus fractions in northern Australian soils. <i>Soil Research</i> , <b>2000</b> , 38, 411	1.8	7
76	Ensuring planetary survival: the centrality of organic carbon in balancing the multifunctional nature of soils. <i>Critical Reviews in Environmental Science and Technology</i> , 1-17	11.1	7
75	Minimizing experimental artefacts in synchrotron-based X-ray analyses of Fe speciation in tissues of rice plants. <i>Journal of Synchrotron Radiation</i> , <b>2019</b> , 26, 1272-1279	2.4	7
74	Subsoil nitrogen mineralisation and its potential to contribute to NH <sub>4</sub> accumulation in a Vertosol. <i>Soil Research</i> , <b>2003</b> , 41, 119	1.8	7
73	Impact of land use change and soil type on total phosphorus and its fractions in soil aggregates. <i>Land Degradation and Development</i> , <b>2020</b> , 31, 828-841	4.4	7
72	Soil organic carbon is significantly associated with the pore geometry, microbial diversity and enzyme activity of the macro-aggregates under different land uses. <i>Science of the Total Environment</i> , <b>2021</b> , 778, 146286	10.2	7
71	Influence of soil characteristics on teak ( <i>Tectona grandis</i> L. f.) establishment and early growth in tropical Northern Australia. <i>Journal of Forest Research</i> , <b>2017</b> , 22, 153-159	1.4	6
70	Defining appropriate methods for studying toxicities of trace metals in nutrient solutions. <i>Ecotoxicology and Environmental Safety</i> , <b>2018</b> , 147, 872-880	7	6
69	Growth and physiological responses of teak ( <i>Tectona grandis</i> Linn. f.) clones to Ca, H and Al stresses in solution and acid soils. <i>New Forests</i> , <b>2017</b> , 48, 137-152	2.6	6
68	Tolerance of two perennial grasses to toxic levels of Ni <sup>2+</sup> . <i>Environmental Chemistry</i> , <b>2008</b> , 5, 426	3.2	6
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61	Long-term changes in land use influence phosphorus concentrations, speciation, and cycling within subtropical soils. <i>Geoderma</i> , <b>2021</b> , 393, 115010	6.7	5
60	Seawater neutralization and gypsum amelioration of bauxite refining residue to produce a plant growth medium. <i>Science of the Total Environment</i> , <b>2021</b> , 763, 143046	10.2	5

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58	Effects of long-term cultivation on phosphorus (P) in five low-input, subtropical Australian soils. <i>Agriculture, Ecosystems and Environment</i> , <b>2018</b> , 252, 191-199	5.7	5
57	Free light fraction carbon and nitrogen, a physically uncomplexed soil organic matter distribution within subtropical grass and leucaena grass pastures. <i>Soil Research</i> , <b>2018</b> , 56, 820	1.8	5
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55	Release of silver from nanoparticle-based filter paper and the impacts to mouse gut microbiota. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 1554-1565	7.1	4
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53	Horticultural Use of Copper-Based Fungicides Has Not Increased Copper Concentrations in Sediments in the Mid- and Upper Yarra Valley. <i>Water, Air, and Soil Pollution</i> , <b>2013</b> , 224, 1	2.6	4
52	Evaluation of pyritic mine tailings as a plant growth substrate. <i>Journal of Environmental Management</i> , <b>2017</b> , 201, 207-214	7.9	4
51	Interaction between Cu toxicity and P deficiency in soil-grown cowpea ( <i>Vigna unguiculata</i> (L.) Walp.). <i>Plant and Soil</i> , <b>2011</b> , 342, 359-367	4.2	4
50	Measurement and Interpretation of Salinity Tolerance in Four Perennial Grasses. <i>Journal of Plant Nutrition</i> , <b>2009</b> , 32, 30-43	2.3	4
49	Tolerance of seven perennial grasses to high nickel in sand culture. <i>Environmental Chemistry</i> , <b>2010</b> , 7, 279	3.2	4
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47	Aluminium effects on mechanical properties of cell wall analogues. <i>Physiologia Plantarum</i> , <b>2016</b> , 158, 382-388	4.6	4
46	Greater emergence force and hypocotyl cross sectional area may improve wheat seedling emergence in sodic conditions. <i>Plant Science</i> , <b>2018</b> , 277, 188-195	5.3	4
45	Land use affects temperature sensitivity of soil organic carbon decomposition in macroaggregates but not in bulk soils in subtropical Oxisols of Queensland, Australia. <i>Soil and Tillage Research</i> , <b>2020</b> , 198, 104566	6.5	3
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43	Antioxidant capacity and rate of decomposition of organic amendments in a Vertisol. <i>European Journal of Soil Science</i> , <b>2013</b> , 64, 104-109	3.4	3
42	Symbiotic effectiveness of <i>Bradyrhizobium japonicum</i> in acid soils can be predicted from their sensitivity to acid soil stress factors in acidic agar media. <i>Soil Biology and Biochemistry</i> , <b>2011</b> ,	7.5	3

41	Effluent flux prediction in variably saturated soil zones within a septic tankBoil absorption trench. <i>Soil Research</i> , <b>2006</b> , 44, 677	1.8	3
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34	The impact, identification and management of dispersive soils in rainfed cropping systems. <i>European Journal of Soil Science</i> , <b>2021</b> , 72, 1655-1674	3.4	3
33	50 years of continuous no-tillage, stubble retention and nitrogen fertilization enhanced macro-aggregate formation and stabilisation in a Vertisol. <i>Soil and Tillage Research</i> , <b>2021</b> , 214, 105163	6.5	3
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30	Evaluation of CuEthylenediamine Metal Ion Buffers as Calibrants for Ion-Selective Electrode Measurement of Copper in Fresh Water Systems. <i>Electroanalysis</i> , <b>2005</b> , 17, 912-914	3	2
29	Effect of 50 Years of No-Tillage, Stubble Retention, and Nitrogen Fertilization on Soil Respiration, Easily Extractable Glomalin, and Nitrogen Mineralization. <i>Agronomy</i> , <b>2022</b> , 12, 151	3.6	2
28	Germination of leucaena and Rhodes grass seeds in saline and alkaline conditions. <i>Seed Science and Technology</i> , <b>2016</b> , 44, 461-474	0.6	2
27	Increment-averaged kriging: a comparison with depth-harmonized mapping of soil exchangeable sodium percentage in a cropping region of eastern Australia. <i>Geoderma</i> , <b>2020</b> , 363, 114151	6.7	2
26	Review of crop-specific tolerance limits to acidity, salinity, and sodicity for seventeen cereal, pulse, and oilseed crops common to rainfed subtropical cropping systems. <i>Land Degradation and Development</i> , <b>2021</b> , 32, 2459-2480	4.4	2
25	Overhead-irrigation with saline and alkaline water: Deleterious effects on foliage of Rhodes grass and leucaena. <i>Agricultural Water Management</i> , <b>2016</b> , 169, 173-182	5.9	2
24	UAV-thermal imaging: A technological breakthrough for monitoring and quantifying crop abiotic stress to help sustain productivity on sodic soils [A case review on wheat. <i>Remote Sensing Applications: Society and Environment</i> , <b>2021</b> , 23, 100583	2.8	2

23	Improving estimation of in-season crop water use and health of wheat genotypes on sodic soils using spatial interpolation techniques and multi-component metrics. <i>Agricultural Water Management</i> , <b>2021</b> , 255, 107007	5.9	2
22	Root zone temperature alters storage root formation and growth of sweetpotato. <i>Journal of Agronomy and Crop Science</i> , <b>2018</b> , 204, 313-324	3.9	1
21	Sunflowers drive acid dissolution of rock phosphate when banded with ammonium zeolite. <i>Acta Horticulturae</i> , <b>2015</b> , 21-28	0.3	1
20	Irrigation with industrial effluent leads to mortality of coppice growth in Eucalyptus. <i>Australian Forestry</i> , <b>2011</b> , 74, 170-179	2.1	1
19	Tolerance of perennial grasses to high copper in sand culture. <i>Environmental Chemistry</i> , <b>2009</b> , 6, 253	3.2	1
18	Developing and Testing Remote-Sensing Indices to Represent within-Field Variation of Wheat Yields: Assessment of the Variation Explained by Simple Models. <i>Agronomy</i> , <b>2022</b> , 12, 384	3.6	1
17	Bioavailability of Cu, Zn, and Mn in Contaminated Soils and Speciation in Soil Solution <b>2001</b> ,		1
16	Integrated High-Throughput Phenotyping with High Resolution Multispectral, Hyperspectral and 3D Point Cloud Techniques for Screening Wheat Genotypes on Sodic Soils. <i>Proceedings (mdpi)</i> , <b>2019</b> , 36, 206	0.3	1
15	A rapid and simplified methodology for the extraction and quantification of allicin in garlic. <i>Journal of Food Composition and Analysis</i> , <b>2021</b> , 104, 104114	4.1	1
14	Detection of calcium, magnesium, and chlorophyll variations of wheat genotypes on sodic soils using hyperspectral red edge parameters. <i>Environmental Technology and Innovation</i> , <b>2022</b> , 27, 102469	7	1
13	Understanding the delayed expression of Al resistance in signal grass ( <i>Urochloa decumbens</i> ). <i>Annals of Botany</i> , <b>2020</b> , 125, 841-850	4.1	0
12	Evaluation of drought tolerance of wheat genotypes in rain-fed sodic soil environments using high-resolution UAV remote sensing techniques. <i>Biosystems Engineering</i> , <b>2022</b> , 217, 68-82	4.8	0
11	TO EVALUATE THE EFFECT OF GREEN WASTE COMPOST ON NITROUS OXIDE EMISSIONS FROM HORTICULTURE. <i>Acta Horticulturae</i> , <b>2014</b> , 83-91	0.3	
10	Amelioration of Cadmium Contaminated Soils Using Cation Exchangers. <i>Journal of Plant Nutrition</i> , <b>2009</b> , 32, 1321-1335	2.3	
9	Employing <i>Chlorella protothecoides</i> for metal bioavailability studies under acidic conditions. <i>Journal of Plankton Research</i> , <b>2008</b> , 31, 325-336	2.2	
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7	Use of dialysis to limit interferences in the Turbidimetric determination of sulfate. <i>Communications in Soil Science and Plant Analysis</i> , <b>1996</b> , 27, 2159-2169	1.5	
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4	The Relationship Between Bulb Yield and Allicin Concentration in Garlic Varieties. <i>Proceedings (mdpi)</i> , <b>2019</b> , 36, 28	0.3
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