Neal W Menzies

List of Publications by Year in Descending Order

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	Effect of 50 Years of No-Tillage, Stubble Retention, and Nitrogen Fertilization on Soil Respiration, Easily Extractable Glomalin, and Nitrogen Mineralization. *Agronomy*, **2022**, 12, 151	3.6	2
237	Developing and Testing Remote-Sensing Indices to Represent within-Field Variation of Wheat Yields: Assessment of the Variation Explained by Simple Models. *Agronomy*, **2022**, 12, 384	3.6	1
236	How we used APSIM to simulate conservation agriculture practices in the rice-wheat system of the Eastern Gangetic Plains. *Field Crops Research*, **2022**, 275, 108344	5.5	3
235	Evaluation of drought tolerance of wheat genotypes in rain-fed sodic soil environments using high-resolution UAV remote sensing techniques. *Biosystems Engineering*, **2022**, 217, 68-82	4.8	0
234	Detection of calcium, magnesium, and chlorophyll variations of wheat genotypes on sodic soils using hyperspectral red edge parameters. *Environmental Technology and Innovation*, **2022**, 27, 102469	7	1
233	Avoiding the point of no return: Maintaining infiltration to remediate saline-sodic Vertosols in high rainfall environments. *Agricultural Water Management*, **2022**, 270, 107725	5.9	
232	Review of crop-specific tolerance limits to acidity, salinity, and sodicity for seventeen cereal, pulse, and oilseed crops common to rainfed subtropical cropping systems. *Land Degradation and Development*, **2021**, 32, 2459-2480	4.4	2
231	UAV-Thermal imaging and agglomerative hierarchical clustering techniques to evaluate and rank physiological performance of wheat genotypes on sodic soil. *ISPRS Journal of Photogrammetry and Remote Sensing*, **2021**, 173, 221-237	11.8	8
230	Conservation agriculture enhances the rice-wheat system of the Eastern Gangetic Plains in some environments, but not in others. *Field Crops Research*, **2021**, 265, 108109	5.5	3
229	Long-term changes in land use influence phosphorus concentrations, speciation, and cycling within subtropical soils. *Geoderma*, **2021**, 393, 115010	6.7	5
228	Effect of long-term no-tillage and nitrogen fertilization on phosphorus distribution in bulk soil and aggregates of a Vertisol. *Soil and Tillage Research*, **2021**, 205, 104760	6.5	8
227	The role of soil in defining planetary boundaries and the safe operating space for humanity. *Environment International*, **2021**, 146, 106245	12.9	10
226	The impact, identification and management of dispersive soils in rainfed cropping systems. *European Journal of Soil Science*, **2021**, 72, 1655-1674	3.4	3
225	Seawater neutralization and gypsum amelioration of bauxite refining residue to produce a plant growth medium. *Science of the Total Environment*, **2021**, 763, 143046	10.2	5
224	Puddled and zero-till unpuddled transplanted rice are each best suited to different environments – An example from two diverse locations in the Eastern Gangetic Plains of Bangladesh. *Field Crops Research*, **2021**, 262, 108031	5.5	5
223	Soil organic carbon is significantly associated with the pore geometry, microbial diversity and enzyme activity of the macro-aggregates under different land uses. *Science of the Total Environment*, **2021**, 778, 146286	10.2	7
222	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. *Remote Sensing Applications: Society and Environment*, **2021**, 23, 100583	2.8	2

221	Improving Biomass and Grain Yield Prediction of Wheat Genotypes on Sodic Soil Using Integrated High-Resolution Multispectral, Hyperspectral, 3D Point Cloud, and Machine Learning Techniques. *Remote Sensing*, **2021**, 13, 3482	5	6
220	Evaluation of water status of wheat genotypes to aid prediction of yield on sodic soils using UAV-thermal imaging and machine learning. *Agricultural and Forest Meteorology*, **2021**, 307, 108477	5.8	10
219	Improving estimation of in-season crop water use and health of wheat genotypes on sodic soils using spatial interpolation techniques and multi-component metrics. *Agricultural Water Management*, **2021**, 255, 107007	5.9	2
218	50 years of continuous no-tillage, stubble retention and nitrogen fertilization enhanced macro-aggregate formation and stabilisation in a Vertisol. *Soil and Tillage Research*, **2021**, 214, 105163	6.5	3
217	A rapid and simplified methodology for the extraction and quantification of allicin in garlic. *Journal of Food Composition and Analysis*, **2021**, 104, 104114	4.1	1
216	Application of sewage sludge containing environmentally-relevant silver sulfide nanoparticles increases emissions of nitrous oxide in saline soils. *Environmental Pollution*, **2020**, 265, 114807	9.3	8
215	Release of silver from nanoparticle-based filter paper and the impacts to mouse gut microbiota. *Environmental Science: Nano*, **2020**, 7, 1554-1565	7.1	4
214	Land use affects temperature sensitivity of soil organic carbon decomposition in macroaggregates but not in bulk soils in subtropical Oxisols of Queensland, Australia. *Soil and Tillage Research*, **2020**, 198, 104566	6.5	3
213	No-Till Systems to Sequester Soil Carbon: Potential and Reality **2020**, 301-317		3
212	Examining a synchrotron-based approach for in situ analyses of Al speciation in plant roots. *Journal of Synchrotron Radiation*, **2020**, 27, 100-109	2.4	
211	Increment-averaged kriging for 3-D modelling and mapping soil properties: Combining machine learning and geostatistical methods. *Geoderma*, **2020**, 361, 114094	6.7	5
210	Understanding the delayed expression of Al resistance in signal grass (Urochloa decumbens). *Annals of Botany*, **2020**, 125, 841-850	4.1	0
209	Impact of land use change and soil type on total phosphorus and its fractions in soil aggregates. *Land Degradation and Development*, **2020**, 31, 828-841	4.4	7
208	Soil carbon and nitrogen pools, their depth distribution and stocks following plantation establishment in south east Queensland, Australia. *Forest Ecology and Management*, **2020**, 457, 117708	3.9	3
207	Increment-averaged kriging: a comparison with depth-harmonized mapping of soil exchangeable sodium percentage in a cropping region of eastern Australia. *Geoderma*, **2020**, 363, 114151	6.7	2
206	Silver Sulfide Nanoparticles Reduce Nitrous Oxide Emissions by Inhibiting Denitrification in the Earthworm Gut. *Environmental Science & Technology*, **2020**, 54, 11146-11154	10.3	6
205	Soil organic matter is stabilized by organo-mineral associations through two key processes: The role of the carbon to nitrogen ratio. *Geoderma*, **2020**, 357, 113974	6.7	42
204	Soil carbon and nitrogen dynamics in a Vertisol following 50 years of no-tillage, crop stubble retention and nitrogen fertilization. *Geoderma*, **2020**, 358, 113996	6.7	16

203	Chemical and physical influence of sodic soils on the coleoptile length and root growth angle of wheat genotypes. *Annals of Botany*, **2019**, 124, 1043-1052	4.1	5
202	Absorption of foliar-applied Zn in sunflower (Helianthus annuus): importance of the cuticle, stomata and trichomes. *Annals of Botany*, **2019**, 123, 57-68	4.1	48
201	Soil and the intensification of agriculture for global food security. *Environment International*, **2019**, 132, 105078	12.9	217
200	Minimizing experimental artefacts in synchrotron-based X-ray analyses of Fe speciation in tissues of rice plants. *Journal of Synchrotron Radiation*, **2019**, 26, 1272-1279	2.4	7
199	The Relationship Between Bulb Yield and Allicin Concentration in Garlic Varieties. *Proceedings (mdpi)*, **2019**, 36, 28	0.3	
198	Integrated High-Throughput Phenotyping with High Resolution Multispectral, Hyperspectral and 3D Point Cloud Techniques for Screening Wheat Genotypes on Sodic Soils. *Proceedings (mdpi)*, **2019** , 36, 206	0.3	1
197	Trends in key soil parameters under conservation agriculture-based sustainable intensification farming practices in the Eastern Ganga Alluvial Plains. *Soil Research*, **2019**, 57, 883	1.8	21
196	Evaluating effects of iron on manganese toxicity in soybean and sunflower using synchrotron-based X-ray fluorescence microscopy and X-ray absorption spectroscopy. *Metallomics*, **2019**, 11, 2097-2110	4.5	6
195	Reforestation of agricultural land in the tropics: The relative contribution of soil, living biomass and debris pools to carbon sequestration. *Science of the Total Environment*, **2019**, 649, 1502-1513	10.2	19
194	Changes in soil chemistry after the application of gypsum and sulfur and irrigation with coal seam water. *Geoderma*, **2019**, 337, 782-791	6.7	12
193	Absorption of foliar-applied Zn fertilizers by trichomes in soybean and tomato. *Journal of Experimental Botany*, **2018**, 69, 2717-2729	7	54
192	Effects of methyl jasmonate on plant growth and leaf properties. *Journal of Plant Nutrition and Soil Science*, **2018**, 181, 409-418	2.3	22
191	Root zone temperature alters storage root formation and growth of sweetpotato. *Journal of Agronomy and Crop Science*, **2018**, 204, 313-324	3.9	1
190	Soil nitrogen status and turnover in subtropical leucaena-grass pastures as quantified by 15N natural abundance. *Geoderma*, **2018**, 313, 126-134	6.7	16
189	Selection for rapid germination and emergence may improve wheat seedling establishment in the presence of soil surface crusts. *Plant and Soil*, **2018**, 426, 227-239	4.2	11
188	Risk of Silver Transfer from Soil to the Food Chain Is Low after Long-Term (20 Years) Field Applications of Sewage Sludge. *Environmental Science & Technology*, **2018**, 52, 4901-4909	10.3	31
187	Manganese distribution and speciation help to explain the effects of silicate and phosphate on manganese toxicity in four crop species. *New Phytologist*, **2018**, 217, 1146-1160	9.8	33
186	Defining appropriate methods for studying toxicities of trace metals in nutrient solutions. *Ecotoxicology and Environmental Safety*, **2018**, 147, 872-880	7	6

185	An empirical model for prediction of wheat yield, using time-integrated Landsat NDVI. *International Journal of Applied Earth Observation and Geoinformation*, **2018**, 72, 99-108	7.3	38
184	Quantifying the economic impact of soil constraints on Australian agriculture: A case-study of wheat. *Land Degradation and Development*, **2018**, 29, 3866-3875	4.4	25
183	Intensified sweetpotato production in Papua New Guinea drives plant nutrient decline over the last decade. *Agriculture, Ecosystems and Environment*, **2018**, 254, 10-19	5.7	8
182	Nitrogen-rich microbial products provide new organo-mineral associations for the stabilization of soil organic matter. *Global Change Biology*, **2018**, 24, 1762-1770	11.4	58
181	Effects of long-term cultivation on phosphorus (P) in five low-input, subtropical Australian soils. *Agriculture, Ecosystems and Environment*, **2018**, 252, 191-199	5.7	5
180	Dataset on seed details of wheat genotypes, solution treatments to measure seedling emergence force and the relation between seedling force and strain. *Data in Brief*, **2018**, 21, 1598-1602	1.2	
179	Management of the major chemical soil constraints affecting yields in the grain growing region of Queensland and New South Wales, Australia a review. *Soil Research*, **2018**, 56, 765	1.8	14
178	Free light fraction carbon and nitrogen, a physically uncomplexed soil organic matter distribution within subtropical grass and leucaena grass pastures. *Soil Research*, **2018**, 56, 820	1.8	5
177	Greater emergence force and hypocotyl cross sectional area may improve wheat seedling emergence in sodic conditions. *Plant Science*, **2018**, 277, 188-195	5.3	4
176	Absorption of foliar applied Zn is decreased in Zn deficient sunflower (Helianthus annuus) due to changes in leaf properties. *Plant and Soil*, **2018**, 433, 309-322	4.2	12
175	Soil Organic Carbon Stabilization: Mapping Carbon Speciation from Intact Microaggregates. *Environmental Science & Technology*, **2018**, 52, 12275-12284	10.3	23
174	Soil organic carbon and nitrogen sequestration and turnover in aggregates under subtropical leucaena grass pastures. *Soil Research*, **2018**, 56, 632	1.8	8
173	Time-resolved X-ray fluorescence analysis of element distribution and concentration in living plants: An example using manganese toxicity in cowpea leaves. *Environmental and Experimental Botany*, **2018**, 156, 151-160	5.9	11
172	Engineered silver nanoparticles in terrestrial environments: a meta-analysis shows that the overall environmental risk is small. *Environmental Science: Nano*, **2018**, 5, 2531-2544	7.1	19
171	Influence of soil characteristics on teak (Tectona grandis L. f.) establishment and early growth in tropical Northern Australia. *Journal of Forest Research*, **2017**, 22, 153-159	1.4	6
170	The effect of salinity on plant-available water. *Plant and Soil*, **2017**, 418, 477-491	4.2	40
169	Characterizing the uptake, accumulation and toxicity of silver sulfide nanoparticles in plants. *Environmental Science: Nano*, **2017**, 4, 448-460	7.1	66
168	The sequestration and turnover of soil organic carbon in subtropical leucaena-grass pastures. *Agriculture, Ecosystems and Environment*, **2017**, 248, 38-47	5.7	19

167	Evaluation of pyritic mine tailings as a plant growth substrate. *Journal of Environmental Management*, **2017**, 201, 207-214	7.9	4
166	Growth and yield response of glasshouse- and field-grown sweetpotato to nitrogen supply. *Nutrient Cycling in Agroecosystems*, **2017**, 108, 309-321	3.3	11
165	Effects of changes in leaf properties mediated by methyl jasmonate (MeJA) on foliar absorption of Zn, Mn and Fe. *Annals of Botany*, **2017**, 120, 405-415	4.1	21
164	Changes in exchangeable cations and micronutrients in soils and grains of long-term, low input cropping systems of subtropical Australia. *Geoderma*, **2017**, 285, 293-300	6.7	15
163	Global changes in soil stocks of carbon, nitrogen, phosphorus, and sulphur as influenced by long-term agricultural production. *Global Change Biology*, **2017**, 23, 2509-2519	11.4	61
162	Growth and physiological responses of teak (Tectona grandis Linn. f.) clones to Ca, H and Al stresses in solution and acid soils. *New Forests*, **2017**, 48, 137-152	2.6	6
161	Aluminum Complexation with Malate within the Root Apoplast Differs between Aluminum Resistant and Sensitive Wheat Lines. *Frontiers in Plant Science*, **2017**, 8, 1377	6.2	18
160	Characterizing the uptake, accumulation and toxicity of silver sulfide nanoparticles in plants. *Environmental Science: Nano*, **2017**, 4, 448-460	7.1	15
159	Ferric minerals and organic matter change arsenic speciation in copper mine tailings. *Environmental Pollution*, **2016**, 218, 835-843	9.3	23
158	Kinetics and nature of aluminium rhizotoxic effects: a review. *Journal of Experimental Botany*, **2016**, 67, 4451-67	7	44
157	Conversion of sub-tropical native vegetation to introduced conifer forest: Impacts on below-ground and above-ground carbon pools. *Forest Ecology and Management*, **2016**, 370, 65-75	3.9	16
156	Sulfur dynamics in sub-tropical soils of Australia as influenced by long-term cultivation. *Plant and Soil*, **2016**, 402, 211-219	4.2	15
155	Mineral nutrition and specific leaf area of plants under contrasting long-term fire frequencies: a case study in a mesic savanna in Australia. *Trees - Structure and Function*, **2016**, 30, 329-335	2.6	9
154	Germination of leucaena and Rhodes grass seeds in saline and alkaline conditions. *Seed Science and Technology*, **2016**, 44, 461-474	0.6	2
153	Aluminium effects on mechanical properties of cell wall analogues. *Physiologia Plantarum*, **2016**, 158, 382-388	4.6	4
152	Silver Nanoparticles Entering Soils via the Wastewater-Sludge-Soil Pathway Pose Low Risk to Plants but Elevated Cl Concentrations Increase Ag Bioavailability. *Environmental Science & Technology* , **2016**, 50, 8274-81	10.3	75
151	Selection for root morphological traits improves the growth of grafted bell pepper. *Acta Horticulturae*, **2016**, 211-216	0.3	
150	Overhead-irrigation with saline and alkaline water: Deleterious effects on foliage of Rhodes grass and leucaena. *Agricultural Water Management*, **2016**, 169, 173-182	5.9	2

149	Silver sulfide nanoparticles (Ag2S-NPs) are taken up by plants and are phytotoxic. *Nanotoxicology*, **2015**, 9, 1041-9	5.3	80
148	Use of fluoride-containing water for the irrigation of soil-plant systems. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 4737-45	5.7	4
147	Synchrotron-based X-ray absorption near-edge spectroscopy imaging for laterally resolved speciation of selenium in fresh roots and leaves of wheat and rice. *Journal of Experimental Botany*, **2015**, 66, 4795-806	7	35
146	Farmer Involvement in the Development and Adoption of Improved Nutrient Management Technologies Using the MotherBaby Trial Approach in Vertisols. *Proceedings of the National Academy of Sciences India Section B - Biological Sciences*, **2015**, 85, 51-62	1.4	2
145	Sunflowers drive acid dissolution of rock phosphate when banded with ammonium zeolite. *Acta Horticulturae*, **2015**, 21-28	0.3	1
144	Identification of the primary lesion of toxic aluminum in plant roots. *Plant Physiology*, **2015**, 167, 1402-11	6.6	145
143	Nutrient Mass Balances and Leaching Losses from a Farmyard Manure Pit in Madhya Pradesh. *Journal of the Indian Society of Soil Science*, **2015**, 63, 64	1	3
142	Kinetics and mechanisms of cowpea root adaptation to changes in solution calcium. *Plant and Soil*, **2014**, 379, 301-314	4.2	3
141	A web-accessible computer program for calculating electrical potentials and ion activities at cell-membrane surfaces. *Plant and Soil*, **2014**, 375, 35-46	4.2	24
140	Laterally resolved speciation of arsenic in roots of wheat and rice using fluorescence-XANES imaging. *New Phytologist*, **2014**, 201, 1251-1262	9.8	69
139	TO EVALUATE THE EFFECT OF GREEN WASTE COMPOST ON NITROUS OXIDE EMISSIONS FROM HORTICULTURE. *Acta Horticulturae*, **2014**, 83-91	0.3	
138	The rhizotoxicity of metal cations is related to their strength of binding to hard ligands. *Environmental Toxicology and Chemistry*, **2014**, 33, 268-77	3.8	23
137	Effects of copper fungicide residues on the microbial function of vineyard soils. *Environmental Science and Pollution Research*, **2013**, 20, 1574-85	5.1	22
136	Fate of ZnO nanoparticles in soils and cowpea (Vigna unguiculata). *Environmental Science & Technology*, **2013**, 47, 13822-30	10.3	220
135	Influence of Increasing Soil Copper Concentration on the Susceptibility of Phosphomonoesterase and Urease to Heat Disturbance. *Water, Air, and Soil Pollution*, **2013**, 224, 1	2.6	2
134	Industry Wide Risk Assessment: A Case Study of Cu in Australian Vineyard Soils. *Water, Air, and Soil Pollution*, **2013**, 224, 1	2.6	4
133	Horticultural Use of Copper-Based Fungicides Has Not Increased Copper Concentrations in Sediments in the Mid- and Upper Yarra Valley. *Water, Air, and Soil Pollution*, **2013**, 224, 1	2.6	4
132	The Effects of Copper Hydroxide, Captan and Trifloxystrobin Fungicides on Soil Phosphomonoesterase and Urease Activity. *Water, Air, and Soil Pollution*, **2013**, 224, 1	2.6	12

131	Distribution and speciation of Mn in hydrated roots of cowpea at levels inhibiting root growth. *Physiologia Plantarum*, **2013**, 147, 453-64	4.6	19
130	An electrostatic model predicting Cu and Ni toxicity to microbial processes in soils. *Soil Biology and Biochemistry*, **2013**, 57, 720-730	7.5	18
129	How Important is the Quality of Organic Amendments in Relation to Mineral N Availability in Soils?. *Agricultural Research*, **2013**, 2, 99-110	1.4	28
128	Quantitative determination of metal and metalloid spatial distribution in hydrated and fresh roots of cowpea using synchrotron-based X-ray fluorescence microscopy. *Science of the Total Environment*, **2013**, 463-464, 131-9	10.2	35
127	In situ speciation and distribution of toxic selenium in hydrated roots of cowpea. *Plant Physiology*, **2013**, 163, 407-18	6.6	17
126	Antioxidant capacity and rate of decomposition of organic amendments in a Vertisol. *European Journal of Soil Science*, **2013**, 64, 104-109	3.4	3
125	Calcium affects the competitiveness of acid-sensitive and acid-tolerant strains of Bradyrhizobium japonicum in nodulating and fixing nitrogen with two soybean cultivars in acid soil. *Soil Biology and Biochemistry*, **2012**, 46, 115-122	7.5	11
124	Laboratory prescreening of Bradyrhizobium japonicum for low pH, Al and Mn tolerance can be used to predict their survival in acid soils. *Soil Biology and Biochemistry*, **2012**, 48, 135-141	7.5	11
123	Identifying the species of copper that are toxic to plant roots in alkaline nutrient solutions. *Plant and Soil*, **2012**, 361, 317-327	4.2	14
122	Environmental fate of fungicides in surface waters of a horticultural-production catchment in southeastern Australia. *Archives of Environmental Contamination and Toxicology*, **2012**, 62, 380-90	3.2	103
121	Simulating soybean–wheat cropping system: APSIM model parameterization and validation. *Agriculture, Ecosystems and Environment*, **2012**, 152, 68-78	5.7	48
120	Examination of the distribution of arsenic in hydrated and fresh cowpea roots using two- and three-dimensional techniques. *Plant Physiology*, **2012**, 159, 1149-58	6.6	39
119	Soil Science teaching principles. *Geoderma*, **2011**, 167-168, 9-14	6.7	44
118	Separating multiple, short-term, deleterious effects of saline solutions on the growth of cowpea seedlings. *New Phytologist*, **2011**, 189, 1110-1121	9.8	22
117	Symbiotic effectiveness of Bradyrhizobium japonicum in acid soils can be predicted from their sensitivity to acid soil stress factors in acidic agar media. *Soil Biology and Biochemistry*, **2011**,	7.5	3
116	Modelling N mineralization from green manure and farmyard manure from a laboratory incubation study. *Ecological Modelling*, **2011**, 222, 719-726	3	68
115	Carbon sequestration and biodiversity restoration potential of semi-arid mulga lands of Australia interpreted from long-term grazing exclosures. *Agriculture, Ecosystems and Environment*, **2011**, 141, 108-118	5.7	75
114	Recovery of cowpea seedling roots from exposure to toxic concentrations of trace metals. *Plant and Soil*, **2011**, 341, 423-436	4.2	12

113	Interaction between Cu toxicity and P deficiency in soil-grown cowpea (Vigna unguiculata (L.) Walp.). *Plant and Soil*, **2011**, 342, 359-367	4.2	4
112	Crop residues and fertilizer nitrogen influence residue decomposition and nitrous oxide emission from a Vertisol. *Biology and Fertility of Soils*, **2011**, 47, 15-23	6.1	108
111	Toxicity of metals to roots of cowpea in relation to their binding strength. *Environmental Toxicology and Chemistry*, **2011**, 30, 1827-33	3.8	29
110	Alleviation of Cu and Pb rhizotoxicities in cowpea (Vigna unguiculata) as related to ion activities at root-cell plasma membrane surface. *Environmental Science & Technology*, **2011**, 45, 4966-73	10.3	49
109	Irrigation with industrial effluent leads to mortality of coppice growth in Eucalyptus. *Australian Forestry*, **2011**, 74, 170-179	2.1	1
108	Effect of fresh green waste and green waste compost on mineral nitrogen, nitrous oxide and carbon dioxide from a Vertisol. *Waste Management*, **2011**, 31, 1720-8	8.6	22
107	In situ distribution and speciation of toxic copper, nickel, and zinc in hydrated roots of cowpea. *Plant Physiology*, **2011**, 156, 663-73	6.6	118
106	Calculated activity of Mn2+ at the outer surface of the root cell plasma membrane governs Mn nutrition of cowpea seedlings. *Journal of Experimental Botany*, **2011**, 62, 3993-4001	7	21
105	Soil Nitrogen and Nitrogen-Use Efficiency under Long-Term No-till Practice. *Soil Science Society of America Journal*, **2011**, 75, 2251-2261	2.5	25
104	Metal ion effects on hydraulic conductivity of bacterial cellulose-pectin composites used as plant cell wall analogs. *Physiologia Plantarum*, **2010**, 138, 205-14	4.6	20
103	Environmental Risks of Fungicides Used in Horticultural Production Systems **2010**,		36
102	Use of Reference Soils in Determinations of 0.01 M Calcium Chloride Available Metals. *Communications in Soil Science and Plant Analysis*, **2010**, 41, 2602-2612	1.5	5
101	Trace metal phytotoxicity in solution culture: a review. *Journal of Experimental Botany*, **2010**, 61, 945-54	7	131
100	Inter-regional variability in environmental availability of fungicide derived copper in vineyard soils: an Australian case study. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 449-57	5.7	21
99	Hydrolysis and speciation of Al bound to pectin and plant cell wall material and its reaction with the dye chrome azurol S. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 5553-60	5.7	18
98	Comparison between methods using copper, lanthanum, and colorimetry for the determination of the cation exchange capacity of plant cell walls. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 4554-9	5.7	7
97	Influence of texture in bauxite residues on void ratio, water holding characteristics, and penetration resistance. *Geoderma*, **2010**, 158, 421-426	6.7	21
96	Tolerance of seven perennial grasses to high nickel in sand culture. *Environmental Chemistry*, **2010**, 7, 279	3.2	4

95	Green waste compost reduces nitrous oxide emissions from feedlot manure applied to soil. *Agriculture, Ecosystems and Environment*, **2010**, 136, 273-281	5.7	31
94	Effects of Ca, Cu, Al and La on pectin gel strength: implications for plant cell walls. *Carbohydrate Research*, **2010**, 345, 1174-9	2.9	28
93	Toxicity of Cd to signal grass (Brachiaria decumbens Stapf.) and Rhodes grass (Chloris gayana Kunth.). *Plant and Soil*, **2010**, 330, 515-523	4.2	22
92	Comparative hydrolysis and sorption of Al and La onto plant cell wall material and pectic materials. *Plant and Soil*, **2010**, 332, 319-330	4.2	8
91	Rhizotoxic effects of silver in cowpea seedlings. *Environmental Toxicology and Chemistry*, **2010**, 29, 2072-8	3.8	12
90	Toxic effects of Cu(2+) on growth, nutrition, root morphology, and distribution of Cu in roots of Sabi grass. *Science of the Total Environment*, **2009**, 407, 4616-21	10.2	47
89	Mechanical and structural properties of native and alkali-treated bacterial cellulose produced by Gluconacetobacter xylinus strain ATCC 53524. *Cellulose*, **2009**, 16, 1047-1055	5.5	81
88	Metal-induced cell rupture in elongating roots is associated with metal ion binding strengths. *Plant and Soil*, **2009**, 322, 303-315	4.2	42
87	Nitrous oxide emission from feedlot manure and green waste compost applied to Vertisols. *Biology and Fertility of Soils*, **2009**, 45, 809-819	6.1	24
86	Measurement and Interpretation of Salinity Tolerance in Four Perennial Grasses. *Journal of Plant Nutrition*, **2009**, 32, 30-43	2.3	4
85	Amelioration of Cadmium Contaminated Soils Using Cation Exchangers. *Journal of Plant Nutrition*, **2009**, 32, 1321-1335	2.3	
84	Fresh water leaching of alkaline bauxite residue after sea water neutralization. *Journal of Environmental Quality*, **2009**, 38, 2050-7	3.4	27
83	Tolerance of perennial grasses to high copper in sand culture. *Environmental Chemistry*, **2009**, 6, 253	3.2	1
82	Prediction of Pb speciation in concentrated and dilute nutrient solutions. *Environmental Pollution*, **2008**, 153, 548-54	9.3	51
81	Localization and chemical speciation of Pb in roots of signal grass (Brachiaria decumbens) and Rhodes grass (Chloris gayana). *Environmental Science & Technology*, **2008**, 42, 4595-9	10.3	50
80	Employing Chlorella protothecoides for metal bioavailability studies under acidic conditions. *Journal of Plankton Research*, **2008**, 31, 325-336	2.2	
79	Influence of Hydraulic Loading and Effluent Flux on Surface Surcharging in Soil Absorption Systems. *Journal of Hydrologic Engineering - ASCE*, **2008**, 13, 681-692	1.8	20
78	Influence of Soil Moisture Content on Soil Solution Composition. *Soil Science Society of America Journal*, **2008**, 72, 355-361	2.5	22

77	Tolerance of two perennial grasses to toxic levels of Ni2+. *Environmental Chemistry*, **2008**, 5, 426	3.2	6
76	Toxicities of soluble Al, Cu, and La include ruptures to rhizodermal and root cortical cells of cowpea. *Plant and Soil*, **2008**, 303, 217-227	4.2	93
75	Toxic effects of Ni2+ on growth of cowpea (Vigna unguiculata). *Plant and Soil*, **2007**, 292, 283-289	4.2	37
74	Toxic effects of Pb2+ on the growth and mineral nutrition of signal grass (Brachiaria decumbens) and Rhodes grass (Chloris gayana). *Plant and Soil*, **2007**, 300, 127-136	4.2	45
73	A Review of the Use of the Basic Cation Saturation Ratio and the Ideal Soil. *Soil Science Society of America Journal*, **2007**, 71, 259-265	2.5	80
72	Growth of Eucalyptus species in a Brown Kandosol, and changes in soil phosphorus fractionation following fertilisation. *Soil Research*, **2007**, 45, 190	1.8	8
71	Toxic effects of low concentrations of Cu on nodulation of cowpea (Vigna unguiculata). *Environmental Pollution*, **2007**, 145, 309-15	9.3	38
70	Evaluation of extractants for estimation of the phytoavailable trace metals in soils. *Environmental Pollution*, **2007**, 145, 121-30	9.3	316
69	Toxic effects of Pb2+ on growth of cowpea (Vigna unguiculata). *Environmental Pollution*, **2007**, 150, 280-7	9.3	112
68	Revegetation strategies for bauxite refinery residue: a case study of Alcan Gove in Northern Territory, Australia. *Environmental Management*, **2006**, 37, 297-306	3.1	73
67	Responses of Four Australian Tree Species to Toxic Concentrations of Copper in Solution Culture. *Journal of Plant Nutrition*, **2006**, 29, 1127-1141	2.3	16
66	Examination into the Accuracy of Exchangeable Cation Measurement in Saline Soils. *Communications in Soil Science and Plant Analysis*, **2006**, 37, 1819-1832	1.5	10
65	Effluent flux prediction in variably saturated soil zones within a septic tank soil absorption trench. *Soil Research*, **2006**, 44, 677	1.8	3
64	Growth Response of Various Perennial Grasses to Increasing Salinity. *Journal of Plant Nutrition*, **2006**, 29, 1573-1584	2.3	18
63	Long-term flow rates and biomat zone hydrology in soil columns receiving septic tank effluent. *Water Research*, **2006**, 40, 2327-38	12.5	24
62	Effect of ionic strength and clay mineralogy on Na Ca exchange and the SAR ESP relationship. *European Journal of Soil Science*, **2006**, 57, 626-633	3.4	33
61	Effect of Cu Toxicity on Growth of Cowpea (Vigna unguiculata). *Plant and Soil*, **2006**, 279, 287-296	4.2	97
60	Simulated rainwater effects on anion exchange capacity and nitrate retention in Ferrosols. *Soil Research*, **2005**, 43, 33	1.8	22

59	Competitive sorption reactions between phosphorus and organic matter in soil: a review. *Soil Research*, **2005**, 43, 189	1.8	363
58	Process, performance, and pollution potential: A review of septic tank - soil absorption systems. *Soil Research*, **2005**, 43, 781	1.8	102
57	The effect of ionic strength variation and anion competition on the development of nitrate accumulations in variable charge subsoils. *Soil Research*, **2005**, 43, 43	1.8	17
56	Evaluation of Cu-Ethylenediamine Metal Ion Buffers as Calibrants for Ion-Selective Electrode Measurement of Copper in Fresh Water Systems. *Electroanalysis*, **2005**, 17, 912-914	3	2
55	Chloride as a signature indicator of soil textural and hydrologic stratigraphies in variable charge deep profiles. *Hydrological Processes*, **2005**, 19, 2007-2022	3.3	10
54	Effect of pH on Na induced Ca deficiency. *Plant and Soil*, **2005**, 269, 119-129	4.2	27
53	Mg induced Ca deficiency under alkaline conditions. *Plant and Soil*, **2005**, 269, 245-250	4.2	8
52	Hydraulic properties of layered soils influence survival of Rhodes grass (Chloris gayana Kunth.) during water stress. *Plant and Soil*, **2005**, 270, 287-297	4.2	19
51	Assessment of P availability in heavily fertilized soils using the diffusive gradient in thin films (DGT) technique. *Plant and Soil*, **2005**, 269, 1-9	4.2	60
50	Rhizotoxicity of aluminate and polycationic aluminium at high pH. *Plant and Soil*, **2005**, 266, 177-186	4.2	15
49	Control of nutrient solutions for studies at high pH. *Plant and Soil*, **2005**, 266, 343-354	4.2	13
48	The Effect of Copper Toxicity on the Growth and Root Morphology of Rhodes Grass (Chloris gayana Knuth.) in Resin Buffered Solution Culture. *Plant and Soil*, **2005**, 278, 341-349	4.2	143
47	Corrigendum to: 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. *Australian Journal of Agricultural Research*, **2005**, 56, 1415		
46	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. *Australian Journal of Agricultural Research*, **2005**, 56, 245		8
45	Do Decomposing Organic Matter Residues Reduce Phosphorus Sorption in Highly Weathered Soils?. *Soil Science Society of America Journal*, **2005**, 69, 1405-1411	2.5	52
44	Piggery pond sludge as a nitrogen source for crops 2. Assay of wet and stockpiled piggery pond sludge by successive cereal crops or direct measurement of soil available N. *Australian Journal of Agricultural Research*, **2005**, 56, 517		3
43	Seawater neutralization of alkaline bauxite residue and implications for revegetation. *Journal of Environmental Quality*, **2004**, 33, 1877-84	3.4	94
42	Alkali hydroxide-induced gelation of pectin. *Food Hydrocolloids*, **2004**, 18, 375-378	10.6	33

41	Seedling responses of four Australian tree species to toxic concentrations of manganese in solution culture. *Plant and Soil*, **2004**, 258, 341-350	4.2	18
40	Effect of Mn deficiency and legume inoculation on rhizosphere pH in highly alkaline soils. *Plant and Soil*, **2004**, 262, 13-21	4.2	12
39	Inhibition of cell-wall autolysis and pectin degradation by cations. *Plant Physiology and Biochemistry* , **2004**, 42, 485-92	5.4	47
38	Impact of pre-existing sulphate on retention of imported chloride and nitrate in variable charge soil profiles. *Geoderma*, **2004**, 123, 205-218	6.7	10
37	Chemical characterisation of deep profile Ferrosols under sugarcane in wet tropical northern Queensland. *Soil Research*, **2004**, 42, 69	1.8	9
36	Gypsum solubility in seawater, and its application to bauxite residue amelioration. *Soil Research*, **2004**, 42, 953	1.8	22
35	Nitrate retention under sugarcane in wet tropical Queensland deep soil profiles. *Soil Research*, **2003**, 41, 1145	1.8	35
34	Nitrate ammonification and its relationship to the accumulation of ammonium in a Vertisol subsoil. *Soil Research*, **2003**, 41, 687	1.8	13
33	Plant growth limitation and nutrient loss following piled burning in slash and burn agriculture. *Nutrient Cycling in Agroecosystems*, **2003**, 65, 23-33	3.3	18
32	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. *Plant Physiology and Biochemistry*, **2003**, 41, 1007-1010	5.4	19
31	Using quantity/intensity relationships to assess the potential for ammonium leaching in a Vertosol. *Soil Research*, **2003**, 41, 207	1.8	7
30	Toxic Elements in Acid Soils **2003**,		4
29	Subsoil nitrogen mineralisation and its potential to contribute to NH4 accumulation in a Vertosol. *Soil Research*, **2003**, 41, 119	1.8	7
28	Improvements to peroxide oxidation methods for analysing sulfur in acid sulfate soils. *Soil Research* , **2002**, 40, 1115	1.8	14
27	The measurement of actual acidity in acid sulfate soils and the determination of sulfidic acidity in suspension after peroxide oxidation. *Soil Research*, **2002**, 40, 1133	1.8	17
26	Nitrification in a Vertisol subsoil and its relationship to the accumulation of ammonium-nitrogen at depth. *Soil Research*, **2002**, 40, 727	1.8	19
25	Zeolite/rock phosphate□ novel slow release phosphorus fertiliser for potted plant production. *Scientia Horticulturae*, **2002**, 94, 333-343	4.1	58
24	Seedling responses of three Australian tree species to toxic concentrations of zinc in solution culture. *Plant and Soil*, **2001**, 235, 151-158	4.2	25

23	Bioavailability of Cu, Zn, and Mn in Contaminated Soils and Speciation in Soil Solution **2001**,		1
22	Mining disturbance alters phosphorus fractions in northern Australian soils. *Soil Research*, **2000**, 38, 411	1.8	7
21	Vegetation Dieback on Clay-Capped Pyritic Mine Waste. *Journal of Environmental Quality*, **2000**, 29, 437-442	3.4	11
20	In-situ soil solution extraction with polyacrylonitrile hollow-fibers. *Communications in Soil Science and Plant Analysis*, **2000**, 31, 1875-1886	1.5	24
19	Analytical methods and quality assurance. *Communications in Soil Science and Plant Analysis*, **2000**, 31, 1981-1991	1.5	32
18	Analytical methods and quality assurance. *Communications in Soil Science and Plant Analysis*, **2000**, 31, 1935-1939	1.5	42
17	Phosphorus Storage on Effluent Irrigated Land. *Journal of Environmental Quality*, **1999**, 28, 750-754	3.4	15
16	Chemical Characterization of Soils of a Tropical Humid Forest Zone: A Methodology. *Soil Science Society of America Journal*, **1997**, 61, 1355-1363	2.5	21
15	Magnesium in tropical and subtropical soils from north-eastern Australia. I. Magnesium fractions and interrelationships with soil properties. *Soil Research*, **1997**, 35, 615	1.8	8
14	Magnesium in tropical and subtropical soils from north-eastern Australia. II. Response by glasshouse-grown maize to applied magnesium. *Soil Research*, **1997**, 35, 629	1.8	18
13	Evaluation of fly ash as a component of potting substrates. *Scientia Horticulturae*, **1996**, 67, 87-99	4.1	18
12	Use of dialysis to limit interferences in the Turbidimetric determination of sulfate. *Communications in Soil Science and Plant Analysis*, **1996**, 27, 2159-2169	1.5	
11	Exchange and solution phase chemistry of acid, highly weathered soils .I. Characteristics of soils and the effects of lime and gypsum amendments. *Soil Research*, **1994**, 32, 251	1.8	15
10	Effects of calcium and aluminum in the soil solution of acid, surface soils on root elongation of mungbean. *Soil Research*, **1994**, 32, 721	1.8	13
9	Exchange and solution phase chemistry of acid, highly weathered soils .I. Investigation of mechanisms controlling Al release into solution. *Soil Research*, **1994**, 32, 269	1.8	14
8	The use of total ionic strength adjusting buffers in determining fluoride concentration in soil solutions by ion selective electrometry. *Communications in Soil Science and Plant Analysis*, **1993**, 24, 1865-1882	1.5	10
7	Determination of total soluble aluminum in soil solution using pyrocatechol violet, lanthanum and iron to discriminate against micro-particulates and organic ligands. *Communications in Soil Science and Plant Analysis*, **1992**, 23, 2525-2545	1.5	32
6	Effects of incubation time and filtration technique on soil solution composition with particular reference to inorganic and organically complexed Al. *Soil Research*, **1991**, 29, 223	1.8	9

5	Characteristics of membrane filters in relation to aluminium studies in soil solutions and natural waters. *Journal of Soil Science*, **1991**, 42, 585-597		20
4	A simple positive pressure apparatus for the ultrafiltration of soil solution. *Communications in Soil Science and Plant Analysis*, **1991**, 22, 137-145	1.5	16
3	Evaluation of the influence of sample preparation and extraction technique on soil solution composition. *Soil Research*, **1988**, 26, 451	1.8	63
2	Ensuring planetary survival: the centrality of organic carbon in balancing the multifunctional nature of soils. *Critical Reviews in Environmental Science and Technology*,1-17	11.1	7
1	Stable isotope techniques for quantifying N fertiliser recovery in maize grown in soils with different management histories. *Nutrient Cycling in Agroecosystems*,1	3.3	