

# Michael S Renton

## List of Publications by Citations

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124  
papers

2,845  
citations

27  
h-index

48  
g-index

128  
ext. papers

3,377  
ext. citations

4.1  
avg, IF

5.45  
L-index

#	Paper	IF	Citations
124	The ecophysiology of seed persistence: a mechanistic view of the journey to germination or demise. <i>Biological Reviews</i> , <b>2015</b> , 90, 31-59	13.5	237
123	Plant-soil feedback and the maintenance of diversity in Mediterranean-climate shrublands. <i>Science</i> , <b>2017</b> , 355, 173-176	33.3	190
122	Influence of leaf dry mass per area, CO <sub>2</sub> , and irradiance on mesophyll conductance in sclerophylls. <i>Journal of Experimental Botany</i> , <b>2009</b> , 60, 2303-14	7	129
121	Rapid Evolution of Herbicide Resistance by Low Herbicide Dosages. <i>Weed Science</i> , <b>2011</b> , 59, 210-217	2	119
120	Plant adaptations to severely phosphorus-impooverished soils. <i>Current Opinion in Plant Biology</i> , <b>2015</b> , 25, 23-31	9.9	116
119	MAppleT: simulation of apple tree development using mixed stochastic and biomechanical models. <i>Functional Plant Biology</i> , <b>2008</b> , 35, 936-950	2.7	88
118	Herbicide-resistant weeds: from research and knowledge to future needs. <i>Evolutionary Applications</i> , <b>2013</b> , 6, 1218-21	4.8	83
117	Expanding the eco-evolutionary context of herbicide resistance research. <i>Pest Management Science</i> , <b>2014</b> , 70, 1385-93	4.6	77
116	Multiple adaptive responses of Australian native perennial legumes with pasture potential to grow in phosphorus- and moisture-limited environments. <i>Annals of Botany</i> , <b>2010</b> , 105, 755-67	4.1	67
115	High level of resistance to <i>Sclerotinia sclerotiorum</i> in introgression lines derived from hybridization between wild crucifers and the crop Brassica species <i>B. napus</i> and <i>B. juncea</i> . <i>Field Crops Research</i> , <b>2010</b> , 117, 51-58	5.5	66
114	Herbicide resistance modelling: past, present and future. <i>Pest Management Science</i> , <b>2014</b> , 70, 1394-404	4.6	59
113	Photosynthesis at an extreme end of the leaf trait spectrum: how does it relate to high leaf dry mass per area and associated structural parameters?. <i>Journal of Experimental Botany</i> , <b>2010</b> , 61, 3015-28	7	54
112	Similarities and gradients in growth unit branching patterns during ontogeny in "Fuji" apple trees: a stochastic approach. <i>Journal of Experimental Botany</i> , <b>2006</b> , 57, 3131-43	7	54
111	Plant Responses to Limited Moisture and Phosphorus Availability. <i>Advances in Agronomy</i> , <b>2014</b> , 124, 143-200	2.0	51
110	Ecologically sustainable weed management: How do we get from proof-of-concept to adoption? <b>2016</b> , 26, 1352-1369		50
109	Models of long-distance transport: how is carrier-dependent auxin transport regulated in the stem?. <i>New Phytologist</i> , <b>2012</b> , 194, 704-715	9.8	45
108	Does cutting herbicide rates threaten the sustainability of weed management in cropping systems?. <i>Journal of Theoretical Biology</i> , <b>2011</b> , 283, 14-27	2.3	44

107	Towards large-scale prediction of <i>Lolium rigidum</i> emergence. II. Correlation between dormancy and herbicide resistance levels suggests an impact of cropping systems. <i>Weed Research</i> , <b>2011</b> , 51, 133-141	1.9	43
106	Tuned in: plant roots use sound to locate water. <i>Oecologia</i> , <b>2017</b> , 184, 151-160	2.9	42
105	Seasonal and diurnal patterns of spore release can significantly affect the proportion of spores expected to undergo long-distance dispersal. <i>Microbial Ecology</i> , <b>2012</b> , 63, 578-85	4.4	41
104	Rotations and mixtures of soil-applied herbicides delay resistance. <i>Pest Management Science</i> , <b>2020</b> , 76, 487-496	4.6	39
103	Fine root endophytes under scrutiny: a review of the literature on arbuscule-producing fungi recently suggested to belong to the Mucoromycotina. <i>Mycorrhiza</i> , <b>2017</b> , 27, 619-638	3.9	38
102	Out of sight but not out of mind: alternative means of communication in plants. <i>PLoS ONE</i> , <b>2012</b> , 7, e37387	3.7	36
101	Growth, carboxylate exudates and nutrient dynamics in three herbaceous perennial plant species under low, moderate and high phosphorus supply. <i>Plant and Soil</i> , <b>2012</b> , 358, 105-117	4.2	35
100	Habitat restoration will help some functional plant types persist under climate change in fragmented landscapes. <i>Global Change Biology</i> , <b>2012</b> , 18, 2057-2070	11.4	32
99	Modelling crop-weed competition: Why, what, how and what lies ahead?. <i>Crop Protection</i> , <b>2017</b> , 95, 101-108	10.8	30
98	Above- and below-ground interactions of grass and pasture legume species when grown together under drought and low phosphorus availability. <i>Plant and Soil</i> , <b>2011</b> , 348, 281-297	4.2	27
97	Timing of propagule release significantly alters the deposition area of resulting aerial dispersal. <i>Diversity and Distributions</i> , <b>2010</b> , 16, 288-299	5	27
96	Seed moisture content affects afterripening and smoke responsiveness in three sympatric Australian native species from fire-prone environments. <i>Austral Ecology</i> , <b>2009</b> , 34, 866-877	1.5	27
95	The Land Use Sequence Optimiser (LUSO): A theoretical framework for analysing crop sequences in response to nitrogen, disease and weed populations. <i>Crop and Pasture Science</i> , <b>2010</b> , 61, 835	2.2	27
94	Using the canonical modelling approach to simplify the simulation of function in functional-structural plant models. <i>New Phytologist</i> , <b>2005</b> , 166, 845-57	9.8	24
93	Functional-structural plant modelling using a combination of architectural analysis, L-systems and a canonical model of function. <i>Ecological Modelling</i> , <b>2005</b> , 184, 277-298	3	24
92	Computational botany: advancing plant science through functional-structural plant modelling. <i>Annals of Botany</i> , <b>2018</b> , 121, 767-772	4.1	24
91	Shifting focus from the population to the individual as a way forward in understanding, predicting and managing the complexities of evolution of resistance to pesticides. <i>Pest Management Science</i> , <b>2013</b> , 69, 171-5	4.6	23
90	Acoustic and magnetic communication in plants: Is it possible?. <i>Plant Signaling and Behavior</i> , <b>2012</b> , 7, 1346-8	2.5	23

89	Love thy neighbour: facilitation through an alternative signalling modality in plants. <i>BMC Ecology</i> , <b>2013</b> , 13, 19	2.7	22
88	Optimising seed broadcasting and greenstock planting for restoration in the Australian arid zone. <i>Journal of Arid Environments</i> , <b>2013</b> , 88, 226-235	2.5	22
87	Linking field and farmer surveys to determine the most important changes to weed incidence. <i>Weed Research</i> , <b>2012</b> , 52, 564-574	1.9	21
86	Seed dormancy and persistent sediment seed banks of ephemeral freshwater rock pools in the Australian monsoon tropics. <i>Annals of Botany</i> , <b>2015</b> , 115, 847-59	4.1	19
85	Occasional mouldboard ploughing slows evolution of resistance and reduces long-term weed populations in no-till systems. <i>Agricultural Systems</i> , <b>2015</b> , 139, 66-75	6.1	19
84	Generating species assemblages for restoration and experimentation: A new method that can simultaneously converge on average trait values and maximize functional diversity. <i>Methods in Ecology and Evolution</i> , <b>2018</b> , 9, 1764-1771	7.7	19
83	Modelling seagrass growth and development to evaluate transplanting strategies for restoration. <i>Annals of Botany</i> , <b>2011</b> , 108, 1213-23	4.1	19
82	Why was resistance to shorter-acting pre-emergence herbicides slower to evolve?. <i>Pest Management Science</i> , <b>2017</b> , 73, 844-851	4.6	18
81	Plant migration and persistence under climate change in fragmented landscapes: Does it depend on the key point of vulnerability within the lifecycle?. <i>Ecological Modelling</i> , <b>2013</b> , 249, 50-58	3	18
80	Temporal patterns of ascospore release in <i>Leptosphaeria maculans</i> vary depending on geographic region and time of observation. <i>Microbial Ecology</i> , <b>2013</b> , 65, 584-92	4.4	17
79	How do spatial heterogeneity and dispersal in weed population models affect predictions of herbicide resistance evolution?. <i>Ecological Modelling</i> , <b>2017</b> , 362, 37-53	3	17
78	Using log-log scaling slope analysis for determining the contributions to variability in biological variables such as leaf mass per area: why it works, when it works and how it can be extended. <i>New Phytologist</i> , <b>2011</b> , 190, 5-8	9.8	17
77	Mobile traps are better than stationary traps for surveillance of airborne fungal spores. <i>Crop Protection</i> , <b>2012</b> , 36, 23-30	2.7	16
76	Modeling Effects of Temperature, Soil, Moisture, Nutrition and Variety As Determinants of Severity of Pythium Damping-Off and Root Disease in Subterranean Clover. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 2223	5.7	15
75	Establishment, survival, and herbage production of novel, summer-active perennial pasture legumes in the low-rainfall cropping zone of Western Australia as affected by plant density and cutting frequency. <i>Crop and Pasture Science</i> , <b>2013</b> , 64, 71	2.2	15
74	Toward more robust plant-soil feedback research: Comment. <i>Ecology</i> , <b>2019</b> , 100, e02590	4.6	14
73	Requirements, design and implementation of a general model of biological invasion. <i>Ecological Modelling</i> , <b>2014</b> , 272, 394-409	3	14
72	Orientation and speed of wind gusts causing abscission of wind-dispersed seeds influences dispersal distance. <i>Functional Ecology</i> , <b>2014</b> , 28, 973-981	5.6	14

71	Individual-based modelling of the efficacy of fumigation tactics to control lesser grain borer ( <i>Rhyzopertha dominica</i> ) in stored grain. <i>Journal of Stored Products Research</i> , <b>2012</b> , 51, 23-32	2.5	14
70	How much detail and accuracy is required in plant growth sub-models to address questions about optimal management strategies in agricultural systems?. <i>AoB PLANTS</i> , <b>2011</b> , 2011, plr006	2.9	14
69	Adaptive shoot and root responses collectively enhance growth at optimum temperature and limited phosphorus supply of three herbaceous legume species. <i>Annals of Botany</i> , <b>2012</b> , 110, 959-68	4.1	14
68	Incorporating biophysical ecology into high-resolution restoration targets: insect pollinator habitat suitability models. <i>Restoration Ecology</i> , <b>2018</b> , 26, 338-347	3.1	13
67	Pea seed-borne mosaic virus: Stability and Wind-Mediated Contact Transmission in Field Pea. <i>Plant Disease</i> , <b>2016</b> , 100, 953-958	1.5	13
66	How will climate variability interact with long-term climate change to affect the persistence of plant species in fragmented landscapes?. <i>Environmental Conservation</i> , <b>2014</b> , 41, 110-121	3.3	13
65	Modeling disturbance-based native invasive species control and its implications for management <b>2013</b> , 23, 1331-44		13
64	Can mechanistically parameterised, anisotropic dispersal kernels provide a reliable estimate of wind-assisted dispersal?. <i>Ecological Modelling</i> , <b>2011</b> , 222, 1673-1682	3	13
63	Links between soil texture and root architecture of Eucalyptus species may limit distribution ranges under future climates. <i>Plant and Soil</i> , <b>2016</b> , 403, 217-229	4.2	12
62	Simulation modelling identifies polygenic basis of herbicide resistance in a weed population and predicts rapid evolution of herbicide resistance at low herbicide rates. <i>Crop Protection</i> , <b>2012</b> , 40, 114-120	2.7	12
61	Modeling the Impact of Harvest Weed Seed Control on Herbicide-Resistance Evolution. <i>Weed Science</i> , <b>2018</b> , 66, 395-403	2	12
60	Field margins provide a refuge for pest genes beneficial to resistance management. <i>Journal of Pest Science</i> , <b>2019</b> , 92, 1017-1026	5.5	11
59	Sesquiterpene Variation in West Australian Sandalwood ( <i>Santalum spicatum</i> ). <i>Molecules</i> , <b>2017</b> , 22,	4.8	11
58	Simulation of the evolution of root water foraging strategies in dry and shallow soils. <i>Annals of Botany</i> , <b>2014</b> , 114, 763-78	4.1	11
57	Biogenic ethylene promotes seedling emergence from the sediment seed bank in an ephemeral tropical rock pool habitat. <i>Plant and Soil</i> , <b>2014</b> , 380, 73-87	4.2	11
56	The impact of seed head age and orientation on seed release thresholds. <i>Functional Ecology</i> , <b>2012</b> , 26, 837-843	5.6	11
55	An Herbicide-Susceptible Rigid Ryegrass ( <i>Lolium rigidum</i> ) Population Made Even More Susceptible. <i>Weed Science</i> , <b>2012</b> , 60, 101-105	2	11
54	Effects of leaf development and phosphorus supply on the photosynthetic characteristics of perennial legume species with pasture potential: modelling photosynthesis with leaf development. <i>Functional Plant Biology</i> , <b>2010</b> , 37, 713	2.7	11

53	Gaining insight into the risks, returns and value of perfect knowledge for crop sequences by comparing optimal sequences with those proposed by agronomists. <i>Crop and Pasture Science</i> , <b>2015</b> , 66, 622	2.2	10
52	Community patterns and environmental drivers in hyper-diverse kwongan scrub vegetation of Western Australia. <i>Applied Vegetation Science</i> , <b>2018</b> , 21, 694-722	3.3	10
51	Dosage consistency is the key factor in avoiding evolution of resistance to phosphine and population increase in stored-grain pests. <i>Pest Management Science</i> , <b>2013</b> , 69, 1049-60	4.6	9
50	Interactions between crop sequences, weed populations and herbicide use in Western Australian broadacre farms: findings of a six-year survey. <i>Crop and Pasture Science</i> , <b>2020</b> , 71, 491	2.2	8
49	Vegetation patterns and hydro-geological drivers of freshwater rock pool communities in the monsoon-tropical Kimberley region, Western Australia. <i>Journal of Vegetation Science</i> , <b>2015</b> , 26, 1184-1197	3.1	8
48	Overcoming restoration thresholds and increasing revegetation success for a range of canopy species in a degraded urban Mediterranean-type woodland ecosystem. <i>Australian Journal of Botany</i> , <b>2013</b> , 61, 139	1.2	8
47	Creating periodic orbits in chaotic systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1995</b> , 203, 107-114	2.3	8
46	Using Computational Plant Science Tools to Investigate Morphological Aspects of Compensatory Growth. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 708-717	0.9	8
45	Shallow environmental gradients put inland species at risk: Insights and implications from predicting future distributions of Eucalyptus species in South Western Australia. <i>Austral Ecology</i> , <b>2015</b> , 40, 923-932	1.5	7
44	Constructing a new individual-based model of phosphine resistance in lesser grain borer ( <i>Rhyzopertha dominica</i> ): do we need to include two loci rather than one?. <i>Journal of Pest Science</i> , <b>2012</b> , 85, 451-468	5.5	7
43	Phenotypic variation for productivity and drought tolerance is widespread in germplasm collections of Australian Cullen species. <i>Crop and Pasture Science</i> , <b>2012</b> , 63, 656	2.2	7
42	Pea seed-borne mosaic virus in Field Pea: Widespread Infection, Genetic Diversity, and Resistance Gene Effectiveness. <i>Plant Disease</i> , <b>2016</b> , 100, 2475-2482	1.5	7
41	Genetic and environmental parameters show associations with essential oil composition in West Australian sandalwood ( <i>Santalum spicatum</i> ). <i>Australian Journal of Botany</i> , <b>2018</b> , 66, 48	1.2	7
40	Aristotle and adding an evolutionary perspective to models of plant architecture in changing environments. <i>Frontiers in Plant Science</i> , <b>2013</b> , 4, 284	6.2	6
39	Numerical algorithms for estimation and calculation of parameters in modeling pest population dynamics and evolution of resistance. <i>Mathematical Biosciences</i> , <b>2011</b> , 233, 77-89	3.9	6
38	The Role of Habitus in the Maintenance of Traditional Noongar Plant Knowledge in Southwest Western Australia. <i>Human Ecology</i> , <b>2011</b> , 39, 673-682	2	6
37	From controlled environments to field simulations: Developing a growth model for the novel perennial pasture legume Cullen australasicum. <i>Agricultural and Forest Meteorology</i> , <b>2010</b> , 150, 1373-1382	5.8	6
36	Statistical emulators of a plant growth simulation model. <i>Climate Research</i> , <b>2013</b> , 55, 253-265	1.6	6

35	More long-unburnt forest will benefit mammals in Australian sub-alpine forests and woodlands. <i>Austral Ecology</i> , <b>2019</b> , 44, 1150-1162	1.5	5
34	Weed Seed Wizard: A tool that demonstrates the value of integrated weed management tactics such as harvest weed seed destruction. <i>Computers and Electronics in Agriculture</i> , <b>2018</b> , 147, 27-33	6.5	5
33	Modelling mortality of a stored grain insect pest with fumigation: probit, logistic or Cauchy model?. <i>Mathematical Biosciences</i> , <b>2013</b> , 243, 137-46	3.9	5
32	Considering long-term ecological effects on future land-use options when making tactical break-crop decisions in cropping systems. <i>Crop and Pasture Science</i> , <b>2015</b> , 66, 610	2.2	5
31	Biserrula and subterranean clover can co-exist during the vegetative phase but are out-competed by capeweed. <i>Crop and Pasture Science</i> , <b>2011</b> , 62, 236	2.2	5
30	Climate change indirectly reduces breeding frequency of a mobile species through changes in food availability. <i>Ecosphere</i> , <b>2019</b> , 10, e02656	3.1	4
29	Assessment of management options for <i>Salsola australis</i> in south-west Australia by transition matrix modelling. <i>Weed Research</i> , <b>2009</b> , 49, 400-408	1.9	4
28	Individual tree growth in jarrah ( <i>Eucalyptus marginata</i> ) forest is explained by size and distance of neighbouring trees in thinned and non-thinned plots. <i>Forest Ecology and Management</i> , <b>2021</b> , 494, 119364	2.9	4
27	Pea seed-borne mosaic virus Pathosystem Drivers under Mediterranean-Type Climatic Conditions: Deductions from 23 Epidemic Scenarios. <i>Plant Disease</i> , <b>2017</b> , 101, 929-940	1.5	3
26	Trait-based formal definition of plant functional types and functional communities in the multi-species and multi-traits context. <i>Ecological Complexity</i> , <b>2019</b> , 40, 100787	2.6	3
25	Composition and ecological drivers of the kwongan scrub and woodlands in the northern Swan Coastal Plain, Western Australia. <i>Austral Ecology</i> , <b>2019</b> , 44, 906-916	1.5	3
24	Frequent hydrodynamic disturbances decrease the morphological diversity and structural complexity of 3D simulated coral communities. <i>Coral Reefs</i> , <b>2020</b> , 39, 1147-1161	4.2	3
23	Nestedness patterns reveal impacts of reduced rainfall on seedling establishment in restored jarrah forest. <i>Forest Ecology and Management</i> , <b>2018</b> , 427, 242-249	3.9	3
22	Assessing eradication strategies for rain-splashed and wind-dispersed crop diseases. <i>Pest Management Science</i> , <b>2013</b> , 69, 955-63	4.6	3
21	Comparison of novel and standard methods for analysing patterns of plant death in designed field experiments. <i>Journal of Agricultural Science</i> , <b>2012</b> , 150, 319-334	1	3
20	The inside story <b>2003</b> ,		3
19	Arbuscular mycorrhizal fungus-mediated interspecific nutritional competition of a pasture legume and grass under drought-stress. <i>Rhizosphere</i> , <b>2021</b> , 18, 100349	3.5	3
18	Conservation biology of two endemic <i>Beyeria</i> species (Euphorbiaceae) from southern Western Australia. <i>Australian Journal of Botany</i> , <b>2015</b> , 63, 484	1.2	2



17	Light Extinction in Spring Wheat Canopies in Relation to Crop Configuration and Solar Angle <b>2009</b> ,		2
16	Structure-from-motion reveals coral growth is influenced by colony size and wave energy on the reef slope at Ningaloo Reef, Western Australia. <i>Journal of Experimental Marine Biology and Ecology</i> , <b>2020</b> , 530-531, 151438	2.1	2
15	The role of extreme rain events in driving tree growth across a continental-scale climatic range in Australia. <i>Ecography</i> , <b>2021</b> , 44, 1086	6.5	2
14	Investigating the effect of neighbour competition on individual tree growth in thinned and unthinned eucalypt forests. <i>Forest Ecology and Management</i> , <b>2021</b> , 499, 119637	3.9	2
13	Accounting for spatially heterogeneous conditions in local-scale surveillance strategies: case study of the biosecurity insect pest, grape phylloxera ( <i>Daktulosphaira vitifoliae</i> (Fitch)). <i>Pest Management Science</i> , <b>2018</b> , 74, 2724-2737	4.6	1
12	Interspecific hybridisation in tuart ( <i>Eucalyptus gomphocephala</i> , Myrtaceae): a conservation management issue?. <i>Australian Journal of Botany</i> , <b>2013</b> , 61, 455	1.2	1
11	Simulation of optimal rooting strategies: What's the best way to find a wet crack? <b>2012</b> ,		1
10	Novel reference transcriptomes for the sponges <i>Carteriospongia foliascens</i> and <i>Cliona orientalis</i> and associated algal symbiont <i>Gerakladium endoclonium</i>		1
9	Predicting the effectiveness of community anti-poaching patrols for conserving threatened wildlife in the Lao PDR. <i>Journal of Applied Ecology</i> , <b>2020</b> , 57, 320-330	5.8	1
8	Rotating and stacking genes can improve crop resistance durability while potentially selecting highly virulent pathogen strains. <i>Scientific Reports</i> , <b>2020</b> , 10, 19752	4.9	1
7	Patterns and drivers of structure, diversity, and composition in species-rich shrublands restored after mining. <i>Restoration Ecology</i> , <b>2021</b> , 29, e13360	3.1	1
6	Do an invasive organism's dispersal characteristics affect how we should search for it?. <i>Royal Society Open Science</i> , <b>2018</b> , 5, 171784	3.3	1
5	The influence of environmental drivers and restoration intervention methods on postmine restoration trajectories. <i>Restoration Ecology</i> , e13503	3.1	1
4	Identifying optimal solutions between competing economic and conservation land use objectives for species that require widely distributed resources. <i>Environmental Modelling and Software</i> , <b>2022</b> , 148, 105292	5.2	0
3	Germination characteristics and the relationship between population structure, soil seed bank density and fire response in the rare endemic <i>Stachystemon vinosus</i> (Halford & R.J.F.Hend.) (Euphorbiaceae) from southern Western Australia. <i>Seed Science Research</i> , <b>2019</b> , 29, 124-134	1.3	
2	Does the need to drink influence nest site selection in a wide-ranging threatened cockatoo?. <i>Forest Ecology and Management</i> , <b>2022</b> , 505, 119928	3.9	
1	Creating and Targeting Periodic Orbits <b>1997</b> , 183-196		