## David G Mayer

List of Publications by Year in descending order

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127	3,299	28 h-index	52
papers	citations		g-index
129	129	129	3371 citing authors
all docs	docs citations	times ranked	

#	Article	IF	CITATIONS
1	Combination of Inorganic Nitrogen and Organic Soil Amendment Improves Nitrogen Use Efficiency While Reducing Nitrogen Runoff. Nitrogen, 2022, 3, 58-73.	0.6	4
2	Re-used or New Bedding Are Not Drivers of Salmonella Levels and Serovar Emergence in Commercially Farmed Broilers in Australia. Frontiers in Sustainable Food Systems, 2022, 6, .	1.8	1
3	Spatial Distribution and Flight Patterns of Two Grain Storage Insect Pests, Rhyzopertha dominica (Bostrichidae) and Tribolium castaneum (Tenebrionidae): Implications for Pest Management. Insects, 2020, 11, 715.	1.0	6
4	Maximizing Lucerne (Medicago sativa) Pasture Intake of Dairy Cows: 1-the Effect of Pre-Grazing Pasture Height and Mixed Ration Level. Animals, 2020, 10, 860.	1.0	5
5	Comparative Trap Catches of Male Bactrocera, Dacus, and Zeugodacus Fruit Flies (Diptera: Tephritidae) With Four Floral Phenylbutanoid Lures (Anisyl Acetone, Cue-Lure, Raspberry Ketone, and Zingerone) in Queensland, Australia. Environmental Entomology, 2020, 49, 815-822.	0.7	11
6	Mycoinsecticide formulations of Beauveria bassiana and Metarhizium anisopliae reduce populations of lesser mealworm, Alphitobius diaperinus, in chicken-broiler houses. Biological Control, 2020, 144, 104234.	1.4	6
7	The effect of stage of regrowth on the physical composition and nutritive value of the various vertical strata of kikuyu ( <i>Cenchrus clandestinus</i> ) pastures. Tropical Grasslands - Forrajes Tropicales, 2020, 8, 141-146.	0.1	8
8	Grazing pressure and tree competition affect cattle performance and native pastures in Eucalypt woodlands of Queensland, north-eastern Australia. Animal Production Science, 2020, 60, 953.	0.6	0
9	Methylâ€isoeugenol, a significantly more attractive male lure for the methyl eugenolâ€responsive Pacific fruit fly, <i>Bactrocera xanthodes</i> (Diptera: Tephritidae). Austral Entomology, 2019, 58, 800-804.	0.8	4
10	Comparison between a laser sensor and mechanical tools to estimate pasture mass in strata of kikuyu (Pennisetum clandestinum) pastures. Animal Feed Science and Technology, 2019, 249, 31-36.	1.1	2
11	Improved crop forecasts for the Australian macadamia industry from ensemble models. Agricultural Systems, 2019, 173, 519-523.	3.2	11
12	Isoeugenol, a More Attractive Male Lure for the Cue-Lure-Responsive Pest Fruit Fly Bactrocera curvipennis (Diptera: Tephritidae: Dacinae), and New Records of Species Responding to Zingerone in New Caledonia. Journal of Economic Entomology, 2019, 112, 1502-1507.	0.8	10
13	Hematology and Plasma Biochemistry of Wild Spectacled Flying Foxes (Pteropus conspicillatus) in Australia. Journal of Wildlife Diseases, 2019, 55, 449.	0.3	4
14	Methyl-isoeugenol, a Highly Attractive Male Lure for the Cucurbit Flower Pest Zeugodacus diversus (Coquillett) (syn. Bactrocera diversa) (Diptera: Tephritidae: Dacinae). Journal of Economic Entomology, 2018, 111, 1197-1201.	0.8	14
15	Establishing soil nutrient distribution zones across free range egg farms to guide practical nutrient management strategies. Agriculture, Ecosystems and Environment, 2018, 257, 20-29.	2.5	6
16	Combining Cue-Lure and Methyl Eugenol in Traps Significantly Decreases Catches of Most Bactrocera, Zeugodacus and Dacus Species (Diptera: Tephritidae: Dacinae) in Australia and Papua New Guinea. Journal of Economic Entomology, 2018, 111, 298-303.	0.8	8
17	Local immune response to larvae of <i>Rhipicephalus microplus</i> in Santa Gertrudis cattle. Parasite Immunology, 2018, 40, e12515.	0.7	7
18	Responses of fruit flies (Diptera: Tephritidae) to new attractants in Papua New Guinea. Austral Entomology, 2018, 57, 40-49.	0.8	30

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19	Habitat features influence catch rates of near-shore bull shark (Carcharhinus leucas) in the Queensland Shark Control Program, Australia 1996–2012. Estuarine, Coastal and Shelf Science, 2018, 200, 289-300.	0.9	14
20	HEMATOLOGY, PLASMA BIOCHEMISTRY, AND URINALYSIS OF FREE-RANGING GREY-HEADED FLYING FOXES (PTEROPUS POLIOCEPHALUS) IN AUSTRALIA. Journal of Zoo and Wildlife Medicine, 2018, 49, 591-598.	0.3	6
21	Rainfall and sea surface temperature: key drivers for occurrence of bull shark, Carcharhinus leucas, in beach areas. Global Ecology and Conservation, 2018, 15, e00430.	1.0	15
22	Predicting nuisance fly outbreaks on cattle feedlots in subtropical Australia. Animal Production Science, 2018, 58, 343.	0.6	9
23	Flight activity of Cryptolestes ferrugineus in southern New South Wales, Australia. Journal of Pest Science, 2018, 91, 1353-1362.	1.9	8
24	Prophylactic and therapeutic efficacy of Australianâ€registered insecticide formulations against Old World screwworm ( <i>Chrysomya bezziana</i> ) infestation. Australian Veterinary Journal, 2017, 95, 265-272.	0.5	2
25	PHYSIOLOGIC BIOMARKERS AND HENDRA VIRUS INFECTION IN AUSTRALIAN BLACK FLYING FOXES (PTEROPUS)	Tj FTQq1	1 9.784314
26	Physiological stress and Hendra virus in flying-foxes (Pteropus spp.), Australia. PLoS ONE, 2017, 12, e0182171.	1.1	27
27	Comparison of stocking methods for beef production in northern Australia: seasonal diet quality and composition. Rangeland Journal, 2016, 38, 553.	0.4	8
28	Comparison of the impact of six heat-load management strategies on thermal responses and milk production of feed-pad and pasture fed dairy cows in a subtropical environment. International Journal of Biometeorology, 2016, 60, 1961-1968.	1.3	9
29	Use of short-term breath measures to estimate daily methane production by cattle. Animal, 2016, 10, 25-33.	1.3	36
30	Temporal Variation in Physiological Biomarkers in Black Flying-Foxes (Pteropus alecto), Australia. EcoHealth, 2016, 13, 49-59.	0.9	15
31	Twenty years of Hendra virus: laboratory submission trends and risk factors for infection in horses. Epidemiology and Infection, 2016, 144, 3176-3183.	1.0	10
32	On-farm Campylobacter and Escherichia coli in commercial broiler chickens: Re-used bedding does not influence Campylobacter emergence and levels across sequential farming cycles. Poultry Science, 2016, 95, 1105-1115.	1.5	17
33	Statistical forecasting of the Australian macadamia crop. Acta Horticulturae, 2016, , 265-270.	0.1	1
34	Estimating daily methane production in individual cattle with irregular feed intake patterns from short-term methane emission measurements. Animal, 2015, 9, 1949-1957.	1.3	36
35	Pen parameters for improving the performance of sheep imported from Australia to Persian Gulf feedlots. Small Ruminant Research, 2015, 126, 16-25.	0.6	3
36	Haematology and Plasma Biochemistry of Wild Black Flying-Foxes, (Pteropus alecto) in Queensland, Australia. PLoS ONE, 2015, 10, e0125741.	1.1	24

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37	Flying-Fox Roost Disturbance and Hendra Virus Spillover Risk. PLoS ONE, 2015, 10, e0125881.	1.1	42
38	BeefSpecs fat calculator to assist decision making to increase compliance rates with beef carcass specifications: evaluation of inputs and outputs. Animal Production Science, 2014, 54, 2011.	0.6	5
39	Anthelmintic resistance in ovine gastrointestinal nematodes in inland southern <scp>Q</scp> ueensland. Australian Veterinary Journal, 2014, 92, 415-420.	0.5	13
40	Cattle herd inspections and fly trapping for the detection of the Old World screwâ€worm fly ( <i><scp>C</scp>hrysomya bezziana</i> ). Australian Veterinary Journal, 2014, 92, 28-32.	0.5	7
41	Effects of bycatch reduction devices in Queensland's (Australia) deepwater eastern king prawn (Melicertus plebejus) trawl fishery. Fisheries Research, 2014, 157, 113-123.	0.9	11
42	A comparison of welfare outcomes for weaner and mature Bos indicus bulls surgically or tension band castrated with or without analgesia: 1. Behavioural responses. Applied Animal Behaviour Science, 2014, 157, 23-34.	0.8	21
43	A comparison of welfare outcomes for weaner and mature Bos indicus bulls surgically or tension band castrated with or without analgesia: 2. Responses related to stress, health and productivity. Applied Animal Behaviour Science, 2014, 157, 35-47.	0.8	20
44	Integrating stochasticity into the objective function avoids Monte Carlo computation in the optimisation of beef feedlots. Computers and Electronics in Agriculture, 2013, 91, 30-34.	3.7	5
45	Relative trap efficiency for recreationally caught eastern Australian blue swimmer crab (Portunus) Tj ETQq $1\ 1\ 0.7$	'843]4 rg 0.9	BT <u>/</u> gverlock
46	Damage and physiological stress to juvenile eastern rock lobster (Sagmariasus verreauxi) discarded after trapping and hand collection. Fisheries Research, 2013, 137, 63-70.	0.9	17
47	Evaluation of the impacts of spaying by either the dropped ovary technique or ovariectomy via flank laparotomy on the welfare of Bos indicus beef heifers and cows1. Journal of Animal Science, 2013, 91, 382-394.	0.2	15
48	Giant mud crab (Scylla serrata): relative efficiencies of common baited traps and impacts on discards. ICES Journal of Marine Science, 2012, 69, 1511-1522.	1.2	40
49	Prediction of mortality and conception rates of beef breeding cattle in northern Australia. Animal Production Science, 2012, 52, 329.	0.6	12
50	Declining trends in annual catch rates of the tiger shark (Galeocerdo cuvier) in Queensland, Australia. Fisheries Research, 2012, 129-130, 38-45.	0.9	41
51	Field assessment of synthetic attractants and traps for the Old World screw-worm fly, Chrysomya bezziana. Veterinary Parasitology, 2012, 187, 486-490.	0.7	17
52	Temporal and spatial trends in adult nuisance fly populations at Australian cattle feedlots. Australian Journal of Entomology, 2012, 51, 88-96.	1.1	14
53	Soil carbon stock in the tropical rangelands of Australia: Effects of soil type and grazing pressure, and determination of sampling requirement. Geoderma, 2011, 167-168, 261-273.	2.3	36
54	Investigating confidence intervals generated by zero-inflated count models: Implications for fisheries management. Fisheries Research, 2011, 110, 177-182.	0.9	10

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55	Improving the precision of recreational fishing harvest estimates using two-part conditional general linear models. Fisheries Research, 2011, 110, 408-414.	0.9	11
56	Trends in annual CPUE and evidence of sex and size segregation of Sphyrna lewini: Management implications in coastal waters of northeastern Australia. Fisheries Research, 2011, 110, 472-477.	0.9	13
57	Preliminary investigation of some physiological responses of Bos indicus heifers to surgical spaying. Australian Veterinary Journal, 2011, 89, 131-137.	0.5	13
58	Continuous monitoring of ruminal pH using wireless telemetry. Animal Production Science, 2010, 50, 72.	0.6	16
59	An improved technique for estimating short-term survival of released line-caught fish, and an application comparing barotrauma-relief methods in red emperor (Lutjanus sebae Cuvier 1816). Journal of Experimental Marine Biology and Ecology, 2010, 385, 1-7.	0.7	36
60	Local immune response against larvae of Rhipicephalus (Boophilus) microplus in Bos taurus indicus and Bos taurus taurus cattle. International Journal for Parasitology, 2010, 40, 865-875.	1.3	44
61	Assessing the effects of line capture and barotrauma relief procedures on postâ€release survival of key tropical reef fish species in Australia using recreational tagging clubs. Fisheries Management and Ecology, 2010, 17, 77-88.	1.0	32
62	Morbidity, mortality and body weight gain of surgically spayed, yearling Brahman heifers. Australian Veterinary Journal, 2010, 88, 497-503.	0.5	14
63	Does the Amount of Progesterone in Intravaginal Implants Used to Synchronise Oestrus Affect the Reproductive Performance of Brahman Heifers Artificially Inseminated at a Fixed Time. Reproduction in Domestic Animals, 2010, 45, e392-7.	0.6	7
64	Mortality and blood loss by blue swimmer crabs (Portunus pelagicus) after simulated capture and discarding from gillnets. ICES Journal of Marine Science, 2009, 66, 455-461.	1.2	29
65	Suppression of populations of Australian sheep blowfly, <i>Lucilia cuprina</i> (Wiedemann) (Diptera:) Tj ETQq1 1	Q. <u>7</u> 84314	rggBT /Over
66	Parameter estimation and sensitivity analysis of fat deposition models in beef steers using acslXtreme. Mathematics and Computers in Simulation, 2009, 79, 2701-2712.	2.4	8
67	Effect of changes in hook pattern and size on catch rate, hooking location, injury and bleeding for a number of tropical reef fish species. Fisheries Research, 2008, 91, 203-211.	0.9	19
68	Investigation of movement and factors influencing post-release survival of line-caught coral reef fish using recreational tag-recapture data. Fisheries Research, 2008, 92, 189-195.	0.9	20
69	High subsoil chloride concentrations reduce soil water extraction and crop yield on Vertosols in north-eastern Australia. Australian Journal of Agricultural Research, 2008, 59, 321.	1.5	75
70	Preweaning feed exposure and different feed delivery systems to enhance feed acceptance of sheep. Australian Journal of Experimental Agriculture, 2008, 48, 1040.	1.0	15
71	Water and feed intake responses of sheep to drinking water temperature in hot conditions. Australian Journal of Experimental Agriculture, 2008, 48, 1044.	1.0	17
72	FORECASTING THE AUSTRALIAN MACADAMIA CROP VIA MECHANISTIC AND STATISTICAL CLIMATE MODELS. Acta Horticulturae, 2008, , 165-172.	0.1	2

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73	Effects of freshwater flow on the year-class strength of a non-diadromous estuarine finfish, king threadfin (Polydactylus macrochir), in a dry-tropical estuary. Marine and Freshwater Research, 2008, 59, 157.	0.7	31
74	Optimal Management of Agricultural Systems. Studies in Computational Intelligence, 2008, , 141-163.	0.7	4
75	Effects of Environmental Heat on Conception Rates in Lactating Dairy Cows: Critical Periods of Exposure. Journal of Dairy Science, 2007, 90, 2271-2278.	1.4	115
76	Effects of hooking damage and hook type on post-release survival of sand flathead (Platycephalus) Tj ETQq0 0 0 r	gBT_/Overl	ock 10 Tf 50
77	Annual forecasting of the Australian macadamia crop $\hat{a}\in$ integrating tree census data with statistical climate-adjustment models. Agricultural Systems, 2006, 91, 159-170.	3.2	16
78	Variable growth rates of the tropical estuarine fish barramundi Lates calcarifer (Bloch) under different freshwater flow conditions. Journal of Fish Biology, 2006, 69, 379-391.	0.7	54
79	Freshwater-flow requirements of estuarine fisheries in tropical Australia: a review of the state of knowledge and application of a suggested approach. Marine and Freshwater Research, 2005, 56, 343.	0.7	118
80	A comparison of the relative efficiency of ring, fyke, fence nets and beam trawling for estimating key estuarine fishery populations. Fisheries Research, 2005, 73, 311-321.	0.9	14
81	Differential evolution – an easy and efficient evolutionary algorithm for model optimisation. Agricultural Systems, 2005, 83, 315-328.	3.2	129
82	Does the quantity and timing of fresh water flowing into a dry tropical estuary affect year-class strength of barramundi (Lates calcarifer)?. Marine and Freshwater Research, 2004, 55, 787.	0.7	84
83	Relationship between thirty post-thaw spermatozoal characteristics and the field fertility of 11 high-use Australian dairy Al sires. Animal Reproduction Science, 2004, 81, 47-61.	0.5	39
84	Induction of a new follicular wave in holstein heifers synchronized with norgestomet. Animal Reproduction Science, 2004, 80, 47-57.	0.5	7
85	Scale pattern analysis is preferable to OTC marking of otoliths for differentiating between stocked and wild dusky flathead, Platycephalus fuscus, and sand whiting, Sillago ciliata. Fisheries Management and Ecology, 2003, 10, 163-172.	1.0	14
86	Application of sustainability indicators, soil organic matter and electrical conductivity, to resource management in the northern grains region. Australian Journal of Experimental Agriculture, 2003, 43, 253.	1.0	23
87	Robust parameter settings of evolutionary algorithms for the optimisation of agricultural systems models. Agricultural Systems, 2001, 69, 199-213.	3.2	29
88	Nitrogen and environmental factors influencing macadamia quality. Australian Journal of Experimental Agriculture, 2000, 40, 1145.	1.0	20
89	Possible risk factors on Queensland dairy farms for acaricide resistance in cattle tick (Boophilus) Tj ETQq1 1 0.78	4314 rgBT 0.7	/Qyerlock 1(
90	Estimation of the effects of buffalo fly (Haematobia irritans exigua) on the milk production of dairy cattle based on a meta-analysis of literature data. Medical and Veterinary Entomology, 1999, 13, 372-376.	0.7	33

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91	Extent and economic effect of heat loads on dairy cattle production in Australia. Australian Veterinary Journal, 1999, 77, 804-808.	0.5	39
92	Survival of the fittestâ€"genetic algorithms versus evolution strategies in the optimization of systems models. Agricultural Systems, 1999, 60, 113-122.	3.2	28
93	Performance of genetic algorithms and simulated annealing in the economic optimization of a herd dynamics model. Environment International, 1999, 25, 899-905.	4.8	8
94	Optimizing simulation models of agricultural systems. Annals of Operations Research, 1998, 82, 219-232.	2.6	13
95	Production effects of cattle tick (Boophilus microplus) infestation of high yielding dairy cows. Veterinary Parasitology, 1998, 78, 65-77.	0.7	66
96	Mating competitiveness of irradiated flies for screwworm fly eradication campaigns. Preventive Veterinary Medicine, 1998, 36, 1-9.	0.7	21
97	Effects of Oral Dosing with Calcium Propionate on Total Calcium and Glucose Concentrations in the Plasma of the Cow. Transboundary and Emerging Diseases, 1998, 45, 127-136.	0.6	2
98	Tabu search not an optimal choice for models of agricultural systems. Agricultural Systems, 1998, 58, 243-251.	3.2	15
99	Evaluating the risk of the establishment of screwworm fly in Australia. Australian Veterinary Journal, 1997, 75, 743-745.	0.5	7
100	Use of advanced techniques to optimize a multi-dimensional dairy model. Agricultural Systems, 1996, 50, 239-253.	3.2	32
101	Models for the spatial dispersal of insect pests. Environmetrics, 1995, 6, 497-503.	0.6	5
102	Determination of a Relationship Between Soil Moisture and Screwworm Fly (Diptera: Calliphoridae) Activity. Australian Journal of Entomology, 1995, 34, 1-5.	1.1	4
103	Defining traits for selection using isopopulations of sorghum. Euphytica, 1994, 72, 73-85.	0.6	1
104	Benefit-cost analysis of the use of sterile insect technique to eradicate screwworm fly in the event of an invasion of Australia. Preventive Veterinary Medicine, 1994, 20, 79-98.	0.7	18
105	Economic assessment of preparedness strategies to prevent the introduction or the permanent establishment of screwworm fly in Australia. Preventive Veterinary Medicine, 1994, 20, 99-111.	0.7	10
106	Comparison of the predicted impact of a screwworm fly outbreak in Australia using a growth index model and a lifeâ€cycle model. Medical and Veterinary Entomology, 1994, 8, 281-291.	0.7	18
107	Statistical experiments with simulation modelsâ€"A dairy genetics example. Agricultural Systems, 1994, 45, 203-216.	3.2	5
108	Regression of real-world data on model output: An appropriate overall test of validity. Agricultural Systems, 1994, 45, 93-104.	3.2	90

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109	Statistical validation. Ecological Modelling, 1993, 68, 21-32.	1.2	719
110	Spatial dispersal of exotic pestsâ€"the importance of extreme values. Agricultural Systems, 1993, 43, 133-144.	3.2	11
111	Estimation of Dispersal Distances for Cochliomyia hominivorax (Diptera: Calliphoridae). Environmental Entomology, 1993, 22, 368-374.	0.7	38
112	Adaptation of climex for spatial screwworm fly population dynamics. Mathematics and Computers in Simulation, 1992, 33, 439-444.	2.4	9
113	Sterile insect release method — optimal strategies for eradication of screwworm fly. Mathematics and Computers in Simulation, 1992, 33, 445-450.	2.4	8
114	Productivity of Hereford, highgrade Simmental and Belmont Red beef herds in central Queensland 5. Liveweights and carcass traits of steers. Australian Journal of Experimental Agriculture, 1992, 32, 1017.	1.0	1
115	Modelling export opportunities for the Hong Kong fresh fruit and vegetable market. Agricultural Systems, 1991, 36, 221-230.	3.2	2
116	Efficiency and fractal behaviour of optimisation methods on multiple-optima surfaces. Agricultural Systems, 1991, 36, 315-328.	3.2	10
117	Responses to nitrogen, phosphorus and irrigation by grain sorghum on cracking clay soils in central Queensland. Australian Journal of Experimental Agriculture, 1991, 31, 525.	1.0	8
118	Effects of surface management on the hydrology of a vertisol in semi-arid Australia. Soil and Tillage Research, 1990, 15, 227-245.	2.6	20
119	Spatial and seasonal variation in Demersal Trawl Fauna associated with a Prawn Fishery on the Central Great Barrier Reef, Australia. Marine and Freshwater Research, 1990, 41, 65.	0.7	30
120	FACTORS INFLUENCING THE EFFICIENCY OF INCOMPLETE BLOCK DESIGNS IN SENSORY EVALUATION EXPERIMENTS. Journal of Sensory Studies, 1989, 4, 121-128.	0.8	3
121	Progressive validation of Queensland horticultural crop forecasts. Agricultural Systems, 1989, 29, 179-187.	3.2	1
122	Effects of udder damage and nutritional plane on milk yield, lamb survival and lamb growth of Merinos. Australian Journal of Experimental Agriculture, 1989, 29, 315.	1.0	16
123	Price formation on the Brisbane, Australia, market. Agricultural Systems, 1987, 25, 135-143.	3.2	1
124	Effects of site, climate, cultivar, flushing, and soil and leaf nutrient status on yields of macadamia in south east Queensland. Scientia Horticulturae, 1986, 30, 227-235.	1.7	36
125	Seasonal patterns of macadamia leaf nutrient levels in south east Queensland. Scientia Horticulturae, 1986, 30, 63-71.	1.7	19
126	A method for forecasting market supplies in horticulture. Agricultural Systems, 1986, 22, 215-229.	3.2	2

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127	Simulation of small systems using microcomputers. Mathematics and Computers in Simulation, 1985, 27, 207-210.	2.4	1