Michael D Cramer

List of Publications by Year
in descending order

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110	6,405	94433 37	71685 76
papers	citations	h-index	g-index

114	114	114	7565
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Root Structure and Functioning for Efficient Acquisition of Phosphorus: Matching Morphological and Physiological Traits. Annals of Botany, 2006, 98, 693-713.	2.9	1,012
2	Root Nitrogen Acquisition and Assimilation. Plant and Soil, 2005, 274, 1-36.	3.7	509
3	Ecological interpretations of nitrogen isotope ratios of terrestrial plants and soils. Plant and Soil, 2015, 396, 1-26.	3.7	424
4	The importance of nutritional regulation of plant water flux. Oecologia, 2009, 161, 15-24.	2.0	268
5	Sink strength regulates photosynthesis in sugarcane. New Phytologist, 2006, 171, 759-770.	7.3	185
6	Soil microbial biomass and the fate of phosphorus during long-term ecosystem development. Plant and Soil, 2013, 367, 225-234.	3.7	176
7	Developmental Physiology of Cluster-Root Carboxylate Synthesis and Exudation in Harsh Hakea. Expression of Phosphoenolpyruvate Carboxylase and the Alternative Oxidase. Plant Physiology, 2004, 135, 549-560.	4.8	160
8	Juggling carbon: allocation patterns of a dominant tree in a fire-prone savanna. Oecologia, 2009, 160, 235-246.	2.0	138
9	Ecophysiological significance of leaf size variation in Proteaceae from the Cape Floristic Region. Functional Ecology, 2010, 24, 485-492.	3.6	138
10	Supply and demand: sink regulation of sugar accumulation in sugarcane. Journal of Experimental Botany, 2009, 60, 357-364.	4.8	129
11	Convergence of soil nitrogen isotopes across global climate gradients. Scientific Reports, 2015, 5, 8280.	3.3	127
12	Specialized 'dauciform' roots of Cyperaceae are structurally distinct, but functionally analogous with 'cluster' roots. Plant, Cell and Environment, 2006, 29, 1989-1999.	5.7	109
13	Nutrient availability moderates transpiration in Ehrharta calycina. New Phytologist, 2008, 179, 1048-1057.	7.3	102
14	Growth of N₂â€fixing African savanna Acacia species is constrained by belowâ€ground competition with grass. Journal of Ecology, 2010, 98, 156-167.	4.0	97
15	Nitrogen regulation of transpiration controls mass-flow acquisition of nutrients. Journal of Experimental Botany, 2014, 65, 159-168.	4.8	94
16	Changes in Photosynthetic Rates and Gene Expression of Leaves during a Sourceâ€“Sink Perturbation in Sugarcane. Annals of Botany, 2008, 101, 89-102.	2.9	88
17	Ecophysiological traits associated with the competitive ability of invasive Australian acacias. Diversity and Distributions, 2011, 17, 898-910.	4.1	88
18	Grass competition induces N2fixation in some species of African Acacia. Journal of Ecology, 2007, 95, 1123-1133.	4.0	87

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19	Topâ€down determinants of niche structure and adaptation among African Acacias. Ecology Letters, 2012, 15, 673-679.	6.4	80
20	Regulation of photosynthesis by sugars in sugarcane leaves. Journal of Plant Physiology, 2008, 165, 1817-1829.	3.5	76
21	PHOTOSYNTHESIS AND SINK ACTIVITY OF WASP-INDUCED GALLS INACACIA PYCNANTHA. Ecology, 2006, 87, 1781-1791.	3.2	72
22	A physiological analogy of the niche for projecting the potential distribution of plants. Journal of Biogeography, 2012, 39, 2132-2145.	3.0	68
23	A physiological mechanism for the formation of root casts. Palaeogeography, Palaeoclimatology, Palaeoecology, 2009, 274, 125-133.	2.3	66
24	The savannaâ€grassland â€˜treelineâ€™: why donâ€™t savanna trees occur in upland grasslands?. Journal of Ecology, 2012, 100, 381-391.	4.0	66
25	Are Namibian â€œFairy Circlesâ€•the Consequence of Self-Organizing Spatial Vegetation Patterning?. PLoS ONE, 2013, 8, e70876.	2.5	65
26	The influence of salinity on the utilization of root anaplerotic carbon and nitrogen metabolism in tomato seedlings. Journal of Experimental Botany, 1995, 46, 1569-1577.	4.8	62
27	Overlap in soil water sources of savanna woody seedlings and grasses. Ecohydrology, 2013, 6, 464-473.	2.4	58
28	Phosphorus toxicity in the Proteaceae: A problem in post-agricultural lands. Scientia Horticulturae, 2008, 117, 357-365.	3.6	56
29	Increasing the utility of genomics in unravelling sucrose accumulation. Field Crops Research, 2005, 92, 149-158.	5.1	55
30	Pan evaporation and wind run decline in the Cape Floristic Region of South Africa (1974â€“2005): implications for vegetation responses to climate change. Climatic Change, 2011, 109, 437-452.	3.6	54
31	Mapping soil organic carbon stocks and trends with satellite-driven high resolution maps over South Africa. Science of the Total Environment, 2021, 771, 145384.	8.0	52
32	Enriched rhizosphere CO2 concentrations can ameliorate the influence of salinity on hydroponically grown tomato plants. Physiologia Plantarum, 1995, 94, 425-432.	5.2	51
33	Does phosphate acquisition constrain legume persistence in the fynbos of the Cape Floristic Region?. Plant and Soil, 2010, 334, 33-46.	3.7	51
34	Phosphate as a limiting resource: introduction. Plant and Soil, 2010, 334, 1-10.	3.7	49
35	Hydraulic redistribution by Protea 'Sylvia' (Proteaceae) facilitates soil water replenishment and water acquisition by an understorey grass and shrub. Functional Plant Biology, 2009, 36, 752.	2.1	47
36	Biological Nitrogen Fixation is not a Major Contributor to the Nitrogen Demand of a Commercially Grown South African Sugarcane Cultivar. Plant and Soil, 2005, 277, 85-96.	3.7	46

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37	Defoliation depletes the carbohydrate reserves of resprouting Acacia saplings in an African savanna. Plant Ecology, 2011, 212, 2047-2055.	1.6	39
38	Implications of historical interactions between herbivory and fire for rangeland management in African savannas. Ecosphere, 2017, 8, e01946.	2.2	38
39	Is leaf pubescence of Cape Proteaceae a xeromorphic or radiation-protective trait?. Australian Journal of Botany, 2012, 60, 104.	0.6	37
40	Are mima-like mounds the consequence of long-term stability of vegetation spatial patterning?. Palaeogeography, Palaeoclimatology, Palaeoecology, 2014, 409, 72-83.	2.3	37
41	The distribution and spatial patterning of mima-like mounds in South Africa suggests genesis through vegetation induced aeolian sediment deposition. Journal of Arid Environments, 2015, 119, 16-26.	2.4	37
42	Cattle donâ€™t care: Animal behaviour is similar regardless of grazing management in grasslands. Agriculture, Ecosystems and Environment, 2019, 272, 175-187.	5.3	37
43	How succulent leaves of Aizoaceae avoid mesophyll conductance limitations of photosynthesis and survive drought. Journal of Experimental Botany, 2013, 64, 5485-5496.	4.8	36
44	The influence of root assimilated inorganic carbon on nitrogen acquisition/assimilation and carbon partitioning. New Phytologist, 2005, 165, 157-169.	7.3	35
45	Belowground competitive suppression of seedling growth by grass in an African savanna. Plant Ecology, 2012, 213, 1655-1666.	1.6	34
46	Hard evidence that heuweltjie earth mounds are relictual features produced by differential erosion. Palaeogeography, Palaeoclimatology, Palaeoecology, 2012, 350-352, 189-197.	2.3	33
47	Root of edaphically controlled Proteaceae turnover on the Agulhas Plain, South Africa: phosphate uptake regulation and growth. Plant, Cell and Environment, 2008, 31, 1825-1833.	5.7	30
48	Culm sucrose accumulation promotes physiological decline of mature leaves in ripening sugarcane. Field Crops Research, 2008, 108, 250-258.	5.1	30
49	Measures of biologically relevant environmental heterogeneity improve prediction of regional plant species richness. Journal of Biogeography, 2017, 44, 579-591.	3.0	29
50	Specialization to Extremely Low-Nutrient Soils Limits the Nutritional Adaptability of Plant Lineages. American Naturalist, 2017, 189, 684-699.	2.1	29
51	Plant ecophysiological diversity. , 2014, , 248-272.		29
52	Correspondence between Î´13C and Î´15N in soils suggests coordinated fractionation processes for soil C and N. Plant and Soil, 2018, 423, 257-271.	3.7	28
53	The effect of supplementation of root zone dissolved inorganic carbon on fruit yield and quality of tomatoes (cv â€˜Daniellaâ€™) grown with salinity. Scientia Horticulturae, 2001, 89, 269-289.	3.6	27
54	Maintenance costs of serotiny do not explain weak serotiny. Austral Ecology, 2009, 34, 653-662.	1.5	27

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55	Savanna tree-grass competition is modified by substrate type and herbivory. Journal of Vegetation Science, 2011, 22, 225-237.	2.2	26
56	Unravelling the limits to tree height: a major role for water and nutrient trade-offs. Oecologia, 2012, 169, 61-72.	2.0	26
57	Nitrogen fertilisation reduces grass-induced N2 fixation of tree seedlings from semi-arid savannas. Plant and Soil, 2013, 365, 307-320.	3.7	26
58	Do hydraulic redistribution and nocturnal transpiration facilitate nutrient acquisition in Aspalathus linearis?. Oecologia, 2014, 175, 1129-1142.	2.0	26
59	Are forestâ€shrubland mosaics of the Cape Floristic Region an example of alternate stable states?. Ecography, 2019, 42, 717-729.	4.5	26
60	Traits related to efficient acquisition and use of phosphorus promote diversification in Proteaceae in phosphorusâ€impoverished landscapes. Plant and Soil, 2021, 462, 67-88.	3.7	26
61	Edaphic properties enable facilitative and competitive interactions resulting in fairy circle formation. Ecography, 2017, 40, 1210-1220.	4.5	24
62	Variation in rootâ€zone CO 2 concentration modifies isotopic fractionation of carbon and nitrogen in tomato seedlings. New Phytologist, 2003, 157, 45-54.	7.3	23
63	Benefits of photosynthesis for insects in galls. Oecologia, 2012, 170, 987-997.	2.0	22
64	Does a tradeoff between trait plasticity and resource conservatism contribute to the maintenance of alternative stable states?. New Phytologist, 2019, 223, 1809-1819.	7.3	22
65	The contribution of fog to water and nutrient supply to Arthraerua leubnitziae in the central Namib Desert, Namibia. Journal of Arid Environments, 2019, 161, 35-46.	2.4	22
66	The Consequences of Precipitation Seasonality for Mediterranean-Ecosystem Vegetation of South Africa. PLoS ONE, 2015, 10, e0144512.	2.5	22
67	The influence of dissolved inorganic carbon in the rhizosphere on carbon and nitrogen metabolism in salinityâ€treated tomato plants. New Phytologist, 1999, 142, 441-450.	7.3	20
68	Why does Dasineura dielsiâ€induced galling of Acacia cyclops not impede vegetative growth?. Journal of Applied Ecology, 2009, 46, 214-222.	4.0	20
69	Is the lack of leguminous savanna trees in grasslands of South Africa related to nutritional constraints?. Plant and Soil, 2010, 336, 173-182.	3.7	20
70	Intraspecific competition between shrubs in a semi-arid savanna. Plant Ecology, 2011, 212, 701-713.	1.6	20
71	Legume seeders of the Cape Floristic Region inhabit more fertile soils than congeneric resproutersâ€”sometimes. Plant Ecology, 2011, 212, 1979-1989.	1.6	20
72	Contrasting Global Patterns of Spatially Periodic Fairy Circles and Regular Insect Nests in Drylands. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 3327-3342.	3.0	19

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73	Physiological changes in white lupin associated with variation in root-zone CO2 concentration and cluster-root P mobilization. Plant, Cell and Environment, 2005, 28, 1203-1217.	5.7	18
74	N and P colimitation of N2-fixing and N-supplied fynbos legumes from the Cape Floristic Region. Plant and Soil, 2013, 373, 217-228.	3.7	18
75	The influence of elevated rhizosphere dissolved inorganic carbon concentrations on respiratory O2 and CO2 flux in tomato roots. Journal of Experimental Botany, 1998, 49, 1977-1985.	4.8	18
76	Atmospheric nutrient deposition to the west coast of South Africa. Atmospheric Environment, 2013, 81, 625-632.	4.1	16
77	Environmental correlates of biomeâ€level floristic turnover in South Africa. Journal of Biogeography, 2017, 44, 1745-1757.	3.0	16
78	Title is missing!. Plant and Soil, 2000, 221, 5-11.	3.7	15
79	N-fertilization does not alleviate grass competition induced reduction of growth of African savanna species. Plant and Soil, 2013, 366, 563-574.	3.7	15
80	Biome boundary maintained by intense belowground resource competition in worldâ€™s thinnest-rooted plant community. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	15
81	Elevated root zone dissolved inorganic carbon can ameliorate aluminium toxicity in tomato seedlings. New Phytologist, 2001, 152, 29-39.	7.3	14
82	Putting back what we take out, but how much?. Scientia Horticulturae, 2007, 111, 378-388.	3.6	14
83	Differentiation of the biogeochemical niches of legumes and non-legumes in the Cape Floristic Region of South Africa. Plant Ecology, 2015, 216, 1583-1595.	1.6	14
84	New regionally modelled soil layers improve prediction of vegetation type relative to that based on global soil models. Diversity and Distributions, 2019, 25, 1736-1750.	4.1	14
85	Rotational grazing management has little effect on remotely-sensed vegetation characteristics across farm fence-line contrasts. Agriculture, Ecosystems and Environment, 2019, 282, 40-48.	5.3	14
86	Global application of an unoccupied aerial vehicle photogrammetry protocol for predicting aboveground biomass in nonâ€forest ecosystems. Remote Sensing in Ecology and Conservation, 2022, 8, 57-71.	4.3	13
87	The present and likely past climatic distribution of the termite Microhodotermes viator in relation to the distribution of heuweltjies. Journal of Arid Environments, 2017, 146, 35-43.	2.4	12
88	Do the gas exchange characteristics of alien acacias enable them to successfully invade the fynbos?. South African Journal of Botany, 1999, 65, 232-238.	2.5	11
89	The Contribution of Occult Precipitation to Nutrient Deposition on the West Coast of South Africa. PLoS ONE, 2015, 10, e0126225.	2.5	9
90	Ecophysiological traits of invasive alien Acacia cyclops compared to coâ€occuring native species in Strandveld vegetation of the Cape Floristic Region. Austral Ecology, 2020, 45, 48-59.	1.5	9

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91	Faunal input at host plants: Can camel thorn trees use nutrients imported by resident sociable weavers?. Ecology and Evolution, 2020, 10, 11643-11656.	1.9	9
92	Root respiratory quotient and nitrate uptake in hydroponically grown non-mycorrhizal and mycorrhizal wheat. Mycorrhiza, 1999, 9, 57-60.	2.8	8
93	Does defoliation frequency and severity influence plant productivity? The role of grazing management and soil nutrients. African Journal of Range and Forage Science, 2021, 38, 141-156.	1.4	8
94	Causes of leaf-tip scorch in the cultivated Protea hybrid â€˜Sylviaâ€™. Scientia Horticulturae, 2004, 103, 65-77.	3.6	6
95	Does the Prostrate-leaved Geophyte Brunsvigia orientalis Utilize Soil-derived CO2 for Photosynthesis?. Annals of Botany, 2007, 99, 835-844.	2.9	6
96	The roles of climate and soil nutrients in shaping the life histories of grasses native to the Cape Floristic Region. Plant and Soil, 2012, 355, 323-340.	3.7	6
97	Competitive resistance of a native shrubland to invasion by the alien invasive tree species, Acacia cyclops. Biological Invasions, 2015, 17, 3563-3577.	2.4	6
98	Evidence for aeolian origins of heuweltjies from buried gravel layers. South African Journal of Science, 2016, 112, 10.	0.7	6
99	Environmental heterogeneity explains contrasting plant species richness between the South African Cape and southwestern Australia. Journal of Biogeography, 2021, 48, 1875-1888.	3.0	6
100	Reduction, assimilation and transport of N in normal and gibberellin-deficient tomato plants. Physiologia Plantarum, 1995, 95, 347-354.	5.2	6
101	Demographic Bottlenecks and Savanna Tree Abundance. , 2017, , 161-188.		5
102	Does irrigation influence the growth, yield and water use efficiency of the protea hybrid â€˜Sylviaâ€™ (Protea susannae X Protea eximia)?. South African Journal of Botany, 2003, 69, 135-143.	2.5	4
103	Fairy circles in Namibia are assembled from genetically distinct grasses. Communications Biology, 2020, 3, 698.	4.4	3
104	The role of shade in maintaining alternative stable states between openâ€•and closedâ€•canopy vegetation. Journal of Ecology, 2021, 109, 3835-3848.	4.0	3
105	Plant specialisation may limit climateâ€induced vegetation change to within topographic and edaphic niches on a subâ€Antarctic island. Functional Ecology, 2022, 36, 2636-2648.	3.6	3
106	Assessing the evidence for aeolian origins of mima-like mounds in South Africa. Catena, 2022, 212, 106041.	5.0	2
107	The role of N efflux and root abscission in determining plant Î´ 15 N. Plant and Soil, 2017, 416, 551-563.	3.7	1
108	Quantifying N-loss by root abscission: consequences for wheat N budgets and Î´15N values. Journal of Plant Physiology, 2018, 231, 49-56.	3.5	1

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109	Generalist indigenous herbivores resist alien tree invasion: Rhabdomys pumilio limits establishment of Acacia cyclops. Biological Invasions, 0, , 1.	2.4	1
110	Causes of landscape mega-ripples: The kommetjies of South Africa. Geoderma, 2019, 340, 25-37.	5.1	0