

Marnie E Light

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55
papers

2,628
citations

24
h-index

51
g-index

76
ext. papers

2,879
ext. citations

3.4
avg, IF

4.84
L-index

#	Paper	IF	Citations
55	Alternating temperatures increase germination and emergence in relation to endogenous hormones and enzyme activities in aubergine seeds. <i>South African Journal of Botany</i> , 2021 , 139, 130-139 ^{2.9}		6
54	An irrigation control system with a web-based interface for the management of Eucalyptus planting stock in a nursery. <i>Southern Forests</i> , 2019 , 81, 31-37	0.6	
53	More butenolides from plant-derived smoke with germination inhibitory activity against karrikinolide. <i>South African Journal of Botany</i> , 2018 , 115, 256-263	2.9	14
52	A comparison of the cost-effectiveness of different eucalypt cut-stump control management options to reduce competition from coppice regrowth during stand establishment in Mpumalanga, South Africa. <i>Southern Forests</i> , 2018 , 80, 261-268	0.6	1
51	Genotoxicity studies on plant growth promoting smoke-water and smoke-derived compounds using <i>Vicia faba</i> and <i>Persea americana</i> S10 metabolic activation. <i>South African Journal of Botany</i> , 2018 , 115, 269-275	2.9	2
50	Structure-activity relationships of N- and S-analogs of the seed germination inhibitor (3,4,5-trimethylfuran-2(5H)-one) for mode of action elucidation. <i>Plant Growth Regulation</i> , 2017 , 82, 47-53 ^{3.2}		4
49	The use of glyphosate for the management of secondary coppice regrowth in a <i>Eucalyptus grandis</i> [E. urophylla] coppice stand in Zululand, South Africa. <i>Southern Forests</i> , 2016 , 78, 217-223	0.6	3
48	Fire-related cues and the germination of eight <i>Conostylis</i> (Haemodoraceae) taxa, when freshly collected, after burial and after laboratory storage. <i>Seed Science Research</i> , 2015 , 25, 286-298	1.3	16
47	Genotoxicity testing of 3,4,5-trimethylfuran-2(5H)-one, a compound from plant-derived smoke with germination inhibitory activity. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2015 , 778, 1-5	3	7
46	Do fire-related cues, including smoke-water, karrikinolide, glyceronitrile and nitrate, stimulate the germination of 17 <i>Anigozanthos</i> taxa and <i>Blancoa canescens</i> (Haemodoraceae)? <i>Australian Journal of Botany</i> , 2014 , 62, 347	1.2	21
45	Effect on nursery and field performance of <i>Pinus patula</i> seedlings after inoculation with <i>Fusarium circinatum</i> . <i>Southern Forests</i> , 2014 , 76, 125-136	0.6	8
44	Structure-activity relationships of analogs of 3,4,5-trimethylfuran-2(5H)-one with germination inhibitory activities. <i>Journal of Plant Physiology</i> , 2013 , 170, 1235-42	3.6	18
43	Comparison of germination responses of <i>Anigozanthos flavidus</i> (Haemodoraceae), <i>Gyrostemon racemiger</i> and <i>Gyrostemon ramulosus</i> (Gyrostemonaceae) to smoke-water and the smoke-derived compounds karrikinolide (KAR1) and glyceronitrile. <i>Annals of Botany</i> , 2013 , 111, 489-97	4.1	28
42	Molecular aspects of the antagonistic interaction of smoke-derived butenolides on the germination process of Grand Rapids lettuce (<i>Lactuca sativa</i>) achenes. <i>New Phytologist</i> , 2012 , 196, 1060-1073	9.8	25
41	Germination activity of smoke residues in soils following a fire. <i>South African Journal of Botany</i> , 2011 , 77, 718-724	2.9	17
40	Plant-derived smoke: Old technology with possibilities for economic applications in agriculture and horticulture. <i>South African Journal of Botany</i> , 2011 , 77, 972-979	2.9	56
39	The fire ephemeral <i>Tersonia cyathiflora</i> (Gyrostemonaceae) germinates in response to smoke but not the butenolide 3-methyl-2H-furo[2,3-c]pyran-2-one. <i>Annals of Botany</i> , 2010 , 106, 381-4	4.1	23

38	Positive effect of smoke-derived butenolide priming on melon seedling emergence and growth. <i>New Zealand Journal of Crop and Horticultural Science</i> , 2010 , 38, 147-155	0.9	10
37	Anti-inflammatory, anticholinesterase, antioxidant and phytochemical properties of medicinal plants used for pain-related ailments in South Africa. <i>Journal of Ethnopharmacology</i> , 2010 , 127, 235-41	5	102
36	In vitro antimicrobial, anthelmintic and cyclooxygenase-inhibitory activities and phytochemical analysis of <i>Leucosidea sericea</i> . <i>Journal of Ethnopharmacology</i> , 2010 , 131, 22-7	5	32
35	Butenolides from plant-derived smoke: natural plant-growth regulators with antagonistic actions on seed germination. <i>Journal of Natural Products</i> , 2010 , 73, 267-9	4.9	74
34	In vitro pharmacological evaluation and phenolic content of ten South African medicinal plants used as anthelmintics. <i>South African Journal of Botany</i> , 2010 , 76, 558-566	2.9	50
33	Transcriptome analysis of germinating maize kernels exposed to smoke-water and the active compound KAR1. <i>BMC Plant Biology</i> , 2010 , 10, 236	5.3	38
32	Improving seedling growth of unaged and aged aubergine seeds with smoke-derived butenolide. <i>Seed Science and Technology</i> , 2009 , 37, 255-260	0.6	6
31	Smoke-water-induced changes of expression pattern in Grand Rapids lettuce achenes. <i>Seed Science Research</i> , 2009 , 19, 37-49	1.3	21
30	Smoke-derived butenolide: Towards understanding its biological effects. <i>South African Journal of Botany</i> , 2009 , 75, 1-7	2.9	91
29	Stress-related genes define essential steps in the response of maize seedlings to smoke-water. <i>Functional and Integrative Genomics</i> , 2009 , 9, 231-42	3.8	22
28	Antibacterial activity of hairy-root cultures of <i>Maytenus senegalensis</i> . <i>South African Journal of Botany</i> , 2008 , 74, 163-166	2.9	12
27	COX-1 inhibition of <i>Heteromorpha arborescens</i> . <i>South African Journal of Botany</i> , 2008 , 74, 335-337	2.9	5
26	South Africa's Botanical gold mine—threats and prospects. <i>Transactions of the Royal Society of South Africa</i> , 2008 , 63, 85-90	1	1
25	Limitations of using Differential Display RT-PCR in the chase for smoke-related genes. <i>Acta Agronomica Hungarica: an International Multidisciplinary Journal in Agricultural Science</i> , 2008 , 56, 435-441		
24	Monosaccharides promote flowering in <i>Kniphofia leucocephala</i> in vitro. <i>Plant Growth Regulation</i> , 2007 , 52, 73-79	3.2	2
23	The polyacetylene falcarindiol with COX-1 activity isolated from <i>Aegopodium podagraria</i> L. <i>Journal of Ethnopharmacology</i> , 2007 , 113, 176-8	5	23
22	Post-germination effects of the smoke-derived compound 3-methyl-2H-furo[2,3-c]pyran-2-one, and its potential as a preconditioning agent. <i>Field Crops Research</i> , 2006 , 98, 98-105	5.5	92
21	Genetic toxicity testing of 3-methyl-2H-furo[2,3-c]pyran-2-one, an important biologically active compound from plant-derived smoke. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2006 , 611, 89-95	3	22

20	Stimulation of Rice (<i>Oryza sativa</i> L.) Seedling Vigour by Smoke-water and Butenolide. <i>Journal of Agronomy and Crop Science</i> , 2006 , 192, 395-398	3.9	61
19	Regulation of <i>Avena Fatua</i> Seed Germination by Smoke Solutions, Gibberellin A3 and Ethylene. <i>Plant Growth Regulation</i> , 2006 , 49, 9-16	3.2	23
18	Formation of a seed germination promoter from carbohydrates and amino acids. <i>Journal of Agricultural and Food Chemistry</i> , 2005 , 53, 5936-42	5.7	24
17	Phytochemical and pharmacological screening of Sterculiaceae species and isolation of antibacterial compounds. <i>Journal of Ethnopharmacology</i> , 2005 , 97, 285-91	5	32
16	Seeking a transdisciplinary and culturally germane science: The future of ethnopharmacology. <i>Journal of Ethnopharmacology</i> , 2005 , 100, 23-6	5	60
15	Riding the wave: South Africa's contribution to ethnopharmacological research over the last 25 years. <i>Journal of Ethnopharmacology</i> , 2005 , 100, 127-30	5	45
14	Improving seedling vigour of indigenous medicinal plants with smoke. <i>Bioresource Technology</i> , 2005 , 96, 1323-30	11	74
13	In vitro flowering of <i>Kniphofia leucocephala</i> : influence of cytokinins. <i>Plant Cell, Tissue and Organ Culture</i> , 2005 , 83, 327-333	2.7	26
12	The potential of smoke in seed technology. <i>South African Journal of Botany</i> , 2004 , 70, 97-101	2.9	64
11	Isolation of the major germination cue from plant-derived smoke. <i>South African Journal of Botany</i> , 2004 , 70, 654-659	2.9	203
10	Biological activities and distribution of plant saponins. <i>Journal of Ethnopharmacology</i> , 2004 , 94, 219-43	5	870
9	Assessing African medicinal plants for efficacy and safety: agricultural and storage practices. <i>Journal of Ethnopharmacology</i> , 2004 , 95, 113-21	5	77
8	Potential medicinal value of some South African seaweeds. <i>South African Journal of Botany</i> , 2003 , 69, 462-468	2.9	2
7	The nitric oxide specific scavenger carboxy-PTIO does not inhibit smoke stimulated germination of Grand Rapids lettuce seeds. <i>South African Journal of Botany</i> , 2003 , 69, 217-219	2.9	13
6	Dual regulation of seed germination by smoke solutions. <i>Plant Growth Regulation</i> , 2002 , 37, 135-141	3.2	51
5	Antibacterial activity and isolation of active compounds from fruit of the traditional African medicinal tree <i>Kigelia africana</i> . <i>South African Journal of Botany</i> , 2002 , 68, 220-222	2.9	41
4	Investigation of the biological activities of <i>Siphonochilus aethiopicus</i> and the effect of seasonal senescence. <i>South African Journal of Botany</i> , 2002 , 68, 55-61	2.9	12
3	Screening of <i>Cenchrus ciliaris</i> L. for biological activity. <i>South African Journal of Botany</i> , 2002 , 68, 411-413	2.9	6

2	Does smoke substitute for red light in the germination of light-sensitive lettuce seeds by affecting gibberellin metabolism?. <i>South African Journal of Botany</i> , 2001 , 67, 636-640	2.9	34
1	Effects of source of plant material and temperature on the production of smoke extracts that promote germination of light-sensitive lettuce seeds. <i>Environmental and Experimental Botany</i> , 1996 , 36, 421-429	5.9	57