

Kevin S Powell

List of Publications by Year in descending order

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89
papers

2,890
citations

236925

25
h-index

175258

52
g-index

89
all docs

89
docs citations

89
times ranked

1876
citing authors

#	ARTICLE	IF	CITATIONS
1	Expression of snowdrop lectin (GNA) in transgenic rice plants confers resistance to rice brown planthopper. <i>Plant Journal</i> , 1998, 15, 469-477.	5.7	299
2	Expression of snowdrop lectin in transgenic tobacco plants results in added protection against aphids. <i>Transgenic Research</i> , 1995, 4, 18-25.	2.4	256
3	The ecology of <i>Bactrocera tryoni</i> (Diptera: Tephritidae): what do we know to assist pest management?. <i>Annals of Applied Biology</i> , 2011, 158, 26-54.	2.5	184
4	Immunohistochemical and developmental studies to elucidate the mechanism of action of the snowdrop lectin on the rice brown planthopper, <i>Nilaparvata lugens</i> (Stal).. <i>Journal of Insect Physiology</i> , 1998, 44, 529-539.	2.0	172
5	Antimetabolic effects of plant lectins and plant and fungal enzymes on the nymphal stages of two important rice pests, <i>Nilaparvata lugens</i> and <i>Nephotettix cinctipes</i> . <i>Entomologia Experimentalis Et Applicata</i> , 1993, 66, 119-126.	1.4	157
6	Transgenic potato plants with enhanced resistance to the peachâ€”potato aphid <i>Myzus persicae</i> . <i>Entomologia Experimentalis Et Applicata</i> , 1996, 79, 295-307.	1.4	157
7	A Novel Methodology for Improving Plant Pest Surveillance in Vineyards and Crops Using UAV-Based Hyperspectral and Spatial Data. <i>Sensors</i> , 2018, 18, 260.	3.8	139
8	Use of the rice sucrose synthase-1 promoter to direct phloem-specific expression of Î²-glucuronidase and snowdrop lectin genes in transgenic tobacco plants. <i>Journal of Experimental Botany</i> , 1994, 45, 623-631.	4.8	105
9	Antifeedant effects of plant lectins and an enzyme on the adult stage of the rice brown planthopper, <i>Nilaparvata lugens</i> . <i>Entomologia Experimentalis Et Applicata</i> , 1995, 75, 51-59.	1.4	103
10	Different antimetabolic effects of related lectins towards nymphal stages of <i>Nilaparvata lugens</i> . <i>Entomologia Experimentalis Et Applicata</i> , 1995, 75, 61-65.	1.4	80
11	Approaches to insect resistance using transgenic plants. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1993, 342, 279-286.	4.0	66
12	Phylloxera-infested grapevines have reduced chlorophyll and increased photoprotective pigment content â€” can leaf pigment composition aid pest detection?. <i>Functional Plant Biology</i> , 2006, 33, 507.	2.1	66
13	Antimetabolic effects of plant lectins towards nymphal stages of the planthoppers <i>Tarophagous proserpina</i> and <i>Nilaparvata lugens</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2001, 99, 71-78.	1.4	58
14	Virus infection mediates the effects of elevated CO2 on plants and vectors. <i>Scientific Reports</i> , 2016, 6, 22785.	3.3	52
15	A method of wavelength selection and spectral discrimination of hyperspectral reflectance spectrometry. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2006, 44, 1986-1994.	6.3	48
16	Comparison of PROSPECT and HPLC estimates of leaf chlorophyll contents in a grapevine stress study. <i>International Journal of Remote Sensing</i> , 2006, 27, 817-823.	2.9	46
17	Grape phylloxera (<i>Daktulosphaira vitifoliae</i>) â€” a review ofÂ potential detection and alternative management options. <i>Annals of Applied Biology</i> , 2012, 161, 91-115.	2.5	44
18	Feeding Behavior of <i>Diaphorina citri</i> (Hemiptera: Liviidae) and Its Acquisition of â€” <i>Candidatus</i> <i>Liberibacter Asiaticus</i> â€™, on Huanglongbing-Infected <i>Citrus reticulata</i> Leaves of Several Maturity Stages. <i>Florida Entomologist</i> , 2015, 98, 186-192.	0.5	42

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19	The Biology, Physiology and Host-Plant Interactions of Grape Phylloxera <i>Daktulosphaira vitifoliae</i> . <i>Advances in Insect Physiology</i> , 2013, , 159-218.	2.7	41
20	Yield decline of sweet potato in the humid lowlands of Papua New Guinea. <i>Agriculture, Ecosystems and Environment</i> , 2000, 79, 259-269.	5.3	40
21	Insect-resistant transgenic plants: choosing the gene to do the "job". <i>Biochemical Society Transactions</i> , 1994, 22, 944-949.	3.4	38
22	EPG monitoring of the probing behaviour of the common brown leafhopper <i>Orosius orientalis</i> on artificial diet and selected host plants. <i>Arthropod-Plant Interactions</i> , 2012, 6, 405-415.	1.1	35
23	Consequences of Transferring Three Sorghum Genes for Secondary Metabolite (Cyanogenic) Tj ETQq1 1 0.784314 μ gBT /Overlock 10 μ gBT	2.4	33
24	Genetic identification of SNP markers linked to a new grape phylloxera resistant locus in <i>Vitis cinerea</i> for marker-assisted selection. <i>BMC Plant Biology</i> , 2018, 18, 360.	3.6	28
25	Scientific Opinion: Improving the Definition of Grape Phylloxera Biotypes and Standardizing Biotype Screening Protocols. <i>American Journal of Enology and Viticulture</i> , 2016, 67, 371-376.	1.7	27
26	Production and purification of active snowdrop lectin in <i>Escherichia coli</i> . <i>FEBS Journal</i> , 1998, 252, 59-65.	0.2	26
27	Risk mapping of redheaded cockchafer (<i>Adoryphorus couloni</i>) (Burmeister) infestations using a combination of novel k-means clustering and on-the-go plant and soil sensing technologies. <i>Precision Agriculture</i> , 2016, 17, 1-17.	6.0	23
28	The effect of elevated CO ₂ and virus infection on the primary metabolism of wheat. <i>Functional Plant Biology</i> , 2016, 43, 892.	2.1	22
29	Occurrence and diversity of entomopathogenic fungi (<i>Beauveria</i> spp. and <i>Metarhizium</i> spp.) in Australian vineyard soils. <i>Journal of Invertebrate Pathology</i> , 2019, 164, 69-77.	3.2	21
30	Changes in Grape Phylloxera Abundance in Ungrafted Vineyards. <i>Journal of Economic Entomology</i> , 2006, 99, 1774-1783.	1.8	20
31	THE USE OF DNA MARKERS FOR PEST MANAGEMENT - CLONAL LINEAGES AND POPULATION BIOLOGY OF GRAPE PHYLLOXERA. <i>Acta Horticulturae</i> , 2007, , 183-195.	0.2	20
32	Vectors and alternative hosts of <i>Tobacco yellow dwarf virus</i> in southeastern Australia. <i>Annals of Applied Biology</i> , 2010, 157, 13-24.	2.5	20
33	Incursion preparedness: anticipating the arrival of an economically important plant pathogen <i>Xylella fastidiosa</i> Wells (Proteobacteria: Xanthomonadaceae) and the insect vector <i>Homalodisca vitripennis</i> (Germar) (Hemiptera: Cicadellidae) in Australia. <i>Australian Journal of Entomology</i> , 2012, 51, 209-220.	1.1	19
34	A Review of Perennial Ryegrass Endophytes and Their Potential Use in the Management of African Black Beetle in Perennial Grazing Systems in Australia. <i>Frontiers in Plant Science</i> , 2017, 8, 3.	3.6	19
35	Anti-metabolic effects of <i>Galanthus nivalis</i> agglutinin and wheat germ agglutinin on nymphal stages of the common brown leafhopper using a novel artificial diet system. <i>Entomologia Experimentalis Et Applicata</i> , 2009, 131, 99-105.	1.4	18
36	INFLUENCE OF SOIL TYPE AND CLIMATE ON THE POPULATION DYNAMICS OF GRAPEVINE PHYLLOXERA IN AUSTRALIA. <i>Acta Horticulturae</i> , 2003, , 33-41.	0.2	16

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37	Developing and Testing a Diagnostic Probe for Grape Phylloxera Applicable to Soil Samples. <i>Journal of Economic Entomology</i> , 2008, 101, 1934-1943.	1.8	16
38	Towards a global DNA barcode reference library for quarantine identifications of lepidopteran stemborers, with an emphasis on sugarcane pests. <i>Scientific Reports</i> , 2019, 9, 7039.	3.3	16
39	A Holistic Approach to Future Management of Grapevine Phylloxera. , 2012, , 219-251.		15
40	Assaying the potential benefits of thiamethoxam and imidacloprid for phylloxera suppression and improvements to grapevine vigour. <i>Crop Protection</i> , 2008, 27, 1229-1236.	2.1	14
41	Clone lineages of grape phylloxera differ in their performance on <i>Vitis vinifera</i> . <i>Bulletin of Entomological Research</i> , 2010, 100, 671-678.	1.0	14
42	Influence of temperature and humidity on mortality of grapevine phylloxera <i>Daktulosphaira vitifoliae</i> clonal lineages: a scientific validation of a disinfestation procedure for viticultural machinery. <i>Australian Journal of Grape and Wine Research</i> , 2012, 18, 43-47.	2.1	13
43	Effect of sodium hypochlorite on first instar phylloxera (<i>Daktulosphaira vitifoliae</i> Fitch) mortality. <i>Australian Journal of Grape and Wine Research</i> , 2003, 9, 107-109.	2.1	12
44	MONITORING GRAPE PHYLLOXERA POPULATIONS USING SIMPLE NON-DESTRUCTIVE TRAPPING SYSTEMS. <i>Acta Horticulturae</i> , 2009, , 29-34.	0.2	11
45	Diversity of Cicadellidae in agricultural production areas in the Ovens Valley, north-east Victoria, Australia. <i>Australian Journal of Entomology</i> , 2010, 49, 213-220.	1.1	11
46	RELATIONSHIPS BETWEEN GRAPE PHYLLOXERA ABUNDANCE, FUNGAL INTERACTIONS AND GRAPEVINE DECLINE. <i>Acta Horticulturae</i> , 2007, , 151-157.	0.2	10
47	DETECTION OF PHYLLOXERA INFESTATION IN GRAPEVINES BY NMR METHODS. <i>Acta Horticulturae</i> , 2007, , 173-181.	0.2	10
48	SCREENING FOR ROOTSTOCK RESISTANCE TO GRAPEVINE PHYLLOXERA GENOTYPES FROM AUSTRALIAN VINEYARDS UNDER CONTROLLED CONDITIONS. <i>Acta Horticulturae</i> , 2007, , 159-166.	0.2	10
49	Influence of composted green waste on the population dynamics and dispersal of grapevine phylloxera <i>Daktulosphaira vitifoliae</i> . <i>Agriculture, Ecosystems and Environment</i> , 2007, 119, 33-38.	5.3	10
50	NEW HYBRID ROOTSTOCK RESISTANCE SCREENING FOR PHYLLOXERA UNDER LABORATORY CONDITIONS. <i>Acta Horticulturae</i> , 2011, , 53-58.	0.2	10
51	CHARACTERISING THE ROOT-FEEDING HABITS OF GRAPE PHYLLOXERA USING ELECTRICAL PENETRATION GRAPH. <i>Acta Horticulturae</i> , 2007, , 33-46.	0.2	10
52	TOWARDS IMPROVED EARLY DETECTION OF GRAPEVINE PHYLLOXERA (<i>DAKTULOSPHEIRA VITIFOLIAE</i> FITCH) USING A RISK-BASED ASSESSMENT. <i>Acta Horticulturae</i> , 2011, , 123-131.	0.2	9
53	EARLY DETECTION OF GRAPE PHYLLOXERA (<i>DAKTULOSPHEIRA VITIFOLIAE</i> FITCH) INFESTATION THROUGH IDENTIFICATION OF CHEMICAL BIOMARKERS. <i>Acta Horticulturae</i> , 2011, , 17-24.	0.2	9
54	REDUCING THE RISK OF PHYLLOXERA TRANSFER ON VITICULTURAL WASTE AND MACHINERY. <i>Acta Horticulturae</i> , 2009, , 53-62.	0.2	9

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55	Mortality of grape phylloxera in composting organics. Australian Journal of Grape and Wine Research, 2002, 8, 48-55.	2.1	8
56	ROOTSTOCK-PHYLLOXERA INTERACTIONS UNDER AUSTRALIAN FIELD CONDITIONS. Acta Horticulturae, 2007, , 115-122.	0.2	8
57	Multi and hyperspectral UAV remote sensing: Grapevine phylloxera detection in vineyards. , 2018, , .		8
58	GRAPE PHYLLOXERA EXTERNAL MORPHOLOGY OBSERVATIONS UNDER SCANNING ELECTRON MICROSCOPY. Acta Horticulturae, 2007, , 107-114.	0.2	7
59	Development and feeding effect of frosted scale <i>Parthenolecanium prunosum</i> (Cocquillet) (Hemiptera: Tj ETQq1 1 0.784314 rgBT 21, 451-457.	2.1	7
60	Barley yellow dwarf virus infection and elevated CO ₂ alter the antioxidants ascorbate and glutathione in wheat. Journal of Plant Physiology, 2016, 199, 96-99.	3.5	7
61	Elevated CO ₂ and virus infection impacts wheat and aphid metabolism. Metabolomics, 2018, 14, 133.	3.0	7
62	COMPOSTED WINERY WASTE AND ITS INFLUENCE ON GRAPE PHYLLOXERA IN UNGRAFTED VINEYARDS. Acta Horticulturae, 2007, , 143-149.	0.2	6
63	USING OBJECTIVE BIOPHYSICAL MEASUREMENTS AS THE BASIS OF TARGETED SURVEILLANCE FOR DETECTION OF GRAPEVINE PHYLLOXERA <i>DAKTULOSPHAIRA VITIFOLIAE</i> FITCH: PRELIMINARY FINDINGS. Acta Horticulturae, 2009, , 71-80.	0.2	6
64	GRAPE PHYLLOXERA: NEW INVESTIGATIONS INTO THE BIOLOGY OF AN OLD GRAPEVINE PEST. Acta Horticulturae, 2009, , 63-70.	0.2	6
65	Seasonal activity and abundance of <i>Orosius orientalis</i> (Hemiptera: Cicadellidae) at agricultural sites in Southeastern Australia. Journal of Applied Entomology, 2010, 134, 91-97.	1.8	6
66	Feeding behaviour of <i>Bactericera cockerelli</i> (Aulc) (Hemiptera: Psylloidea: Triozidae) changes when infected with <i>Candidatus Liberibacter solanacearum</i> . Arthropod-Plant Interactions, 2020, 14, 653-669.	1.1	6
67	Spatial trade-offs in the digestive and reproductive systems of grape phylloxera. Australian Journal of Zoology, 2011, 59, 392.	1.0	5
68	ROOTSTOCK SCREENING FOR PHYLLOXERA RESISTANCE UNDER CONTROLLED CONDITIONS USING SELECTED PHYLLOXERA CLONAL LINEAGES. Acta Horticulturae, 2011, , 33-39.	0.2	5
69	Biology and management of the redheaded pasture cockchafer <i>Adoryphorus couloni</i> (Burmeister) (Scarabaeidae: Dynastinae) in Australia: a review of current knowledge. Austral Entomology, 2014, 53, 144-158.	1.4	5
70	Effectiveness of sodium hypochlorite as a disinfestation treatment against genetically diverse strains of grape phylloxera <i>Daktulosphaira vitifoliae</i> Fitch (Hemiptera: Phylloxeridae). Australian Journal of Grape and Wine Research, 2017, 23, 432-440.	2.1	5
71	Changes in Grape Phylloxera Abundance in Ungrafted Vineyards. Journal of Economic Entomology, 2006, 99, 1774-1783.	1.8	5
72	INSIGHTS INTO THE EARLY DETECTION OF GRAPEVINE PHYLLOXERA FROM IN SITU HYPERSPECTRAL DATA. Acta Horticulturae, 2007, , 59-74.	0.2	4

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73	Discovery of three woolly apple aphid <i>Homocidus lanigerum</i> (Homoptera: Pemphigidae) on apple tree resistance. <i>Austral Entomology</i> , 2014, 53, 280-287.	1.0784314	4
74	Transcriptomics Reveal Several Novel Viruses from Canegrubs (Coleoptera: Scarabaeidae) in Central Queensland, Australia. <i>Viruses</i> , 2022, 14, 649.	3.3	4
75	'TAKING THE STRAIN' - SELECTING THE RIGHT ROOTSTOCK TO PROTECT AGAINST ENDEMIC PHYLLOXERA STRAINS. <i>Acta Horticulturae</i> , 2014, , 99-107.	0.2	3
76	<i>Acizzia solanicola</i> (Hemiptera: Psyllidae) probing behaviour on two <i>Solanum</i> spp. and implications for possible pathogen spread. <i>PLoS ONE</i> , 2017, 12, e0178609.	2.5	3
77	PRELIMINARY INVESTIGATIONS OF PIGMENT RESPONSES TO PHYLLOXERA INFESTATION. <i>Acta Horticulturae</i> , 2007, , 123-133.	0.2	2
78	GRAPEVINE LEAF PIGMENT RESPONSE TO ROOT INFESTATION BY PHYLLOXERA. <i>Acta Horticulturae</i> , 2011, , 93-99.	0.2	2
79	THE GRAPE PHYLLOXERA GENOME SEQUENCING PROJECT. <i>Acta Horticulturae</i> , 2014, , 15-19.	0.2	2
80	Host Symptom Expression and Antioxidant Defence Systems of Wheat Infected with Barley Yellow Dwarf Virus and Grown Under Elevated CO ₂ . <i>Procedia Environmental Sciences</i> , 2015, 29, 177-178.	1.4	2
81	Efficacy of steam and hot water disinfestation treatments against genetically diverse strains of grape phylloxera <i>Daktulosphaira vitifoliae</i> Fitch (Hemiptera: Phylloxeridae) on viticulture equipment and machinery. <i>Australian Journal of Grape and Wine Research</i> , 2018, 24, 275-281.	2.1	2
82	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> , 2018, 74, 2724-2737.	3.4	2
83	THE DEVELOPMENT OF A POLYMERASE CHAIN REACTION METHOD FOR THE RAPID IDENTIFICATION OF GRAPE PHYLLOXERA IN VINEYARD SOIL. <i>Acta Horticulturae</i> , 2007, , 75-88.	0.2	1
84	NUCLEAR MAGNETIC RESONANCE METABOLIC PROFILING OF LEAVES FROM VITIS VINIFERA INFESTED WITH ROOT-FEEDING GRAPE PHYLLOXERA (DAKTULOSPFAIRA VITIFOLIAE FITCH) UNDER FIELD CONDITIONS. <i>Acta Horticulturae</i> , 2014, , 59-66.	0.2	1
85	Dry heat as a disinfestation treatment against genetically diverse strains of grape phylloxera. <i>Australian Journal of Grape and Wine Research</i> , 2018, 24, 301-304.	2.1	1
86	Hot water immersion as a disinfestation treatment for grapevine root cuttings against genetically diverse grape phylloxera <i>Daktulosphaira vitifoliae</i> Fitch. <i>Australian Journal of Grape and Wine Research</i> , 2019, 25, 396-403.	2.1	1
87	COMPOSTED GREEN WASTE - ITS INFLUENCE ON GRAPE PHYLLOXERA IN UNGRAFTED VINEYARDS. <i>Acta Horticulturae</i> , 2007, , 135-142.	0.2	0
88	PHYLLOXERA EXTENSION: NATIONAL PHYLLOXERA MANAGEMENT AND IDENTIFICATION WORKSHOPS. <i>Acta Horticulturae</i> , 2011, , 85-92.	0.2	0
89	ROOT-FEEDING GRAPE PHYLLOXERA: APPROACHES FOR IMPROVED DETECTION AND REDUCED QUARANTINE RISK. <i>Acta Horticulturae</i> , 2014, , 37-44.	0.2	0