

Kevin S Powell

List of Publications by Year in descending order

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89
papers

2,890
citations

236925

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175258

52
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89
all docs

89
docs citations

89
times ranked

1876
citing authors

#	ARTICLE	IF	CITATIONS
1	Transcriptomics Reveal Several Novel Viruses from Canegrubs (Coleoptera: Scarabaeidae) in Central Queensland, Australia. <i>Viruses</i> , 2022, 14, 649.	3.3	4
2	Feeding behaviour of <i>Bactericera cockerelli</i> (Åulc) (Hemiptera: Psylloidea: Triozidae) changes when infected with <i>Candidatus Liberibacter solanacearum</i> . <i>Arthropod-Plant Interactions</i> , 2020, 14, 653-669.	1.1	6
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	Elevated CO ₂ and virus infection impacts wheat and aphid metabolism. <i>Metabolomics</i> , 2018, 14, 133.	3.0	7
11	Multi and hyperspectral UAV remote sensing: Grapevine phylloxera detection in vineyards. , 2018, , .		8
12	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
13	Effectiveness of sodium hypochlorite as a disinfestation treatment against genetically diverse strains of grape phylloxera <i>Daktulosphaira vitifoliae</i> Fitch (Hemiptera: Phylloxeridae). <i>Australian Journal of Grape and Wine Research</i> , 2017, 23, 432-440.	2.1	5
14	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
15	<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
16	Virus infection mediates the effects of elevated CO ₂ on plants and vectors. <i>Scientific Reports</i> , 2016, 6, 22785.	3.3	52
17	Barley yellow dwarf virus infection and elevated CO ₂ alter the antioxidants ascorbate and glutathione in wheat. <i>Journal of Plant Physiology</i> , 2016, 199, 96-99.	3.5	7
18	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

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19	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
20	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
21	Development and feeding effect of frosted scale <i>Parthenolecanium prunosum</i> (Hemiptera: Tj ETQq1 1 0.784314 rgBT 2.1 7).	2.1	7
22	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
23	Feeding Behavior of <i>Diaphorina citri</i> (Hemiptera: Liviidae) and Its Acquisition of <i>Candidatus Liberibacter Asiaticus</i> , on Huanglongbing-Infected <i>Citrus reticulata</i> Leaves of Several Maturity Stages. <i>Florida Entomologist</i> , 2015, 98, 186-192.	0.5	42
24	'TAKING THE STRAIN' - SELECTING THE RIGHT ROOTSTOCK TO PROTECT AGAINST ENDEMIC PHYLLOXERA STRAINS. <i>Acta Horticulturae</i> , 2014, , 99-107.	0.2	3
25	Biology and management of the redheaded pasture cockchafer <i>Adoryphorus couloni</i> (Burmeister) (Scarabaeidae: Dynastinae) in Australia: a review of current knowledge. <i>Austral Entomology</i> , 2014, 53, 144-158.	1.4	5
26	Discovery of three woolly apple aphid <i>Trioxys lanigerum</i> (Hemiptera: Tj ETQq0 0 0 rgBT /Overlock 10 1.4 4) tree resistance. <i>Austral Entomology</i> , 2014, 53, 280-287.	1.4	4
27	THE GRAPE PHYLLOXERA GENOME SEQUENCING PROJECT. <i>Acta Horticulturae</i> , 2014, , 15-19.	0.2	2
28	ROOT-FEEDING GRAPE PHYLLOXERA: APPROACHES FOR IMPROVED DETECTION AND REDUCED QUARANTINE RISK. <i>Acta Horticulturae</i> , 2014, , 37-44.	0.2	0
29	NUCLEAR MAGNETIC RESONANCE METABOLIC PROFILING OF LEAVES FROM VITIS VINIFERA INFESTED WITH ROOT-FEEDING GRAPE PHYLLOXERA (<i>DAKTULOSPHEIRA VITIFOLIAE</i> FITCH) UNDER FIELD CONDITIONS. <i>Acta Horticulturae</i> , 2014, , 59-66.	0.2	1
30	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
31	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
32	A Holistic Approach to Future Management of Grapevine Phylloxera. , 2012, , 219-251.		15
33	Influence of temperature and humidity on mortality of grapevine phylloxera <i>Daktulosphaira vitifoliae</i> clonal lineages: a scientific validation of a disinfection procedure for viticultural machinery. <i>Australian Journal of Grape and Wine Research</i> , 2012, 18, 43-47.	2.1	13
34	Grape phylloxera (<i>Daktulosphaira vitifoliae</i>) – a review of potential detection and alternative management options. <i>Annals of Applied Biology</i> , 2012, 161, 91-115.	2.5	44
35	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
36	Spatial trade-offs in the digestive and reproductive systems of grape phylloxera. <i>Australian Journal of Zoology</i> , 2011, 59, 392.	1.0	5

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37	ROOTSTOCK SCREENING FOR PHYLLOXERA RESISTANCE UNDER CONTROLLED CONDITIONS USING SELECTED PHYLLOXERA CLONAL LINEAGES. Acta Horticulturae, 2011, , 33-39.	0.2	5
38	TOWARDS IMPROVED EARLY DETECTION OF GRAPEVINE PHYLLOXERA (DAKTULOSPHEIRA VITIFOLIAE FITCH) USING A RISK-BASED ASSESSMENT. Acta Horticulturae, 2011, , 123-131.	0.2	9
39	EARLY DETECTION OF GRAPE PHYLLOXERA (DAKTULOSPHEIRA VITIFOLIAE FITCH) INFESTATION THROUGH IDENTIFICATION OF CHEMICAL BIOMARKERS. Acta Horticulturae, 2011, , 17-24.	0.2	9
40	NEW HYBRID ROOTSTOCK RESISTANCE SCREENING FOR PHYLLOXERA UNDER LABORATORY CONDITIONS. Acta Horticulturae, 2011, , 53-58.	0.2	10
41	PHYLLOXERA EXTENSION: NATIONAL PHYLLOXERA MANAGEMENT AND IDENTIFICATION WORKSHOPS. Acta Horticulturae, 2011, , 85-92.	0.2	0
42	GRAPEVINE LEAF PIGMENT RESPONSE TO ROOT INFESTATION BY PHYLLOXERA. Acta Horticulturae, 2011, , 93-99.	0.2	2
43	The ecology of <i>Bactrocera tryoni</i> (Diptera: Tephritidae): what do we know to assist pest management?. Annals of Applied Biology, 2011, 158, 26-54.	2.5	184
44	Vectors and alternative hosts of <i>Tobacco yellow dwarf virus</i> in southeastern Australia. Annals of Applied Biology, 2010, 157, 13-24.	2.5	20
45	Diversity of Cicadellidae in agricultural production areas in the Ovens Valley, north-east Victoria, Australia. Australian Journal of Entomology, 2010, 49, 213-220.	1.1	11
46	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
47	Clone lineages of grape phylloxera differ in their performance on <i>Vitis vinifera</i> . Bulletin of Entomological Research, 2010, 100, 671-678.	1.0	14
48	MONITORING GRAPE PHYLLOXERA POPULATIONS USING SIMPLE NON-DESTRUCTIVE TRAPPING SYSTEMS. Acta Horticulturae, 2009, , 29-34.	0.2	11
49	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. Entomologia Experimentalis Et Applicata, 2009, 131, 99-105.	1.4	18
50	USING OBJECTIVE BIOPHYSICAL MEASUREMENTS AS THE BASIS OF TARGETED SURVEILLANCE FOR DETECTION OF GRAPEVINE PHYLLOXERA DAKTULOSPHEIRA VITIFOLIAE FITCH: PRELIMINARY FINDINGS. Acta Horticulturae, 2009, , 71-80.	0.2	6
51	GRAPE PHYLLOXERA: NEW INVESTIGATIONS INTO THE BIOLOGY OF AN OLD GRAPEVINE PEST. Acta Horticulturae, 2009, , 63-70.	0.2	6
52	REDUCING THE RISK OF PHYLLOXERA TRANSFER ON VITICULTURAL WASTE AND MACHINERY. Acta Horticulturae, 2009, , 53-62.	0.2	9
53	Assaying the potential benefits of thiamethoxam and imidacloprid for phylloxera suppression and improvements to grapevine vigour. Crop Protection, 2008, 27, 1229-1236.	2.1	14
54	Developing and Testing a Diagnostic Probe for Grape Phylloxera Applicable to Soil Samples. Journal of Economic Entomology, 2008, 101, 1934-1943.	1.8	16

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55	GRAPE PHYLLOXERA EXTERNAL MORPHOLOGY OBSERVATIONS UNDER SCANNING ELECTRON MICROSCOPY. Acta Horticulturae, 2007, , 107-114.	0.2	7
56	PRELIMINARY INVESTIGATIONS OF PIGMENT RESPONSES TO PHYLLOXERA INFESTATION. Acta Horticulturae, 2007, , 123-133.	0.2	2
57	INSIGHTS INTO THE EARLY DETECTION OF GRAPEVINE PHYLLOXERA FROM IN SITU HYPERSPECTRAL DATA. Acta Horticulturae, 2007, , 59-74.	0.2	4
58	COMPOSTED WINERY WASTE AND ITS INFLUENCE ON GRAPE PHYLLOXERA IN UNGRAFTED VINEYARDS. Acta Horticulturae, 2007, , 143-149.	0.2	6
59	RELATIONSHIPS BETWEEN GRAPE PHYLLOXERA ABUNDANCE, FUNGAL INTERACTIONS AND GRAPEVINE DECLINE. Acta Horticulturae, 2007, , 151-157.	0.2	10
60	THE USE OF DNA MARKERS FOR PEST MANAGEMENT - CLONAL LINEAGES AND POPULATION BIOLOGY OF GRAPE PHYLLOXERA. Acta Horticulturae, 2007, , 183-195.	0.2	20
61	THE DEVELOPMENT OF A POLYMERASE CHAIN REACTION METHOD FOR THE RAPID IDENTIFICATION OF GRAPE PHYLLOXERA IN VINEYARD SOIL. Acta Horticulturae, 2007, , 75-88.	0.2	1
62	ROOTSTOCK-PHYLLOXERA INTERACTIONS UNDER AUSTRALIAN FIELD CONDITIONS. Acta Horticulturae, 2007, , 115-122.	0.2	8
63	DETECTION OF PHYLLOXERA INFESTATION IN GRAPEVINES BY NMR METHODS. Acta Horticulturae, 2007, , 173-181.	0.2	10
64	COMPOSTED GREEN WASTE - ITS INFLUENCE ON GRAPE PHYLLOXERA IN UNGRAFTED VINEYARDS. Acta Horticulturae, 2007, , 135-142.	0.2	0
65	SCREENING FOR ROOTSTOCK RESISTANCE TO GRAPEVINE PHYLLOXERA GENOTYPES FROM AUSTRALIAN VINEYARDS UNDER CONTROLLED CONDITIONS. Acta Horticulturae, 2007, , 159-166.	0.2	10
66	Influence of composted green waste on the population dynamics and dispersal of grapevine phylloxera <i>Daktulosphaira vitifoliae</i> . Agriculture, Ecosystems and Environment, 2007, 119, 33-38.	5.3	10
67	CHARACTERISING THE ROOT-FEEDING HABITS OF GRAPE PHYLLOXERA USING ELECTRICAL PENETRATION GRAPH. Acta Horticulturae, 2007, , 33-46.	0.2	10
68	A method of wavelength selection and spectral discrimination of hyperspectral reflectance spectrometry. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 1986-1994.	6.3	48
69	Comparison of PROSPECT and HPLC estimates of leaf chlorophyll contents in a grapevine stress study. International Journal of Remote Sensing, 2006, 27, 817-823.	2.9	46
70	Changes in Grape Phylloxera Abundance in Ungrafted Vineyards. Journal of Economic Entomology, 2006, 99, 1774-1783.	1.8	20
71	Consequences of Transferring Three Sorghum Genes for Secondary Metabolite (Cyanogenic) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.4	33
72	Phylloxera-infested grapevines have reduced chlorophyll and increased photoprotective pigment content " can leaf pigment composition aid pest detection?. Functional Plant Biology, 2006, 33, 507.	2.1	66

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73	Changes in Grape Phylloxera Abundance in Ungrafted Vineyards. <i>Journal of Economic Entomology</i> , 2006, 99, 1774-1783.	1.8	5
74	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
75	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
76	Mortality of grape phylloxera in composting organics. <i>Australian Journal of Grape and Wine Research</i> , 2002, 8, 48-55.	2.1	8
77	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
78	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
79	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
80	Production and purification of active snowdrop lectin in <i>Escherichia coli</i> . <i>FEBS Journal</i> , 1998, 252, 59-65.	0.2	26
81	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
82	Transgenic potato plants with enhanced resistance to the peach potato aphid <i>Myzus persicae</i> . <i>Entomologia Experimentalis Et Applicata</i> , 1996, 79, 295-307.	1.4	157
83	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
84	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
85	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
86	Use of the rice sucrose synthase-1 promoter to direct phloem-specific expression of β -glucuronidase and snowdrop lectin genes in transgenic tobacco plants. <i>Journal of Experimental Botany</i> , 1994, 45, 623-631.	4.8	105
87	Insect-resistant transgenic plants: choosing the gene to do the "job". <i>Biochemical Society Transactions</i> , 1994, 22, 944-949.	3.4	38
88	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 cinciteps</i> . <i>Entomologia Experimentalis Et Applicata</i> , 1993, 66, 119-126.	1.4	157
89	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