

T G Emyr Davies

List of Publications by Year in descending order

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67
papers

5,643
citations

117625

34
h-index

106344

65
g-index

68
all docs

68
docs citations

68
times ranked

6129
citing authors

#	ARTICLE	IF	CITATIONS
1	Diamide insecticide resistance in transgenic <i>Drosophila</i> and Sf9 cells expressing a full-length diamondback moth ryanodine receptor carrying an I4790M mutation. <i>Pest Management Science</i> , 2022, 78, 869-880.	3.4	9
2	P450 gene duplication and divergence led to the evolution of dual novel functions and insecticide cross-resistance in the brown planthopper <i>Nilaparvata lugens</i> . <i>PLoS Genetics</i> , 2022, 18, e1010279.	3.5	11
3	A toxicogenomics approach reveals characteristics supporting the honey bee (<i>Apis mellifera</i> L.) safety profile of the butenolide insecticide flupyradifurone. <i>Ecotoxicology and Environmental Safety</i> , 2021, 217, 112247.	6.0	30
4	Acute Imidacloprid Exposure Alters Mitochondrial Function in Bumblebee Flight Muscle and Brain. <i>Frontiers in Insect Science</i> , 2021, 1, .	2.1	3
5	Chimeric Investigations into the Diamide Binding Site on the Lepidopteran Ryanodine Receptor. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13033.	4.1	5
6	Investigating the status of pyrethroid resistance in UK populations of the cabbage stem flea beetle (<i>Psylliodes chrysocephala</i>). <i>Crop Protection</i> , 2020, 138, 105316.	2.1	27
7	Fly-Tox: A panel of transgenic flies expressing pest and pollinator cytochrome P450s. <i>Pesticide Biochemistry and Physiology</i> , 2020, 169, 104674.	3.6	15
8	Evolutionary trade-offs of insecticide resistance – The fitness costs associated with target-site mutations in the nAChR of <i>Drosophila melanogaster</i> . <i>Molecular Ecology</i> , 2020, 29, 2661-2675.	3.9	47
9	Assessing the acute toxicity of insecticides to the buff-tailed bumblebee (<i>Bombus terrestris audax</i>). <i>Pesticide Biochemistry and Physiology</i> , 2020, 166, 104562.	3.6	18
10	Diamide resistance: 10 years of lessons from lepidopteran pests. <i>Journal of Pest Science</i> , 2020, 93, 911-928.	3.7	100
11	Do bumblebees have signatures? Demonstrating the existence of a speed-curvature power law in <i>Bombus terrestris</i> locomotion patterns. <i>PLoS ONE</i> , 2020, 15, e0226393.	2.5	5
12	Mutations in the voltage-gated sodium channel gene associated with deltamethrin resistance in commercially sourced <i>Phytoseiulus persimilis</i> . <i>Insect Molecular Biology</i> , 2020, 29, 373-380.	2.0	12
13	The effects of knock-down resistance mutations and alternative splicing on voltage-gated sodium channels in <i>Musca domestica</i> and <i>Drosophila melanogaster</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2020, 122, 103388.	2.7	1
14	Extension of Partial Gene Transcripts by Iterative Mapping of RNA-Seq Raw Reads. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2019, 16, 1036-1041.	3.0	3
15	Identification and functional characterisation of a novel N-cyanoamidine neonicotinoid metabolising cytochrome P450, CYP9Q6, from the buff-tailed bumblebee <i>Bombus terrestris</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2019, 111, 103171.	2.7	39
16	RNA interference-mediated knockdown of voltage-gated sodium channel (MpNetv) gene causes mortality in peach-potato aphid, <i>Myzus persicae</i> . <i>Scientific Reports</i> , 2019, 9, 5291.	3.3	39
17	Genomic insights into neonicotinoid sensitivity in the solitary bee <i>Osmia bicornis</i> . <i>PLoS Genetics</i> , 2019, 15, e1007903.	3.5	68
18	Host plant adaptation in the polyphagous whitefly, <i>Trialeurodes vaporariorum</i> , is associated with transcriptional plasticity and altered sensitivity to insecticides. <i>BMC Genomics</i> , 2019, 20, 996.	2.8	27

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19	An overview of functional genomic tools in deciphering insecticide resistance. <i>Current Opinion in Insect Science</i> , 2018, 27, 103-110.	4.4	33
20	Neofunctionalization of Duplicated P450 Genes Drives the Evolution of Insecticide Resistance in the Brown Planthopper. <i>Current Biology</i> , 2018, 28, 268-274.e5.	3.9	127
21	Unravelling the Molecular Determinants of Bee Sensitivity to Neonicotinoid Insecticides. <i>Current Biology</i> , 2018, 28, 1137-1143.e5.	3.9	234
22	An analysis of variability in genome organisation of intracellular calcium release channels across insect orders. <i>Gene</i> , 2018, 670, 70-86.	2.2	10
23	Rapid selection for resistance to diamide insecticides in <i>Plutella xylostella</i> via specific amino acid polymorphisms in the ryanodine receptor. <i>NeuroToxicology</i> , 2017, 60, 224-233.	3.0	72
24	Influence of the RDL A301S mutation in the brown planthopper <i>Nilaparvata lugens</i> on the activity of phenylpyrazole insecticides. <i>Pesticide Biochemistry and Physiology</i> , 2017, 142, 1-8.	3.6	30
25	Voltage-gated sodium channels as targets for pyrethroid insecticides. <i>European Biophysics Journal</i> , 2017, 46, 675-679.	2.2	116
26	Aphid genomics and its contribution to understanding aphids as crop pests.. , 2017, , 37-49.		3
27	A CRISPR/Cas9 mediated point mutation in the alpha 6 subunit of the nicotinic acetylcholine receptor confers resistance to spinosad in <i>Drosophila melanogaster</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2016, 73, 62-69.	2.7	79
28	Ion channels as insecticide targets. <i>Journal of Neurogenetics</i> , 2016, 30, 163-177.	1.4	84
29	Field-evolved resistance to imidacloprid and ethiprole in populations of brown planthopper <i>Nilaparvata lugens</i> collected from across South and East Asia. <i>Pest Management Science</i> , 2016, 72, 140-149.	3.4	93
30	Novel Mutations in the Voltage-Gated Sodium Channel of Pyrethroid-Resistant <i>Varroa destructor</i> Populations from the Southeastern USA. <i>PLoS ONE</i> , 2016, 11, e0155332.	2.5	74
31	Stable expression and functional characterisation of the diamondback moth ryanodine receptor G4946E variant conferring resistance to diamide insecticides. <i>Scientific Reports</i> , 2015, 5, 14680.	3.3	67
32	An evolutionarily-unique heterodimeric voltage-gated cation channel found in aphids. <i>FEBS Letters</i> , 2015, 589, 598-607.	2.8	21
33	Pest control and resistance management through release of insects carrying a male-selecting transgene. <i>BMC Biology</i> , 2015, 13, 49.	3.8	59
34	Molecular cloning, characterisation and mRNA expression of the ryanodine receptor from the peach-potato aphid, <i>Myzus persicae</i> . <i>Gene</i> , 2015, 556, 106-112.	2.2	9
35	Predictive 3D modelling of the interactions of pyrethroids with the voltage-gated sodium channels of ticks and mites. <i>Pest Management Science</i> , 2014, 70, 369-377.	3.4	41
36	An Amino Acid Substitution (L925V) Associated with Resistance to Pyrethroids in <i>Varroa destructor</i> . <i>PLoS ONE</i> , 2013, 8, e82941.	2.5	67

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37	Resistance to diamide insecticides in diamondback moth, <i>Plutella xylostella</i> (Lepidoptera: Plutellidae) is associated with a mutation in the membrane-spanning domain of the ryanodine receptor. <i>Insect Biochemistry and Molecular Biology</i> , 2012, 42, 873-880.	2.7	255
38	The re-emergence of the bed bug as a nuisance pest: implications of resistance to the pyrethroid insecticides. <i>Medical and Veterinary Entomology</i> , 2012, 26, 241-254.	1.5	149
39	Differential resistance of insect sodium channels with <i>kdr</i> mutations to deltamethrin, permethrin and DDT. <i>Insect Biochemistry and Molecular Biology</i> , 2011, 41, 723-732.	2.7	90
40	Identification of ion channel genes in the <i>Acyrtosiphon pisum</i> genome. <i>Insect Molecular Biology</i> , 2010, 19, 141-153.	2.0	46
41	Genome Sequence of the Pea Aphid <i>Acyrtosiphon pisum</i> . <i>PLoS Biology</i> , 2010, 8, e1000313.	5.6	913
42	Single channel study of deltamethrin interactions with wild-type and mutated rat NaV1.2 sodium channels expressed in <i>Xenopus</i> oocytes. <i>NeuroToxicology</i> , 2009, 30, 358-367.	3.0	9
43	Insecticide Binding to Voltage-gated Sodium Channels. <i>Biophysical Journal</i> , 2009, 96, 14a.	0.5	0
44	Knockdown resistance to DDT and pyrethroids: from target-site mutations to molecular modelling. <i>Pest Management Science</i> , 2008, 64, 1126-1130.	3.4	65
45	Mutations in DIIS5 and the DIIS4-S5 linker of <i>Drosophila melanogaster</i> sodium channel define binding domains for pyrethroids and DDT. <i>FEBS Letters</i> , 2007, 581, 5485-5492.	2.8	105
46	A comparative study of voltage-gated sodium channels in the Insecta: implications for pyrethroid resistance in Anopheline and other Neopteran species. <i>Insect Molecular Biology</i> , 2007, 16, 361-375.	2.0	116
47	DDT, pyrethrins, pyrethroids and insect sodium channels. <i>IUBMB Life</i> , 2007, 59, 151-162.	3.4	476
48	Modelling insecticide-binding sites in the voltage-gated sodium channel. <i>Biochemical Journal</i> , 2006, 396, 255-263.	3.7	248
49	Sensitivity of the <i>Drosophila</i> parasodium channel to DDT is not lowered by the super- <i>kdr</i> mutation M918T on the IIS4-S5 linker that profoundly reduces sensitivity to permethrin and deltamethrin. <i>FEBS Letters</i> , 2005, 579, 6317-6325.	2.8	23
50	Restricted spatial expression of a high-affinity phosphate transporter in potato roots. <i>Journal of Cell Science</i> , 2003, 116, 3135-3144.	2.0	64
51	Expression analysis of putative high-affinity phosphate transporters in Chinese winter wheats. <i>Plant, Cell and Environment</i> , 2002, 25, 1325-1339.	5.7	53
52	Do plants have more genes than humans? Yes, when it comes to ABC proteins. <i>Trends in Plant Science</i> , 2001, 6, 347-348.	8.8	23
53	The <i>Arabidopsis thaliana</i> ABC Protein Superfamily, a Complete Inventory. <i>Journal of Biological Chemistry</i> , 2001, 276, 30231-30244.	3.4	484
54	The <i>Arabidopsis thaliana</i> ATP-binding cassette proteins: an emerging superfamily. <i>Plant, Cell and Environment</i> , 2000, 23, 431-443.	5.7	66

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55	Structural aspects of the effectiveness of bisphosphonates as competitive inhibitors of the plant vacuolar proton-pumping pyrophosphatase. <i>Biochemical Journal</i> , 1999, 337, 373.	3.7	9
56	Detoxification of xenobiotics by plants: chemical modification and vacuolar compartmentation. <i>Trends in Plant Science</i> , 1997, 2, 144-151.	8.8	551
57	Cloning and characterisation of a novel P-glycoprotein homologue from barley. <i>Gene</i> , 1997, 199, 195-202.	2.2	36
58	An analysis of vacuole development in oat aleurone protoplasts. <i>Planta</i> , 1996, 198, 356-364.	3.2	18
59	Leaf Senescence in a Non-Yellowing Mutant of <i>Festuca pratensis</i> . Transcripts and Translation Products. <i>Journal of Plant Physiology</i> , 1992, 139, 403-412.	3.5	31
60	Development of a probenecid-sensitive Lucifer Yellow transport system in vacuolating oat aleurone protoplasts. <i>Journal of Cell Science</i> , 1992, 102, 133-139.	2.0	14
61	Co-ordination of chromophore-apoprotein synthesis in the developing leaf of <i>Avena sativa</i> L. <i>Biochemical Society Transactions</i> , 1990, 18, 499-500.	3.4	1
62	Leaf development in <i>Lolium temulentum</i> : Gradients of RNA complement and plastid and non-plastid transcripts. <i>Physiologia Plantarum</i> , 1990, 79, 331-338.	5.2	46
63	Immunochemical quantification of cytochrome f in leaves of a non-yellowing senescence mutant of <i>Festuca pratensis</i> . <i>Photosynthesis Research</i> , 1990, 24, 99-108.	2.9	12
64	Leaf Development in <i>Lolium temulentum</i> : Formation of the Photosynthetic Apparatus in the Presence of the Porphyrin Synthesis Inhibitor Gabaculine. <i>Journal of Experimental Botany</i> , 1990, 41, 905-917.	4.8	10
65	Leaf Senescence in a Nonyellowing Mutant of <i>Festuca pratensis</i> . <i>Plant Physiology</i> , 1990, 93, 588-595.	4.8	26
66	Leaf development in <i>Lolium temulentum</i> : plastid membrane polypeptides in relation to assembly of the photosynthetic apparatus and leaf growth. <i>Physiologia Plantarum</i> , 1989, 75, 47-54.	5.2	24
67	Catabolism of cytochrome f in a senescence mutant of <i>Festuca pratensis</i> . <i>Biochemical Society Transactions</i> , 1988, 16, 1054-1054.	3.4	2