

# Tim Belien

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

835  
citations

567281

15  
h-index

526287

27  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1102  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cultivar-mediated effects on apple– <i>Dysaphis plantaginea</i> interaction. <i>Journal of Pest Science</i> , 2022, 95, 1303-1315.	3.7	4
2	Mass Trapping <i>Drosophila suzukii</i> , What Would It Take? A Two-Year Field Study on Trap Interference. <i>Insects</i> , 2022, 13, 240.	2.2	4
3	Nesting material, phenology and landscape complexity influence nesting success and parasite infestation of a trap nesting bee. <i>Agriculture, Ecosystems and Environment</i> , 2022, 332, 107951.	5.3	10
4	Optical Identification of Fruitfly Species Based on Their Wingbeats Using Convolutional Neural Networks. <i>Frontiers in Plant Science</i> , 2022, 13, .	3.6	4
5	Towards a Knowledge-Based Decision Support System for Integrated Control of Woolly Apple Aphid, <i>Eriosoma lanigerum</i> , with Maximal Biological Suppression by the Parasitoid <i>Aphelinus mali</i> . <i>Insects</i> , 2021, 12, 479.	2.2	3
6	Identification of Blackberry ( <i>Rubus fruticosus</i> ) Volatiles as <i>Drosophila suzukii</i> Attractants. <i>Insects</i> , 2021, 12, 417.	2.2	5
7	An Advanced One-Step RT-LAMP for Rapid Detection of little cherry virus 2 Combined with HTS-based Phylogenomics Reveal Divergent Flowering Cherry Isolates. <i>Plant Disease</i> , 2021, , .	1.4	3
8	Towards Integrated Pest and Pollinator Management in Intensive Pear Cultivation: A Case Study from Belgium. <i>Insects</i> , 2021, 12, 901.	2.2	11
9	Seasonal changes in odour preferences of spotted wing <i>Drosophila</i> (SWD) and their implications for monitoring. <i>Acta Horticulturae</i> , 2020, , 199-208.	0.2	0
10	Mass trapping with Decisâ„¢ Trap to manage fly control of <i>Rhagoletis cerasi</i> and <i>Drosophila suzukii</i> in IPM cherry orchards. <i>Acta Horticulturae</i> , 2020, , 219-226.	0.2	1
11	Tunnel entries and a killing agent uncover the importance of fly retention in <i>Drosophila suzukii</i> traps. <i>Pest Management Science</i> , 2020, 76, 3459-3468.	3.4	6
12	Marking <i>Drosophila suzukii</i> (Diptera: Drosophilidae) with Fluorescent Dusts. <i>Insects</i> , 2020, 11, 152.	2.2	5
13	Control of <i>Anthonomus</i> spp. weevils in IPM pome fruit orchards. <i>Acta Horticulturae</i> , 2020, , 209-220.	0.2	0
14	First molecular evidence of an invasive agricultural pest, <i>Drosophila suzukii</i> , in the diet of a common bat, <i>Pipistrellus pipistrellus</i> , in Belgian orchards. <i>Barbastella</i> , 2020, 13, 109-115.	0.1	1
15	High-Throughput Sequencing Assists Studies in Genomic Variability and Epidemiology of Little Cherry Virus 1 and 2 infecting <i>Prunus</i> spp. in Belgium. <i>Viruses</i> , 2019, 11, 592.	3.3	16
16	Olfactory Preference of <i>Drosophila suzukii</i> Shifts between Fruit and Fermentation Cues over the Season: Effects of Physiological Status. <i>Insects</i> , 2019, 10, 200.	2.2	33
17	Evaluation of hop ( <i>Humulus lupulus</i> ) as a repellent for the management of <i>Drosophila suzukii</i> . <i>Crop Protection</i> , 2019, 124, 104839.	2.1	16
18	Preference and performance of <i>Drosophila suzukii</i> on <i>Prunus</i> species: A potential eco-friendly pest management tool. <i>Crop Protection</i> , 2019, 122, 35-41.	2.1	10

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19	First records of the ash whitefly <i>Siphoninus phillyreae</i> Haliday (Hemiptera, Aleyrodidae) in Belgium. EPPO Bulletin, 2019, 49, 564-566.	0.8	0
20	New sensitive and fast detection of Little cherry virus 1 using loop-mediated isothermal amplification (RT-LAMP). Journal of Virological Methods, 2019, 265, 91-98.	2.1	22
21	Improving monitoring and forecasting in integrated management of fruit arthropod pests. Burleigh Dodds Series in Agricultural Science, 2019, , 527-570.	0.2	2
22	Food web structure of aphids and their parasitoids in Belgian fruit agroecosystems. Entomological Science, 2018, 21, 279-291.	0.6	7
23	Monetary Valuation of Natural Predators for Biological Pest Control in Pear Production. Ecological Economics, 2017, 134, 160-173.	5.7	36
24	Thrips control with predatory mites <i>A. limonicus</i> and <i>A. swirskii</i> in different strawberry cultivation systems. Acta Horticulturae, 2017, , 833-842.	0.2	8
25	Toxicity of erythritol, a sugar alcohol and food additive, to <i>Drosophila suzukii</i> (Matsumura). Acta Horticulturae, 2017, , 843-848.	0.2	10
26	Matching commercial thrips predating phytoseids with the highly diversified climatic conditions of different strawberry production systems. Acta Horticulturae, 2017, , 863-870.	0.2	5
27	First Report of <i>Little cherry virus 1</i> affecting European Plum ( <i>Prunus domestica</i> ) in Belgium. Plant Disease, 2017, 101, 1557-1557.	1.4	9
28	Validation of Individual-Based Markov-Like Stochastic Process Model of Insect Behavior and a Virtual Farm Concept for Enhancement of Site-Specific IPM. Frontiers in Physiology, 2016, 7, 363.	2.8	8
29	THE PRESENCE OF BENEFICIAL ARTHROPODS IN ORGANIC VERSUS IPM PEAR ORCHARDS AND THEIR ABILITY TO PREDATE PEAR SUCKERS ( <i>CACOPSYLLA PYRI</i> ). Acta Horticulturae, 2015, , 427-429.	0.2	2
30	COMPLEMENTARY STRATEGY BASED ON FLUPYRADIFURONE (SIVANTO PRIME®) AND SPIROTETRAMAT (MOVENTO®) FOR INTEGRATED <i>CACOPSYLLA PYRI</i> CONTROL IN IPM PEARS WITH FOCUS ON THE TEMPORAL DISCRIMINATION TOWARDS BENEFICIALS. Acta Horticulturae, 2015, , 463-470.	0.2	1
31	STINK BUGS (HEMIPTERA: PENTATOMIDAE) IN PEAR ORCHARDS: SPECIES COMPLEX, POPULATION DYNAMICS, DAMAGE POTENTIAL AND CONTROL STRATEGIES. Acta Horticulturae, 2015, , 415-420.	0.2	3
32	SIDE-EFFECTS ON SPIDERS OF PLANT PROTECTION PRODUCTS COMMONLY USED DURING SPRING AND AUTUMN IN BELGIAN PEAR PRODUCTION. Acta Horticulturae, 2015, , 451-456.	0.2	2
33	Entomopathogenic nematodes fail to parasitize the woolly apple aphid <i>Eriosoma lanigerum</i> as their symbiotic bacteria are suppressed. Journal of Applied Entomology, 2014, 138, 644-655.	1.8	14
34	Integrated control of psyllid vectors of European fruit tree phytoplasmas. Phytopathogenic Mollicutes, 2013, 3, 31.	0.1	4
35	Dynamics of $\delta^{13}$ -aminobutyric acid in wheat flour bread making. Food Chemistry, 2012, 130, 896-901.	8.2	28
36	Natural and human causes of earwig mortality during winter: temperature, parasitoids and soil tillage. Journal of Applied Entomology, 2012, 136, 490-500.	1.8	19

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37	First report of molecular identification of <i>Candidatus</i> Phytoplasma pyri <sup>TM</sup> in pear trees in Belgium. <i>New Disease Reports</i> , 2012, 26, 29-29.	0.8	0
38	Earwig management tool: an IPM decision aid system for augmentation of European earwig populations (Dermaptera: Forficulidae) in pip fruit orchards. <i>Communications in Agricultural and Applied Biological Sciences</i> , 2012, 77, 657-62.	0.0	0
39	TOWARDS IMPROVED CONTROL OF WOOLLY APPLE APHID ( <i>ERIOSOMA LANIGERUM</i> ) IN INTEGRATED FRUIT PRODUCTION. <i>Acta Horticulturae</i> , 2011, , 15-22.	0.2	3
40	Mutational analysis of wheat ( <i>Triticum aestivum</i> L.) nucleotide pyrophosphatase/phosphodiesterase shows the role of six amino acids in the catalytic mechanism. <i>Applied Microbiology and Biotechnology</i> , 2011, 90, 173-180.	3.6	3
41	COMPATIBILITY OF SPIROTETRAMAT (MOVENTO <sup>®</sup> ) IN INTEGRATED POME FRUIT PRODUCTION. <i>Acta Horticulturae</i> , 2011, , 77-83.	0.2	5
42	The first characterised wheat ( <i>Triticum aestivum</i> L.) member of the nudix hydrolase family shows specificity for NAD(P)(H) and FAD. <i>Journal of Cereal Science</i> , 2010, 51, 319-325.	3.7	1
43	Characterisation of the first wheat ( <i>Triticum aestivum</i> L.) nucleotide pyrophosphatase/phosphodiesterase resembling mammalian counterparts. <i>Journal of Cereal Science</i> , 2010, 51, 326-336.	3.7	6
44	Truncated derivatives of a multidomain thermophilic glycosyl hydrolase family 10 xylanase from <i>Thermotoga maritima</i> reveal structure related activity profiles and substrate hydrolysis patterns. <i>Journal of Biotechnology</i> , 2010, 145, 160-167.	3.8	18
45	Computational design-based molecular engineering of the glycosyl hydrolase family 11 <i>B. subtilis</i> XynA endoxylanase improves its acid stability. <i>Protein Engineering, Design and Selection</i> , 2009, 22, 587-596.	2.1	36
46	<i>Fusarium graminearum</i> xylanases show different functional stabilities, substrate specificities and inhibition sensitivities. <i>Enzyme and Microbial Technology</i> , 2009, 44, 189-195.	3.2	30
47	Plant cell walls: Protecting the barrier from degradation by microbial enzymes. <i>Seminars in Cell and Developmental Biology</i> , 2009, 20, 1064-1073.	5.0	115
48	General M13 Phage Display: M13 Phage Display in Identification and Characterization of Protein-Protein Interactions. <i>Methods in Molecular Biology</i> , 2009, 502, 321-339.	0.9	30
49	Effects of sublethal doses of crop protection agents on honey bee ( <i>Apis mellifera</i> ) global colony vitality and its potential link with aberrant foraging activity. <i>Communications in Agricultural and Applied Biological Sciences</i> , 2009, 74, 245-53.	0.0	4
50	Phage display based identification of novel stabilizing mutations in glycosyl hydrolase family 11 <i>B. subtilis</i> endoxylanase XynA. <i>Biochemical and Biophysical Research Communications</i> , 2008, 368, 74-80.	2.1	9
51	Mutational Analysis of Endoxylanases XylA and XylB from the Phytopathogen <i>Fusarium graminearum</i> Reveals Comprehensive Insights into Their Inhibitor Insensitivity. <i>Applied and Environmental Microbiology</i> , 2007, 73, 4602-4608.	3.1	27
52	Targeted molecular engineering of a family 11 endoxylanase to decrease its sensitivity towards <i>Triticum aestivum</i> endoxylanase inhibitor types. <i>Journal of Biotechnology</i> , 2007, 130, 95-105.	3.8	21
53	Engineering molecular recognition of endoxylanase enzymes and their inhibitors through phage display. <i>Journal of Molecular Recognition</i> , 2007, 20, 103-112.	2.1	16
54	Alteration of <i>Bacillus subtilis</i> XynA endoxylanase substrate selectivity by site-directed mutagenesis. <i>Enzyme and Microbial Technology</i> , 2007, 41, 85-91.	3.2	8

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55	Microbial Endoxylanases: Effective Weapons to Breach the Plant Cell-Wall Barrier or, Rather, Triggers of Plant Defense Systems?. <i>Molecular Plant-Microbe Interactions</i> , 2006, 19, 1072-1081.	2.6	102
56	Functional display of family 11 endoxylanases on the surface of phage M13. <i>Journal of Biotechnology</i> , 2005, 115, 249-260.	3.8	14
57	Cloning and characterization of two endoxylanases from the cereal phytopathogen <i>Fusarium graminearum</i> and their inhibition profile against endoxylanase inhibitors from wheat. <i>Biochemical and Biophysical Research Communications</i> , 2005, 327, 407-414.	2.1	53
58	Entomopathogenic nematodes as biocontrol agents of insect pests in orchards.. <i>CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources</i> , 0, , 1-11.	1.0	19
59	<i>Anthonomus spilotus</i> (Coleoptera: Curculionidae): new to the Belgian fauna. <i>Belgian Journal of Zoology</i> , 0, 149, .	0.5	1