

Tim Belien

List of Publications by Year in descending order

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59
papers

835
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567281

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526287

27
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60
docs citations

60
times ranked

1102
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | Computational design-based molecular engineering of the glycosyl hydrolase family 11 B. subtilis XynA endoxylanase improves its acid stability. <i>Protein Engineering, Design and Selection</i> , 2009, 22, 587-596. | 2.1 | 36 |
| 5 | Monetary Valuation of Natural Predators for Biological Pest Control in Pear Production. <i>Ecological Economics</i> , 2017, 134, 160-173. | 5.7 | 36 |
| 6 | 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 |
| 7 | <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 |
| 8 | 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 |
| 9 | Dynamics of $\hat{3}$ -aminobutyric acid in wheat flour bread making. <i>Food Chemistry</i> , 2012, 130, 896-901. | 8.2 | 28 |
| 10 | 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 |
| 11 | New sensitive and fast detection of Little cherry virus 1 using loop-mediated isothermal amplification (RT-LAMP). <i>Journal of Virological Methods</i> , 2019, 265, 91-98. | 2.1 | 22 |
| 12 | 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 |
| 13 | Natural and human causes of earwig mortality during winter: temperature, parasitoids and soil tillage. <i>Journal of Applied Entomology</i> , 2012, 136, 490-500. | 1.8 | 19 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

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|----|---|-----|-----------|
| 19 | Functional display of family 11 endoxylanases on the surface of phage M13. <i>Journal of Biotechnology</i> , 2005, 115, 249-260. | 3.8 | 14 |
| 20 | Entomopathogenic nematodes fail to parasitize the woolly apple aphid <i>Eriosoma lanigerum</i> as their symbiotic bacteria are suppressed. <i>Journal of Applied Entomology</i> , 2014, 138, 644-655. | 1.8 | 14 |
| 21 | Towards Integrated Pest and Pollinator Management in Intensive Pear Cultivation: A Case Study from Belgium. <i>Insects</i> , 2021, 12, 901. | 2.2 | 11 |
| 22 | Toxicity of erythritol, a sugar alcohol and food additive, to <i>Drosophila suzukii</i> (Matsumara). <i>Acta Horticulturae</i> , 2017, , 843-848. | 0.2 | 10 |
| 23 | 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 |
| 24 | 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 |
| 25 | Phage display based identification of novel stabilizing mutations in glycosyl hydrolase family 11 B. subtilis endoxylanase XynA. <i>Biochemical and Biophysical Research Communications</i> , 2008, 368, 74-80. | 2.1 | 9 |
| 26 | First Report of <i>Little cherry virus 1</i> affecting European Plum (<i>Prunus domestica</i>) in Belgium. <i>Plant Disease</i> , 2017, 101, 1557-1557. | 1.4 | 9 |
| 27 | 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 |
| 28 | Validation of Individual-Based Markov-Like Stochastic Process Model of Insect Behavior and a Virtual Farm Concept for Enhancement of Site-Specific IPM. <i>Frontiers in Physiology</i> , 2016, 7, 363. | 2.8 | 8 |
| 29 | Thrips control with predatory mites <i>A. limonicus</i> and <i>A. swirskii</i> in different strawberry cultivation systems. <i>Acta Horticulturae</i> , 2017, , 833-842. | 0.2 | 8 |
| 30 | Food web structure of aphids and their parasitoids in Belgian fruit agroecosystems. <i>Entomological Science</i> , 2018, 21, 279-291. | 0.6 | 7 |
| 31 | 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 |
| 32 | 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 |
| 33 | Matching commercial thrips predating phytoseids with the highly diversified climatic conditions of different strawberry production systems. <i>Acta Horticulturae</i> , 2017, , 863-870. | 0.2 | 5 |
| 34 | Marking <i>Drosophila suzukii</i> (Diptera: Drosophilidae) with Fluorescent Dusts. <i>Insects</i> , 2020, 11, 152. | 2.2 | 5 |
| 35 | Identification of Blackberry (<i>Rubus fruticosus</i>) Volatiles as <i>Drosophila suzukii</i> Attractants. <i>Insects</i> , 2021, 12, 417. | 2.2 | 5 |
| 36 | COMPATIBILITY OF SPIROTETRAMAT (MOVENTO®) IN INTEGRATED POME FRUIT PRODUCTION. <i>Acta Horticulturae</i> , 2011, , 77-83. | 0.2 | 5 |

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|----|--|-----|-----------|
| 37 | Integrated control of psyllid vectors of European fruit tree phytoplasmas. <i>Phytopathogenic Mollicutes</i> , 2013, 3, 31. | 0.1 | 4 |
| 38 | Cultivar-mediated effects on appleâ€“ <i>Dysaphis plantaginea</i> interaction. <i>Journal of Pest Science</i> , 2022, 95, 1303-1315. | 3.7 | 4 |
| 39 | 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 |
| 40 | 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 |
| 41 | Optical Identification of Fruitfly Species Based on Their Wingbeats Using Convolutional Neural Networks. <i>Frontiers in Plant Science</i> , 2022, 13, . | 3.6 | 4 |
| 42 | 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 |
| 43 | 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 |
| 44 | STINK BUGS (HEMIPTERA: PENTATOMIDAE) IN PEAR ORCHARDS: SPECIES COMPLEX, POPULATION DYNAMICS, DAMAGE POTENTIAL AND CONTROL STRATEGIES. <i>Acta Horticulturae</i> , 2015, , 415-420. | 0.2 | 3 |
| 45 | 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 |
| 46 | 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 |
| 47 | THE PRESENCE OF BENEFICIAL ARTHROPODS IN ORGANIC VERSUS IPM PEAR ORCHARDS AND THEIR ABILITY TO PREDATE PEAR SUCKERS (<i>CACOPSYLLA PYRI</i>). <i>Acta Horticulturae</i> , 2015, , 427-429. | 0.2 | 2 |
| 48 | SIDE-EFFECTS ON SPIDERS OF PLANT PROTECTION PRODUCTS COMMONLY USED DURING SPRING AND AUTUMN IN BELGIAN PEAR PRODUCTION. <i>Acta Horticulturae</i> , 2015, , 451-456. | 0.2 | 2 |
| 49 | Improving monitoring and forecasting in integrated management of fruit arthropod pests. <i>Burleigh Dodds Series in Agricultural Science</i> , 2019, , 527-570. | 0.2 | 2 |
| 50 | 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 |
| 51 | COMPLEMENTARY STRATEGY BASED ON FLUPYRADIFURONE (SIVANTO PRIMEÂ®) AND SPIROTETRAMAT (MOVENTOÂ®) FOR INTEGRATED <i>CACOPSYLLA PYRI</i> CONTROL IN IPM PEARS WITH FOCUS ON THE TEMPORAL DISCRIMINATION TOWARDS BENEFICIALS. <i>Acta Horticulturae</i> , 2015, , 463-470. | 0.2 | 1 |
| 52 | 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 |
| 53 | <i>Anthonomus spilotus</i> (Coleoptera: Curculionidae): new to the Belgian fauna. <i>Belgian Journal of Zoology</i> , 0, 149, . | 0.5 | 1 |
| 54 | 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 |

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|----|--|-----|-----------|
| 55 | First records of the ash whitefly <i>Siphoninus phillyreae</i> Haliday (Hemiptera, Aleyrodidae) in Belgium. EPPO Bulletin, 2019, 49, 564-566. | 0.8 | 0 |
| 56 | Seasonal changes in odour preferences of spotted wing <i>Drosophila</i> (SWD) and their implications for monitoring. Acta Horticulturae, 2020, , 199-208. | 0.2 | 0 |
| 57 | First report of molecular identification of <i>Candidatus</i> Phytoplasma pyri™ in pear trees in Belgium. New Disease Reports, 2012, 26, 29-29. | 0.8 | 0 |
| 58 | Control of <i>Anthonomus</i> spp. weevils in IPM pome fruit orchards. Acta Horticulturae, 2020, , 209-220. | 0.2 | 0 |
| 59 | Earwig management tool: an IPM decision aid system for augmentation of European earwig populations (Dermaptera: Forficulidae) in pip fruit orchards. Communications in Agricultural and Applied Biological Sciences, 2012, 77, 657-62. | 0.0 | 0 |