

Frank Chidawanyika

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

757
citations

566801

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26
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times ranked

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#	ARTICLE	IF	CITATIONS
1	Rapid thermal responses and thermal tolerance in adult codling moth <i>Cydia pomonella</i> (Lepidoptera: Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	0.9	918
2	Costs and benefits of thermal acclimation for codling moth, <i>Cydia pomonella</i> (Lepidoptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Applications, 2011, 4, 534-544.	1.5	91
3	Effects of Thermal Regimes, Starvation and Age on Heat Tolerance of the Parthenium Beetle <i>Zygogramma bicolorata</i> (Coleoptera: Chrysomelidae) following Dynamic and Static Protocols. PLoS ONE, 2017, 12, e0169371.	1.1	76
4	Global Climate Change as a Driver of Bottom-Up and Top-Down Factors in Agricultural Landscapes and the Fate of Host-Parasitoid Interactions. <i>Frontiers in Ecology and Evolution</i> , 2019, 7, .	1.1	53
5	Life-stage related responses to combined effects of acclimation temperature and humidity on the thermal tolerance of <i>Chilo partellus</i> (Swinhoe) (Lepidoptera: Crambidae). <i>Journal of Thermal Biology</i> , 2019, 79, 85-94.	1.1	35
6	Superior basal and plastic thermal responses to environmental heterogeneity in invasive exotic stemborer <i>Chilo partellus</i> Swinhoe over indigenous <i>Busseola fusca</i> (Fuller) and <i>Sesamia calamistis</i> Hampson. <i>Physiological Entomology</i> , 2018, 43, 108-119.	0.6	31
7	Biologically Based Methods for Pest Management in Agriculture under Changing Climates: Challenges and Future Directions. <i>Insects</i> , 2012, 3, 1171-1189.	1.0	30
8	Climate variability differentially impacts thermal fitness traits in three coprophagic beetle species. <i>PLoS ONE</i> , 2018, 13, e0198610.	1.1	28
9	Dominance of spotted stemborer <i>Chilo partellus</i> Swinhoe over indigenous stemborer species in Africa's changing climates: ecological and thermal biology perspectives. <i>Agricultural and Forest Entomology</i> , 2017, 19, 344-356.	0.7	24
10	Thermal plasticity in the invasive south American tomato pinworm <i>Tuta absoluta</i> (Meyrick) (Lepidoptera: Gelechiidae). <i>Journal of Thermal Biology</i> , 2020, 90, 102598.	1.1	24
11	Overview of oriental fruit fly, <i>Bactrocera dorsalis</i> (Hendel) (Diptera: Tephritidae) in Africa: From invasion, bio-ecology to sustainable management. <i>Crop Protection</i> , 2021, 141, 105492.	1.0	23
12	Comparative assessment of the thermal tolerance of spotted stemborer, <i>Chilo partellus</i> (Lepidoptera: Crambidae) and its larval parasitoid, <i>Cotesia sesamiae</i> (Hymenoptera: Braconidae). <i>Insect Science</i> , 2018, 25, 847-860.	1.5	21
13	<i>Tuta absoluta</i> (Meyrick) (Lepidoptera: Gelechiidae) on the "Offensive" in Africa: Prospects for Integrated Management Initiatives. <i>Insects</i> , 2020, 11, 764.	1.0	20
14	Geographic dispersion of invasive crop pests: the role of basal, plastic climate stress tolerance and other complementary traits in the tropics. <i>Current Opinion in Insect Science</i> , 2022, 50, 100878.	2.2	20
15	Thermal plasticity potentially mediates the interaction between host <i>Chilo partellus</i> Swinhoe (Lepidoptera: Crambidae) and endoparasitoid <i>Cotesia flavipes</i> Cameron (Hymenoptera: Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	0.7	16
16	Oviposition acceptance and larval development of <i>Chilo partellus</i> stemborers in drought-stressed wild and cultivated grasses of East Africa. <i>Entomologia Experimentalis Et Applicata</i> , 2014, 151, 209-217.	0.7	16
17	Thermal resilience may shape population abundance of two sympatric congeneric <i>Cotesia</i> species (Hymenoptera: Braconidae). <i>PLoS ONE</i> , 2018, 13, e0191840.	1.1	16
18	Fluctuating environments impact thermal tolerance in an invasive insect species <i>Bactrocera dorsalis</i> (Diptera: Tephritidae). <i>Journal of Applied Entomology</i> , 2020, 144, 885-896.	0.8	15

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19	Thermal tolerance of the biological control agent <i>Neolema abbreviata</i> and its potential geographic distribution together with its host <i>Tradescantia fluminensis</i> in South Africa. <i>Biological Control</i> , 2020, 149, 104315.	1.4	15
20	Offspring diet supersedes the transgenerational effects of parental diet in a specialist herbivore <i>Neolema abbreviata</i> under manipulated foliar nitrogen variability. <i>Insect Science</i> , 2020, 27, 361-374.	1.5	12
21	Desiccation and temperature resistance of the larger grain borer, <i>Prostephanus truncatus</i> (Horn) (Coleoptera: Bostrichidae): pedestals for invasion success?. <i>Physiological Entomology</i> , 2021, 46, 157-166.	0.6	9
22	Differential life-history responses in <i>Neolema abbreviata</i> , a biological control agent for <i>Tradescantia fluminensis</i> under water and nitrogen gradients. <i>Arthropod-Plant Interactions</i> , 2019, 13, 57-70.	0.5	8
23	Cold hardiness of the South American tomato pinworm <i>Tuta absoluta</i> (Lepidoptera: Gelechiidae): both larvae and adults are chill susceptible. <i>Pest Management Science</i> , 2021, 77, 184-193.	1.7	8
24	Potential roles of selected forage grasses in management of fall armyworm (<i>Spodoptera frugiperda</i>) through companion cropping. <i>Entomologia Experimentalis Et Applicata</i> , 2021, 169, 966-974.	0.7	8
25	Field evaluation of a new third generation push-pull technology for control of striga weed, stem borers, and fall armyworm in western Kenya. <i>Experimental Agriculture</i> , 2021, 57, 301-315.	0.4	8
26	Host plant-related responses on the thermal fitness of <i>Chilo partellus</i> (Swinhoe) (Lepidoptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462	0.5	7
27	An assessment of the invasive alien tree, <i>Robinia pseudoacacia</i> canopy traits and its effect on grassland microclimates and subsequent arthropod assemblages. <i>Journal of Insect Conservation</i> , 2021, 25, 429-439.	0.8	7
28	Thermal resilience of <i>Prostephanus truncatus</i> (Horn): Can we derive optimum temperature-time combinations for commodity treatment?. <i>Journal of Stored Products Research</i> , 2020, 86, 101568.	1.2	7
29	Reduction of Grazing Capacity in High-Elevation Rangelands After Black Locust Invasion in South Africa. <i>Rangeland Ecology and Management</i> , 2021, 76, 109-117.	1.1	5
30	Integration of invasive tree, black locust, into agro-ecological flower visitor networks induces competition for pollination services. <i>Arthropod-Plant Interactions</i> , 2021, 15, 787-796.	0.5	2
31	Biogeography of cereal stem borers and their natural enemies: forecasting pest management efficacy under changing climate. <i>Pest Management Science</i> , 2022, 78, 4446-4457.	1.7	2
32	Contributions of black locust (<i>Robinia pseudoacacia</i> L.) to livelihoods of peri-urban dwellers in the Free State Province of South Africa. <i>Geo Journal</i> , 0, , 1.	1.7	1