

# Komivi Akutse

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

1,630  
citations

361296

20  
h-index

360920

35  
g-index

83  
all docs

83  
docs citations

83  
times ranked

1382  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fungal Endophytes: Beyond Herbivore Management. <i>Frontiers in Microbiology</i> , 2018, 9, 544.	1.5	187
2	Endophytic colonization of <i>Vicia faba</i> and <i>Phaseolus vulgaris</i> (Fabaceae) by fungal pathogens and their effects on the life-history parameters of <i>Liriomyza huidobrensis</i> (Diptera: Agromyzidae). <i>Fungal Ecology</i> , 2013, 6, 293-301.	0.7	152
3	Prospects of endophytic fungal entomopathogens as biocontrol and plant growth promoting agents: An insight on how artificial inoculation methods affect endophytic colonization of host plants. <i>Microbiological Research</i> , 2018, 217, 34-50.	2.5	95
4	Ovicidal effects of entomopathogenic fungal isolates on the invasive Fall armyworm <i>Spodoptera frugiperda</i> (Lepidoptera: Noctuidae). <i>Journal of Applied Entomology</i> , 2019, 143, 626-634.	0.8	68
5	Model Application of Entomopathogenic Fungi as Alternatives to Chemical Pesticides: Prospects, Challenges, and Insights for Next-Generation Sustainable Agriculture. <i>Frontiers in Plant Science</i> , 2021, 12, 741804.	1.7	58
6	Prospects of fungal endophytes in the control of <i>Liriomyza</i> leafminer flies in common bean <i>Phaseolus vulgaris</i> under field conditions. <i>BioControl</i> , 2016, 61, 741-753.	0.9	46
7	Biopesticide Research and Product Development in Africa for Sustainable Agriculture and Food Security – Experiences From the International Centre of Insect Physiology and Ecology (icipe). <i>Frontiers in Sustainable Food Systems</i> , 2020, 4, .	1.8	46
8	Effects of Endophyte Colonization of <i>Vicia faba</i> (Fabaceae) Plants on the Life-History of Leafminer Parasitoids <i>Phaenocarpa scabriventris</i> (Hymenoptera: Braconidae) and <i>Diglyphus isaea</i> (Hymenoptera: Tj ETQq0 010rgBT /Overlock 10	1.0	42
9	Effects of different temperature regimes on survival of <i>Diaphorina citri</i> and its endosymbiotic bacterial communities. <i>Environmental Microbiology</i> , 2017, 19, 3439-3449.	1.8	39
10	Whole genome comparisons reveal panmixia among fall armyworm ( <i>Spodoptera frugiperda</i> ) from diverse locations. <i>BMC Genomics</i> , 2021, 22, 179.	1.2	37
11	Effectiveness of Entomopathogenic Fungi on Immature Stages and Feeding Performance of Fall Armyworm, <i>Spodoptera frugiperda</i> (Lepidoptera: Noctuidae) Larvae. <i>Insects</i> , 2021, 12, 1044.	1.0	36
12	The Herbivore-Induced Plant Volatiles Methyl Salicylate and Menthol Positively affect Growth and Pathogenicity of Entomopathogenic Fungi. <i>Scientific Reports</i> , 2017, 7, 40494.	1.6	34
13	Insights in the Global Genetics and Gut Microbiome of Black Soldier Fly, <i>Hermetia illucens</i> : Implications for Animal Feed Safety Control. <i>Frontiers in Microbiology</i> , 2020, 11, 1538.	1.5	34
14	Endophytic effects of <i>Aspergillus oryzae</i> on radish ( <i>Raphanus sativus</i> ) and its herbivore, <i>Plutella xylostella</i> . <i>Planta</i> , 2018, 248, 705-714.	1.6	33
15	Effects of Entomopathogenic fungi and <i>Bacillus thuringiensis</i> -based biopesticides on <i>Spoladea recurvalis</i> (Lepidoptera: Crambidae). <i>Journal of Applied Entomology</i> , 2018, 142, 617-626.	0.8	30
16	Evaluation of the Entomopathogenic Fungi <i>Metarhizium anisopliae</i> , <i>Beauveria bassiana</i> and <i>Isaria</i> sp. for the Management of <i>Aphis craccivora</i> (Hemiptera: Aphididae). <i>Journal of Economic Entomology</i> , 2018, 111, 1587-1594.	0.8	29
17	Effects of Seedling Age on Colonization Patterns of Citrus limon Plants by Endophytic <i>Beauveria bassiana</i> and <i>Metarhizium anisopliae</i> and Their Influence on Seedlings Growth. <i>Journal of Fungi (Basel)</i> , Tj ETQq1 1 0.784314rgBT /Over	1.0	28
18	Endophytic <i>Beauveria bassiana</i> in Foliar-Treated Citrus limon Plants Acting as a Growth Suppressor to Three Successive Generations of <i>Diaphorina citri</i> Kuwayama (Hemiptera: Liviidae). <i>Insects</i> , 2019, 10, 176.	1.0	28

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19	Metarhizium anisopliae and Beauveria bassiana: Pathogenicity, Horizontal Transmission, and Their Effects on Reproductive Potential of Thaumatotibia leucotreta (Lepidoptera: Tortricidae). Journal of Economic Entomology, 2020, 113, 660-668.	0.8	25
20	Bemisia tabaci-mediated facilitation in diversity of begomoviruses: Evidence from recent molecular studies. Microbial Pathogenesis, 2018, 123, 162-168.	1.3	23
21	Performance of Three Isolates of Metarhizium Anisopliae and Their Virulence against Zeugodacus Cucurbitae under Different Temperature Regimes, with Global Extrapolation of Their Efficiency. Insects, 2019, 10, 270.	1.0	23
22	Endophytic fungi protect tomato and nightshade plants against Tuta absoluta (Lepidoptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	1.6	23
23	Diaphorina citri Induces Huanglongbing-Infected Citrus Plant Volatiles to Repel and Reduce the Performance of Propylaea japonica. Frontiers in Plant Science, 2016, 07, 1969.	1.7	21
24	Characterization of mycotoxins from entomopathogenic fungi (Cordyceps fumosorosea) and their toxic effects to the development of asian citrus psyllid reared on healthy and diseased citrus plants. Toxicon, 2020, 188, 39-47.	0.8	21
25	General Limitations to Endophytic Entomopathogenic Fungi Use as Plant Growth Promoters, Pests and Pathogens Biocontrol Agents. Plants, 2021, 10, 2119.	1.6	21
26	Species Composition, Distribution, and Seasonal Abundance of Liriomyza Leafminers (Diptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46 Environmental Entomology, 2015, 44, 223-232.	0.7	18
27	Differential Effects of Pesticide Applications on Liriomyza huidobrensis (Diptera: Agromyzidae) and its Parasitoids on Pea in Central Kenya. Journal of Economic Entomology, 2015, 108, 662-671.	0.8	17
28	Determination and characterization of destruxin production in Metarhizium anisopliae Tk6 and formulations for Aedes aegypti mosquitoes control at the field level. Toxicon, 2016, 120, 89-96.	0.8	17
29	Farmers' knowledge and management practices of cereal, legume and vegetable insect pests, and willingness to pay for biopesticides. International Journal of Pest Management, 2022, 68, 204-216.	0.9	17
30	Consequences of shade management on the taxonomic patterns and functional diversity of termites (Blattodea: Termitidae) in cocoa agroforestry systems. Ecology and Evolution, 2018, 8, 11582-11595.	0.8	16
31	Combining insect pathogenic fungi and a pheromone trap for sustainable management of the fall armyworm, Spodoptera frugiperda (Lepidoptera: Noctuidae). Journal of Invertebrate Pathology, 2020, 177, 107477.	1.5	16
32	Entomopathogenic Fungi as Endophytes for Biological Control of Subterranean Termite Pests Attacking Cocoa Seedlings. Journal of Fungi (Basel, Switzerland), 2020, 6, 126.	1.5	16
33	Entomopathogenic fungus isolates for adult Tuta absoluta (Lepidoptera: Gelechiidae) management and their compatibility with Tuta pheromone. Journal of Applied Entomology, 2020, 144, 777-787.	0.8	16
34	<i>Liriomyza</i> Leafminer (Diptera: Agromyzidae) Parasitoid Complex in Different Agroecological Zones, Seasons, and Host Plants in Kenya. Environmental Entomology, 2016, 45, 357-366.	0.7	15
35	Landscape ecology and expanding range of biocontrol agent taxa enhance prospects for diamondback moth management. A review. Agronomy for Sustainable Development, 2018, 38, 1.	2.2	15
36	Molecular docking of protease from Metarhizium anisopliae and their toxic effect against model insect Galleria mellonella. Pesticide Biochemistry and Physiology, 2017, 138, 8-14.	1.6	13

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37	Horizontal transmission of <i>Metarhizium anisopliae</i> between <i>Spoladea recurvalis</i> (Lepidoptera: Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50) Pathogenesis, 2019, 131, 197-204.	1.3	13
38	Interactions between <i>Phaedrotoma scabriventris</i> Nixon (Hymenoptera: Braconidae) and <i>Diglyphus isaea</i> Walker (Hymenoptera: Eulophidae), parasitoids of <i>Liriomyza huidobrensis</i> (Blanchard) (Diptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50)	0.6	11
39	Fungal Endophyte Communities of Crucifer Crops Are Seasonally Dynamic and Structured by Plant Identity, Plant Tissue and Environmental Factors. <i>Frontiers in Microbiology</i> , 2020, 11, 1519.	1.5	12
40	Interaction between <i>Phaedrotoma scabriventris</i> Nixon and <i>Opius dissitus</i> Muesebeck (Hymenoptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50)	0.6	11
41	Susceptibilities of <i>Candidatus Liberibacter asiaticus</i> infected and noninfected <i>Diaphorina citri</i> to entomopathogenic fungi and their detoxification enzyme activities under different temperatures. <i>MicrobiologyOpen</i> , 2018, 7, e00607.	1.2	11
42	Local management and landscape structure determine the assemblage patterns of spiders in vegetable fields. <i>Scientific Reports</i> , 2020, 10, 15130.	1.6	11
43	The Endophyte <i>Trichoderma asperellum</i> M2RT4 Induces the Systemic Release of Methyl Salicylate and (Z)-jasmone in Tomato Plant Affecting Host Location and Herbivory of <i>Tuta absoluta</i> . <i>Frontiers in Plant Science</i> , 2022, 13, 860309.	1.7	11
44	Effect of Host Plant on Feeding, Biological and Morphological Parameters of <i>Liriomyza huidobrensis</i> Blanchard (Diptera: Agromyzidae). <i>African Entomology</i> , 2014, 22, 577-588.	0.6	10
45	Performance of <i>Apanteles hemara</i> (Hymenoptera: Braconidae) on two Amaranth Leaf-webbers: <i>Spoladea recurvalis</i> and <i>Udea ferrugalis</i> (Lepidoptera: Crambidae). <i>Environmental Entomology</i> , 2017, 46, 1284-1291.	0.7	10
46	<i>Metarhizium anisopliae</i> infection reduces <i>Trypanosoma congolense</i> reproduction in <i>Glossina fuscipes fuscipes</i> and its ability to acquire or transmit the parasite. <i>BMC Microbiology</i> , 2018, 18, 142.	1.3	10
47	Integrated Management of <i>Aphis craccivora</i> in Cowpea Using Intercropping and Entomopathogenic Fungi under Field Conditions. <i>Journal of Fungi</i> (Basel, Switzerland), 2020, 6, 60.	1.5	10
48	Characterization and risk assessment of the invasive papaya mealybug, <i>Paracoccus marginatus</i> , in Kenya under changing climate. <i>Journal of Applied Entomology</i> , 2020, 144, 442-458.	0.8	9
49	Microbiome diversity in <i>Diaphorina citri</i> populations from Kenya and Tanzania shows links to China. <i>PLoS ONE</i> , 2020, 15, e0235348.	1.1	9
50	Phyto-derivatives: an efficient eco-friendly way to manage <i>Trogoderma granarium</i> (Everts) (Coleoptera: Dermestidae). <i>International Journal of Tropical Insect Science</i> , 2021, 41, 915-926.	0.4	9
51	OUP accepted manuscript. <i>Journal of Economic Entomology</i> , 2022, 115, 46-55.	0.8	8
52	Ethylene and Benzaldehyde Emitted from Postharvest Tomatoes Inhibit <i>Botrytis cinerea</i> via Binding to G-Protein Coupled Receptors and Transmitting with cAMP-Signal Pathway of the Fungus. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 13706-13717.	2.4	7
53	Seasonal occurrence of amaranth Lepidopteran defoliators and effect of attractants and amaranth lines in their management. <i>Journal of Applied Entomology</i> , 2018, 142, 637-645.	0.8	6
54	Efficacy of aqueous and oil formulations of a specific <i>Metarhizium anisopliae</i> isolate against <i>Aphis craccivora</i> Koch, 1854 (Hemiptera: Aphididae) under field conditions. <i>Journal of Applied Entomology</i> , 2019, 143, 1182-1192.	0.8	6

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55	Testing a co-formulation of CO <sub>2</sub> -releasing material with an entomopathogenic fungus for the management of subterranean termite pests. <i>Mycological Progress</i> , 2019, 18, 1201-1211.	0.5	6
56	Citronellal perception and transmission by <i>Anopheles gambiae</i> s.s. (Diptera: Culicidae) females. <i>Scientific Reports</i> , 2020, 10, 18615.	1.6	6
57	Virulence and horizontal transmission of <i>Metarhizium anisopliae</i> by the adults of the greenhouse whitefly <i>Trialeurodes vaporariorum</i> (Hemiptera: Aleyrodidae) and the efficacy of oil formulations against its nymphs. <i>Heliyon</i> , 2021, 7, e08277.	1.4	6
58	Comparative microbiome analysis of <i>Diaphorina citri</i> and its associated parasitoids <i>Tamarixia radiata</i> and <i>Diaphorencyrtus aligarhensis</i> reveals <i>Wolbachia</i> as a dominant endosymbiont. <i>Environmental Microbiology</i> , 2022, 24, 1638-1652.	1.8	6
59	Endophytically colonized <i>Citrus limon</i> seedlings by <i>Beauveria bassiana</i> hampered development, reproduction and progeny fitness of <i>Diaphorina citri</i> . <i>Journal of Applied Entomology</i> , 2022, 146, 229-242.	0.8	6
60	Imidacloprid Pesticide Regulates <i>Gynaikothrips uzeli</i> (Thysanoptera: Phlaeothripidae) Host Choice Behavior and Immunity Against <i>Lecanicillium lecanii</i> (Hypocreales: Clavicipitaceae). <i>Journal of Economic Entomology</i> , 2018, 111, 2069-2075.	0.8	5
61	Effects of flower thrips (Thysanoptera: Thripidae) on nutritional quality of banana (Zingiberales: Tj ETQq1 1 0.784314 rgBT /Overlock 1.1 5		
62	Mitogenomic analysis of diversity of key whitefly pests in Kenya and its implication to their sustainable management. <i>Scientific Reports</i> , 2021, 11, 6348.	1.6	5
63	Temperature-dependent modelling and spatial prediction reveal suitable geographical areas for deployment of two <i>Metarhizium anisopliae</i> isolates for <i>Tuta absoluta</i> management. <i>Scientific Reports</i> , 2021, 11, 23346.	1.6	5
64	Interaction Between <i>Chrysocharis flacilla</i> and <i>Diglyphus isaea</i> (Hymenoptera: Eulophidae), Two Parasitoids of <i>Liriomyza</i> Leafminers. <i>Journal of Economic Entomology</i> , 2018, 111, 556-563.	0.8	4
65	Infection of the Stable Fly, <i>Stomoxys calcitrans</i> , L. 1758 (Diptera: Muscidae) by the Entomopathogenic Fungi <i>Metarhizium anisopliae</i> (Hypocreales: Clavicipitaceae) Negatively Affects Its Survival, Feeding Propensity, Fecundity, Fertility, and Fitness Parameters. <i>Frontiers in Fungal Biology</i> , 2021, 2, .	0.9	4
66	Whitefly-induced tomato volatiles enhance the virulence of <i>Lecanicillium lecanii</i> . <i>Journal of Invertebrate Pathology</i> , 2021, 183, 107623.	1.5	4
67	Mechanism of Action of Endophytic Fungi <i>Hypocrea lixii</i> and <i>Beauveria bassiana</i> in <i>Phaseolus vulgaris</i> as Biopesticides against Pea Leafminer and Fall Armyworm. <i>Molecules</i> , 2021, 26, 5694.	1.7	4
68	Prioritization of invasive alien species with the potential to threaten agriculture and biodiversity in Kenya through horizon scanning. <i>Biological Invasions</i> , 2022, 24, 2933-2949.	1.2	4
69	Genetic diversity of <i>Diaphorina citri</i> (Hemiptera: Liviidae) unravels phylogeographic structure and invasion history of eastern African populations. <i>Ecology and Evolution</i> , 2022, 12, .	0.8	4
70	Acceptability and Suitability of Three <i>Liriomyza</i> Leafminer Species as Host for the Endoparasitoid <i>Chrysocharis flacilla</i> (Hymenoptera: Eulophidae). <i>Journal of Economic Entomology</i> , 2018, 111, 1137-1143.	0.8	3
71	Acceptability and Suitability of Three <i>Liriomyza</i> Species as Host for the Endoparasitoid Halticoptera <i>arduine</i> (Hymenoptera: Pteromalidae). <i>Environmental Entomology</i> , 2018, 47, 684-691.	0.7	3
72	Compatibility and efficacy of <i>Metarhizium anisopliae</i> and sex pheromone for controlling <i>Thaumatotibia leucotreta</i> . <i>Journal of Pest Science</i> , 2021, 94, 393-407.	1.9	3

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73	The Survival and Parasitism Rate of <i>Tamarixia radiata</i> (Hymenoptera: Eulophidae) on Its Host Exposed to <i>Beauveria bassiana</i> (Ascomycota: Hypocreales). <i>Agronomy</i> , 2021, 11, 1496.	1.3	3
74	Endophytic Colonisation of <i>Solanum lycopersicum</i> and <i>Phaseolus vulgaris</i> by Fungal Endophytes Promotes Seedlings Growth and Hampers the Reproductive Traits, Development, and Survival of the Greenhouse Whitefly, <i>Trialeurodes vaporariorum</i> . <i>Frontiers in Plant Science</i> , 2021, 12, 771534.	1.7	3
75	Phytopathogens Increase the Preference of Insect Vectors to Volatiles Emitted by Healthy Host Plants. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 5262-5269.	2.4	3
76	Immunocompetence of <i>Gynaikothrips uzeli</i> (Thysanoptera: Phlaeothripidae) populations from different latitudes against <i>Beauveria bassiana</i> (Hypocreales: Cordycipitaceae). <i>Journal of Invertebrate Pathology</i> , 2020, 171, 107343.	1.5	2
77	Morphological and Molecular Characterization of <i>Vicia faba</i> and <i>Phaseolus vulgaris</i> Seed-born Fungal Endophytes. <i>Research Journal of Seed Science</i> , 2016, 10, 1-16.	0.3	2
78	Interaction Between Two Leafminer Parasitoids, <i>Halticoptera arduine</i> (Hymenoptera: Pteromalidae) and <i>Diglyphus isaea</i> (Hymenoptera: Eulophidae), in the Management of <i>Liriomyza huidobrensis</i> (Diptera: Tj ETQq0 0 0 rBT /Overlock 10 Tf		
79	Genetic Diversity of <i>Tamarixia radiata</i> Populations and Their Associated Endosymbiont <i>Wolbachia</i> Species from China. <i>Agronomy</i> , 2021, 11, 2018.	1.3	1
80	Chemical additives enhance the activity of a Bt $\epsilon$ -Cb based biopesticide targeting the beet webworm larvae. <i>Journal of Applied Entomology</i> , 2020, 144, 26-32.	0.8	0
81	<i>Paenibacillus polymyxa</i> causes yellow withered spot disease in <i>Dracaena trifasciata</i> in the South of China. <i>Australasian Plant Pathology</i> , 2021, 50, 603-608.	0.5	0