Michael Rostas

List of Publications by Year
in descending order

58	1,822	236925 25	289244 40
papers	citations	h-index	g-index

60	60	60	2139
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Environmental Growth Conditions of Trichoderma spp. Affects Indole Acetic Acid Derivatives, Volatile Organic Compounds, and Plant Growth Promotion. Frontiers in Plant Science, 2017, 8, 102.	3.6	187
2	Ecological cross-effects of induced plant responses towards herbivores and phytopathogenic fungi. Basic and Applied Ecology, 2003, 4, 43-62.	2.7	94
3	Fungal Infection Reduces Herbivore-Induced Plant Volatiles of Maize but does not Affect NaÃ¯ve Parasitoids. Journal of Chemical Ecology, 2006, 32, 1897-1909.	1.8	89
4	Ontogenetic and spatio-temporal patterns of induced volatiles in Glycine max in the light of the optimal defence hypothesis. Chemoecology, 2008, 18, 29-38.	1.1	80
5	Aboveground endophyte affects root volatile emission and host plant selection of a belowground insect. Oecologia, 2015, 177, 487-497.	2.0	69
6	Salinity stress effects on direct and indirect defence metabolites in maize. Environmental and Experimental Botany, 2016, 122, 68-77.	4.2	62
7	Gall volatiles defend aphids against a browsing mammal. BMC Evolutionary Biology, 2013, 13, 193.	3.2	60
8	Biological control of invasive stink bugs: review of global state and future prospects. Entomologia Experimentalis Et Applicata, 2021, 169, 28-51.	1.4	60
9	Comparative physiological responses in Chinese cabbage induced by herbivory and fungal infection. Journal of Chemical Ecology, 2002, 28, 2449-2463.	1.8	53
10	Ambient ultraviolet radiation induces protective responses in soybean but does not attenuate indirect defense. Environmental Pollution, 2008, 155, 290-297.	7.5	51
11	Induction of systemic acquired resistance in Zea mays also enhances the plantâ€™s attractiveness to parasitoids. Biological Control, 2008, 46, 178-186.	3.0	50
12	Heavy metal stress can prime for herbivoreâ€induced plant volatile emission. Plant, Cell and Environment, 2012, 35, 1287-1298.	5.7	47
13	Pseudomonas syringae Elicits Emission of the Terpenoid (E,E)-4,8,12-Trimethyl-1,3,7,11-Tridecatetraene in Arabidopsis Leaves Via Jasmonate Signaling and Expression of the Terpene Synthase TPS4. Molecular Plant-Microbe Interactions, 2008, 21, 1482-1497.	2.6	45
14	Insects had it first: surfactants as a defence against predators. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 633-638.	2.6	43
15	Plant surface wax affects parasitoidâ€™s response to host footprints. Die Naturwissenschaften, 2008, 95, 997-1002.	1.6	42
16	Chemical ecology meets conservation biological control: identifying plant volatiles as predictors of floral resource suitability for an egg parasitoid of stink bugs. Journal of Pest Science, 2017, 90, 299-310.	3.7	42
17	Caterpillar Footprints as Host Location Kairomones for Cotesia marginiventris: Persistence and Chemical Nature. Journal of Chemical Ecology, 2009, 35, 20-27.	1.8	40
18	The effects of 2,4-dihydroxy-7-methoxy-1,4-benzoxazin-3-one on two species of Spodoptera and the growth of Setosphaeria turcica in vitro. Journal of Pest Science, 2007, 80, 35-41.	3.7	37

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19	Nitrogen Deficiency Affects Bottom-Up Cascade Without Disrupting Indirect Plant Defense. Journal of Chemical Ecology, 2010, 36, 642-651.	1.8	37
20	Transcriptional Reprogramming of Arabidopsis thaliana Defence Pathways by the Entomopathogen Beauveria bassiana Correlates With Resistance Against a Fungal Pathogen but Not Against Insects. Frontiers in Microbiology, 2019, 10, 615.	3.5	37
21	Asymmetric plant-mediated cross-effects between a herbivorous insect and a phytopathogenic fungus. Agricultural and Forest Entomology, 2002, 4, 223-231.	1.3	36
22	Trichoderma atroviride LU132 promotes plant growth but not induced systemic resistance to Plutella xylostella in oilseed rape. BioControl, 2014, 59, 241-252.	2.0	36
23	Global change-driven modulation of bottomâ€“up forces and cascading effects on biocontrol services. Current Opinion in Insect Science, 2019, 35, 27-33.	4.4	32
24	The NADPH Oxidases Nox1 and Nox2 Differentially Regulate Volatile Organic Compounds, Fungistatic Activity, Plant Growth Promotion and Nutrient Assimilation in Trichoderma atroviride. Frontiers in Microbiology, 2018, 9, 3271.	3.5	31
25	Effects of a maize root pest and fungal pathogen on entomopathogenic fungal rhizosphere colonization, endophytism and induction of plant hormones. Biological Control, 2020, 150, 104347.	3.0	28
26	Honeybee buzz attenuates plant damage by caterpillars. Current Biology, 2008, 18, R1125-R1126.	3.9	26
27	Indirect interactions between a phytopathogenic and an entomopathogenic fungus. Die Naturwissenschaften, 2003, 90, 63-67.	1.6	22
28	Role of needle surface waxes in dynamic exchange of mono- and sesquiterpenes. Atmospheric Chemistry and Physics, 2016, 16, 7813-7823.	4.9	22
29	Effect of coating maize seed with entomopathogenic fungi on plant growth and resistance againstFusarium graminearumandCostelytra giveni. Biocontrol Science and Technology, 2019, 29, 877-900.	1.3	22
30	Host Sex Discrimination by an Egg Parasitoid on Brassica Leaves. Journal of Chemical Ecology, 2011, 37, 622-628.	1.8	21
31	Identification and functional characterisation of an allene oxide synthase from grapevine (Vitis) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.3	21
32	Identification of volatiles released by diapausing brown marmorated stink bug, Halyomorpha halys (Hemiptera: Pentatomidae). PLoS ONE, 2018, 13, e0191223.	2.5	21
33	Feeding damage by larvae of the mustard leaf beetle deters conspecific females from oviposition and feeding. Entomologia Experimentalis Et Applicata, 2002, 103, 267-277.	1.4	20
34	Contrasting olfactory responses of two egg parasitoids to buckwheat floral scent are reflected in field parasitism rates. Journal of Pest Science, 2019, 92, 747-756.	3.7	20
35	Effects of mass releases of Trichogramma brassicae on predatory insects in maize. Entomologia Experimentalis Et Applicata, 2003, 108, 115-124.	1.4	17
36	Volatile compounds as insect lures: factors affecting release from passive dispenser systems. New Zealand Journal of Crop and Horticultural Science, 2019, 47, 208-223.	1.3	15

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37	Ants as Pollinators of Plants and the Role of Floral Scents. Cellular Origin and Life in Extreme Habitats, 2010, , 149-161.	0.3	15
38	Ants contribute to pollination but not to reproduction in a rare calcareous grassland forb. PeerJ, 2018, 6, e4369.	2.0	15
39	Insights into Metabolic Changes Caused by the Trichoderma virensâ€“Maize Root Interaction. Molecular Plant-Microbe Interactions, 2021, 34, 524-537.	2.6	14
40	Volatile release, mobility, and mortality of diapausing Halyomorpha halys during simulated shipping movements and temperature changes. Journal of Pest Science, 2019, 92, 633-641.	3.7	11
41	Production of Microsclerotia From Entomopathogenic Fungi and Use in Maize Seed Coating as Delivery for Biocontrol Against Fusarium graminearum. Frontiers in Sustainable Food Systems, 2020, 4, .	3.9	11
42	Perspectives for integrated insect pest protection in oilseed rape breeding. Theoretical and Applied Genetics, 2022, 135, 3917-3946.	3.6	11
43	Parasitoids use chemical footprints to track down caterpillars. Communicative and Integrative Biology, 2009, 2, 353-355.	1.4	10
44	Copper and herbivory lead to priming and synergism in phytohormones and plant volatiles in the absence of salicylate-jasmonate antagonism. Plant Signaling and Behavior, 2013, 8, e24264.	2.4	10
45	Evolution of Specialization of Cassida rubiginosa on Cirsium arvense (Compositae, Cardueae). Frontiers in Plant Science, 2016, 7, 1261.	3.6	9
46	Lack of involvement of chitinase in direct toxicity of Beauveria bassiana cultures to the aphid Myzus persicae. Journal of Invertebrate Pathology, 2020, 169, 107276.	3.2	9
47	Olfactory responses of Argentine stem weevil to herbivory and endophyte-colonisation in perennial ryegrass. Journal of Pest Science, 2022, 95, 263-277.	3.7	8
48	Olfactory responses of western flower thrips (<scp>F</scp>rankliniella occidentalis) populations to a nonâ€pheromone lure. Entomologia Experimentalis Et Applicata, 2015, 156, 254-262.	1.4	7
49	Leaf traits of congeneric host plants explain differences in performance of a specialist herbivore. Ecological Entomology, 2015, 40, 237-246.	2.2	6
50	Host Range Expansion of an Endemic Insect Herbivore is Associated With High Nitrogen and Low Fibre Content in Exotic Pasture Plants. Journal of Chemical Ecology, 2020, 46, 544-556.	1.8	6
51	Infochemicals influencing the host foraging behaviour of Dahlbominus fuscipennis, a pupal parasitoid of the European spruce sawfly (Gilpinia hercyniae). Entomologia Experimentalis Et Applicata, 1998, 86, 221-227.	1.4	5
52	Measuring Chitinase and Protease Activity in Cultures of Fungal Entomopathogens. Methods in Molecular Biology, 2016, 1477, 177-189.	0.9	5
53	The effect of insecticide application by dropleg sprayers on pollen beetle parasitism in oilseed rape. BioControl, 0, , 1.	2.0	2
54	Behavioural responses of diapausing Halyomorpha halys (Hemiptera: Pentatomidae) to conspecific volatile organic compounds. Journal of Applied Entomology, 2022, 146, 319-327.	1.8	2

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55	Histidine kinase two-component response regulators Ssk1, Skn7 and Rim15 differentially control growth, developmental and volatile organic compounds emissions as stress responses in Trichoderma atroviride. Current Research in Microbial Sciences, 2022, 3, 100139.	2.3	2
56	Editorial: Grassland-Invertebrate Interactions: Plant Productivity, Resilience and Community Dynamics. Frontiers in Plant Science, 2017, 8, 1413.	3.6	1
57	Histidine Kinase Two-Component Response Regulators Ssk1, Skn7 and Rim15 Differentially Control Growth, Developmental and Volatile Organic Compounds Emissions as Stress Responses in Trichoderma Atroviride. SSRN Electronic Journal, 0, , .	0.4	0
58	Thermal requirements for egg development of two endemic Wiseana pest species (Lepidoptera:) Tj ETQq0 0 0 rgBT /Overlock 10	1.8	0