

# Muthugounder Subramanian Shivakum

## List of Publications by Year in descending order

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Version: 2024-02-01

71  
papers

1,391  
citations

304368

22  
h-index

433756

31  
g-index

72  
all docs

72  
docs citations

72  
times ranked

1270  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biocontrol Efficacy of Mycosynthesized Selenium Nanoparticle Using <i>Trichoderma</i> sp. on Insect Pest <i>Spodoptera litura</i> . <i>Journal of Cluster Science</i> , 2022, 33, 1645-1653.	1.7	13
2	Biological synthesis and characterization of <i>Passiflora subpeltata</i> Ortega aqueous leaf extract in silver nanoparticles and their evaluation of antibacterial, antioxidant, anti-cancer and larvicidal activities. <i>Journal of King Saud University - Science</i> , 2022, 34, 101846.	1.6	17
3	Characterization of silver nanoparticles using <i>Ixora brachiata</i> Roxb. and its biological application. <i>Current Research in Green and Sustainable Chemistry</i> , 2022, 5, 100257.	2.9	3
4	Identification of insecticidal molecule aucubin from <i>Metarhizium anisopliae</i> ethyl acetate crude extract against disease mosquito vector. <i>International Journal of Tropical Insect Science</i> , 2022, 42, 3303-3318.	0.4	7
5	Metal oxide nanoparticle synthesis (ZnO-NPs) of <i>Knoxia sumatrensis</i> (Retz.) DC. Aqueous leaf extract and It's evaluation of their antioxidant, anti-proliferative and larvicidal activities. <i>Toxicology Reports</i> , 2021, 8, 64-72.	1.6	31
6	Phytochemical and Pharmacological Evaluation of Methanolic Extract of <i>Knoxia sumatrensis</i> Leaves. <i>Journal of Herbs, Spices and Medicinal Plants</i> , 2021, 27, 200-217.	0.5	4
7	Neuroprotective Effect of Epalrestat on Hydrogen Peroxide-Induced Neurodegeneration in SH-SY5Y Cellular Model. <i>Journal of Microbiology and Biotechnology</i> , 2021, 31, 867-874.	0.9	11
8	Mycosynthesis of bimetallic zinc oxide and titanium dioxide nanoparticles for control of <i>Spodoptera frugiperda</i> . <i>Pesticide Biochemistry and Physiology</i> , 2021, 178, 104910.	1.6	23
9	Isolation and characterization of heavy-metal-resistant bacteria and their applications in environmental bioremediation. <i>International Journal of Environmental Science and Technology</i> , 2020, 17, 1455-1462.	1.8	46
10	Gelatin Stabilized Silver Nanoparticle Provides Higher Antimicrobial Efficiency as Against Chemically Synthesized Silver Nanoparticle. <i>Journal of Cluster Science</i> , 2020, 31, 265-275.	1.7	16
11	Effect of <i>Manihot esculenta</i> (Crantz) leaf extracts on antioxidant and immune system of <i>Spodoptera litura</i> (Lepidoptera: Noctuidae). <i>Biocatalysis and Agricultural Biotechnology</i> , 2020, 23, 101476.	1.5	8
12	Diet composition has a differential effect on immune tolerance in insect larvae exposed to <i>Mesorhabditis belari</i> , <i>Enterobacter hormaechei</i> and its metabolites. <i>Experimental Parasitology</i> , 2020, 208, 107802.	0.5	4
13	Effect of food plants on <i>Spodoptera litura</i> (Lepidoptera: Noctuidae) larvae immune and antioxidant properties in response to <i>Bacillus thuringiensis</i> infection. <i>Toxicology Reports</i> , 2020, 7, 1428-1437.	1.6	6
14	Functional identification and characterization of midgut microbial flora derived from lepidopteran larvae <i>Spodoptera litura</i> Fab.. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020, 28, 101758.	1.5	3
15	Larvicidal toxicity of <i>Metarhizium anisopliae</i> metabolites against three mosquito species and non-targeting organisms. <i>PLoS ONE</i> , 2020, 15, e0232172.	1.1	35
16	Selection and characterization of extracellular enzyme production by an endophytic fungi <i>Aspergillus sojae</i> and its bio-efficacy analysis against cotton leaf worm, <i>Spodoptera litura</i> . <i>Current Plant Biology</i> , 2020, 23, 100153.	2.3	19
17	Entomopathogenicity of nematode <i>Panagrolaimus</i> spp. (Rhabditida: Panagrolaimidae) against lepidopteran pest <i>Spodoptera litura</i> . <i>International Journal of Pest Management</i> , 2020, , 1-8.	0.9	0
18	Antioxidant and Antiproliferative Potential of Bioactive Molecules Ursolic Acid and Thujone Isolated from <i>Memecylon edule</i> and <i>Elaeagnus indica</i> and Their Inhibitory Effect on Topoisomerase II by Molecular Docking Approach. <i>BioMed Research International</i> , 2020, 2020, 1-12.	0.9	16

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19	Antibacterial, Antifungal and Mosquitocidal Efficacy of Copper Nanoparticles Synthesized from Entomopathogenic Nematode: Insect-Host Relationship of Bacteria in Secondary Metabolites of <i>Morganella morganii</i> sp. (PMA1). <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 4489-4501.	1.7	14
20	Isolation and identification of entomopathogenic fungus from Eastern Ghats of South Indian forest soil and their efficacy as biopesticide for mosquito control. <i>Parasitology International</i> , 2020, 76, 102099.	0.6	31
21	Biological effects of <i>Avicennia marina</i> (Forssk.) vierh. extracts on physiological, biochemical, and antimicrobial activities against three challenging mosquito vectors and microbial pathogens. <i>Environmental Science and Pollution Research</i> , 2020, 27, 15174-15187.	2.7	22
22	Chemical constituents of thermal stress induced <i>Ganoderma applanatum</i> (Per.) secondary metabolites on larvae of <i>Anopheles stephensi</i> , <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> and histopathological effects in mosquito larvae. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 20, 101253.	1.5	14
23	Phytochemical, antioxidant, antimicrobial and antiproliferative potential of <i>Elaeagnus indica</i> . <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 20, 101265.	1.5	14
24	Mosquito control potential of secondary metabolites isolated from <i>Aspergillus flavus</i> and <i>Aspergillus fumigatus</i> . <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 21, 101334.	1.5	18
25	Preparation and Characterization of Chitosan Nanocomposites Material Using Silver Nanoparticle Synthesized <i>Carmona retusa</i> (Vahl) Masam Leaf Extract for Antioxidant, Anti-cancerous and Insecticidal Application. <i>Journal of Cluster Science</i> , 2019, 30, 1145-1155.	1.7	12
26	Antibacterial and Larvicidal Activity of <i>Fusarium proliferatum</i> (YNS2) Whole Cell Biomass Mediated Copper Nanoparticles. <i>Journal of Cluster Science</i> , 2019, 30, 1071-1080.	1.7	19
27	<p><em>Culex quinquefasciatus</em>’s Egg Membrane Alteration and Ovicidal Activity of <em>Cipadessa baccifera</em> (Roth) Plant Extracts Compared to Synthetic Insect Growth Regulators</p>. <i>Research and Reports in Tropical Medicine</i> , 2019, Volume 10, 145-151.	2.8	6
28	Larvicidal Activity of Silver Nanoparticles Synthesized by <i>Pseudomonas fluorescens</i> YPS3 Isolated from the Eastern Ghats of India. <i>Journal of Cluster Science</i> , 2019, 30, 225-233.	1.7	29
29	Synergistic effect of entomopathogenic fungus <i>Fusarium oxysporum</i> extract in combination with temephos against three major mosquito vectors. <i>Pathogens and Global Health</i> , 2018, 112, 37-46.	1.0	35
30	Effect of entomopathogenic nematode of <i>Heterorhabditis indica</i> infection on immune and antioxidant system in lepidopteran pest <i>Spodoptera litura</i> (Lepidoptera: Noctuidae). <i>Journal of Parasitic Diseases</i> , 2018, 42, 204-211.	0.4	15
31	Protective effect of melatonin administration on abamectin-induced immunotoxicity in <i>Spodoptera litura</i> (Insecta: Lepidoptera). <i>International Journal of Pest Management</i> , 2018, 64, 333-344.	0.9	2
32	Changes in light and dark periods affect the arylalkylamine N-acetyl transferase, melatonin activities and redox status in the head and hemolymph of nocturnal insect <i>Spodoptera litura</i>. <i>Biological Rhythm Research</i> , 2018, 49, 13-28.	0.4	17
33	Larvicidal, pupicidal and adult smoke toxic effects of <i>Acanthospermum hispidum</i> (DC) leaf crude extracts against mosquito vectors. <i>Physiological and Molecular Plant Pathology</i> , 2018, 101, 156-162.	1.3	44
34	Bioprospecting of <i>Prosopis juliflora</i> (Sw.) DC seed pod extract effect’s antioxidant and immune system of <i>Spodoptera litura</i> (Lepidoptera: Noctuidae). <i>Physiological and Molecular Plant Pathology</i> , 2018, 101, 45-53.	1.3	24
35	Effect of <i>Aspergillus flavus</i> on the mortality and activity of antioxidant enzymes of <i>Spodoptera litura</i> Fab. (Lepidoptera: Noctuidae) larvae. <i>Pesticide Biochemistry and Physiology</i> , 2018, 149, 54-60.	1.6	40
36	Comparative Analysis of Major Mosquito Vectors Response to Seed-Derived Essential Oil and Seed Pod-Derived Extract from <i>Acacia nilotica</i> . <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 388.	1.2	52

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37	Toxicity of <i>Fusarium oxysporum</i> -VKFO-01 Derived Silver Nanoparticles as Potential Insecticide Against Three Mosquito Vector Species (Diptera: Culicidae). <i>Journal of Cluster Science</i> , 2018, 29, 1139-1149.	1.7	30
38	Toxicity of <i>Beauveria bassiana</i> -28 Mycelial Extracts on Larvae of <i>Culex quinquefasciatus</i> Mosquito (Diptera: Culicidae). <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 440.	1.2	50
39	Pharmacological and Larvicidal Potential of Green Synthesized Silver Nanoparticles Using <i>Carmona retusa</i> (Vahl) Masam Leaf Extract. <i>Journal of Cluster Science</i> , 2018, 29, 1243-1253.	1.7	25
40	Bioprospecting of Novel Fungal Secondary Metabolites for Mosquito Control. , 2018, , 61-89.		2
41	Spectral characterization and antibacterial activity of an isolated compound from <i>Memecylon edule</i> leaves. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 168, 20-24.	1.7	20
42	Circadian variation affects the biology and digestive profiles of a nocturnal insect <i>Spodoptera litura</i> (Insecta: Lepidoptera). <i>Biological Rhythm Research</i> , 2017, 48, 207-226.	0.4	5
43	Pre-treatment with melatonin decreases abamectin induced toxicity in a nocturnal insect <i>Spodoptera litura</i> (Lepidoptera: Noctuidae). <i>Environmental Toxicology and Pharmacology</i> , 2017, 56, 76-85.	2.0	9
44	Green synthesis of selenium nanoparticles conjugated <i>Clausena dentata</i> plant leaf extract and their insecticidal potential against mosquito vectors. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2017, 45, 1490-1495.	1.9	123
45	Evaluation of Silver Nanoparticle Toxicity of <i>Coleus aromaticus</i> Leaf Extracts and its Larvicidal Toxicity against Dengue and Filariasis Vectors. <i>BioNanoScience</i> , 2016, 6, 308-315.	1.5	5
46	In vitro evaluation of antioxidant, antiproliferative potentials of bioactive extract-cum-rutin compound Isolated from <i>Memecylon edule</i> leaves and its molecular docking study. <i>Journal of Biologically Active Products From Nature</i> , 2016, 6, 43-58.	0.1	5
47	Time-of-day specific changes in pesticide detoxification ability of <i>Spodoptera litura</i> (Lepidoptera: Tj ETQq1 1 0.784314 rgBT /Over 0.4	0.4	
48	Insecticidal potential of <i>Ocimum canum</i> plant extracts against <i>Anopheles stephensi</i> , <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> larval and adult mosquitoes (Diptera: Culicidae). <i>Natural Product Research</i> , 2016, 30, 1193-1196.	1.0	12
49	Mosquitocidal Effect of <i>Glycosmis pentaphylla</i> Leaf Extracts against Three Mosquito Species (Diptera: Tj ETQq1 1 0.784314 rgBT /Over 1.1 18	1.1	18
50	Effect of Cadmium and Lead Exposure on Tissue Specific Antioxidant Response in <i>Spodoptera litura</i> . <i>Free Radicals and Antioxidants</i> , 2016, 6, 90-100.	0.2	25
51	Involvement of metabolic resistance and F1534C kdr mutation in the pyrethroid resistance mechanisms of <i>Aedes aegypti</i> in India. <i>Acta Tropica</i> , 2015, 148, 137-141.	0.9	32
52	Resistance selection and molecular mechanisms of cypermethrin resistance in red hairy caterpillar ( <i>Amsacta albistriga</i> walker). <i>Pesticide Biochemistry and Physiology</i> , 2015, 117, 54-61.	1.6	26
53	Insecticidal and repellent activity of <i>Clausena dentata</i> (Rutaceae) plant extracts against <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> mosquitoes (Diptera: Culicidae). <i>Parasitology Research</i> , 2015, 114, 1139-1144.	0.6	12
54	The protective effect of melatonin against cypermethrin-induced oxidative stress damage in <i>Spodoptera litura</i> (Lepidoptera: Noctuidae). <i>Biological Rhythm Research</i> , 2015, 46, 1-12.	0.4	20

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55	Adulticidal and smoke toxicity of <i>Cipadessa baccifera</i> (Roth) plant extracts against <i>Anopheles stephensi</i> , <i>Aedes aegypti</i> , and <i>Culex quinquefasciatus</i> . <i>Parasitology Research</i> , 2015, 114, 167-173.	0.6	26
56	Bioassay guided isolation of mosquito larvicidal compound from acetone leaf extract of <i>Elaeagnus indica</i> Servett Bull and its in-silico study. <i>Industrial Crops and Products</i> , 2015, 76, 394-401.	2.5	16
57	Laboratory development of permethrin resistance and cross-resistance pattern of <i>Culex quinquefasciatus</i> to other insecticides. <i>Parasitology Research</i> , 2015, 114, 2553-2560.	0.6	24
58	Susceptibility status of <i>Aedes aegypti</i> (L.) (Diptera: Culicidae) to temephos from three districts of Tamil Nadu, India. <i>Journal of Vector Borne Diseases</i> , 2015, 52, 159-65.	0.1	21
59	Effect of lambda cyhalothrin and temephos on detoxification enzyme systems in <i>Culex quinquefasciatus</i> (Diptera: Culicidae). <i>Journal of Environmental Biology</i> , 2015, 36, 235-9.	0.2	6
60	Medicinal Plants for <i>Anopheles stephensi</i> Liston Larvae Management. <i>Journal of Biologically Active Products From Nature</i> , 2014, 4, 391-399.	0.1	1
61	Circadian clock gene is involved in the photoperiodic response of the <i>Spodoptera litura</i> adults. <i>Biological Rhythm Research</i> , 2014, , 1-7.	0.4	0
62	<i>Phyllanthus wightianus</i> Mill. Arg.: A Potential Source for Natural Antimicrobial Agents. <i>BioMed Research International</i> , 2014, 2014, 1-9.	0.9	12
63	Ultraviolet-B light induced oxidative stress: Effects on antioxidant response of <i>Spodoptera litura</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 135, 1-6.	1.7	23
64	Larvicidal potential of silver nanoparticles synthesized from <i>Leucas aspera</i> leaf extracts against dengue vector <i>Aedes aegypti</i> . <i>Parasitology Research</i> , 2014, 113, 875-880.	0.6	48
65	Larvicidal potential of silver nanoparticles synthesized from <i>Leucas aspera</i> leaf extracts against dengue vector <i>Aedes aegypti</i> . <i>Parasitology Research</i> , 2014, 113, 1673-1679.	0.6	45
66	Biochemical mechanism of chlorantraniliprole resistance in <i>Spodoptera litura</i> (Fab) (Lepidoptera: Tj ETQqO O O rgBT /Overlock 10 Tf 50 0.4 39	0.4	39
67	Chemical composition and larvicidal activity of plant extracts from <i>Clausena dentata</i> (Willd) (Rutaceae) against dengue, malaria, and filariasis vectors. <i>Parasitology Research</i> , 2014, 113, 2475-2481.	0.6	24
68	Biochemical mechanisms of organophosphate and pyrethroid resistance in red hairy caterpillar <i>Amsacta albistriga</i> (Lepidoptera: Arctiidae). <i>Journal of the Saudi Society of Agricultural Sciences</i> , 2013, 12, 47-52.	1.0	8
69	Characterization, Antimicrobial, Antioxidant, Antiglycemic and Larvicidal Activity of Green Synthesized Silver Nanoparticles Using <i>Xora Brachiata</i> & <i>Roxb.</i> <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
70	Biosynthesis of copper nanoparticles using symbiotic bacterium <i>Xenorhabdus sp.</i> isolated from entomopathogenic nematode and its antimicrobial and insecticidal activity against <i>Spodoptera litura</i> . <i>Inorganic and Nano-Metal Chemistry</i> , 0, , 1-13.	0.9	1
71	Biosynthesis and characterization of silver nanoparticles from symbiotic bacteria <i>Xenorhabdus nematophila</i> and testing its insecticidal efficacy on <i>Spodoptera litura</i> larvae. <i>BioMetals</i> , 0, , .	1.8	2