

# Santi Prasad Sinha Babu

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

1,878  
citations

257357

24  
h-index

276775

41  
g-index

71  
all docs

71  
docs citations

71  
times ranked

2268  
citing authors

#	ARTICLE	IF	CITATIONS
1	TLR2 and TLR4 mediated host immune responses in major infectious diseases: a review. <i>Brazilian Journal of Infectious Diseases</i> , 2016, 20, 193-204.	0.3	315
2	Toll-like receptor polymorphism in host immune response to infectious diseases: A review. <i>Scandinavian Journal of Immunology</i> , 2019, 90, e12771.	1.3	146
3	Antimicrobial activity of saponins from <i>Acacia auriculiformis</i> . <i>Fitoquímica</i> , 2005, 76, 462-465.	1.1	123
4	Gut microbes as future therapeutics in treating inflammatory and infectious diseases: Lessons from recent findings. <i>Journal of Nutritional Biochemistry</i> , 2018, 61, 111-128.	1.9	66
5	Evidence of reactive oxygen species (ROS) mediated apoptosis in <i>Setaria cervi</i> induced by green silver nanoparticles from <i>Acacia auriculiformis</i> at a very low dose. <i>Experimental Parasitology</i> , 2016, 160, 39-48.	0.5	54
6	Salicylic acid-induced suppression of <i>Meloidogyne incognita</i> infestation of okra and cowpea. <i>Nematology</i> , 2003, 5, 747-752.	0.2	50
7	Effect of ferulic acid from <i>Hibiscus mutabilis</i> on filarial parasite <i>Setaria cervi</i> : Molecular and biochemical approaches. <i>Parasitology International</i> , 2012, 61, 520-531.	0.6	49
8	Antifilarial effects of polyphenol rich ethanolic extract from the leaves of <i>Azadirachta indica</i> through molecular and biochemical approaches describing reactive oxygen species (ROS) mediated apoptosis of <i>Setaria cervi</i> . <i>Experimental Parasitology</i> , 2014, 136, 41-58.	0.5	47
9	Highly Sensitive Ratiometric Chemosensor and Biomarker for Cyanide Ions in the Aqueous Medium. <i>ACS Omega</i> , 2018, 3, 10145-10153.	1.6	46
10	Molecular evidence of curcumin-induced apoptosis in the filarial worm <i>Setaria cervi</i> . <i>Parasitology Research</i> , 2012, 111, 1173-1186.	0.6	43
11	A Novel Ligand of Toll-like Receptor 4 From the Sheath of <i>Wuchereria bancrofti</i> Microfilaria Induces Proinflammatory Response in Macrophages. <i>Journal of Infectious Diseases</i> , 2017, 215, 954-965.	1.9	39
12	Design and green synthesis of polymer inspired nanoparticles for the evaluation of their antimicrobial and antifilarial efficiency. <i>RSC Advances</i> , 2014, 4, 34487.	1.7	37
13	Cestocidal activity of <i>Acacia auriculiformis</i> . <i>Journal of Helminthology</i> , 1996, 70, 171-172.	0.4	36
14	Graphene oxide dispersed supramolecular hydrogel capped benign green silver nanoparticles for anticancer, antimicrobial, cell attachment and intracellular imaging applications. <i>Journal of Molecular Liquids</i> , 2019, 282, 1-12.	2.3	35
15	Development of chitosan based gold nanomaterial as an efficient antifilarial agent: A mechanistic approach. <i>Carbohydrate Polymers</i> , 2017, 157, 1666-1676.	5.1	34
16	Phenolics and Terpenoids; the Promising New Search for Anthelmintics: A Critical Review. <i>Mini-Reviews in Medicinal Chemistry</i> , 2016, 16, 1415-1441.	1.1	34
17	Ultrasound assisted green synthesis of poly(vinyl alcohol) capped silver nanoparticles for the study of its antifilarial efficacy. <i>Applied Surface Science</i> , 2014, 288, 625-632.	3.1	33
18	Albendazole induces apoptosis in adults and microfilariae of <i>Setaria cervi</i> . <i>Experimental Parasitology</i> , 2011, 128, 236-242.	0.5	32

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19	Oxidative stress plays major role in mediating apoptosis in filarial nematode <i>Setaria cervi</i> in the presence of trans-stilbene derivatives. <i>Free Radical Biology and Medicine</i> , 2016, 93, 130-144.	1.3	31
20	<i>Wuchereria bancrofti</i> filaria activates human dendritic cells and polarizes T helper 1 and regulatory T cells via toll-like receptor 4. <i>Communications Biology</i> , 2019, 2, 169.	2.0	31
21	Chitosan biopolymer functionalized gold nanoparticles with controlled cytotoxicity and improved antifilarial efficacy. <i>Advanced Composites and Hybrid Materials</i> , 2018, 1, 577-590.	9.9	30
22	Antifilarial effect of ursolic acid from <i>Nyctanthes arbortristis</i> : Molecular and biochemical evidences. <i>Parasitology International</i> , 2014, 63, 717-728.	0.6	27
23	Synthesis of smart graphene quantum dots: A benign biomaterial for prominent intracellular imaging and improvement of drug efficacy. <i>Applied Surface Science</i> , 2019, 495, 143562.	3.1	27
24	A supramolecular hydrogel for generation of a benign DNA-hydrogel. <i>RSC Advances</i> , 2015, 5, 105961-105968.	1.7	26
25	Quinolone-fused cyclic sulfonamide as a novel benign antifilarial agent. <i>Scientific Reports</i> , 2018, 8, 12073.	1.6	26
26	Free radicals mediated membrane damage by the saponins acaciaside A and acaciaside B. <i>Phytotherapy Research</i> , 2004, 18, 191-194.	2.8	23
27	Surface proteins of <i>Setaria cervi</i> induce inflammation in macrophage through Toll-like receptor 4 (TLR4)-mediated signalling pathway. <i>Parasite Immunology</i> , 2017, 39, e12389.	0.7	23
28	A double-blind controlled field trial of doxycycline and albendazole in combination for the treatment of bancroftian filariasis in India. <i>Acta Tropica</i> , 2013, 125, 150-156.	0.9	22
29	Aryl quinolinyl hydrazone derivatives as anti-inflammatory agents that inhibit TLR4 activation in the macrophages. <i>European Journal of Pharmaceutical Sciences</i> , 2019, 134, 102-115.	1.9	22
30	Carbohydrate polymer inspired silver nanoparticles for filaricidal and mosquitocidal activities: A comprehensive view. <i>Carbohydrate Polymers</i> , 2016, 137, 390-401.	5.1	21
31	Design and synthesis of reduced graphene oxide based supramolecular scaffold: A benign microbial resistant network for enzyme immobilization and cell growth. <i>Materials Science and Engineering C</i> , 2017, 75, 1168-1177.	3.8	21
32	Exploration of antifilarial activity of gold nanoparticle against human and bovine filarial parasites: A nanomedicinal mechanistic approach. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 161, 236-243.	2.5	20
33	Metabolic Inhibitors as Antiparasitic Drugs: Pharmacological, Biochemical and Molecular Perspectives. <i>Current Drug Metabolism</i> , 2016, 17, 937-970.	0.7	20
34	Thioredoxin reductase from the bovine filarial parasite <i>Setaria cervi</i> : Studies on its localization and optimization of the extraction. <i>International Journal of Biological Macromolecules</i> , 2018, 107, 2375-2384.	3.6	19
35	Evidence of apoptosis in <i>Raillietina echinobothrida</i> induced by methanolic extracts of three traditional medicinal plants of Northeast India. <i>Experimental Parasitology</i> , 2013, 134, 466-473.	0.5	18
36	Molecular evidence on the occurrence of co-infection with <i>Pichia guilliermondii</i> and <i>Wuchereria bancrofti</i> in two filarial endemic districts of India. <i>Infectious Diseases of Poverty</i> , 2014, 3, 13.	1.5	17

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37	Antifilarial activity of azadirachtin fuelled through reactive oxygen species induced apoptosis: a thorough molecular study on <i>Setaria cervi</i> . <i>Journal of Helminthology</i> , 2019, 93, 519-528.	0.4	16
38	Polyphenol enriched ethanolic extract of <i>Cajanus scarabaeoides</i> (L.) Thouars exerts potential antifilarial activity by inducing oxidative stress and programmed cell death. <i>PLoS ONE</i> , 2018, 13, e0208201.	1.1	15
39	C -cinnamoyl glycosides as a new class of anti-filarial agents. <i>European Journal of Medicinal Chemistry</i> , 2016, 114, 308-317.	2.6	14
40	Thiol antioxidant thioredoxin reductase: A prospective biochemical crossroads between anticancer and antiparasitic treatments of the modern era. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 249-267.	3.6	14
41	Optimization of growth determinants of a potent cellulolytic bacterium isolated from lignocellulosic biomass for enhancing biogas production. <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 1565-1583.	2.1	13
42	Studying the Biological Activities and Molecular Docking of Some Novel Benzosultams and Benzosultones. <i>Current Bioactive Compounds</i> , 2017, 13, .	0.2	13
43	A review on the druggability of a thiol-based enzymatic antioxidant thioredoxin reductase for treating filariasis and other parasitic infections. <i>International Journal of Biological Macromolecules</i> , 2020, 142, 125-141.	3.6	12
44	Polyphenol oxidase-based luminescent enzyme hydrogel: an efficient redox active immobilized scaffold. <i>Bulletin of Materials Science</i> , 2018, 41, 1.	0.8	10
45	Ginger extract ameliorates phosphamidon induced hepatotoxicity. <i>Indian Journal of Experimental Biology</i> , 2015, 53, 574-84.	0.5	10
46	In vitro antifilarial activity of <i>Azadirachta indica</i> aqueous extract through reactive oxygen species enhancement. <i>Asian Pacific Journal of Tropical Medicine</i> , 2014, 7, 841-848.	0.4	9
47	Evidence for <i>Wolbachia</i> symbiosis in microfilariae of <i>Wuchereria bancrofti</i> from West Bengal, India. <i>Journal of Biosciences</i> , 2010, 35, 73-77.	0.5	8
48	Ethanolic extract of <i>Azadirachta indica</i> (A. Juss.) causing apoptosis by ROS upregulation in <i>Dirofilaria immitis</i> microfilaria. <i>Research in Veterinary Science</i> , 2014, 97, 309-317.	0.9	8
49	Effect of bovine serum albumin on tartrate-modified manganese ferrite nano hollow spheres: spectroscopic and toxicity study. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 10726-10737.	1.3	8
50	Potential of salicylic acid activity derived from stress-induced (water) Tomato against <i>Meloidogyne incognita</i> . <i>Archives of Phytopathology and Plant Protection</i> , 2012, 45, 1909-1916.	0.6	7
51	<i>Diospyros perigrana</i> bark extract induced apoptosis in filarial parasite <i>Setaria cervi</i> through generation of reactive oxygen species. <i>Pharmaceutical Biology</i> , 2015, 53, 813-823.	1.3	7
52	Senna plant generates reactive oxygen species (ROS) and induces apoptosis in <i>Hymenolepis diminuta</i> . <i>Molecular and Biochemical Parasitology</i> , 2020, 238, 111297.	0.5	7
53	A review on the interactions between dendritic cells, filarial parasite and parasite-derived molecules in regulating the host immune responses. <i>Scandinavian Journal of Immunology</i> , 2021, 93, e13001.	1.3	7
54	Antifilarial Effect of a Combination of Botanicals from <i>Acacia auriculiformis</i> and <i>Centella asiatica</i> on Canine <i>Dirofilaria</i> infestation. <i>Pharmaceutical Biology</i> , 1998, 36, 107-110.	1.3	6

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55	A Highly Selective Fluorescence Turn-On Probe for the Sensing and Bioimaging of Hypochlorite Anion in Aqueous Media. <i>ChemistrySelect</i> , 2018, 3, 6707-6713.	0.7	6
56	Influence of autophagy, apoptosis and their interplay in filaricidal activity of C-cinnamoyl glycosides. <i>Parasitology</i> , 2019, 146, 1451-1461.	0.7	6
57	Filarial thioredoxin reductase exerts anti-inflammatory effects upon lipopolysaccharide induced inflammation in macrophages. <i>International Journal of Biological Macromolecules</i> , 2021, 193, 1379-1390.	3.6	6
58	Improved efficacy of tetracycline by acaciasides on <i>Dirofilaria immitis</i> . <i>Parasitology Research</i> , 2009, 105, 697-702.	0.6	5
59	Inhibition of thioredoxin reductase (TrxR) triggers oxidative stress-induced apoptosis in filarial nematode <i>Setaria cervi</i> channelized through ASK-1-p38 mediated caspase activation. <i>Molecular and Biochemical Parasitology</i> , 2021, 242, 111364.	0.5	5
60	Exploring the homolog of a novel proinflammatory microfilarial sheath protein (MfP) of <i>Wuchereria bancrofti</i> in the adult-stage bovine filarial parasite <i>Setaria cervi</i> . <i>Journal of Helminthology</i> , 2020, 94, e15.	0.4	4
61	Disruption of redox homeostasis with synchronized activation of apoptosis highlights the antifilarial efficacy of novel piperine derivatives: An in vitro mechanistic approach. <i>Free Radical Biology and Medicine</i> , 2021, 169, 343-360.	1.3	3
62	Effect of Senna plant on the mitochondrial activity of <i>Hymenolepis diminuta</i> . <i>Journal of Parasitic Diseases</i> , 2022, 46, 139-151.	0.4	3
63	Redox Regulatory Circuits as Targets for Therapeutic Intervention of Bancroftian Filariasis: Biochemical, Molecular, and Pharmacological Perspectives. , 2019, , 185-208.		3
64	<i>Pseudomonas fluorescens</i> mediated suppression of <i>Meloidogyne incognita</i> infection of cowpea and tomato. <i>Archives of Phytopathology and Plant Protection</i> , 2013, 46, 607-616.	0.6	2
65	An approach toward optimization of the influential growth determinants of opportunistic yeast isolate <i>Pichia guilliermondii</i> . <i>Preparative Biochemistry and Biotechnology</i> , 2016, 46, 440-445.	1.0	2
66	Nanopharmaceuticals to target antifilarials: Administration of old age drugs in a novel way. , 2021, , 329-356.		2
67	Crude protein fraction with high thioredoxin reductase (TrxR) enzyme activity from filarial parasite <i>Setaria cervi</i> counters lipopolysaccharide (LPS)-induced inflammation in macrophages. <i>Parasitology Research</i> , 2022, 121, 1379-1388.	0.6	2
68	Triggering the downstream apoptotic signal inside human parasitic organisms demonstrates a promising approach for anti-parasitic drug development: A mechanistic perspective. <i>Advances in Protein Chemistry and Structural Biology</i> , 2021, 125, 193-213.	1.0	1
69	Phenolics and Terpenoids; the Promising New Search for Anthelmintics: A Critical Review. <i>Mini-Reviews in Medicinal Chemistry</i> , 2015, ,	1.1	1
70	Anti-microfilarial Activities of <i>Azadirachta indica</i> (A. Juss.) Against <i>Dirofilaria immitis</i> in Dogs ( <i>Canis</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.4	0