

Bin Zhan

List of Publications by Year in descending order

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Version: 2024-02-01

95
papers

3,243
citations

159358

30
h-index

182168

51
g-index

102
all docs

102
docs citations

102
times ranked

3484
citing authors

#	ARTICLE	IF	CITATIONS
1	Antibodies against a secreted protein from hookworm larvae reduce the intensity of hookworm infection in humans and vaccinated laboratory animals. <i>FASEB Journal</i> , 2005, 19, 1743-1745.	0.2	169
2	Genome of the human hookworm <i>Necator americanus</i> . <i>Nature Genetics</i> , 2014, 46, 261-269.	9.4	166
3	Emerging Patterns of Hookworm Infection: Influence of Aging on the Intensity of <i>Necator</i> Infection in Hainan Province, People's Republic of China. <i>Clinical Infectious Diseases</i> , 2002, 35, 1336-1344.	2.9	142
4	Roadmap to developing a recombinant coronavirus S protein receptor-binding domain vaccine for severe acute respiratory syndrome. <i>Expert Review of Vaccines</i> , 2012, 11, 1405-1413.	2.0	126
5	Hookworm recombinant protein promotes regulatory T cell responses that suppress experimental asthma. <i>Science Translational Medicine</i> , 2016, 8, 362ra143.	5.8	123
6	Accelerating the development of a therapeutic vaccine for human Chagas disease: rationale and prospects. <i>Expert Review of Vaccines</i> , 2012, 11, 1043-1055.	2.0	117
7	Yeast-expressed recombinant protein of the receptor-binding domain in SARS-CoV spike protein with deglycosylated forms as a SARS vaccine candidate. <i>Human Vaccines and Immunotherapeutics</i> , 2014, 10, 648-658.	1.4	112
8	Molecular Cloning, Biochemical Characterization, and Partial Protective Immunity of the Heme-Binding Glutathione <i>S</i> -Transferases from the Human Hookworm <i>Necator americanus</i> . <i>Infection and Immunity</i> , 2010, 78, 1552-1563.	1.0	89
9	Vaccination with a Paramyosin-Based Multi-Epitope Vaccine Elicits Significant Protective Immunity against <i>Trichinella spiralis</i> Infection in Mice. <i>Frontiers in Microbiology</i> , 2017, 8, 1475.	1.5	85
10	A developmentally regulated metalloprotease secreted by host-stimulated <i>Ancylostoma caninum</i> third-stage infective larvae is a member of the astacin family of proteases. <i>Molecular and Biochemical Parasitology</i> , 2002, 120, 291-296.	0.5	82
11	The evaluation of recombinant hookworm antigens as vaccines in hamsters (<i>Mesocricetus auratus</i>) challenged with human hookworm, <i>Necator americanus</i> . <i>Experimental Parasitology</i> , 2008, 118, 32-40.	0.5	80
12	Ac-FAR-1, a 20 kDa fatty acid- and retinol-binding protein secreted by adult <i>Ancylostoma caninum</i> hookworms: gene transcription pattern, ligand binding properties and structural characterisation. <i>Molecular and Biochemical Parasitology</i> , 2003, 126, 63-71.	0.5	67
13	Advancing a multivalent "Pan-anthelmintic" vaccine against soil-transmitted nematode infections. <i>Expert Review of Vaccines</i> , 2014, 13, 321-331.	2.0	65
14	SARS-CoV-2 RBD219-N1C1: A yeast-expressed SARS-CoV-2 recombinant receptor-binding domain candidate vaccine stimulates virus neutralizing antibodies and T-cell immunity in mice. <i>Human Vaccines and Immunotherapeutics</i> , 2021, 17, 2356-2366.	1.4	64
15	Excretory/Secretory Products from <i>Trichinella spiralis</i> Adult Worms Ameliorate DSS-Induced Colitis in Mice. <i>PLoS ONE</i> , 2014, 9, e96454.	1.1	57
16	A yeast-expressed RBD-based SARS-CoV-2 vaccine formulated with 3M-052-alum adjuvant promotes protective efficacy in non-human primates. <i>Science Immunology</i> , 2021, 6, .	5.6	53
17	A therapeutic nanoparticle vaccine against <i>Trypanosoma cruzi</i> in a BALB/c mouse model of Chagas disease. <i>Human Vaccines and Immunotherapeutics</i> , 2016, 12, 976-987.	1.4	52
18	Oral Vaccination with Attenuated <i>Salmonella typhimurium</i> -Delivered TsPmy DNA Vaccine Elicits Protective Immunity against <i>Trichinella spiralis</i> in BALB/c Mice. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0004952.	1.3	49

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19	Complement Evasion: An Effective Strategy That Parasites Utilize to Survive in the Host. <i>Frontiers in Microbiology</i> , 2019, 10, 532.	1.5	49
20	Genetic modification to design a stable yeast-expressed recombinant SARS-CoV-2 receptor binding domain as a COVID-19 vaccine candidate. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021, 1865, 129893.	1.1	49
21	Expression, purification, immunogenicity, and protective efficacy of a recombinant Tc24 antigen as a vaccine against <i>Trypanosoma cruzi</i> infection in mice. <i>Vaccine</i> , 2015, 33, 4505-4512.	1.7	41
22	A therapeutic vaccine prototype induces protective immunity and reduces cardiac fibrosis in a mouse model of chronic <i>Trypanosoma cruzi</i> infection. <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007413.	1.3	40
23	Cysteine mutagenesis improves the production without abrogating antigenicity of a recombinant protein vaccine candidate for human chagas disease. <i>Human Vaccines and Immunotherapeutics</i> , 2017, 13, 621-633.	1.4	39
24	Process development and scale-up optimization of the SARS-CoV-2 receptor binding domain-based vaccine candidate, RBD219-N1C1. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 4153-4165.	1.7	37
25	Vaccines to combat river blindness: expression, selection and formulation of vaccines against infection with <i>Onchocerca volvulus</i> in a mouse model. <i>International Journal for Parasitology</i> , 2014, 44, 637-646.	1.3	36
26	Development of a Luminex Bead Based Assay for Diagnosis of Toxocariasis Using Recombinant Antigens Tc-CTL-1 and Tc-TES-26. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0004168.	1.3	36
27	IgG Induced by Vaccination With <i>Ascaris suum</i> Extracts Is Protective Against Infection. <i>Frontiers in Immunology</i> , 2018, 9, 2535.	2.2	36
28	The Onchocerciasis Vaccine for Africa "TOVA" Initiative. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003422.	1.3	35
29	<i>Trichinella spiralis</i> Paramyosin Binds Human Complement C1q and Inhibits Classical Complement Activation. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0004310.	1.3	34
30	Mechanistic and Single-Dose In Vivo Therapeutic Studies of Cry5B Anthelmintic Action against Hookworms. <i>PLoS Neglected Tropical Diseases</i> , 2012, 6, e1900.	1.3	33
31	Production of recombinant TSA-1 and evaluation of its potential for the immuno-therapeutic control of <i>Trypanosoma cruzi</i> infection in mice. <i>Human Vaccines and Immunotherapeutics</i> , 2019, 15, 210-219.	1.4	33
32	Ac-SAA-1, an immunodominant 16 kDa surface-associated antigen of infective larvae and adults of <i>Ancylostoma caninum</i> . <i>International Journal for Parasitology</i> , 2004, 34, 1037-1045.	1.3	32
33	Heat shock protein 70 from <i>Trichinella spiralis</i> induces protective immunity in BALB/c mice by activating dendritic cells. <i>Vaccine</i> , 2014, 32, 4412-4419.	1.7	32
34	Excretory/Secretory Products From <i>Trichinella spiralis</i> Adult Worms Attenuated DSS-Induced Colitis in Mice by Driving PD-1-Mediated M2 Macrophage Polarization. <i>Frontiers in Immunology</i> , 2020, 11, 563784.	2.2	31
35	Yeast-expressed recombinant As16 protects mice against <i>Ascaris suum</i> infection through induction of a Th2-skewed immune response. <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0005769.	1.3	30
36	<i>Ascaris</i> Larval Infection and Lung Invasion Directly Induce Severe Allergic Airway Disease in Mice. <i>Infection and Immunity</i> , 2018, 86, .	1.0	30

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37	Therapeutic effect of <i>Schistosoma japonicum</i> cystatin on bacterial sepsis in mice. <i>Parasites and Vectors</i> , 2017, 10, 222.	1.0	29
38	<i>Trichinella spiralis</i> Calreticulin Binds Human Complement C1q As an Immune Evasion Strategy. <i>Frontiers in Immunology</i> , 2017, 8, 636.	2.2	29
39	<i>Trichinella spiralis</i> Infection Mitigates Collagen-Induced Arthritis via Programmed Death 1-Mediated Immunomodulation. <i>Frontiers in Immunology</i> , 2018, 9, 1566.	2.2	29
40	Preventive and therapeutic effects of <i>Trichinella spiralis</i> adult extracts on allergic inflammation in an experimental asthma mouse model. <i>Parasites and Vectors</i> , 2019, 12, 326.	1.0	28
41	Diversity in the structures and ligand-binding sites of nematode fatty acid and retinol-binding proteins revealed by Na-FAR-1 from <i>Necator americanus</i> . <i>Biochemical Journal</i> , 2015, 471, 403-414.	1.7	27
42	<i>Schistosoma haematobium</i> Extracellular Vesicle Proteins Confer Protection in a Heterologous Model of Schistosomiasis. <i>Vaccines</i> , 2020, 8, 416.	2.1	27
43	Transferring Luminex® cytokine assays to a wall-less plate technology: Validation and comparison study with plasma and cell culture supernatants. <i>Journal of Immunological Methods</i> , 2017, 440, 74-82.	0.6	26
44	<i>Trichinella spiralis</i> Excretory/Secretory Products Stimulate Host Regulatory T Cell Differentiation through Activating Dendritic Cells. <i>Cells</i> , 2019, 8, 1404.	1.8	26
45	Vaccination of Gerbils with Bm-103 and Bm-RAL-2 Concurrently or as a Fusion Protein Confers Consistent and Improved Protection against <i>Brugia malayi</i> Infection. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0004586.	1.3	25
46	Protective immunity elicited by the nematode-conserved As37 recombinant protein against <i>Ascaris suum</i> infection. <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0008057.	1.3	25
47	Partially protective immunity induced by the 14-3-3 protein from <i>Trichinella spiralis</i> . <i>Veterinary Parasitology</i> , 2016, 231, 63-68.	0.7	24
48	Calling for rapid development of a safe and effective MERS vaccine. <i>Microbes and Infection</i> , 2014, 16, 529-531.	1.0	23
49	Fusion of <i>NaASP</i> with human immunoglobulin Fc ^γ 3 abrogates histamine release from basophils sensitized with anti- <i>NaASP</i> IgE. <i>Parasite Immunology</i> , 2012, 34, 404-411.	0.7	21
50	Vaccination with a genetically modified <i>Brugia malayi</i> cysteine protease inhibitor-2 reduces adult parasite numbers and affects the fertility of female worms following a subcutaneous challenge of Mongolian gerbils (<i>Meriones unguiculatus</i>) with <i>B. malayi</i> infective larvae. <i>International Journal for Parasitology</i> , 2014, 44, 675-679.	1.3	21
51	Partially Protective Immunity Induced by a 20 kDa Protein Secreted by <i>Trichinella spiralis</i> Stichocytes. <i>PLoS ONE</i> , 2015, 10, e0136189.	1.1	21
52	Yeast-expressed recombinant SARS-CoV-2 receptor binding domain RBD203-N1 as a COVID-19 protein vaccine candidate. <i>Protein Expression and Purification</i> , 2022, 190, 106003.	0.6	21
53	Receptor-binding domain recombinant protein on alum-CpG induces broad protection against SARS-CoV-2 variants of concern. <i>Vaccine</i> , 2022, 40, 3655-3663.	1.7	21
54	The Immunomodulatory Role of Adjuvants in Vaccines Formulated with the Recombinant Antigens Ov-103 and Ov-RAL-2 against <i>Onchocerca volvulus</i> in Mice. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0004797.	1.3	20

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55	Identification of immunodominant antigens for the laboratory diagnosis of toxocariasis. <i>Tropical Medicine and International Health</i> , 2015, 20, 1787-1796.	1.0	19
56	The hookworm <i>Ancylostoma ceylanicum</i> intestinal transcriptome provides a platform for selecting drug and vaccine candidates. <i>Parasites and Vectors</i> , 2016, 9, 518.	1.0	19
57	Ts-Hsp70 induces protective immunity against <i>Trichinella spiralis</i> infection in mouse by activating dendritic cells through TLR2 and TLR4. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006502.	1.3	19
58	<i>Trichuris muris</i> whey acidic protein induces type 2 protective immunity against whipworm. <i>PLoS Pathogens</i> , 2018, 14, e1007273.	2.1	18
59	Antibody responses against the vaccine antigens Ov-103 and Ov-RAL-2 are associated with protective immunity to <i>Onchocerca volvulus</i> infection in both mice and humans. <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007730.	1.3	18
60	Therapeutic efficacy of <i>Schistosoma japonicum</i> cystatin on sepsis-induced cardiomyopathy in a mouse model. <i>Parasites and Vectors</i> , 2020, 13, 260.	1.0	18
61	Biophysical and formulation studies of the <i>Schistosoma mansoni</i> TSP-2 extracellular domain recombinant protein, a lead vaccine candidate antigen for intestinal schistosomiasis. <i>Human Vaccines and Immunotherapeutics</i> , 2013, 9, 2351-2361.	1.4	17
62	Vaccination with recombinant <i>Brugia malayi</i> cystatin proteins alters worm migration, homing and final niche selection following a subcutaneous challenge of Mongolian gerbils (<i>Meriones</i>). <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0154572.	1.0	16
63	Genetic Adjuvantation of a Cell-Based Therapeutic Vaccine for Amelioration of Chagasic Cardiomyopathy. <i>Infection and Immunity</i> , 2017, 85, .	1.0	16
64	Ligand binding properties of two <i>Brugia malayi</i> fatty acid and retinol (FAR) binding proteins and their vaccine efficacies against challenge infection in gerbils. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006772.	1.3	16
65	<i>Schistosoma japonicum</i> Cystatin Alleviates Sepsis Through Activating Regulatory Macrophages. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 617461.	1.8	16
66	<i>Trichinella spiralis</i> Calreticulin S-Domain Binds to Human Complement C1q to Interfere With C1q-Mediated Immune Functions. <i>Frontiers in Immunology</i> , 2020, 11, 572326.	2.2	14
67	Vaccination with chimeric protein induces protection in murine model against ascariasis. <i>Vaccine</i> , 2021, 39, 394-401.	1.7	14
68	Molecular cloning and characterization of Ac-TMP-2, a tissue inhibitor of metalloproteinase secreted by adult <i>Ancylostoma caninum</i> . <i>Molecular and Biochemical Parasitology</i> , 2008, 162, 142-148.	0.5	13
69	Protective Effect of a Prime-Boost Strategy with the Ts87 Vaccine against <i>Trichinella spiralis</i> Infection in Mice. <i>BioMed Research International</i> , 2014, 2014, 1-9.	0.9	13
70	Expression and purification of an engineered, yeast-expressed <i>Leishmania donovani</i> nucleoside hydrolase with immunogenic properties. <i>Human Vaccines and Immunotherapeutics</i> , 2016, 12, 1-14.	1.4	12
71	A Multiple Antigen Peptide Vaccine Containing CD4+ T Cell Epitopes Enhances Humoral Immunity against <i>Trichinella spiralis</i> Infection in Mice. <i>Journal of Immunology Research</i> , 2020, 2020, 1-14.	0.9	12
72	Expression, purification, immunogenicity and protective efficacy of a recombinant nucleoside hydrolase from <i>Leishmania donovani</i> , a vaccine candidate for preventing cutaneous leishmaniasis. <i>Protein Expression and Purification</i> , 2017, 130, 129-136.	0.6	11

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73	Heterologous Prime-Boost Vaccination Enhances TsPmy TM s Protective Immunity against <i>Trichinella spiralis</i> Infection in a Murine Model. <i>Frontiers in Microbiology</i> , 2017, 8, 1394.	1.5	11
74	Structure of SALO, a leishmaniasis vaccine candidate from the sand fly <i>Lutzomyia longipalpis</i> . <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0005374.	1.3	11
75	Mapping of the complement C1q binding site on <i>Trichinella spiralis</i> paramyosin. <i>Parasites and Vectors</i> , 2018, 11, 666.	1.0	11
76	China TM s shifting neglected parasitic infections in an era of economic reform, urbanization, disease control, and the Belt and Road Initiative. <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0006946.	1.3	11
77	<i>Onchocerca volvulus</i> bivalent subunit vaccine induces protective immunity in genetically diverse collaborative cross recombinant inbred intercross mice. <i>Npj Vaccines</i> , 2021, 6, 17.	2.9	11
78	Identification, Characterization, and Structure of Tm16 from <i>Trichuris muris</i> . <i>Journal of Parasitology Research</i> , 2017, 2017, 1-10.	0.5	10
79	Application of Quantitative PCR in the Diagnosis and Evaluating Treatment Efficacy of Leishmaniasis. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 581639.	1.8	10
80	Identification and characterization of CD4 + T cell epitopes present in <i>Trichinella spiralis</i> paramyosin. <i>Veterinary Parasitology</i> , 2016, 231, 59-62.	0.7	9
81	Therapeutic Efficacy of Excretory-Secretory Products of <i>Trichinella spiralis</i> Adult Worms on Sepsis-Induced Acute Lung Injury in a Mouse Model. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 653843.	1.8	9
82	Therapeutic Effect of <i>Schistosoma japonicum</i> Cystatin on Atherosclerotic Renal Damage. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 760980.	1.8	9
83	Bone erosion in inflammatory arthritis is attenuated by <i>Trichinella spiralis</i> through inhibiting M1 monocyte/macrophage polarization. <i>IScience</i> , 2022, 25, 103979.	1.9	9
84	The parasite-derived rOv-ASP-1 is an effective antigen-sparing CD4 + T cell-dependent adjuvant for the trivalent inactivated influenza vaccine, and functions in the absence of MyD88 pathway. <i>Vaccine</i> , 2018, 36, 3650-3665.	1.7	7
85	<i>Trichinella spiralis</i> Paramyosin Induces Colonic Regulatory T Cells to Mitigate Inflammatory Bowel Disease. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 695015.	1.8	7
86	Two Antibody-Guided Lactic-co-Glycolic Acid-Polyethylenimine (LGA-PEI) Nanoparticle Delivery Systems for Therapeutic Nucleic Acids. <i>Pharmaceuticals</i> , 2021, 14, 841.	1.7	7
87	Advances in vaccine development for human trichuriasis. <i>Parasitology</i> , 2021, , 1-12.	0.7	6
88	Advancing a Human Onchocerciasis Vaccine From Antigen Discovery to Efficacy Studies Against Natural Infection of Cattle With <i>Onchocerca ochengi</i> . <i>Frontiers in Cellular and Infection Microbiology</i> , 2022, 12, 869039.	1.8	5
89	ASCVac-1, a Multi-Peptide Chimeric Vaccine, Protects Mice Against <i>Ascaris suum</i> Infection. <i>Frontiers in Immunology</i> , 2021, 12, 788185.	2.2	5
90	Co-Administration of Adjuvanted Recombinant Ov-103 and Ov-RAL-2 Vaccines Confer Protection against Natural Challenge in A Bovine <i>Onchocerca ochengi</i> Infection Model of Human Onchocerciasis. <i>Vaccines</i> , 2022, 10, 861.	2.1	5

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91	A scalable and reproducible manufacturing process for <i>Phlebotomus papatasi</i> salivary protein PpSP15, a vaccine candidate for leishmaniasis. <i>Protein Expression and Purification</i> , 2021, 177, 105750.	0.6	4
92	Mucosal Vaccination With Recombinant Tm-WAP49 Protein Induces Protective Humoral and Cellular Immunity Against Experimental Trichuriasis in AKR Mice. <i>Frontiers in Immunology</i> , 2022, 13, 800295.	2.2	4
93	Mutations to Cysteine Residues in the <i>Trypanosoma cruzi</i> B-Cell Superantigen Tc24 Diminish Susceptibility to IgM-Mediated Hydrolysis. <i>Journal of Parasitology</i> , 2017, 103, 579-583.	0.3	3
94	Expression, purification, crystallization and crystallographic study of <i>Lutzomyia longipalpis</i> LJL143. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015, 71, 925-928.	0.4	2
95	2257. <i>Journal of Clinical and Translational Science</i> , 2017, 1, 60-60.	0.3	0