

Carlos Angulo

List of Publications by Year in descending order

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Version: 2024-02-01

108
papers

1,851
citations

279701

23
h-index

377752

34
g-index

110
all docs

110
docs citations

110
times ranked

2313
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel design of a multi-antigenic, multistage and multi-epitope vaccine against <i>Helicobacter pylori</i> : An in silico approach. <i>Infection, Genetics and Evolution</i> , 2017, 49, 309-317.	1.0	148
2	Food-Grade Organisms as Vaccine Biofactories and Oral Delivery Vehicles. <i>Trends in Biotechnology</i> , 2016, 34, 124-136.	4.9	88
3	Dietary administration of microalgae alone or supplemented with <i>Lactobacillus sakei</i> affects immune response and intestinal morphology of Pacific red snapper (<i>Lutjanus peru</i>). <i>Fish and Shellfish Immunology</i> , 2014, 40, 208-216.	1.6	77
4	Biocontrol activity of the marine yeast <i>Debaryomyces hansenii</i> against phytopathogenic fungi and its ability to inhibit mycotoxins production in maize grain (<i>Zea mays</i> L.). <i>Biological Control</i> , 2016, 97, 70-79.	1.4	63
5	Antioxidant, intestinal immune status and anti-inflammatory potential of <i>Chenopodium ambrosioides</i> L. in fish: In vitro and in vivo studies. <i>Fish and Shellfish Immunology</i> , 2019, 86, 420-428.	1.6	47
6	The potential use of <i>Debaryomyces hansenii</i> for the biological control of pathogenic fungi in food. <i>Biological Control</i> , 2018, 121, 216-222.	1.4	40
7	Humoral immune response and TLR9 gene expression in Pacific red snapper (<i>Lutjanus peru</i>) experimentally exposed to <i>Aeromonas veronii</i> . <i>Fish and Shellfish Immunology</i> , 2015, 42, 289-296.	1.6	39
8	Antioxidant screening and phenolic content of ethanol extracts of selected Baja California Peninsula macroalgae. <i>Journal of Food Science and Technology</i> , 2017, 54, 422-429.	1.4	36
9	New trends in innovative vaccine development against <i>Actinobacillus pleuropneumoniae</i> . <i>Veterinary Microbiology</i> , 2018, 217, 66-75.	0.8	36
10	Effect of mixed- <i>Bacillus</i> spp isolated from pustulose ark <i>Anadara tuberculosa</i> on growth, survival, viral prevalence and immune-related gene expression in shrimp <i>Litopenaeus vannamei</i> . <i>Fish and Shellfish Immunology</i> , 2016, 59, 95-102.	1.6	35
11	Marine yeasts and bacteria as biological control agents against anthracnose on mango. <i>Journal of Phytopathology</i> , 2017, 165, 833-840.	0.5	34
12	Algevir: An Expression System for Microalgae Based on Viral Vectors. <i>Frontiers in Microbiology</i> , 2017, 8, 1100.	1.5	33
13	Probiotic and nutritional effects of <i>Debaryomyces hansenii</i> on animals. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 7689-7699.	1.7	33
14	<i>Debaryomyces hansenii</i> up regulates superoxide dismutase gene expression and enhances the immune response and survival in Pacific red snapper (<i>Lutjanus peru</i>) leukocytes after <i>Vibrio parahaemolyticus</i> infection. <i>Developmental and Comparative Immunology</i> , 2017, 71, 18-27.	1.0	31
15	Dietary yeast <i>Sterigmatomyces halophilus</i> enhances mucosal immunity of gilthead seabream (<i>Sparus</i>) Tj ETQq1 1 0,784314 rgBT /Overlock 10 Tf 5	1.6	31
16	Gold nanoparticles (AuNP) exert immunostimulatory and protective effects in shrimp (<i>Litopenaeus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.6	31
17	Probiotic effects of marine <i>Debaryomyces hansenii</i> CBS 8339 on innate immune and antioxidant parameters in newborn goats. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 2339-2352.	1.7	30
18	Prospects on the Use of <i>Schizochytrium</i> sp. to Develop Oral Vaccines. <i>Frontiers in Microbiology</i> , 2018, 9, 2506.	1.5	28

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19	Effect of a Synbiotic Mix on Intestinal Structural Changes, and Salmonella Typhimurium and Clostridium Perfringens Colonization in Broiler Chickens. <i>Animals</i> , 2019, 9, 777.	1.0	28
20	Marine yeast <i>Yarrowia lipolytica</i> improves the immune responses in Pacific red snapper (<i>Lutjanus peru</i>) leukocytes. <i>Fish and Shellfish Immunology</i> , 2017, 70, 48-56.	1.6	27
21	Chikungunya virus vaccines: Current strategies and prospects for developing plant-made vaccines. <i>Vaccine</i> , 2015, 33, 3650-3658.	1.7	26
22	Expression of an immunogenic LTB-based chimeric protein targeting Zaire ebolavirus epitopes from GP1 in plant cells. <i>Plant Cell Reports</i> , 2017, 36, 355-365.	2.8	25
23	Molecular cloning and comparative responses of Toll-like receptor 22 following ligands stimulation and parasitic infection in yellowtail (<i>Seriola lalandi</i>). <i>Fish and Shellfish Immunology</i> , 2015, 46, 323-333.	1.6	24
24	Leukocyte susceptibility and immune response against <i>Vibrio parahaemolyticus</i> in <i>Totoaba macdonaldi</i> . <i>Developmental and Comparative Immunology</i> , 2016, 65, 258-267.	1.0	24
25	A Perspective on the Development of Plant-Made Vaccines in the Fight against Ebola Virus. <i>Frontiers in Immunology</i> , 2017, 8, 252.	2.2	23
26	C-type lectin 17A and macrophage-expressed receptor genes are magnified by fungal β -glucan after <i>Vibrio parahaemolyticus</i> infection in <i>Totoaba macdonaldi</i> cells. <i>Immunobiology</i> , 2019, 224, 102-109.	0.8	23
27	<i>Bacillus subtilis</i> comes of age as a vaccine production host and delivery vehicle. <i>Expert Review of Vaccines</i> , 2015, 14, 1135-48.	2.0	23
28	<i>Sterigmatomyces halophilus</i> β -glucan improves the immune response and bacterial resistance in Pacific red snapper (<i>Lutjanus peru</i>) peripheral blood leukocytes: In vitro study. <i>Fish and Shellfish Immunology</i> , 2018, 78, 392-403.	1.6	22
29	Antioxidant and immunostimulant potentials of <i>Chenopodium ambrosioides</i> L. in Pacific red snapper (<i>Lutjanus peru</i>). <i>Aquaculture</i> , 2019, 513, 734414.	1.7	22
30	Probiotic properties and fatty acid composition of the yeast <i>Kluyveromyces lactis</i> M3. In vivo immunomodulatory activities in gilthead seabream (<i>Sparus aurata</i>). <i>Fish and Shellfish Immunology</i> , 2019, 94, 389-397.	1.6	22
31	Methylmercury, cadmium and arsenic(III)-induced toxicity, oxidative stress and apoptosis in Pacific red snapper leukocytes. <i>Aquatic Toxicology</i> , 2019, 213, 105223.	1.9	22
32	Probiotic and Immunomodulatory Activity of Marine Yeast <i>Yarrowia lipolytica</i> Strains and Response Against <i>Vibrio parahaemolyticus</i> in Fish. <i>Probiotics and Antimicrobial Proteins</i> , 2021, 13, 1292-1305.	1.9	22
33	Immobilizing yeast β -glucan on zinc-layered hydroxide nanoparticle improves innate immune response in fish leukocytes. <i>Fish and Shellfish Immunology</i> , 2018, 82, 504-513.	1.6	21
34	<i>Debaryomyces hansenii</i> CBS 8339 β -glucan enhances immune responses and down-stream gene signaling pathways in goat peripheral blood leukocytes. <i>Developmental and Comparative Immunology</i> , 2018, 88, 173-182.	1.0	21
35	An overview of nanogel-based vaccines. <i>Expert Review of Vaccines</i> , 2019, 18, 951-968.	2.0	21
36	B-cell activating CpG ODN 1668 enhance the immune response of Pacific red snapper (<i>Lutjanus peru</i>) exposed to <i>Vibrio parahaemolyticus</i> . <i>Developmental and Comparative Immunology</i> , 2016, 62, 72-81.	1.0	20

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37	Evaluation of ToxA and <i>Vibrio parahaemolyticus</i> lysate on humoral immune response and immune-related genes in Pacific red snapper. <i>Fish and Shellfish Immunology</i> , 2016, 56, 310-321.	1.6	20
38	Developing oral nanovaccines for fish: a modern trend to fight infectious diseases. <i>Reviews in Aquaculture</i> , 2021, 13, 1172-1192.	4.6	20
39	TLR21's agonists in combination with <i>Aeromonas</i> antigens synergistically up-regulate functional TLR21 and cytokine gene expression in yellowtail leucocytes. <i>Developmental and Comparative Immunology</i> , 2016, 61, 107-115.	1.0	19
40	Dietary supplementation of marine yeast <i>Yarrowia lipolytica</i> modulates immune response in <i>Litopenaeus vannamei</i> . <i>Fish and Shellfish Immunology</i> , 2020, 105, 469-476.	1.6	19
41	Biosynthesis of β -D-glucan-gold nanoparticles, cytotoxicity and oxidative stress in mouse splenocytes. <i>International Journal of Biological Macromolecules</i> , 2019, 134, 379-389.	3.6	18
42	In silico epitope analysis of unique and membrane associated proteins from <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> for immunogenicity and vaccine evaluation. <i>Journal of Theoretical Biology</i> , 2015, 384, 1-9.	0.8	17
43	Expression of the VP40 antigen from the Zaire ebolavirus in tobacco plants. <i>Planta</i> , 2017, 246, 123-132.	1.6	17
44	In vitro immunostimulatory potential of fungal β -glucans in pacific red snapper (<i>Lutjanus peru</i>) cells. <i>Developmental and Comparative Immunology</i> , 2017, 77, 350-358.	1.0	17
45	Plant extracts as a natural treatment against the fish ectoparasite <i>Neobenedenia</i> sp. (Monogenea: Capsalidae). <i>Journal of Helminthology</i> , 2019, 93, 57-65.	0.4	17
46	Recombinant PirA-like toxin protects shrimp against challenge with <i>Vibrio parahaemolyticus</i> , the aetiological agent of acute hepatopancreatic necrosis disease. <i>Journal of Fish Diseases</i> , 2017, 40, 1725-1729.	0.9	16
47	Enhancing gilthead seabream immune status and protection against bacterial challenge by means of antigens derived from <i>Vibrio parahaemolyticus</i> . <i>Fish and Shellfish Immunology</i> , 2017, 60, 205-218.	1.6	16
48	Immunostimulant effects and potential application of β -glucans derived from marine yeast <i>Debaryomyces hansenii</i> in goat peripheral blood leucocytes. <i>International Journal of Biological Macromolecules</i> , 2018, 116, 599-606.	3.6	16
49	Oral administration of <i>Debaryomyces hansenii</i> CBS8339- β -glucan induces trained immunity in newborn goats. <i>Developmental and Comparative Immunology</i> , 2020, 105, 103597.	1.0	16
50	Production of specific dsRNA against white spot syndrome virus in the yeast <i>Yarrowia lipolytica</i> . <i>Aquaculture Research</i> , 2018, 49, 480-491.	0.9	16
51	Caspase -1, -3, -8 and antioxidant enzyme genes are key molecular effectors following <i>Vibrio parahaemolyticus</i> and <i>Aeromonas veronii</i> infection in fish leukocytes. <i>Immunobiology</i> , 2018, 223, 562-576.	0.8	15
52	Microalgae-made vaccines against infectious diseases. <i>Algal Research</i> , 2021, 58, 102408.	2.4	15
53	In vivo and in vitro studies using larval and adult antigens from <i>Neobenedenia melleni</i> on immune response in yellowtail (<i>Seriola lalandi</i>). <i>Journal of Fish Diseases</i> , 2017, 40, 1497-1509.	0.9	14
54	Molecular characterization and expression analyses of toll like receptor-5 induced by <i>Vibrio parahaemolyticus</i> antigens in Pacific red snapper. <i>Fish and Shellfish Immunology</i> , 2017, 68, 180-189.	1.6	13

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55	Î²-D-glucan from marine yeast <i>Debaryomyces hansenii</i> BCS004 enhanced intestinal health and glucan-expressed receptor genes in Pacific red snapper <i>Lutjanus peru</i> . <i>Microbial Pathogenesis</i> , 2020, 143, 104141.	1.3	13
56	Corn-based vaccines: current status and prospects. <i>Planta</i> , 2017, 245, 875-888.	1.6	12
57	Green synthesis of gold nanoparticles using <i>Turnera diffusa</i> Willd enhanced antimicrobial properties and immune response in Longfin yellowtail leukocytes. <i>Aquaculture Research</i> , 2021, 52, 3391-3402.	0.9	12
58	Effects of pregnancy and post-kidding stages on haematochemical parameters in cross-bred goats. <i>Journal of Applied Animal Research</i> , 2018, 46, 269-273.	0.4	11
59	Dietary fulvic acid effects on survival and expression of immune-related genes in <i>Litopenaeus vannamei</i> challenged with <i>Vibrio parahaemolyticus</i> . <i>Aquaculture Research</i> , 2018, 49, 3218-3227.	0.9	11
60	A multi-epitope plant-made chimeric protein (LTBentero) targeting common enteric pathogens is immunogenic in mice. <i>Plant Molecular Biology</i> , 2020, 102, 159-169.	2.0	11
61	Effects of temperature on the life cycle of <i>Neobenedenia</i> sp. (Monogenea: Capsalidae) from <i>Seriola rivoliana</i> (Almaco jack) in Bah�a de La Paz, BCS Mexico. <i>Parasitology Research</i> , 2019, 118, 3267-3277.	0.6	10
62	Biosprospecting potential of kelp (Laminariales, Phaeophyceae) from Baja California Peninsula: phenolic content, antioxidant properties, anti-inflammatory, and cell viability. <i>Journal of Applied Phycology</i> , 2019, 31, 3115-3129.	1.5	10
63	Design of a multiepitopic Zaire ebolavirus protein and its expression in plant cells. <i>Journal of Biotechnology</i> , 2019, 295, 41-48.	1.9	10
64	Probiotic properties of <i>Debaryomyces hansenii</i> BCS004 and their immunostimulatory effect in supplemented diets for gilthead seabream (<i>Sparus aurata</i>). <i>Aquaculture Research</i> , 2021, 52, 2715-2726.	0.9	10
65	Bacterial biofilm-derived antigens: a new strategy for vaccine development against infectious diseases. <i>Expert Review of Vaccines</i> , 2021, 20, 385-396.	2.0	10
66	Plant-Based Vaccines: Antigen Design, Diversity, and Strategies for High Level Production. <i>Vaccines</i> , 2022, 10, 100.	2.1	10
67	Phytochemical composition and immunobiological activity of Hawthorn <i>Crataegus mexicana</i> nanoencapsulated in Longfin yellowtail <i>Seriola rivoliana</i> leukocytes. <i>Fish and Shellfish Immunology</i> , 2019, 92, 308-314.	1.6	9
68	Class B CpG-ODN2006 is highly associated with IgM and antimicrobial peptide gene expression through TLR9 pathway in yellowtail <i>Seriola lalandi</i> . <i>Fish and Shellfish Immunology</i> , 2018, 77, 71-82.	1.6	8
69	<i>Yarrowia lipolytica</i> , health benefits for animals. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 7577-7592.	1.7	8
70	An overview of tuberculosis plant-derived vaccines. <i>Expert Review of Vaccines</i> , 2015, 14, 877-889.	2.0	7
71	<i>Bacillus licheniformis</i> BCR 4-3 increases immune response and survival of <i>Litopenaeus vannamei</i> challenged with <i>Vibrio parahaemolyticus</i> IPNGS16. <i>Aquaculture International</i> , 2020, 28, 2303-2318.	1.1	7
72	Assessment of chemical, biological and immunological properties of <i>Damiana de California</i> <i>Turnera diffusa</i> Willd extracts in Longfin yellowtail (<i>Seriola rivoliana</i>) leukocytes. <i>Fish and Shellfish Immunology</i> , 2020, 100, 418-426.	1.6	7

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73	Control of AHPND by phages: a promising biotechnological approach. <i>Reviews in Aquaculture</i> , 2019, 11, 989-1004.	4.6	6
74	First screening report of immune and protective effect of non-toxic <i>Jatropha vernicosa</i> stem bark against <i>Vibrio parahaemolyticus</i> in Longfin yellowtail <i>Seriola rivoliana</i> leukocytes. <i>Fish and Shellfish Immunology</i> , 2020, 101, 106-114.	1.6	6
75	<i>Yarrowia lipolytica</i> N6-glucan protects goat leukocytes against <i>Escherichia coli</i> by enhancing phagocytosis and immune signaling pathway genes. <i>Microbial Pathogenesis</i> , 2021, 150, 104735.	1.3	6
76	Characterization of nuclear factor of activated T-cells-c3 (NFATc3) and gene expression of upstream-downstream signaling molecules in response to immunostimulants in Pacific red snapper cells. <i>Developmental and Comparative Immunology</i> , 2018, 78, 149-159.	1.0	5
77	Plant-made vaccines against parasites: bioinspired perspectives to fight against Chagas disease. <i>Expert Review of Vaccines</i> , 2021, 20, 1373-1388.	2.0	5
78	Antibacterial and immunomodulatory activity of moringa (<i>Moringa oleifera</i>) seed extract in Longfin yellowtail (<i>Seriola rivoliana</i>) peripheral blood leukocytes. <i>Aquaculture Research</i> , 2021, 52, 4076-4085.	0.9	5
79	Effect of dietary inulin in the gut microbiota of whiteleg shrimp <i>Penaeus vannamei</i> . <i>Latin American Journal of Aquatic Research</i> , 2021, 49, 418-430.	0.2	5
80	Combined administration routes of marine yeasts enhanced immune-related genes and protection of white shrimp (<i>Penaeus vannamei</i>) against <i>Vibrio parahaemolyticus</i> . <i>Fish and Shellfish Immunology</i> , 2022, 124, 192-200.	1.6	5
81	Antiporter NHX2 differentially induced in <i>Mesembryanthemum crystallinum</i> natural genetic variant under salt stress. <i>Plant Cell, Tissue and Organ Culture</i> , 2016, 124, 361-375.	1.2	4
82	Immunostimulatory and antioxidant effects of supplemental feeding with macroalga <i>Sargassum</i> spp. on goat kids. <i>Tropical Animal Health and Production</i> , 2020, 52, 2023-2033.	0.5	4
83	Conjugation of β -glucans on heat-stable enterotoxin (ST) to enhance the immunogenic response in mouse leukocytes. <i>Materials Science and Engineering C</i> , 2021, 118, 111464.	3.8	4
84	Composition, antioxidant capacity, intestinal, and immunobiological effects of oregano (<i>Lippia palmeri</i>) Tj ETQqO O O rgBT /Overlock 1053, 101.	0.5	4
85	Alfalfa Plants (<i>Medicago sativa</i> L.) Expressing the 85B (MAP1609c) Antigen of <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> Elicit Long-Lasting Immunity in Mice. <i>Molecular Biotechnology</i> , 2021, 63, 424-436.	1.3	4
86	β -Glucan bioactivities from <i>Cystobasidium benthicum</i> in <i>Totoaba macdonaldi</i> thymus cells. <i>Fish and Shellfish Immunology</i> , 2021, 119, 542-553.	1.6	4
87	Genetically-engineered plants yield an orally immunogenic PirA-like toxin from <i>Vibrio parahaemolyticus</i> . <i>International Journal of Biological Macromolecules</i> , 2019, 137, 126-131.	3.6	3
88	Efficacy of the corn smut-made CTB oral vaccine on mucosal immune parameters in Pacific red snapper (<i>Lutjanus peru</i>). <i>Aquaculture</i> , 2019, 503, 403-411.	1.7	3
89	Biological Synthesis of Monodisperse AuNPs@Damiana with Enhanced Antiseptic Activity Against Gram-Negative Bacteria. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 4018-4024.	1.9	3
90	Stressing stocking density and rearing time effect on whiteleg shrimp (<i>Penaeus vannamei</i>) reared intensively in floating cages. <i>Latin American Journal of Aquatic Research</i> , 2022, 50, 158-167.	0.2	3

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91	Oral organic nanovaccines against bacterial and viral diseases. <i>Microbial Pathogenesis</i> , 2022, 169, 105648.	1.3	3
92	Two Promoters of Beta-Glucosidase Paralogs (ZmBGlu2 and ZmBGlu5) Highly Active in Tropical Young Maize Hybrid Seedlings. <i>Plant Molecular Biology Reporter</i> , 2015, 33, 1666-1674.	1.0	2
93	Changes in transferrin gene expression after exposure to iron and <i>Aeromonas hydrophila</i> infection in yellow snapper (<i>Lutjanus argentiventris</i>). <i>Agri Gene</i> , 2016, 1, 79-87.	1.9	2
94	Environmental Factors Favoring the Proliferation of <i>Aedes aegypti</i> (Linnaeus 1762) Larvae in Livestock Water Troughs at a Suburban Area of La Paz, Mexico. <i>Southwestern Entomologist</i> , 2017, 42, 795-803.	0.1	2
95	Immunostimulant Activity of Bacteria Isolated from Extreme Environments in Baja California Sur, Mexico: A Bioprospecting Approach. <i>Indian Journal of Microbiology</i> , 2022, 62, 234-241.	1.5	2
96	LptD-antigen system on gold nanoparticles: an innovative strategy in the nanovaccine development. <i>Nanotechnology</i> , 2022, 33, 295602.	1.3	2
97	Evaluation of two in-house immunoenzymatic tests to serodiagnose subclinical paratuberculosis in a sheep flock in Mexicali valley, Mexico. <i>Journal of Immunoassay and Immunochemistry</i> , 2017, 38, 420-429.	0.5	1
98	Identificación molecular y frecuencia de patógenos aislados de mastitis bovina en establos de la Península de Baja California, México. <i>Revista Mexicana De Ciencias Pecuarias</i> , 2018, 9, 755-768.	0.1	1
99	Nucleobases, Nucleosides and Nucleotides Determination in Yeasts Isolated from Extreme Environments. <i>Chromatographia</i> , 2022, 85, 353-363.	0.7	1
100	Dietary Mexican <i>Chenopodium ambrosioides</i> L. improved cholesterol level, bactericidal activity, humoral and antioxidant defence parameters in Pacific red snapper (<i>Lutjanus peru</i>). <i>Aquaculture Research</i> , 2022, 53, 3025-3035.	0.9	1
101	De Novo assembly and annotation of the Pacific calico scallop (<i>Argopecten ventricosus</i>) transcriptome for immune-related gene discovery. <i>Latin American Journal of Aquatic Research</i> , 2022, 50, 212-226.	0.2	1
102	Rapid production in maize seedlings of the Ag85B antigen of <i>Mycobacterium avium</i> subsp. paratuberculosis using an <i>Agrobacterium</i> -mediated transient expression system. <i>Plant Cell, Tissue and Organ Culture</i> , 2020, 141, 31-40.	1.2	0
103	Morpho-physiology and Pht1 gene expressions in native maize plants with AM fungi and phosphorus. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2020, 48, 1357-1368.	0.5	0
104	Nanovacunas en acuicultura, una alternativa para el manejo de enfermedades. <i>Inventio</i> , 2021, 16, .	0.0	0
105	Aminoácidos no esenciales en la síntesis de nanopartículas de oro y sus potenciales aplicaciones. <i>Revista Digital Universitaria</i> , 2021, 22, .	0.0	0
106	Using the TiLV virus genome sequence to develop a recombinant oral vaccine in microalgae. Comment to the article "Complete Genome Sequence of a Tilapia Lake Virus Isolate Obtained from Nile Tilapia (<i>Oreochromis niloticus</i>)". <i>Nova Scientia</i> , 2020, 12, .	0.0	0
107	Trained immunity against diseases in domestic animals. <i>Acta Tropica</i> , 2022, 229, 106361.	0.9	0
108	Macrophage-inducible C-type lectin (MINCLE): In silico characterization and its in vitro effects on head kidney leukocytes from the fish <i>Lutjanus peru</i> . <i>Aquaculture Research</i> , 0, .	0.9	0