Mengqiang Wang

List of Publications by Year
in descending order

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104 papers	3,056 citations	159525 30 h-index	197736 49 g-index
104 all docs	104 docs citations	104 times ranked	2140 citing authors

#	Article	IF	Citations
1	Ammonia exposure induces oxidative stress, endoplasmic reticulum stress and apoptosis in hepatopancreas of pacific white shrimp (Litopenaeus vannamei). Fish and Shellfish Immunology, 2016, 54, 523-528.	1.6	195
2	The immune system and its modulation mechanism in scallop. Fish and Shellfish Immunology, 2015, 46, 65-78.	1.6	174
3	A primitive Toll-like receptor signaling pathway in mollusk Zhikong scallop Chlamys farreri. Developmental and Comparative Immunology, 2011, 35, 511-520.	1.0	144
4	Immune response and energy metabolism of Chlamys farreri under Vibrio anguillarum challenge and high temperature exposure. Fish and Shellfish Immunology, 2012, 33, 1016-1026.	1.6	86
5	An integrin from oyster Crassostrea gigas mediates the phagocytosis toward Vibrio splendidus through LPS binding activity. Developmental and Comparative Immunology, 2015, 53, 253-264.	1.0	85
6	A novel C-type lectin from crab Eriocheir sinensis functions as pattern recognition receptor enhancing cellular encapsulation. Fish and Shellfish Immunology, 2013, 34, 832-842.	1.6	83
7	The modulation of catecholamines to the immune response against bacteria Vibrio anguillarum challenge in scallop Chlamys farreri. Fish and Shellfish Immunology, 2011, 31, 1065-1071.	1.6	67
8	Transcriptome, antioxidant enzyme activity and histopathology analysis of hepatopancreas from the white shrimp Litopenaeus vannamei fed with aflatoxin B1(AFB1). Developmental and Comparative Immunology, 2017, 74, 69-81.	1.0	62
9	Aflatoxin B1 (AFB1) induced dysregulation of intestinal microbiota and damage of antioxidant system in pacific white shrimp (Litopenaeus vannamei). Aquaculture, 2018, 495, 940-947.	1.7	62
10	A novel C1qDC protein acting as pattern recognition receptor in scallop Argopecten irradians. Fish and Shellfish Immunology, 2012, 33, 427-435.	1.6	61
11	Maternal transfer of immunity in scallop Chlamys farreri and its trans-generational immune protection to offspring against bacterial challenge. Developmental and Comparative Immunology, 2013, 41, 569-577.	1.0	59
12	A novel scavenger receptor-cysteine-rich (SRCR) domain containing scavenger receptor identified from mollusk mediated PAMP recognition and binding. Developmental and Comparative Immunology, 2011, 35, 227-239.	1.0	54
13	The broad pattern recognition spectrum of the Toll-like receptor in mollusk Zhikong scallop Chlamys farreri. Developmental and Comparative Immunology, 2015, 52, 192-201.	1.0	54
14	The construction of a cDNA library enriched for immune genes and the analysis of 7535 ESTs from Chinese mitten crab Eriocheir sinensis. Fish and Shellfish Immunology, 2009, 27, 684-694.	1.6	52
15	The simple neuroendocrine-immune regulatory network in oyster Crassostrea gigas mediates complex functions. Scientific Reports, 2016, 6, 26396.	1.6	52
16	Replacement of fishmeal by fermented soybean meal could enhance the growth performance but not significantly influence the intestinal microbiota of white shrimp Litopenaeus vannamei. Aquaculture, 2019, 504, 354-360.	1.7	50
17	Evaluation of biofloc meal as an ingredient in diets for white shrimp Litopenaeus vannamei under practical conditions: Effect on growth performance, digestive enzymes and TOR signaling pathway. Aquaculture, 2017, 479, 516-521.	1.7	48
18	Transcriptomic and morphological analyses of Litopenaeus vannamei intestinal barrier in response to Vibrio paraheamolyticus infection reveals immune response signatures and structural disruption. Fish and Shellfish Immunology, 2017, 70, 437-450.	1.6	47

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19	The phenoloxidase activity and antibacterial function of a tyrosinase from scallop Chlamys farreri. Fish and Shellfish Immunology, 2012, 33, 375-381.	1.6	45
20	A galectin from Eriocheir sinensis functions as pattern recognition receptor enhancing microbe agglutination and haemocytes encapsulation. Fish and Shellfish Immunology, 2016, 55, 10-20.	1.6	45
21	Crustacean hyperglycemic hormones directly modulate the immune response of hemocytes in shrimp Litopenaeus vannamei. Fish and Shellfish Immunology, 2017, 62, 164-174.	1.6	44
22	Comparative study of two single CRD C-type lectins, CgCLec-4 and CgCLec-5, from pacific oyster Crassostrea gigas. Fish and Shellfish Immunology, 2016, 59, 220-232.	1.6	41
23	The transcriptomic expression of pattern recognition receptors: Insight into molecular recognition of various invading pathogens in Oyster Crassostrea gigas. Developmental and Comparative Immunology, 2019, 91, 1-7.	1.0	41
24	The expression of dopa decarboxylase and dopamine beta hydroxylase and their responding to bacterial challenge during the ontogenesis of scallop Chlamys farreri. Fish and Shellfish Immunology, 2012, 33, 67-74.	1.6	39
25	Transcriptomic and Quantitative Proteomic Analyses Provide Insights Into the Phagocytic Killing of Hemocytes in the Oyster Crassostrea gigas. Frontiers in Immunology, 2018, 9, 1280.	2.2	39
26	A Carbonic Anhydrase Serves as an Important Acid-Base Regulator in Pacific Oyster Crassostrea gigas Exposed to Elevated CO2: Implication for Physiological Responses of Mollusk to Ocean Acidification. Marine Biotechnology, 2017, 19, 22-35.	1.1	38
27	A shell-formation related carbonic anhydrase in Crassostrea gigas modulates intracellular calcium against CO2 exposure: Implication for impacts of ocean acidification on mollusk calcification. Aquatic Toxicology, 2017, 189, 216-228.	1.9	36
28	The comprehensive immunomodulation of NeurimmiRs in haemocytes of oyster Crassostrea gigas after acetylcholine and norepinephrine stimulation. BMC Genomics, 2015, 16, 942.	1.2	34
29	The enkephalinergic nervous system and its immunomodulation on the developing immune system during the ontogenesis of oyster Crassostrea gigas. Fish and Shellfish Immunology, 2015, 45, 250-259.	1.6	34
30	The expression of immune-related genes during the ontogenesis of scallop Chlamys farreri and their response to bacterial challenge. Fish and Shellfish Immunology, 2013, 34, 855-864.	1.6	32
31	An LRR-only protein representing a new type of pattern recognition receptor in Chlamys farreri. Developmental and Comparative Immunology, 2016, 54, 145-155.	1.0	31
32	Protective immunity induced by CpG ODNs against white spot syndrome virus (WSSV) via intermediation of virus replication indirectly in Litopenaeus vannamei. Developmental and Comparative Immunology, 2010, 34, 418-424.	1.0	30
33	Modulation of haemocyte phagocytic and antibacterial activity by alpha-adrenergic receptor in scallop Chlamys farreri. Fish and Shellfish Immunology, 2013, 35, 825-832.	1.6	30
34	The various components implied the diversified Toll-like receptor (TLR) signaling pathway in mollusk Chlamys farreri. Fish and Shellfish Immunology, 2018, 74, 205-212.	1.6	30
35	The increased transcriptional response and translocation of a Rel/NF-Î°B homologue in scallop Chlamys farreri during the immune stimulation. Fish and Shellfish Immunology, 2013, 34, 1209-1215.	1.6	29
36	Comparative study of three C1q domain containing proteins from pacific oyster Crassostrea gigas. Developmental and Comparative Immunology, 2018, 78, 42-51.	1.0	29

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37	Identification and characterization of a Cystatin gene from Chinese mitten crab Eriocheir sinensis. Fish and Shellfish Immunology, 2010, 29, 521-529.	1.6	28
38	The immune responses triggered by CpG ODNs in shrimp Litopenaeus vannamei are associated with LvTolls. Developmental and Comparative Immunology, 2014, 43, 15-22.	1.0	28
39	The transcriptional response of the Pacific oyster Crassostrea gigas under simultaneous bacterial and heat stresses. Developmental and Comparative Immunology, 2019, 94, 1-10.	1.0	28
40	A dopamine beta hydroxylase from Chlamys farreri and its induced mRNA expression in the haemocytes after LPS stimulation. Fish and Shellfish Immunology, 2011, 30, 154-162.	1.6	26
41	An iodothyronine deiodinase from Chlamys farreri and its induced mRNA expression after LPS stimulation. Fish and Shellfish Immunology, 2012, 33, 286-293.	1.6	26
42	A high mobility group box 1 (HMGB1) gene from Chlamys farreri and the DNA-binding ability and pro-inflammatory activity of its recombinant protein. Fish and Shellfish Immunology, 2014, 36, 393-400.	1.6	26
43	Ocean acidification stimulates alkali signal pathway: A bicarbonate sensing soluble adenylyl cyclase from oyster Crassostrea gigas mediates physiological changes induced by CO2 exposure. Aquatic Toxicology, 2016, 181, 124-135.	1.9	26
44	Transcriptional changes of Pacific oyster Crassostrea gigas reveal essential role of calcium signal pathway in response to CO2-driven acidification. Science of the Total Environment, 2020, 741, 140177.	3.9	26
45	A scallop C-type lectin from Argopecten irradians (AiCTL5) with activities of lipopolysaccharide binding and Gram-negative bacteria agglutination. Fish and Shellfish Immunology, 2012, 32, 716-723.	1.6	25
46	An opioid growth factor receptor (OGFR) for [Met5]-enkephalin in Chlamys farreri. Fish and Shellfish Immunology, 2013, 34, 1228-1235.	1.6	25
47	The Immunomodulation of Acetylcholinesterase in Zhikong Scallop Chlamys farreri. PLoS ONE, 2012, 7, e30828.	1.1	24
48	The immunomodulation of nicotinic acetylcholine receptor subunits in Zhikong scallop Chlamys farreri. Fish and Shellfish Immunology, 2015, 47, 611-622.	1.6	24
49	Identification of a clip domain serine proteinase involved in immune defense in Chinese mitten crab Eriocheir sinensis. Fish and Shellfish Immunology, 2018, 74, 332-340.	1.6	23
50	Comparative transcriptome analysis reveals the different roles between hepatopancreas and intestine of Litopenaeus vannamei in immune response to aflatoxin B1 (AFB1) challenge. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2019, 222, 1-10.	1.3	23
51	A Dopa Decarboxylase Modulating the Immune Response of Scallop Chlamys farreri. PLoS ONE, 2011, 6, e18596.	1.1	22
52	Molecular cloning and characterization of a cytoplasmic manganese superoxide dismutase and a mitochondrial manganese superoxide dismutase from Chinese mitten crab Eriocheir sinensis. Fish and Shellfish Immunology, 2015, 47, 407-417.	1.6	22
53	Analysis of the expression of metabolism-related genes and histopathology of the hepatopancreas of white shrimp Litopenaeus vannamei fed with aflatoxin B1. Aquaculture, 2018, 485, 191-196.	1.7	22
54	A conserved zinc finger transcription factor GATA involving in the hemocyte production of scallop Chlamys farreri. Fish and Shellfish Immunology, 2014, 39, 125-135.	1.6	21

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55	Transcriptomic analysis of oyster Crassostrea gigas larvae illustrates the response patterns regulated by catecholaminergic system upon acute heat and bacterial stress. Developmental and Comparative Immunology, 2017, 73, 52-60.	1.0	21
56	The versatile functions of LRR-only proteins in mollusk Chlamys farreri. Developmental and Comparative Immunology, 2017, 77, 188-199.	1.0	21
57	A novel siglec (CgSiglec-1) from the Pacific oyster (Crassostrea gigas) with broad recognition spectrum and inhibitory activity to apoptosis, phagocytosis and cytokine release. Developmental and Comparative Immunology, 2016, 61, 136-144.	1.0	20
58	The modulation of catecholamines on immune response of scallop Chlamys farreri under heat stress. General and Comparative Endocrinology, 2014, 195, 116-124.	0.8	19
59	A Prokineticin (PK)-like cytokine from Chinese mitten crab Eriocheir sinensis promotes the production of hemocytes via reactive oxygen species. Fish and Shellfish Immunology, 2018, 77, 419-428.	1.6	19
60	Two novel LRR-only proteins in Chlamys farreri: Similar in structure, yet different in expression profile and pattern recognition. Developmental and Comparative Immunology, 2016, 59, 99-109.	1.0	18
61	Transcriptomic analysis of exosomal shuttle mRNA in Pacific oyster Crassostrea gigas during bacterial stimulation. Fish and Shellfish Immunology, 2018, 74, 540-550.	1.6	18
62	Transcriptome sequencing reveals the involvement of reactive oxygen species in the hematopoiesis from Chinese mitten crab Eriocheir sinensis. Developmental and Comparative Immunology, 2018, 82, 94-103.	1.0	17
63	Comparative transcriptome analysis reveals the potential influencing mechanism of dietary astaxanthin on growth and metabolism in Litopenaeus vannamei. Aquaculture Reports, 2020, 16, 100259.	0.7	17
64	Soluble adenylyl cyclase mediates mitochondrial pathway of apoptosis and ATP metabolism in oyster Crassostrea gigas exposed to elevated CO2. Fish and Shellfish Immunology, 2017, 66, 140-147.	1.6	16
65	A mitochondrial manganese superoxide dismutase involved in innate immunity is essential for the survival of Chlamys farreri. Fish and Shellfish Immunology, 2018, 72, 282-290.	1.6	16
66	Exploring the influence of the surface proteins on probiotic effects performed by Lactobacillus pentosus HC-2 using transcriptome analysis in Litopenaeus vannamei midgut. Fish and Shellfish Immunology, 2019, 87, 853-870.	1.6	16
67	Rapid detection of Enterocytozoon hepatopenaei in shrimp through an isothermal recombinase polymerase amplification assay. Aquaculture, 2020, 521, 734987.	1.7	16
68	Identification of a Novel Pattern Recognition Receptor DM9 Domain Containing Protein 4 as a Marker for Pro-Hemocyte of Pacific Oyster Crassostrea gigas. Frontiers in Immunology, 2020, 11, 603270.	2.2	16
69	The receptor for activated C kinase 1 (RACK1) functions in hematopoiesis through JNK activation in Chinese mitten crab Eriocheir sinensis. Fish and Shellfish Immunology, 2016, 57, 252-261.	1.6	15
70	A novel junctional adhesion molecule A (CgJAM-A-L) from oyster (Crassostrea gigas) functions as pattern recognition receptor and opsonin. Developmental and Comparative Immunology, 2016, 55, 211-220.	1.0	15
71	Functional characterization of hemocytes from Chinese mitten crab Eriocheir sinensis by flow cytometry. Fish and Shellfish Immunology, 2017, 69, 15-25.	1.6	15
72	The modulation of extracellular superoxide dismutase in the specifically enhanced cellular immune response against secondary challenge of Vibrio splendidus in Pacific oyster (Crassostrea gigas). Developmental and Comparative Immunology, 2016, 63, 163-170.	1.0	13

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73	Two novel LRR and Ig domain-containing proteins from oyster Crassostrea gigas function as pattern recognition receptors and induce expression of cytokines. Fish and Shellfish Immunology, 2017, 70, 308-318.	1.6	13
74	Hemolymph C1qDC promotes the phagocytosis of oyster Crassostrea gigas hemocytes by interacting with the membrane receptor Î²-integrin. Developmental and Comparative Immunology, 2019, 98, 42-53.	1.0	13
75	A monoamine oxidase from scallop Chlamys farreri serving as an immunomodulator in response against bacterial challenge. Developmental and Comparative Immunology, 2011, 35, 799-807.	1.0	12
76	The promotion of cytoskeleton integration and redox in the haemocyte of shrimp Litopenaeus vannamei after the successive stimulation of recombinant VP28. Developmental and Comparative Immunology, 2014, 45, 123-132.	1.0	12
77	The categorization and mutual modulation of expanded MyD88s in Crassostrea gigas. Fish and Shellfish Immunology, 2016, 54, 118-127.	1.6	12
78	Mechanistic target of rapamycin inhibition with rapamycin induces autophagy and correlative regulation in white shrimp (Litopenaeus vannamei). Aquaculture Nutrition, 2018, 24, 1509-1520.	1.1	12
79	Scallop phenylalanine hydroxylase implicates in immune response and can be induced by human TNF-Î±. Fish and Shellfish Immunology, 2011, 31, 856-863.	1.6	10
80	A novel LRR-only protein mediates bacterial proliferation in hemolymph through regulating expression of antimicrobial peptides in mollusk Chlamys farreri. Developmental and Comparative Immunology, 2019, 92, 223-229.	1.0	10
81	The ethanol extract of honeysuckle stem modulates the innate immunity of Chinese mitten crab Eriocheir sinensis against Aeromonas hydrophila. Fish and Shellfish Immunology, 2018, 82, 304-311.	1.6	9
82	A novel LRR and Ig domain-containing protein could function as an immune effector in Crassostrea gigas. Fish and Shellfish Immunology, 2019, 88, 318-327.	1.6	9
83	A comparative transcriptomic analysis in late embryogenesis of the red claw crayfish Cherax quadricarinatus. Molecular Genetics and Genomics, 2020, 295, 299-311.	1.0	9
84	The comparative proteomics analysis revealed the modulation of inducible nitric oxide on the immune response of scallop Chlamys farreri. Fish and Shellfish Immunology, 2014, 40, 584-594.	1.6	8
85	The influence of surface proteins on the probiotic effects of Lactobacillus pentosus HC-2 in the Litopenaeus vannamei hepatopancreas. Fish and Shellfish Immunology, 2019, 92, 119-124.	1.6	8
86	A preliminary attempt to explore the potential functions of a tetraspanin gene (MmTSPAN) in the innate immunity of hard clam Meretrix meretrix: Sequence features and expression profiles. Fish and Shellfish Immunology, 2019, 88, 135-141.	1.6	8
87	In Silico screening for microsatellite markers from expressed sequence tags of Porphyra yezoensis (Bangiales, Rhodophyta). Journal of Ocean University of China, 2007, 6, 161-166.	0.6	7
88	Exploration of the influence of surface proteins on the probiotic activity of Lactobacillus pentosus HC-2 in the Litopenaeus vannamei midgut via label-free quantitative proteomic analysis. Fish and Shellfish Immunology, 2019, 95, 368-382.	1.6	7
89	Response of the Litopenaeus vananmei intestinal bacteria and antioxidant system to rearing density and exposure to Vibrio paraheamolyticus E1. Journal of Invertebrate Pathology, 2020, 170, 107326.	1.5	7
90	Cloning and analysis of calmodulin gene from Porphyra yezoensis Ueda (Bangiales, Rhodophyta). Journal of Ocean University of China, 2009, 8, 247-253.	0.6	6

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91	The immunomodulation of a maternal translationally controlled tumor protein (TCTP) in Zhikong scallop Chlamys farreri. Fish and Shellfish Immunology, 2017, 60, 141-149.	1.6	6
92	The effect of rearing density on immune responses of hepatopancreas and intestine in Litopenaeus vananmei against Vibrio paraheamolyticus E1 challenge. Fish and Shellfish Immunology, 2019, 93, 517-530.	1.6	6
93	Comparative study of Î²-thymosin in two scallop species Argopecten irradians and Chlamys farreri. Fish and Shellfish Immunology, 2019, 86, 516-524.	1.6	6
94	Characterization and transcriptional analysis of one carbonic anhydrase gene in the greenâ€tideâ€forming algaUlva prolifera(Ulvophyceae, Chlorophyta). Phycological Research, 2020, 68, 90-97.	0.8	5
95	Bacterial diversity, composition and temporal-spatial variation in the sediment of Jiaozhou Bay, China. Chinese Journal of Oceanology and Limnology, 2011, 29, 576-590.	0.7	4
96	cDNA cloning, characterization and mRNA expression ofÂcryptocyanin from the Chinese mitten crab, EriocheirÂsinensis H.ÂMilne Edwards, 1853. Crustaceana, 2016, 89, 273-290.	0.1	4
97	Identification and Profiling of MicroRNAs During Embryogenesis in the Red Claw Crayfish Cherax quadricarinatus. Frontiers in Physiology, 2020, 11, 878.	1.3	4
98	CgNrdp1, a conserved negative regulating factor of MyD88-dependent Toll like receptor signaling in oyster Crassostrea gigas. Fish and Shellfish Immunology, 2018, 74, 386-392.	1.6	3
99	A CD63 Homolog Specially Recruited to the Fungi-Contained Phagosomes Is Involved in the Cellular Immune Response of Oyster Crassostrea gigas. Frontiers in Immunology, 2020, 11, 1379.	2.2	3
100	Molecular and functional characterization of Raptor in mTOR pathway from Litopenaeus vannamei. Aquaculture Research, 2020, 51, 2179-2189.	0.9	3
101	A global view of hepatopancreas and intestinal reveals the potential influencing mechanism of aflatoxin B1 on nutrition and metabolism inLitopenaeus vannamei. Aquaculture Nutrition, 2019, 25, 1354-1366.	1.1	2
102	Characterization and function analysis of a Kazal-type serine proteinase inhibitor in the red claw crayfish Cherax quadricarinatus. Developmental and Comparative Immunology, 2021, 114, 103871.	1.0	2
103	Draft Genome Sequences of Pseudoalteromonas telluritireducens DSM 16098 and P.Âspiralis DSM 16099 Isolated from the Hydrothermal Vents of the Juan de Fuca Ridge. Genome Announcements, 2016, 4, .	0.8	1
104	Draft Genome Sequence of Alcanivorax sp. Strain KX64203 Isolated from Deep-Sea Sediments of Iheya North, Okinawa Trough. Genome Announcements, 2016, 4, .	0.8	0