

Marcel Martinez-Porchas

List of Publications by Year in descending order

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102
papers

2,076
citations

304368

22
h-index

301761

39
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102
all docs

102
docs citations

102
times ranked

2091
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbial-based systems for aquaculture of fish and shrimp: an updated review. <i>Reviews in Aquaculture</i> , 2015, 7, 131-148.	4.6	151
2	World Aquaculture: Environmental Impacts and Troubleshooting Alternatives. <i>Scientific World Journal</i> , The, 2012, 2012, 1-9.	0.8	145
3	Biofloc Technology (BFT): A Tool for Water Quality Management in Aquaculture. , 0, , .		110
4	Microbial metagenomics in aquaculture: a potential tool for a deeper insight into the activity. <i>Reviews in Aquaculture</i> , 2017, 9, 42-56.	4.6	100
5	Shrimp polyculture: a potentially profitable, sustainable, but uncommon aquacultural practice. <i>Reviews in Aquaculture</i> , 2010, 2, 73-85.	4.6	85
6	Significant loss of sensitivity and specificity in the taxonomic classification occurs when short 16S rRNA gene sequences are used. <i>Heliyon</i> , 2016, 2, e00170.	1.4	72
7	Predictive functional profiles using metagenomic 16S rRNA data: a novel approach to understanding the microbial ecology of aquaculture systems. <i>Reviews in Aquaculture</i> , 2019, 11, 234-245.	4.6	72
8	Bacterial biota of shrimp intestine is significantly modified by the use of a probiotic mixture: a high throughput sequencing approach. <i>Helgoland Marine Research</i> , 2017, 71, .	1.3	63
9	The nitrification process for nitrogen removal in biofloc system aquaculture. <i>Reviews in Aquaculture</i> , 2020, 12, 2228-2249.	4.6	63
10	From microbes to fish the next revolution in food production. <i>Critical Reviews in Biotechnology</i> , 2017, 37, 287-295.	5.1	58
11	Effect of salinity on growth and chemical composition of the diatom <i>Thalassiosira weissflogii</i> at three culture phases. <i>Latin American Journal of Aquatic Research</i> , 2012, 40, 435-440.	0.2	56
12	Therapeutic modulation of fish gut microbiota, a feasible strategy for aquaculture?. <i>Aquaculture</i> , 2021, 544, 737050.	1.7	54
13	Addition of commercial probiotic in a biofloc shrimp farm of <i>Litopenaeus vannamei</i> during the nursery phase: Effect on bacterial diversity using massive sequencing 16S rRNA. <i>Aquaculture</i> , 2019, 502, 391-399.	1.7	45
14	Cheese Whey Fermentation by Its Native Microbiota: Proteolysis and Bioactive Peptides Release with ACE-Inhibitory Activity. <i>Fermentation</i> , 2020, 6, 19.	1.4	44
15	Polyculture of Pacific white shrimp, <i>Litopenaeus vannamei</i> , giant oyster, <i>Crassostrea gigas</i> and black clam, <i>Chione fluctifraga</i> in ponds in Sonora, Mexico. <i>Aquaculture</i> , 2006, 258, 321-326.	1.7	39
16	Effect of using autotrophic and heterotrophic microbial-based-systems for the pre-grown of <i>Litopenaeus vannamei</i> on the production performance and selected haemolymph parameters. <i>Aquaculture Research</i> , 2014, 45, 944-948.	0.9	39
17	How conserved are the conserved 16S-rRNA regions?. <i>PeerJ</i> , 2017, 5, e3036.	0.9	39
18	Studying long 16S rDNA sequences with ultrafast-metagenomic sequence classification using exact alignments (Kraken). <i>Journal of Microbiological Methods</i> , 2016, 122, 38-42.	0.7	34

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19	Production Response and Digestive Enzymatic Activity of the Pacific White Shrimp (<i>Litopenaeus vannamei</i>) (Boone, 1931) Intensively Pregrown in Microbial Heterotrophic and Autotrophic-Based Systems. Scientific World Journal, The, 2012, 2012, 1-6.	0.8	31
20	Crustins are distinctive members of the WAP-containing protein superfamily: An improved classification approach. Developmental and Comparative Immunology, 2017, 76, 9-17.	1.0	30
21	Exploring the garlic (<i>Allium sativum</i>) properties for fish aquaculture. Fish Physiology and Biochemistry, 2021, 47, 1179-1198.	0.9	27
22	Proteomic profiling of integral membrane proteins associated to pathogenicity in <i>Vibrio parahaemolyticus</i> strains. Microbiology and Immunology, 2018, 62, 14-23.	0.7	26
23	Inferring the functional properties of bacterial communities in shrimp-culture bioflocs produced with amaranth and wheat seeds as fouler promoters. Aquaculture, 2019, 500, 107-117.	1.7	26
24	Effect of promoted natural feed on the production, nutritional, and immunological parameters of <i>Litopenaeus vannamei</i> (Boone, 1931) semi-intensively farmed. Aquaculture Nutrition, 2011, 17, e622-e628.	1.1	25
25	Rickettsia-like organisms from cultured aquatic organisms, with emphasis on necrotizing hepatopancreatitis bacterium affecting penaeid shrimp: an overview on an emergent concern. Reviews in Aquaculture, 2014, 6, 256-269.	4.6	24
26	The Pacific harbor seal gut microbiota in Mexico: Its relationship with diet and functional inferences. PLoS ONE, 2019, 14, e0221770.	1.1	24
27	Effect of supplementing heterotrophic and photoautotrophic biofloc, on the production response, physiological condition and post-harvest quality of the whiteleg shrimp, <i>Litopenaeus vannamei</i>. Aquaculture Reports, 2020, 16, 100257.	0.7	23
28	Amaranth and wheat grains tested as nucleation sites of microbial communities to produce bioflocs used for shrimp culture. Aquaculture, 2018, 497, 503-509.	1.7	22
29	Gut microbiota shifts in the giant tiger shrimp, <i>Penaeus monodon</i>, during the postlarvae, juvenile, and adult stages. Aquaculture International, 2020, 28, 1421-1433.	1.1	22
30	Bioremediation and reuse of shrimp aquaculture effluents to farm whiteleg shrimp, <i>Litopenaeus vannamei</i>: a first approach. Aquaculture Research, 2011, 42, 1415-1423.	0.9	20
31	Taxonomic and functional changes in the microbiota of the white shrimp (<i>Litopenaeus vannamei</i>) associated with postlarval ontogenetic development. Aquaculture, 2020, 518, 734842.	1.7	20
32	Longitudinal variations in the gastrointestinal microbiome of the white shrimp, <i>Litopenaeus vannamei</i>. PeerJ, 2021, 9, e11827.	0.9	20
33	Granulomatous bacterial diseases in fish: An overview of the host's immune response. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2021, 261, 111058.	0.8	19
34	Effect of shrimp farm effluent on water and sediment quality parameters off the coast of Sonora, Mexico. Ciencias Marinas, 2014, 40, 221-235.	0.4	18
35	Granulomatosis in fish aquaculture: a mini review. Reviews in Aquaculture, 2021, 13, 259-268.	4.6	17
36	Evaluation of different microalgae species and Artemia (<i>Artemia franciscana</i>) as possible vectors of necrotizing hepatopancreatitis bacteria. Aquaculture, 2011, 318, 273-276.	1.7	16

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37	Biofilm consumption shapes the intestinal microbiota of shrimp (<i>Penaeus vannamei</i>). Aquaculture Nutrition, 2019, 25, 427-435.	1.1	16
38	Effect of freezing on protein denaturation and gelling capacity of jumbo squid (<i>Dosidicus gigas</i>) mantle muscle. LWT - Food Science and Technology, 2015, 60, 737-742.	2.5	15
39	Immunophysiological Response of Pacific White Shrimp Exposed to a Probiotic Mixture of Proteobacteria and Firmicutes in Farm Conditions. North American Journal of Aquaculture, 2016, 78, 193-202.	0.7	15
40	Does vertical substrate could influence the dietary protein level and zootechnical performance of the Pacific white shrimp <i>Litopenaeus vannamei</i> reared in a biofloc system?. Aquaculture International, 2020, 28, 1227-1241.	1.1	15
41	Thermal behavior of the Pacific sardine (<i>Sardinops sagax</i>) acclimated to different thermal cycles. Journal of Thermal Biology, 2009, 34, 372-376.	1.1	14
42	Physiological and immune responses of white shrimp (<i>Litopenaeus vannamei</i>) infected with necrotizing hepatopancreatitis bacterium. Aquaculture, 2012, 324-325, 14-19.	1.7	14
43	Size-variable zone in V3 region of 16S rRNA. RNA Biology, 2017, 14, 1514-1521.	1.5	14
44	Exploring the Milk-Clotting and Proteolytic Activities in Different Tissues of <i>Vallesia glabra</i> : a New Source of Plant Proteolytic Enzymes. Applied Biochemistry and Biotechnology, 2021, 193, 389-404.	1.4	13
45	High-resolution detection of bacterial profile of ocean water, before and after being used by shrimp farms. Aquaculture International, 2017, 25, 1833-1843.	1.1	12
46	Silver Nanoparticles Synthesized with <i>Rumex hymenosepalus</i> : A Strategy to Combat Early Mortality Syndrome (EMS) in a Cultivated White Shrimp. Journal of Nanomaterials, 2019, 2019, 1-15.	1.5	12
47	Arabinoxylans and gelled arabinoxylans used as anti-obesogenic agents could protect the stability of intestinal microbiota of rats consuming high-fat diets. International Journal of Food Sciences and Nutrition, 2020, 71, 74-83.	1.3	12
48	Diversity and bacterial succession of a phototrophic biofilm used as complementary food for shrimp raised in a super-intensive culture. Aquaculture International, 2019, 27, 581-596.	1.1	11
49	Study of zooplankton communities in shrimp earthen ponds, with and without organic nutrient-enriched substrates. Aquaculture International, 2013, 21, 65-73.	1.1	10
50	Bioremediation of Aquaculture Effluents. , 2014, , 539-553.		10
51	Bacterial diversity studied by next-generation sequencing in a mature phototrophic <i>Navicula</i> spâ€based biofilm promoted into a shrimp culture system. Aquaculture Research, 2017, 48, 2047-2054.	0.9	10
52	Bacterial communities and predicted nitrogen metabolism of heterotrophicâ€and probioticâ€based biofilms used for superâ€intensive indoor shrimp culture. Aquaculture Research, 2021, 52, 334-344.	0.9	10
53	Biofloc Technology (BFT) in Shrimp Farming: Past and Present Shaping the Future. Frontiers in Marine Science, 2021, 8, .	1.2	10
54	Studies on the bioremediation capacity of the adult black clam, <i>Chione fluctifraga</i> , of shrimp culture effluents. Revista De Biologia Marina Y Oceanografia, 2011, 46, 105-113.	0.1	9

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55	TEXTURAL CHANGES OF RAW AND COOKED MUSCLE OF SHRIMP, <i>LITOPENAEUS VANNAMEI</i> , INFECTED WITH NECROTIZING HEPATOPANCREATITIS BACTERIUM (NHPB). Journal of Texture Studies, 2012, 43, 453-458.	1.1	9
56	Transcriptional expression of immune system genes in <i>Litopenaeus vannamei</i> during ontogenetic development. Aquaculture Research, 2017, 48, 1110-1118.	0.9	9
57	Detection of the white spot syndrome virus in zooplankton samples collected off the coast of Sonora, Mexico. Aquaculture Research, 2018, 49, 48-56.	0.9	9
58	Highly cross-linked arabinoxylans microspheres as a microbiota-activated carrier for colon-specific insulin delivery. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 163, 16-22.	2.0	9
59	Effect of alternative mediums on production and proximate composition of the microalgae <i>Chaetoceros muelleri</i> as food in culture of the copepod <i>Acartia</i> sp.. Latin American Journal of Aquatic Research, 2012, 40, 169-176.	0.2	9
60	Effect of supplying four copepod densities (<i>Acartia</i> sp. and <i>Calanus pacificus</i>) on the productive response of <i>Litopenaeus vannamei</i> pregrown intensively at microcosm level. Ciencias Marinas, 2011, 37, 415-423.	0.4	9
61	Effect of adding vegetable substrates on <i>Penaeus vannamei</i> pre grown in biofloc system on shrimp performance, water quality and biofloc composition. Latin American Journal of Aquatic Research, 2019, 47, 784-790.	0.2	9
62	Short-term effect of the inoculation of probiotics in mature bioflocs: Water quality parameters and abundance of heterotrophic and ammonia-oxidizing bacteria. Aquaculture Research, 2020, 51, 255-264.	0.9	8
63	The implication of metabolically active <i>Vibrio</i> spp. in the digestive tract of <i>Litopenaeus vannamei</i> for its post-larval development. Scientific Reports, 2020, 10, 11428.	1.6	8
64	Evaluation of partial and total replacement of formulated feed by live insects, <i>Trichocorixa</i> sp. (Heteroptera: Corixidae) on the productive and nutritional response, and postharvest quality of shrimp, <i>Litopenaeus vannamei</i> (Boone 1931). Aquaculture Nutrition, 2013, 19, 218-226.	1.1	7
65	Gene expression responses of white shrimp (<i>Litopenaeus vannamei</i>) infected with necrotizing hepatopancreatitis bacterium. Aquaculture, 2014, 420-421, 165-170.	1.7	7
66	Identifying the causal agent of necrotizing hepatopancreatitis in shrimp: Multilocus sequence analysis approach. Aquaculture Research, 2018, 49, 1795-1802.	0.9	7
67	Functional metagenomics: a tool to gain knowledge for agronomic and veterinary sciences. Biotechnology and Genetic Engineering Reviews, 2019, 35, 69-91.	2.4	6
68	The effect of inoculation time and inoculum concentration on the productive response of <i>Tetraselmis chuii</i> (Butcher, 1958) mass cultured in F/2 and 2-F media. Archives of Biological Sciences, 2011, 63, 557-562.	0.2	6
69	Growth and survival of juvenile cauque river prawn <i>Macrobrachium americanum</i> fed with diets containing different protein levels. Latin American Journal of Aquatic Research, 2018, 46, 534-542.	0.2	6
70	Effects of different dietary protein-energy ratios on growth, carcass amino acid and fatty acid profile of male and female <i>Cherax quadricarinatus</i> (von Martens, 1868) pre-adults. Aquaculture Nutrition, 2021, 27, 2481-2496.	1.1	6
71	Evaluation of the physiological status of the Pacific sardine, <i>Sardinops sagax caeruleus</i> , acclimated to different thermal regimes based on selected blood parameters. Environmental Biology of Fishes, 2011, 91, 39-49.	0.4	5
72	An efficient strategy using k-mers to analyse 16S rRNA sequences. Heliyon, 2017, 3, e00370.	1.4	5

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73	Experimental Infection and Detection of Necrotizing Hepatopancreatitis Bacterium in the American Lobster <i>Homarus americanus</i> . Scientific World Journal, The, 2012, 2012, 1-4.	0.8	4
74	A preliminary evaluation of the San Pedro daisy (<i>Lasianthaea podocephala</i>) tuber powder, as a feed additive on the intensive culture of shrimp (<i>Litopenaeus vannamei</i>) under laboratory conditions. Latin American Journal of Aquatic Research, 2017, 41, 440-446.	0.2	4
75	Reusing water in a biofloc culture system favors the productive performance of the Nile tilapia (<i>Oreochromis niloticus</i>) without affecting the health status. Aquaculture, 2022, 558, 738363.	1.7	4
76	Overwintering the black clam <i>Chione fluctifraga</i> in a tidal shrimp pond and in an estuary, using suspended and bottom systems. Aquaculture, 2013, 396-399, 102-105.	1.7	3
77	Physiological and sanitary condition of the white clam <i>Dosinia ponderosa</i> collected from a coastal area impacted by shrimp farm effluent. Aquaculture International, 2016, 24, 243-256.	1.1	3
78	USO DE MICROORGANISMOS EN EL CULTIVO DE CRUSTÁCEOS. Biotecnia, 2015, 16, 50.	0.1	3
79	Spray-Drying Effect of the Soluble Solids from an Effluent Produced by Cooking Jumbo Squid (<i>Dosidicus gigas</i>) Mantle Muscle. Drying Technology, 2014, 32, 1200-1209.	1.7	2
80	Inclusion of two differently pH-autolysis hydrolysates of squid coproduct in diets of shrimp cultured under indoor and outdoor conditions. Aquaculture Nutrition, 2015, 21, 750-754.	1.1	2
81	Proteínas transmembranales de organismos tipo rickettsia (OTR) en animales acuáticos: Factores de adherencia, invasión e infección. Revista De Biología Marina Y Oceanografía, 2017, 52, 19-32.	0.1	2
82	Análisis bioinformático del sistema flagelar de la alphaproteobacteria tipo rickettsia Candidatus Hepatobacter penaei. Revista De Biología Marina Y Oceanografía, 2017, 52, 121-130.	0.1	2
83	Extraction and characterization of arabinoxylans obtained from nixtamalized brewers' spent grains. Food Science and Technology International, 2023, 29, 40-49.	1.1	2
84	Influence of Probiotics on the Animal Gut Microbiota and Their Impact on the Bioavailability of Toxic Agents: An Opinion Paper. Frontiers in Nutrition, 2022, 9, 870162.	1.6	2
85	Estimación de los rangos térmicos asociados con la distribución de <i>Sardinops sagax caeruleus</i> , con base en su preferencia térmica. Revista De Biología Marina Y Oceanografía, 2010, 45, 537-540.	0.1	1
86	Mince from Tilapia-Backbone: Effects of Washing and Cryoprotectant Addition during Frozen Storage. Journal of Food Research, 2016, 5, 32.	0.1	1
87	Amino acid profile of collagen fractions extracted from by-products of <i>Ophionema libertate</i> and <i>Scomber japonicus</i> . CYTA - Journal of Food, 2016, 14, 296-301.	0.9	1
88	Effect of the addition of an aqueous extract of the San Pedro Daisy <i>Lasianthaea podocephala</i> , in the culture of the Pacific white shrimp, <i>Litopenaeus vannamei</i> , under laboratory conditions. Latin American Journal of Aquatic Research, 2017, 43, 904-911.	0.2	1
89	Beyond the primary structure of Kazal domains in decapod crustaceans. Journal of Crustacean Biology, 2018, 38, 156-165.	0.3	1
90	Taxonomic profile of bacterial communities detected with 16S-rRNA in mature phototrophic and heterotrophic marine biofilms used for aquaculture. Ciencias Marinas, 2018, 44, .	0.4	1

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91	Performance of three diets with different protein:energy ratios on the culture of the Pacific white shrimp, <i>Litopenaeus vannamei</i> , under practical descending temperature conditions. <i>Atlántica</i> , 2010, 32, 111-118.	0.1	1
92	Functional Metagenomics for Rhizospheric Soil in Agricultural Systems. , 2019, , 149-160.		1
93	Tandem repeat sequences expressed in the hemocytes of <i>Litopenaeus vannamei</i> Boone, 1931 (Decapoda: Tj ETQq1 1 0.784314 rgBT	0.3	0
94	Water microbiota is not affected by stocking density of the yellowtail kingfish (<i>Seriola lalandi</i>) in a recirculating aquaculture system. <i>Aquaculture Research</i> , 2021, 52, 410-414.	0.9	0
95	Maize Gelling Arabinoxylans Isolated by a Semi-Pilot Scale Procedure: Viscoelastic Properties and Microstructural Characteristics. , 2021, , 151-164.		0
96	Isolation and properties of collagen extracted from mixed by-products obtained from different fish species. <i>Biotecnia</i> , 2021, 23, 109-116.	0.1	0
97	Effect of dietary protein and genetic line of <i>Litopenaeus vannamei</i> on its hepatopancreatic microbiota. <i>Scientia Agricola</i> , 2021, 78, .	0.6	0
98	Development of a simple method to inoculate necrotizing hepatopancreatitis bacterium in <i>Artemia</i> sp.. <i>Archives of Biological Sciences</i> , 2012, 64, 277-280.	0.2	0
99	What is yet to be known About Microbial-Based Systems for Aquaculture?. <i>Journal of Aquaculture & Marine Biology</i> , 2017, 5, .	0.2	0
100	IDENTIFICACIÓN DE LAS PROTEÍNAS INTEGRALES DE MEMBRANA CONSIDERADAS FACTORES DE PATOGENICIDAD EN LA BACTERIA INTRACELULAR <i>Candidatus Hepatobacter penaei</i> MEDIANTE ANÁLISIS BIOINFORMÁTICO. <i>Biotecnia</i> , 2018, 20, 117-126.	0.1	0
101	La microbiota del tracto digestivo de camarones peneidos: una perspectiva histórica y estado del arte//The gut microbiota of penaeid shrimp: a historical perspective and state of the art. <i>Biotecnia</i> , 2019, 22, 5-16.	0.1	0
102	Microbial bioremediation of aquaculture effluents. , 2022, , 409-417.		0