Marcel Martinez-Porchas

List of Publications by Year
in descending order

102 papers	2,076 citations	304368 22 h-index	301761 39 g-index
102 all docs	102 docs citations	102 times ranked	2091 citing authors

#	Article	IF	Citations
1	Extraction and characterization of arabinoxylans obtained from nixtamalized brewersâ€™ spent grains. Food Science and Technology International, 2023, 29, 40-49.	1.1	2
2	Microbial bioremediation of aquaculture effluents. , 2022, , 409-417.		0
3	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
4	Reusing water in a biofloc culture system favors the productive performance of the Nile tilapia (Oreochromis niloticus) without affecting the health status. Aquaculture, 2022, 558, 738363.	1.7	4
5	Granulomatosis in fish aquaculture: a mini review. Reviews in Aquaculture, 2021, 13, 259-268.	4.6	17
6	Exploring the Milk-Clotting and Proteolytic Activities in Different Tissues of Vallesia glabra: a New Source of Plant Proteolytic Enzymes. Applied Biochemistry and Biotechnology, 2021, 193, 389-404.	1.4	13
7	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
8	Water microbiota is not affected by stocking density of the yellowtail kingfish (Seriola lalandi) in a recirculating aquaculture system. Aquaculture Research, 2021, 52, 410-414.	0.9	0
9	Maize Gelling Arabinoxylans Isolated by a Semi-Pilot Scale Procedure: Viscoelastic Properties and Microstructural Characteristics. , 2021, , 151-164.		0
10	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
11	Exploring the garlic (Allium sativum) properties for fish aquaculture. Fish Physiology and Biochemistry, 2021, 47, 1179-1198.	0.9	27
12	Longitudinal variations in the gastrointestinal microbiome of the white shrimp, Litopenaeus vannamei. PeerJ, 2021, 9, e11827.	0.9	20
13	Isolation and properties of collagen extracted from mixed by-products obtained from different fish species. Biotecnia, 2021, 23, 109-116.	0.1	0
14	Therapeutic modulation of fish gut microbiota, a feasible strategy for aquaculture?. Aquaculture, 2021, 544, 737050.	1.7	54
15	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
16	Effect of dietary protein and genetic line of Litopenaeus vannamei on its hepatopancreatic microbiota. Scientia Agricola, 2021, 78, .	0.6	0
17	Effects of different dietary proteinâ€energy ratios on growth, carcass amino acid and fatty acid profile of male and female Cherax quadricarinatus (von Martens, 1868) preâ€adults. Aquaculture Nutrition, 2021, 27, 2481-2496.	1.1	6
18	Biofloc Technology (BFT) in Shrimp Farming: Past and Present Shaping the Future. Frontiers in Marine Science, 2021, 8, .	1.2	10

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19	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
20	Shortâ€term effect of the inoculation of probiotics in mature bioflocs: Water quality parameters and abundance of heterotrophic and ammoniaâ€oxidizing bacteria. Aquaculture Research, 2020, 51, 255-264.	0.9	8
21	Effect of supplementing heterotrophic and photoautotrophic biofloc, on the production response, physiological condition and post-harvest quality of the whiteleg shrimp, Litopenaeus vannamei. Aquaculture Reports, 2020, 16, 100257.	0.7	23
22	Taxonomic and functional changes in the microbiota of the white shrimp (Litopenaeus vannamei) associated with postlarval ontogenetic development. Aquaculture, 2020, 518, 734842.	1.7	20
23	The implication of metabolically active Vibrio spp. in the digestive tract of Litopenaeus vannamei for its post-larval development. Scientific Reports, 2020, 10, 11428.	1.6	8
24	Gut microbiota shifts in the giant tiger shrimp, Penaeus monodon, during the postlarvae, juvenile, and adult stages. Aquaculture International, 2020, 28, 1421-1433.	1.1	22
25	Cheese Whey Fermentation by Its Native Microbiota: Proteolysis and Bioactive Peptides Release with ACE-Inhibitory Activity. Fermentation, 2020, 6, 19.	1.4	44
26	Does vertical substrate could influence the dietary protein level and zootechnical performance of the Pacific white shrimp Litopenaeus vannamei reared in a biofloc system?. Aquaculture International, 2020, 28, 1227-1241.	1.1	15
27	The nitrification process for nitrogen removal in biofloc system aquaculture. Reviews in Aquaculture, 2020, 12, 2228-2249.	4.6	63
28	The Pacific harbor seal gut microbiota in Mexico: Its relationship with diet and functional inferences. PLoS ONE, 2019, 14, e0221770.	1.1	24
29	Silver Nanoparticles Synthesized with Rumex hymenosepalus: A Strategy to Combat Early Mortality Syndrome (EMS) in a Cultivated White Shrimp. Journal of Nanomaterials, 2019, 2019, 1-15.	1.5	12
30	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
31	Functional metagenomics: a tool to gain knowledge for agronomic and veterinary sciences. Biotechnology and Genetic Engineering Reviews, 2019, 35, 69-91.	2.4	6
32	Addition of commercial probiotic in a biofloc shrimp farm of Litopenaeus vannamei during the nursery phase: Effect on bacterial diversity using massive sequencing 16S rRNA. Aquaculture, 2019, 502, 391-399.	1.7	45
33	Biofilm consumption shapes the intestinal microbiota of shrimp (Penaeus vannamei). Aquaculture Nutrition, 2019, 25, 427-435.	1.1	16
34	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
35	Predictive functional profiles using metagenomic 16S <scp>rRNA</scp> data: a novel approach to understanding the microbial ecology of aquaculture systems. Reviews in Aquaculture, 2019, 11, 234-245.	4.6	72
36	Functional Metagenomics for Rhizospheric Soil in Agricultural Systems. , 2019, , 149-160.		1

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37	La microbiota del tracto digestivo de camarones peneidos: una perspectiva histÃ³rica y estado del arte//The gut microbiota of penaeid shrimp: a historical perspective and state of the art. Biotecnia, 2019, 22, 5-16.	0.1	0
38	Effect of adding vegetable substrates on Penaeus vannamei 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
39	Identifying the causal agent of necrotizing hepatopancreatitis in shrimp: Multilocus sequence analysis approach. Aquaculture Research, 2018, 49, 1795-1802.	0.9	7
40	Beyond the primary structure of Kazal domains in decapod crustaceans. Journal of Crustacean Biology, 2018, 38, 156-165.	0.3	1
41	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
42	Proteomic profiling of integral membrane proteins associated to pathogenicity in Vibrio parahaemolyticus strains. Microbiology and Immunology, 2018, 62, 14-23.	0.7	26
43	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
44	Growth and survival of juvenile cauque river prawn Macrobrachium americanum fed with diets containing different protein levels. Latin American Journal of Aquatic Research, 2018, 46, 534-542.	0.2	6
45	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
46	IDENTIFICACIÃ“N DE LAS PROTEÃNAS INTEGRALES DE MEMBRANA CONSIDERADAS FACTORES DE PATOGENICIDAD EN LA BACTERIA INTRACELULAR Candidatus Hepatobacter penaei MEDIANTE ANÃLISIS BIOINFORMÃTICO. Biotecnia, 2018, 20, 117-126.	0.1	0
47	From microbes to fish the next revolution in food production. Critical Reviews in Biotechnology, 2017, 37, 287-295.	5.1	58
48	Microbial metagenomics in aquaculture: a potential tool for a deeper insight into the activity. Reviews in Aquaculture, 2017, 9, 42-56.	4.6	100
49	Transcriptional expression of immune system genes inLitopenaeus vannameiduring ontogenetic development. Aquaculture Research, 2017, 48, 1110-1118.	0.9	9
50	Bacterial diversity studied by nextâ€generation sequencing in a mature phototrophic Navicula spâ€based biofilm promoted into a shrimp culture system. Aquaculture Research, 2017, 48, 2047-2054.	0.9	10
51	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
52	Size-variable zone in V3 region of 16S rRNA. RNA Biology, 2017, 14, 1514-1521.	1.5	14
53	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
54	An efficient strategy using k- mers to analyse 16S rRNA sequences. Heliyon, 2017, 3, e00370.	1.4	5

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55	Bacterial biota of shrimp intestine is significantly modified by the use of a probiotic mixture: a high throughput sequencing approach. Helgoland Marine Research, 2017, 71, .	1.3	63
56	How conserved are the conserved 16S-rRNA regions?. PeerJ, 2017, 5, e3036.	0.9	39
57	Effect of the addition of an aqueous extract of the San Pedro Daisy Lasianthaea podocephala, in the culture of the Pacific white shrimp, Litopenaeus vannamei, under laboratory conditions. Latin American Journal of Aquatic Research, 2017, 43, 904-911.	0.2	1
58	ProteÃnas transmembranales de organismos tipo rickettsia (OTR) en animales acuÃ¡ticos: Factores de adherencia, invasiÃ³n e infecciÃ³n. Revista De Biologia Marina Y Oceanografia, 2017, 52, 19-32.	0.1	2
59	AnÃ¡lisis bioinformÃ¡tico del sistema flagelar de la alphaproteobacteria tipo rickettsia Candidatus Hepatobacter penaei. Revista De Biologia Marina Y Oceanografia, 2017, 52, 121-130.	0.1	2
60	What is yet to be known About Microbial-Based Systems for Aquaculture?. Journal of Aquaculture & Marine Biology, 2017, 5, .	0.2	0
61	A preliminary evaluation of the San Pedro daisy (Lasianthaea podocephala) tuber powder, as a feed additive on the intensive culture of shrimp (Litopenaeus vannamei) under laboratory conditions. Latin American Journal of Aquatic Research, 2017, 41, 440-446.	0.2	4
62	Mince from Tilapia-Backbone: Effects of Washing and Cryoprotectant Addition during Frozen Storage. Journal of Food Research, 2016, 5, 32.	0.1	1
63	Significant loss of sensitivity and specificity in the taxonomic classification occurs when short 16S rRNA gene sequences are used. Heliyon, 2016, 2, e00170.	1.4	72
64	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
65	Amino acid profile of collagen fractions extracted from by-products ofOphistonema libertateandScomber japonicus. CYTA - Journal of Food, 2016, 14, 296-301.	0.9	1
66	Studying long 16S rDNA sequences with ultrafast-metagenomic sequence classification using exact alignments (Kraken). Journal of Microbiological Methods, 2016, 122, 38-42.	0.7	34
67	Physiological and sanitary condition of the white clam Dosinia ponderosa collected from a coastal area impacted by shrimp farm effluent. Aquaculture International, 2016, 24, 243-256.	1.1	3
68	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
69	Microbialâ€based systems for aquaculture of fish and shrimp: an updated review. Reviews in Aquaculture, 2015, 7, 131-148.	4.6	151
70	Effect of freezing on protein denaturation and gelling capacity of jumbo squid (Dosidicus gigas) mantle muscle. LWT - Food Science and Technology, 2015, 60, 737-742.	2.5	15
71	USO DE MICROORGANISMOS EN EL CULTIVO DE CRUSTÃCEOS. Biotecnia, 2015, 16, 50.	0.1	3
72	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

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73	Spray-Drying Effect of the Soluble Solids from an Effluent Produced by Cooking Jumbo Squid (Dosidicusgigas) Mantle Muscle. Drying Technology, 2014, 32, 1200-1209.	1.7	2
74	Bioremediation of Aquaculture Effluents. , 2014, , 539-553.		10
75	Rickettsiaâ€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
76	Effect of using autotrophic and heterotrophic microbial-based-systems for the pre-grown ofLitopenaeus vannamei,on the production performance and selected haemolymph parameters. Aquaculture Research, 2014, 45, 944-948.	0.9	39
77	Gene expression responses of white shrimp (Litopenaeus vannamei) infected with necrotizing hepatopancreatitis bacterium. Aquaculture, 2014, 420-421, 165-170.	1.7	7
78	Evaluation of partial and total replacement of formulated feed by live insects,Trichocorixasp. (Heteroptera: Corixidae) on the productive and nutritional response, and postharvest quality of shrimp,Litopenaeus vannamei(Boone 1931). Aquaculture Nutrition, 2013, 19, 218-226.	1.1	7
79	Study of zooplankton communities in shrimp earthen ponds, with and without organic nutrient-enriched substrates. Aquaculture International, 2013, 21, 65-73.	1.1	10
80	Overwintering the black clam Chione fluctifraga in a tidal shrimp pond and in an estuary, using suspended and bottom systems. Aquaculture, 2013, 396-399, 102-105.	1.7	3
81	Effect of salinity on growth and chemical composition of the diatom Thalassiosira weissflogii at three culture phases. Latin American Journal of Aquatic Research, 2012, 40, 435-440.	0.2	56
82	Physiological and immune responses of white shrimp (Litopenaeus vannamei) infected with necrotizing hepatopancreatitis bacterium. Aquaculture, 2012, 324-325, 14-19.	1.7	14
83	World Aquaculture: Environmental Impacts and Troubleshooting Alternatives. Scientific World Journal, The, 2012, 2012, 1-9.	0.8	145
84	Production Response and Digestive Enzymatic Activity of the Pacific White ShrimpLitopenaeus vannamei(Boone, 1931) Intensively Pregrown in Microbial Heterotrophic and Autotrophic-Based Systems. Scientific World Journal, The, 2012, 2012, 1-6.	0.8	31
85	Experimental Infection and Detection of Necrotizing Hepatopancreatitis Bacterium in the American LobsterHomarus americanus. Scientific World Journal, The, 2012, 2012, 1-4.	0.8	4
86	TEXTURAL CHANGES OF RAW AND COOKED MUSCLE OF SHRIMP, LITOPENAEUS VANNAMEI, INFECTED WITH NECROTIZING HEPATOPANCREATITIS BACTERIUM (NHPB). Journal of Texture Studies, 2012, 43, 453-458.	1.1	9
87	Effect of alternative mediums on production and proximate composition of the microalgae Chaetoceros muelleri as food in culture of the copepod Acartia sp.. Latin American Journal of Aquatic Research, 2012, 40, 169-176.	0.2	9
88	Development of a simple method to inoculate necrotizing hepatopancreatitis bacterium in Artemia sp.. Archives of Biological Sciences, 2012, 64, 277-280.	0.2	0
89	Evaluation of different microalgae species and Artemia (Artemia franciscana) as possible vectors of necrotizing hepatopancreatitis bacteria. Aquaculture, 2011, 318, 273-276.	1.7	16
90	Studies on the bioremediation capacity of the adult black clam, Chione fluctifraga, of shrimp culture effluents. Revista De Biologia Marina Y Oceanografia, 2011, 46, 105-113.	0.1	9

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91	Effect of promoted natural feed on the production, nutritional, and immunological parameters of Litopenaeus vannamei (Boone, 1931) semi-intensively farmed. Aquaculture Nutrition, 2011, 17, e622-e628.	1.1	25
92	Bioremediation and reuse of shrimp aquaculture effluents to farm whiteleg shrimp, Litopenaeus vannameiâ€ƒ: a first approach. Aquaculture Research, 2011, 42, 1415-1423.	0.9	20
93	Evaluation of the physiological status of the Pacific sardine, Sardinops sagax caeruleus, acclimated to different thermal regimes based on selected blood parameters. Environmental Biology of Fishes, 2011, 91, 39-49.	0.4	5
94	The effect of inoculation time and inoculum concentration on the productive response of Tetraselmis chuii (Butcher, 1958) mass cultured in F/2 and 2-F media. Archives of Biological Sciences, 2011, 63, 557-562.	0.2	6
95	Effect of supplying four copepod densities (Acartia sp. and Calanus pacificus) onthe productive response of Litopenaeus vannamei pregrown intensively at microcosm level. Ciencias Marinas, 2011, 37, 415-423.	0.4	9
96	Shrimp polyculture: a potentially profitable, sustainable, but uncommon aquacultural practice. Reviews in Aquaculture, 2010, 2, 73-85.	4.6	85
97	EstimaciÃ³n de los rangos tÃ©rmicos asociados con la distribuciÃ³n de Sardinops sagax caeruleus, con base en su preferencia tÃ©rmica. Revista De Biologia Marina Y Oceanografia, 2010, 45, 537-540.	0.1	1
98	Performance of three diets with different protein:energy ratios on the culture of the Pacific white shrimp, Litopenaeus vannamei, under practical descending temperature conditions. AtlÃ¢ntica, 2010, 32, 111-118.	0.1	1
99	Thermal behavior of the Pacific sardine (Sardinops sagax) acclimated to different thermal cycles. Journal of Thermal Biology, 2009, 34, 372-376.	1.1	14
100	Polyculture of Pacific white shrimp, Litopenaeus vannamei, giant oyster, Crassostrea gigas and black clam, Chione fluctifraga in ponds in Sonora, Mexico. Aquaculture, 2006, 258, 321-326.	1.7	39
101	Biofloc Technology (BFT): A Tool for Water Quality Management in Aquaculture. , 0, , .		110
102	Tandem repeat sequences expressed in the hemocytes of Litopenaeus vannamei Boone, 1931 (Decapoda:) Tj ETQq0 0 0 rgBT /Overlock	0.3	0