

Arnaud Huvet

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94
papers

6,369
citations

44
h-index

79
g-index

97
ext. papers

7,714
ext. citations

5.3
avg, IF

5.59
L-index

#	Paper	IF	Citations
94	Oyster reproduction is affected by exposure to polystyrene microplastics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 2430-5	11.5	788
93	Microplastics in seafood: Benchmark protocol for their extraction and characterization. <i>Environmental Pollution</i> , 2016 , 215, 223-233	9.3	408
92	Interactions between microplastics and phytoplankton aggregates: Impact on their respective fates. <i>Marine Chemistry</i> , 2015 , 175, 39-46	3.7	357
91	Exposure of marine mussels <i>Mytilus</i> spp. to polystyrene microplastics: Toxicity and influence on fluoranthene bioaccumulation. <i>Environmental Pollution</i> , 2016 , 216, 724-737	9.3	349
90	Evaluation of the impact of polyethylene microbeads ingestion in European sea bass (<i>Dicentrarchus labrax</i>) larvae. <i>Marine Environmental Research</i> , 2015 , 112, 78-85	3.3	217
89	Influence of environmental and anthropogenic factors on the composition, concentration and spatial distribution of microplastics: A case study of the Bay of Brest (Brittany, France). <i>Environmental Pollution</i> , 2017 , 225, 211-222	9.3	201
88	Interactions between polystyrene microplastics and marine phytoplankton lead to species-specific hetero-aggregation. <i>Environmental Pollution</i> , 2017 , 228, 454-463	9.3	175
87	Microplastic bacterial communities in the Bay of Brest: Influence of polymer type and size. <i>Environmental Pollution</i> , 2018 , 242, 614-625	9.3	156
86	Temperature and photoperiod drive <i>Crassostrea gigas</i> reproductive internal clock. <i>Aquaculture</i> , 2005 , 250, 458-470	4.4	152
85	Microplastics Baseline Surveys at the Water Surface and in Sediments of the North-East Atlantic. <i>Frontiers in Marine Science</i> , 2017 , 4,	4.5	141
84	Cellular and molecular hemocyte responses of the Pacific oyster, <i>Crassostrea gigas</i> , following bacterial infection with <i>Vibrio aestuarianus</i> strain 01/32. <i>Microbes and Infection</i> , 2006 , 8, 2715-24	9.3	136
83	Increasing genomic information in bivalves through new EST collections in four species: development of new genetic markers for environmental studies and genome evolution. <i>Gene</i> , 2008 , 408, 27-36	3.8	130
82	Genetically based resistance to summer mortality in the Pacific oyster (<i>Crassostrea gigas</i>) and its relationship with physiological, immunological characteristics and infection processes. <i>Aquaculture</i> , 2007 , 268, 227-243	4.4	128
81	The identification of genes from the oyster <i>Crassostrea gigas</i> that are differentially expressed in progeny exhibiting opposed susceptibility to summer mortality. <i>Gene</i> , 2004 , 343, 211-20	3.8	119
80	Generation and analysis of a 29,745 unique Expressed Sequence Tags from the Pacific oyster (<i>Crassostrea gigas</i>) assembled into a publicly accessible database: the GigasDatabase. <i>BMC Genomics</i> , 2009 , 10, 341	4.5	116
79	Constraints and Priorities for Conducting Experimental Exposures of Marine Organisms to Microplastics. <i>Frontiers in Marine Science</i> , 2018 , 5,	4.5	113
78	Nanoplastics impaired oyster free living stages, gametes and embryos. <i>Environmental Pollution</i> , 2018 , 242, 1226-1235	9.3	111

77	Oyster vasa-like gene as a marker of the germline cell development in <i>Crassostrea gigas</i> . <i>Biochemical and Biophysical Research Communications</i> , 2004 , 320, 592-8	3.4	103
76	Relative importance of family, site, and field placement timing on survival, growth, and yield of hatchery-produced Pacific oyster spat (<i>Crassostrea gigas</i>). <i>Aquaculture</i> , 2005 , 249, 213-229	4.4	97
75	In vivo RNA interference in oyster--vasa silencing inhibits germ cell development. <i>FEBS Journal</i> , 2009 , 276, 2566-73	5.7	90
74	Gonad transcriptome analysis of pearl oyster <i>Pinctada margaritifera</i> : identification of potential sex differentiation and sex determining genes. <i>BMC Genomics</i> , 2014 , 15, 491	4.5	83
73	Combination of a pesticide exposure and a bacterial challenge: in vivo effects on immune response of Pacific oyster, <i>Crassostrea gigas</i> (Thunberg). <i>Aquatic Toxicology</i> , 2007 , 84, 92-102	5.1	83
72	Evidence in oyster of a plasma extracellular superoxide dismutase which binds LPS. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 338, 1089-97	3.4	80
71	The oyster vasa-like gene: a specific marker of the germline in <i>Crassostrea gigas</i> . <i>Biochemical and Biophysical Research Communications</i> , 2004 , 315, 897-904	3.4	79
70	Colonization of Polystyrene Microparticles by <i>Vibrio crassostreae</i> : Light and Electron Microscopic Investigation. <i>Environmental Science & Technology</i> , 2016 , 50, 10988-10996	10.3	76
69	Cellular responses of Pacific oyster (<i>Crassostrea gigas</i>) gametes exposed in vitro to polystyrene nanoparticles. <i>Chemosphere</i> , 2018 , 208, 764-772	8.4	66
68	Microplastic contamination and pollutant levels in mussels and cockles collected along the channel coasts. <i>Environmental Pollution</i> , 2019 , 250, 807-819	9.3	64
67	A cDNA microarray for <i>Crassostrea virginica</i> and <i>C. gigas</i> . <i>Marine Biotechnology</i> , 2007 , 9, 577-91	3.4	60
66	<i>Vibrio aestuarianus</i> zinc metalloprotease causes lethality in the Pacific oyster <i>Crassostrea gigas</i> and impairs the host cellular immune defenses. <i>Fish and Shellfish Immunology</i> , 2010 , 29, 753-8	4.3	58
65	Molecular cloning and seasonal expression of oyster glycogen phosphorylase and glycogen synthase genes. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2005 , 140, 635-46	2.3	57
64	Development of a Pacific oyster (<i>Crassostrea gigas</i>) 31,918-feature microarray: identification of reference genes and tissue-enriched expression patterns. <i>BMC Genomics</i> , 2011 , 12, 468	4.5	54
63	Variable microsatellites in the Pacific oyster <i>Crassostrea gigas</i> and other cupped oyster species. <i>Animal Genetics</i> , 2000 , 31, 71-2	2.5	54
62	Proteomic identification of quality factors for oocytes in the Pacific oyster <i>Crassostrea gigas</i> . <i>Journal of Proteomics</i> , 2012 , 75, 5554-63	3.9	51
61	Gametogenesis in the Pacific oyster <i>Crassostrea gigas</i> : a microarrays-based analysis identifies sex and stage specific genes. <i>PLoS ONE</i> , 2012 , 7, e36353	3.7	51
60	Surface functionalization determines behavior of nanoplastic solutions in model aquatic environments. <i>Chemosphere</i> , 2019 , 225, 639-646	8.4	50

59	Microarray analysis highlights immune response of pacific oysters as a determinant of resistance to summer mortality. <i>Marine Biotechnology</i> , 2012 , 14, 203-17	3.4	50
58	Reproductive effort of Pacific oysters: A trait associated with susceptibility to summer mortality. <i>Aquaculture</i> , 2010 , 304, 95-99	4.4	50
57	Hemocyte characteristics in families of oysters, <i>Crassostrea gigas</i> , selected for differential survival during summer and reared in three sites. <i>Aquaculture</i> , 2007 , 270, 276-288	4.4	50
56	A comparative field study of growth, survival and reproduction of <i>Crassostrea gigas</i> , <i>C. angulata</i> and their hybrids. <i>Aquatic Living Resources</i> , 2002 , 15, 243-250	1.5	49
55	Natural hybridization between genetically differentiated populations of <i>Crassostrea gigas</i> and <i>C. angulata</i> highlighted by sequence variation in flanking regions of a microsatellite locus. <i>Marine Ecology - Progress Series</i> , 2004 , 272, 141-152	2.6	49
54	Determination of Gender in the Pearl Oyster <i>Pinctada margaritifera</i> . <i>Journal of Shellfish Research</i> , 2011 , 30, 231-240	1	48
53	Microarray-based identification of gonad transcripts differentially expressed between lines of Pacific oyster selected to be resistant or susceptible to summer mortality. <i>Marine Biotechnology</i> , 2010 , 12, 326-39	3.4	48
52	Mitochondrial and nuclear DNA phylogeography of <i>Crassostrea angulata</i> , the Portuguese oyster endangered in Europe. <i>Conservation Genetics</i> , 2000 , 1, 251-262	2.6	48
51	Polystyrene microbeads modulate the energy metabolism of the marine diatom <i>Chaetoceros neogracile</i> . <i>Environmental Pollution</i> , 2019 , 251, 363-371	9.3	44
50	Is fertility of hybrids enough to conclude that the two oysters <i>Crassostrea gigas</i> and <i>Crassostrea angulata</i> are the same species?. <i>Aquatic Living Resources</i> , 2002 , 15, 45-52	1.5	41
49	Reply to Lenz et al.: Quantifying the smallest microplastics is the challenge for a comprehensive view of their environmental impacts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E4123-4	11.5	40
48	An amylase gene polymorphism is associated with growth differences in the Pacific cupped oyster <i>Crassostrea gigas</i> . <i>Animal Genetics</i> , 2006 , 37, 348-51	2.5	39
47	Transcriptional regulation of pyruvate kinase and phosphoenolpyruvate carboxykinase in the adductor muscle of the oyster <i>Crassostrea gigas</i> during prolonged hypoxia. <i>Journal of Experimental Zoology</i> , 2007 , 307, 371-82		36
46	Tissue expression of two α -amylase genes in the Pacific oyster <i>Crassostrea gigas</i> . Effects of two different food rations. <i>Aquaculture</i> , 2003 , 228, 321-333	4.4	34
45	Do transparent exopolymeric particles (TEP) affect the toxicity of nanoplastics on <i>Chaetoceros neogracile</i> ?. <i>Environmental Pollution</i> , 2019 , 250, 873-882	9.3	33
44	Feeding and respiratory time activities in the cupped oysters <i>Crassostrea gigas</i> , <i>Crassostrea angulata</i> and their hybrids. <i>Aquaculture</i> , 2003 , 218, 539-551	4.4	32
43	Characterization of a gonad-specific transforming growth factor-beta superfamily member differentially expressed during the reproductive cycle of the oyster <i>Crassostrea gigas</i> . <i>Gene</i> , 2008 , 410, 187-96	3.8	31
42	Bioactive extracellular compounds produced by the dinoflagellate <i>Alexandrium minutum</i> are highly detrimental for oysters. <i>Aquatic Toxicology</i> , 2018 , 199, 188-198	5.1	30

41	Microsatellite analysis of 6-hour-old embryos reveals no preferential intraspecific fertilization between cupped oysters <i>Crassostrea gigas</i> and <i>Crassostrea angulata</i> . <i>Marine Biotechnology</i> , 2001 , 3, 448-53	3.4	30
40	Identification of male gametogenesis expressed genes from the scallop <i>Nodipecten subnodosus</i> by suppressive subtraction hybridization and pyrosequencing. <i>PLoS ONE</i> , 2013 , 8, e73176	3.7	29
39	Association among growth, food consumption-related traits and amylase gene polymorphism in the Pacific oyster <i>Crassostrea gigas</i> . <i>Animal Genetics</i> , 2008 , 39, 662-5	2.5	29
38	Contrasted survival under field or controlled conditions displays associations between mRNA levels of candidate genes and response to OsHV-1 infection in the Pacific oyster <i>Crassostrea gigas</i> . <i>Marine Genomics</i> , 2014 , 15, 95-102	1.9	28
37	Toxic effects of leachates from plastic pearl-farming gear on embryo-larval development in the pearl oyster <i>Pinctada margaritifera</i> . <i>Water Research</i> , 2020 , 179, 115890	12.5	28
36	Disruption of amylase genes by RNA interference affects reproduction in the Pacific oyster <i>Crassostrea gigas</i> . <i>Journal of Experimental Biology</i> , 2015 , 218, 1740-7	3	27
35	GigaTON: an extensive publicly searchable database providing a new reference transcriptome in the pacific oyster <i>Crassostrea gigas</i> . <i>BMC Bioinformatics</i> , 2015 , 16, 401	3.6	27
34	Structure of amylase genes in populations of Pacific Cupped oyster (<i>Crassostrea gigas</i>): tissue expression and allelic polymorphism. <i>Marine Biotechnology</i> , 2003 , 5, 360-72	3.4	27
33	Regulation of a truncated isoform of AMP-activated protein kinase (AMPK) in response to hypoxia in the muscle of Pacific oyster <i>Crassostrea gigas</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2013 , 183, 597-611	2.2	25
32	In vivo RNA interference of a gonad-specific transforming growth factor- β in the Pacific oyster <i>Crassostrea gigas</i> . <i>Marine Biotechnology</i> , 2012 , 14, 402-10	3.4	25
31	Nanoplastics exposure modulate lipid and pigment compositions in diatoms. <i>Environmental Pollution</i> , 2020 , 262, 114274	9.3	20
30	Structural and functional characterizations of an Activin type II receptor orthologue from the pacific oyster <i>Crassostrea gigas</i> . <i>Gene</i> , 2009 , 436, 101-7	3.8	20
29	Sex-specific regulation of AMP-activated protein kinase (AMPK) in the Pacific oyster <i>Crassostrea gigas</i> . <i>Biology of Reproduction</i> , 2013 , 89, 100	3.9	19
28	Molecular signatures discriminating the male and the female sexual pathways in the pearl oyster <i>Pinctada margaritifera</i> . <i>PLoS ONE</i> , 2015 , 10, e0122819	3.7	18
27	Identification of a tubulin- β gene specifically expressed in testis and adductor muscle during stable reference gene selection in the hermaphrodite gonad of the lion's paw scallop <i>Nodipecten subnodosus</i> . <i>Marine Genomics</i> , 2012 , 6, 33-44	1.9	17
26	Study of the antioxidant capacity in gills of the Pacific oyster <i>Crassostrea gigas</i> in link with its reproductive investment. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2013 , 157, 63-71	3.2	15
25	Effect of temperature, food availability, and estradiol injection on gametogenesis and gender in the pearl oyster <i>Pinctada margaritifera</i> . <i>Journal of Experimental Zoology</i> , 2016 , 325, 13-24		15
24	Remodeling of the cycling transcriptome of the oyster <i>Crassostrea gigas</i> by the harmful algae <i>Alexandrium minutum</i> . <i>Scientific Reports</i> , 2017 , 7, 3480	4.9	13

23	Oyster transcriptome response to <i>Alexandrium</i> exposure is related to saxitoxin load and characterized by disrupted digestion, energy balance, and calcium and sodium signaling. <i>Aquatic Toxicology</i> , 2018 , 199, 127-137	5.1	13
22	A microarray-based analysis of gametogenesis in two Portuguese populations of the European clam <i>Ruditapes decussatus</i> . <i>PLoS ONE</i> , 2014 , 9, e92202	3.7	13
21	Microplastics induce dose-specific transcriptomic disruptions in energy metabolism and immunity of the pearl oyster <i>Pinctada margaritifera</i> . <i>Environmental Pollution</i> , 2020 , 266, 115180	9.3	12
20	Additive transcriptomic variation associated with reproductive traits suggest local adaptation in a recently settled population of the Pacific oyster, <i>Crassostrea gigas</i> . <i>BMC Genomics</i> , 2015 , 16, 808	4.5	12
19	A functional study of transforming growth factor-beta from the gonad of Pacific oyster <i>Crassostrea gigas</i> . <i>Marine Biotechnology</i> , 2011 , 13, 971-80	3.4	11
18	Nanopolystyrene beads affect motility and reproductive success of oyster spermatozoa (). <i>Nanotoxicology</i> , 2020 , 14, 1039-1057	5.3	11
17	The toxic dinoflagellate <i>Alexandrium minutum</i> impairs the performance of oyster embryos and larvae. <i>Harmful Algae</i> , 2020 , 92, 101744	5.3	10
16	Long dsRNAs promote an anti-viral response in Pacific oyster hampering ostreid herpesvirus 1 replication. <i>Journal of Experimental Biology</i> , 2017 , 220, 3671-3685	3	9
15	Transcriptomic features of <i>Pecten maximus</i> oocyte quality and maturation. <i>PLoS ONE</i> , 2017 , 12, e0172805	3.7	9
14	Starch supplementation modulates amylase enzymatic properties and amylase B mRNA level in the digestive gland of the Pacific oyster <i>Crassostrea gigas</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2012 , 163, 96-100	2.3	8
13	A microarray-based analysis of oocyte quality in the European clam <i>Ruditapes decussatus</i> . <i>Aquaculture</i> , 2015 , 446, 17-24	4.4	7
12	An Irgafos [®] 168 story: When the ubiquity of an additive prevents studying its leaching from plastics. <i>Science of the Total Environment</i> , 2020 , 749, 141651	10.2	7
11	Co-expression and regulation of ovarian vitellogenins in the Pacific oyster <i>Crassostrea gigas</i> . <i>Aquaculture Research</i> , 2014 , 45, 448-459	1.9	6
10	Biological rhythms in the deep-sea hydrothermal mussel <i>Bathymodiolus azoricus</i> . <i>Nature Communications</i> , 2020 , 11, 3454	17.4	6
9	Genomic Approaches in Aquaculture and Fisheries 2010 , 213-286		4
8	Insights into molecular features of <i>Venerupis decussata</i> oocytes: a microarray-based study. <i>PLoS ONE</i> , 2014 , 9, e113925	3.7	4
7	Microplastics contamination in pearl-farming lagoons of French Polynesia. <i>Journal of Hazardous Materials</i> , 2021 , 419, 126396	12.8	4
6	Breaking Down the Plastic Age 2017 , 177-181		3

5	Ecophysiological and Metabolic Adaptations to Sulphide Exposure of the Oyster <i>Crassostrea gigas</i> . <i>Journal of Shellfish Research</i> , 2008 , 27, 355-363	1	1
4	Chemical effects of different types of rubber-based products on early life stages of Pacific oyster, <i>Crassostrea gigas</i> . <i>Journal of Hazardous Materials</i> , 2021 , 127883	12.8	1
3	Amino-nanopolystyrene exposures of oyster () embryos induced no apparent intergenerational effects. <i>Nanotoxicology</i> , 2021 , 15, 477-493	5.3	1
2	Understanding the mechanisms involved in the high sensitivity of <i>Pecten maximus</i> larvae to aeration. <i>Aquaculture</i> , 2018 , 497, 189-199	4.4	0
1	Protected Shores Contaminated with Plastic 2015 , 185-195		