Arnaud Huvet

List of Publications by Year
in descending order

96 papers	8,966 citations	50170 46 h-index	40881 93 g-index
97 all docs	97 docs citations	97 times ranked	6880 citing authors

#	Article	IF	Citations
1	Oyster reproduction is affected by exposure to polystyrene microplastics. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2430-2435.	3.3	1,253
2	Microplastics in seafood: Benchmark protocol for their extraction and characterization. Environmental Pollution, 2016, 215, 223-233.	3.7	621
3	Interactions between microplastics and phytoplankton aggregates: Impact on their respective fates. Marine Chemistry, 2015, 175, 39-46.	0.9	511
4	Exposure of marine mussels Mytilus spp. to polystyrene microplastics: Toxicity and influence on fluoranthene bioaccumulation. Environmental Pollution, 2016, 216, 724-737.	3.7	507
5	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). Environmental Pollution, 2017, 225, 211-222.	3.7	301
6	Evaluation of the impact of polyethylene microbeads ingestion in European sea bass (Dicentrarchus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.1	289
7	Microplastic bacterial communities in the Bay of Brest: Influence of polymer type and size. Environmental Pollution, 2018, 242, 614-625.	3.7	280
8	Interactions between polystyrene microplastics and marine phytoplankton lead to species-specific hetero-aggregation. Environmental Pollution, 2017, 228, 454-463.	3.7	270
9	Microplastics Baseline Surveys at the Water Surface and in Sediments of the North-East Atlantic. Frontiers in Marine Science, 2017, 4, .	1.2	204
10	Nanoplastics impaired oyster free living stages, gametes and embryos. Environmental Pollution, 2018, 242, 1226-1235.	3.7	192
11	Temperature and photoperiod drive Crassostrea gigas reproductive internal clock. Aquaculture, 2005, 250, 458-470.	1.7	180
12	Constraints and Priorities for Conducting Experimental Exposures of Marine Organisms to Microplastics. Frontiers in Marine Science, 2018, 5, .	1.2	178
13	Genetically based resistance to summer mortality in the Pacific oyster (Crassostrea gigas) and its relationship with physiological, immunological characteristics and infection processes. Aquaculture, 2007, 268, 227-243.	1.7	166
14	Cellular and molecular hemocyte responses of the Pacific oyster, Crassostrea gigas, following bacterial infection with Vibrio aestuarianus strain 01/32. Microbes and Infection, 2006, 8, 2715-2724.	1.0	160
15	Increasing genomic information in bivalves through new EST collections in four species: Development of new genetic markers for environmental studies and genome evolution. Gene, 2008, 408, 27-36.	1.0	132
16	The identification of genes from the oyster Crassostrea gigas that are differentially expressed in progeny exhibiting opposed susceptibility to summer mortality. Gene, 2004, 343, 211-220.	1.0	127
17	Relative importance of family, site, and field placement timing on survival, growth, and yield of hatchery-produced Pacific oyster spat (Crassostrea gigas). Aquaculture, 2005, 249, 213-229.	1.7	127
18	Generation and analysis of a 29,745 unique Expressed Sequence Tags from the Pacific oyster (Crassostrea gigas) assembled into a publicly accessible database: the GigasDatabase. BMC Genomics, 2009, 10, 341.	1.2	127

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19	Oyster vasa-like gene as a marker of the germline cell development in Crassostrea gigas. Biochemical and Biophysical Research Communications, 2004, 320, 592-598.	1.0	124
20	Microplastic contamination and pollutant levels in mussels and cockles collected along the channel coasts. Environmental Pollution, 2019, 250, 807-819.	3.7	123
21	Cellular responses of Pacific oyster (Crassostrea gigas) gametes exposed inÂvitro to polystyrene nanoparticles. Chemosphere, 2018, 208, 764-772.	4.2	105
22	Colonization of Polystyrene Microparticles by Vibrio crassostreae: Light and Electron Microscopic Investigation. Environmental Science & Technology, 2016, 50, 10988-10996.	4.6	104
23	Surface functionalization determines behavior of nanoplastic solutions in model aquatic environments. Chemosphere, 2019, 225, 639-646.	4.2	103
24	Inâ€ƒvivo RNA interference in oyster â€“vasa silencing inhibits germ cell development. FEBS Journal, 2009, 276, 2566-2573.	2.2	102
25	Combination of a pesticide exposure and a bacterial challenge: In vivo effects on immune response of Pacific oyster, Crassostrea gigas (Thunberg). Aquatic Toxicology, 2007, 84, 92-102.	1.9	100
26	Gonad transcriptome analysis of pearl oyster Pinctada margaritifera: identification of potential sex differentiation and sex determining genes. BMC Genomics, 2014, 15, 491.	1.2	100
27	The oyster vasa-like gene: a specific marker of the germline in Crassostrea gigas. Biochemical and Biophysical Research Communications, 2004, 315, 897-904.	1.0	89
28	Evidence in oyster of a plasma extracellular superoxide dismutase which binds LPS. Biochemical and Biophysical Research Communications, 2005, 338, 1089-1097.	1.0	83
29	Polystyrene microbeads modulate the energy metabolism of the marine diatom Chaetoceros neogracile. Environmental Pollution, 2019, 251, 363-371.	3.7	83
30	Molecular cloning and seasonal expression of oyster glycogen phosphorylase and glycogen synthase genes. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2005, 140, 635-646.	0.7	78
31	Reproductive effort of Pacific oysters: A trait associated with susceptibility to summer mortality. Aquaculture, 2010, 304, 95-99.	1.7	72
32	Vibrio aestuarianus zinc metalloprotease causes lethality in the Pacific oyster Crassostrea gigas and impairs the host cellular immune defenses. Fish and Shellfish Immunology, 2010, 29, 753-758.	1.6	69
33	Hemocyte characteristics in families of oysters, Crassostrea gigas, selected for differential survival during summer and reared in three sites. Aquaculture, 2007, 270, 276-288.	1.7	66
34	Variable microsatellites in the Pacific Oyster Crassostrea gigas and other cupped oyster species. Animal Genetics, 2000, 31, 71-72.	0.6	65
35	Gametogenesis in the Pacific Oyster Crassostrea gigas: A Microarrays-Based Analysis Identifies Sex and Stage Specific Genes. PLoS ONE, 2012, 7, e36353.	1.1	65
36	Title is missing!. Conservation Genetics, 2000, 1, 251-262.	0.8	64

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37	A cDNA Microarray for Crassostrea virginica and C. gigas. Marine Biotechnology, 2007, 9, 577-591.	1.1	62
38	A comparative field study of growth, survival and reproduction of Crassostrea gigas, C. angulata and their hybrids. Aquatic Living Resources, 2002, 15, 243-250.	0.5	61
39	Toxic effects of leachates from plastic pearl-farming gear on embryo-larval development in the pearl oyster Pinctada margaritifera. Water Research, 2020, 179, 115890.	5.3	61
40	Development of a Pacific oyster (Crassostrea gigas) 31,918-feature microarray: identification of reference genes and tissue-enriched expression patterns. BMC Genomics, 2011, 12, 468.	1.2	58
41	Do transparent exopolymeric particles (TEP) affect the toxicity of nanoplastics on Chaetoceros neogracile?. Environmental Pollution, 2019, 250, 873-882.	3.7	58
42	Proteomic identification of quality factors for oocytes in the Pacific oyster Crassostrea gigas. Journal of Proteomics, 2012, 75, 5554-5563.	1.2	56
43	Determination of Gender in the Pearl OysterPinctada margaritifera. Journal of Shellfish Research, 2011, 30, 231-240.	0.3	55
44	Natural hybridization between genetically differentiated populations of Crassostrea gigas and C. angulata highlighted by sequence variation in flanking regions of a microsatellite locus. Marine Ecology - Progress Series, 2004, 272, 141-152.	0.9	55
45	Microarray-Based Identification of Gonad Transcripts Differentially Expressed Between Lines of Pacific Oyster Selected to Be Resistant or Susceptible to Summer Mortality. Marine Biotechnology, 2010, 12, 326-339.	1.1	53
46	Microarray Analysis Highlights Immune Response of Pacific Oysters as a Determinant of Resistance to Summer Mortality. Marine Biotechnology, 2012, 14, 203-217.	1.1	51
47	Microplastics induce dose-specific transcriptomic disruptions in energy metabolism and immunity of the pearl oyster Pinctada margaritifera. Environmental Pollution, 2020, 266, 115180.	3.7	50
48	Is fertility of hybrids enough to conclude that the two oysters Crassostrea gigas and Crassostrea angulata are the same species?. Aquatic Living Resources, 2002, 15, 45-52.	0.5	48
49	An amylase gene polymorphism is associated with growth differences in the Pacific cupped oyster Crassostrea gigas. Animal Genetics, 2006, 37, 348-351.	0.6	47
50	Reply to Lenz et al.: Quantifying the smallest microplastics is the challenge for a comprehensive view of their environmental impacts. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4123-4.	3.3	44
51	Bioactive extracellular compounds produced by the dinoflagellate Alexandrium minutum are highly detrimental for oysters. Aquatic Toxicology, 2018, 199, 188-198.	1.9	41
52	Transcriptional regulation of pyruvate kinase and phosphoenolpyruvate carboxykinase in the adductor muscle of the oysterCrassostrea gigas during prolonged hypoxia. Journal of Experimental Zoology, 2007, 307A, 371-382.	1.2	40
53	Tissue expression of two Î±-amylase genes in the Pacific oyster Crassostrea gigas. Effects of two different food rations. Aquaculture, 2003, 228, 321-333.	1.7	38
54	Structure of Amylase Genes in Populations of Pacific Cupped Oyster (Crassostrea gigas): Tissue Expression and Allelic Polymorphism. Marine Biotechnology, 2003, 5, 360-372.	1.1	36

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55	Regulation of a truncated isoform of AMP-activated protein kinase Î± (AMPKÎ±) in response to hypoxia in the muscle of Pacific oyster Crassostrea gigas. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2013, 183, 597-611.	0.7	35
56	Identification of Male Gametogenesis Expressed Genes from the Scallop Nodipecten subnodosus by Suppressive Subtraction Hybridization and Pyrosequencing. PLoS ONE, 2013, 8, e73176.	1.1	35
57	Disruption of amylase genes by RNA interference affects reproduction in the Pacific oyster Crassostrea gigas. Journal of Experimental Biology, 2015, 218, 1740-7.	0.8	35
58	Nanoplastics exposure modulate lipid and pigment compositions in diatoms. Environmental Pollution, 2020, 262, 114274.	3.7	35
59	Feeding and respiratory time activities in the cupped oysters Crassostrea gigas, Crassostrea angulata and their hybrids. Aquaculture, 2003, 218, 539-551.	1.7	34
60	GigaTON: an extensive publicly searchable database providing a new reference transcriptome in the pacific oyster Crassostrea gigas. BMC Bioinformatics, 2015, 16, 401.	1.2	34
61	Characterization of a gonad-specific transforming growth factor-Î² superfamily member differentially expressed during the reproductive cycle of the oyster Crassostrea gigas. Gene, 2008, 410, 187-196.	1.0	33
62	Microsatellite Analysis of 6-Hour-Old Embryos Reveals No Preferential Intraspecific Fertilization Between Cupped Oysters Crassostrea gigas and Crassostrea angulata. Marine Biotechnology, 2001, 3, 448-453.	1.1	32
63	Association among growth, food consumptionâ€related traits and amylase gene polymorphism in the Pacific oyster Crassostrea gigas. Animal Genetics, 2008, 39, 662-665.	0.6	32
64	Remodeling of the cycling transcriptome of the oyster Crassostrea gigas by the harmful algae Alexandrium minutum. Scientific Reports, 2017, 7, 3480.	1.6	32
65	In Vivo RNA Interference of a Gonad-Specific Transforming Growth Factor-Î² in the Pacific Oyster Crassostrea gigas. Marine Biotechnology, 2012, 14, 402-410.	1.1	31
66	Sex-Specific Regulation of AMP-Activated Protein Kinase (AMPK) in the Pacific Oyster Crassostrea gigas1. Biology of Reproduction, 2013, 89, 100.	1.2	30
67	Biological rhythms in the deep-sea hydrothermal mussel Bathymodiolus azoricus. Nature Communications, 2020, 11, 3454.	5.8	30
68	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 Crassostrea gigas. Marine Genomics, 2014, 15, 95-102.	0.4	29
69	Microplastics contamination in pearl-farming lagoons of French Polynesia. Journal of Hazardous Materials, 2021, 419, 126396.	6.5	28
70	An IrgafosÂ® 168 story: When the ubiquity of an additive prevents studying its leaching from plastics. Science of the Total Environment, 2020, 749, 141651.	3.9	27
71	Nanopolystyrene beads affect motility and reproductive success of oyster spermatozoa (Crassostrea gigas). Nanotoxicology, 2020, 14, 1039-1057.	1.6	24
72	Structural and functional characterizations of an Activin type II receptor orthologue from the pacific oyster Crassostrea gigas. Gene, 2009, 436, 101-107.	1.0	22

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73	Molecular Signatures Discriminating the Male and the Female Sexual Pathways in the Pearl Oyster Pinctada margaritifera. PLoS ONE, 2015, 10, e0122819.	1.1	22
74	Effect of temperature, food availability, and estradiol injection on gametogenesis and gender in the pearl oyster Pinctada margaritifera. Journal of Experimental Zoology, 2016, 325, 13-24.	1.2	21
75	Identification of a tubulin-Î± gene specifically expressed in testis and adductor muscle during stable reference gene selection in the hermaphrodite gonad of the lion's paw scallop Nodipecten subnodosus. Marine Genomics, 2012, 6, 33-44.	0.4	19
76	Oyster transcriptome response to Alexandrium exposure is related to saxitoxin load and characterized by disrupted digestion, energy balance, and calcium and sodium signaling. Aquatic Toxicology, 2018, 199, 127-137.	1.9	19
77	Experimental evidence that polystyrene nanoplastics cross the intestinal barrier of European seabass. Environment International, 2022, 166, 107340.	4.8	19
78	A Functional Study of Transforming Growth Factor-Beta from the Gonad of Pacific Oyster Crassostrea gigas. Marine Biotechnology, 2011, 13, 971-980.	1.1	18
79	Study of the antioxidant capacity in gills of the Pacific oyster Crassostrea gigas in link with its reproductive investment. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2013, 157, 63-71.	1.3	17
80	A Microarray-Based Analysis of Gametogenesis in Two Portuguese Populations of the European Clam Ruditapes decussatus. PLoS ONE, 2014, 9, e92202.	1.1	15
81	Additive transcriptomic variation associated with reproductive traits suggest local adaptation in a recently settled population of the Pacific oyster, Crassostrea gigas. BMC Genomics, 2015, 16, 808.	1.2	15
82	The toxic dinoflagellate Alexandrium minutum impairs the performance of oyster embryos and larvae. Harmful Algae, 2020, 92, 101744.	2.2	14
83	Transcriptomic features of Pecten maximus oocyte quality and maturation. PLoS ONE, 2017, 12, e0172805.	1.1	14
84	Long dsRNAs promote an anti-viral response in Pacific oyster hampering ostreid herpesvirus 1 replication. Journal of Experimental Biology, 2017, 220, 3671-3685.	0.8	11
85	Chemical effects of different types of rubber-based products on early life stages of Pacific oyster, Crassostrea gigas. Journal of Hazardous Materials, 2022, 427, 127883.	6.5	11
86	Starch supplementation modulates amylase enzymatic properties and amylase B mRNA level in the digestive gland of the Pacific oyster Crassostrea gigas. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2012, 163, 96-100.	0.7	10
87	Co-expression and regulation of ovarian vitellogenins in the Pacific oysterCrassostrea gigas. Aquaculture Research, 2014, 45, 448-459.	0.9	8
88	Amino-nanopolystyrene exposures of oyster (Crassostrea gigas) embryos induced no apparent intergenerational effects. Nanotoxicology, 2021, 15, 477-493.	1.6	8
89	A microarray-based analysis of oocyte quality in the European clam Ruditapes decussatus. Aquaculture, 2015, 446, 17-24.	1.7	7
90	Ecophysiological and Metabolic Adaptations to Sulphide Exposure of the Oyster Crassostrea gigas. Journal of Shellfish Research, 2008, 27, 355-363.	0.3	6

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91	Insights into Molecular Features of Venerupis decussata Oocytes: A Microarray-Based Study. PLoS ONE, 2014, 9, e113925.	1.1	6
92	Genomic Approaches in Aquaculture and Fisheries. , 2010, , 213-286.		5
93	Breaking Down the Plastic Age. , 2017, , 177-181.		3
94	Understanding the mechanisms involved in the high sensitivity of Pecten maximus larvae to aeration. Aquaculture, 2018, 497, 189-199.	1.7	3
95	Tire rubber chemicals reduce juvenile oyster (Crassostrea gigas) filtration and respiration under experimental conditions. Marine Pollution Bulletin, 2022, 181, 113936.	2.3	3
96	Protected Shores Contaminated with Plastic. , 2015, , 185-195.		0