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List of Publications by Year
in descending order

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70 papers	3,761 citations	159585 30 h-index	133252 59 g-index
82 all docs	82 docs citations	82 times ranked	3247 citing authors

#	Article	IF	Citations
1	Molluscan Shell Proteins: Primary Structure, Origin, and Evolution. Current Topics in Developmental Biology, 2007, 80, 209-276.	2.2	442
2	The formation and mineralization of mollusk shell. Frontiers in Bioscience - Scholar, 2012, S4, 1099-1125.	2.1	311
3	Different secretory repertoires control the biomineralization processes of prism and nacre deposition of the pearl oyster shell. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20986-20991.	7.1	287
4	Transcriptome and proteome analysis of Pinctada margaritifera calcifying mantle and shell: focus on biomineralization. BMC Genomics, 2010, 11, 613.	2.8	208
5	Natural Products from Cyanobacteria: Focus on Beneficial Activities. Marine Drugs, 2019, 17, 320.	4.6	189
6	The Skeletal Proteome of the Coral Acropora millepora: The Evolution of Calcification by Co-Option and Domain Shuffling. Molecular Biology and Evolution, 2013, 30, 2099-2112.	8.9	155
7	Insights from the Shell Proteome: Biomineralization to Adaptation. Molecular Biology and Evolution, 2017, 34, 66-77.	8.9	120
8	Proteomic analysis of the organic matrix of the abalone Haliotis asinina calcified shell. Proteome Science, 2010, 8, 54.	1.7	119
9	The shellâ€forming proteome of <scp>L</scp>ottiaÂgigantea reveals both deep conservations and lineageâ€specific novelties. FEBS Journal, 2013, 280, 214-232.	4.7	109
10	The shell matrix of the freshwater mussel Unio pictorum (Paleoheterodonta, Unionoida). FEBS Journal, 2007, 274, 2933-2945.	4.7	90
11	The evolution of metazoan Î±-carbonic anhydrases and their roles in calcium carbonate biomineralization. Frontiers in Zoology, 2014, 11, .	2.0	78
12	Deep conservation of bivalve nacre proteins highlighted by shell matrix proteomics of the Unionoida Elliptio complanata and Villosa lienosa. Journal of the Royal Society Interface, 2017, 14, 20160846.	3.4	72
13	Novel Proteins from the Calcifying Shell Matrix of the Pacific Oyster Crassostrea gigas. Marine Biotechnology, 2011, 13, 1159-1168.	2.4	71
14	Molecular Evolution of Mollusc Shell Proteins: Insights from Proteomic Analysis of the Edible Mussel Mytilus. Journal of Molecular Evolution, 2011, 72, 531-546.	1.8	68
15	Evolution of Nacre: Biochemistry and Proteomics of the Shell Organic Matrix of the Cephalopod Nautilus macromphalus. ChemBioChem, 2009, 10, 1495-1506.	2.6	66
16	Escarpia southwardae sp. nov., a new species of vestimentiferan tubeworm (Annelida, Siboglinidae) from West African cold seeps. Canadian Journal of Zoology, 2004, 82, 980-999.	1.0	62
17	Pmargâ€Pearlin is a Matrix Protein Involved in Nacre Framework Formation in the Pearl OysterPinctada margaritifera. ChemBioChem, 2011, 12, 2033-2043.	2.6	61
18	Effect of ambient oxygen concentration on activities of enzymatic antioxidant defences and aerobic metabolism in the hydrothermal vent worm, Paralvinella grasslei. Marine Biology, 2006, 150, 273-284.	1.5	59

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19	Shell repair process in the green ormer Haliotis tuberculata: A histological and microstructural study. Tissue and Cell, 2008, 40, 207-218.	2.2	58
20	Effects of a toxic cyanobacterial bloom (Planktothrix agardhii) on fish: Insights from histopathological and quantitative proteomic assessments following the oral exposure of medaka fish (Oryzias latipes). Aquatic Toxicology, 2012, 114-115, 39-48.	4.0	58
21	Nacre Calcification in the Freshwater Mussel Unio pictorum: Carbonic Anhydrase Activity and Purification of a 95 kDa Calciumâ€Binding Glycoprotein. ChemBioChem, 2008, 9, 2515-2523.	2.6	56
22	Physiological effects caused by microcystin-producing and non-microcystin producing Microcystis aeruginosa on medaka fish: AÂproteomic and metabolomic study on liver. Environmental Pollution, 2018, 234, 523-537.	7.5	51
23	Gender-Specific Toxicological Effects of Chronic Exposure to Pure Microcystin-LR or Complex Microcystis aeruginosa Extracts on Adult Medaka Fish. Environmental Science & Technology, 2016, 50, 8324-8334.	10.0	50
24	Shell matrix proteins of the clam, Mya truncata: Roles beyond shell formation through proteomic study. Marine Genomics, 2016, 27, 69-74.	1.1	47
25	An integrated omic analysis of hepatic alteration in medaka fish chronically exposed to cyanotoxins with possible mechanisms of reproductive toxicity. Environmental Pollution, 2016, 219, 119-131.	7.5	46
26	Proteomic Identification of Novel Proteins from the Calcifying Shell Matrix of the Manila Clam Venerupis Philippinarum. Marine Biotechnology, 2011, 13, 955-962.	2.4	44
27	Deep sexual dimorphism in adult medaka fish liver highlighted by multi-omic approach. Scientific Reports, 2016, 6, 32459.	3.3	43
28	Global Metabolomic Characterizations of Microcystis spp. Highlights Clonal Diversity in Natural Bloom-Forming Populations and Expands Metabolite Structural Diversity. Frontiers in Microbiology, 2019, 10, 791.	3.5	40
29	Proteomic Analysis of the Acidâ€Soluble Nacre Matrix of the BivalveUnio pictorum: Detection of Novel Carbonic Anhydrase and Putative Protease Inhibitor Proteins. ChemBioChem, 2010, 11, 2138-2147.	2.6	36
30	Anatoxin-a: Overview on a harmful cyanobacterial neurotoxin from the environmental scale to the molecular target. Environmental Research, 2021, 193, 110590.	7.5	36
31	The shell organic matrix of the crossed lamellar queen conch shell (Strombus gigas). Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2014, 168, 76-85.	1.6	31
32	Response of Fish Gut Microbiota to Toxin-Containing Cyanobacterial Extracts: A Microcosm Study on the Medaka (Oryzias latipes). Environmental Science and Technology Letters, 2019, 6, 341-347.	8.7	31
33	Microbiome-Aware Ecotoxicology of Organisms: Relevance, Pitfalls, and Challenges. Frontiers in Public Health, 2020, 8, 407.	2.7	31
34	Identification of Two Carbonic Anhydrases in the Mantle of the <scp>E</scp>uropean Abalone <scp>H</scp>aliotis tuberculata (<scp>G</scp>astropoda, Haliotidae): Phylogenetic Implications. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2012, 318, 353-367.	1.3	30
35	Biomineralization toolkit: The importance of sample cleaning prior to the characterization of biomineral proteomes. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2144-E2146.	7.1	30
36	Characterization of MRNP34, a novel methionine-rich nacre protein from the pearl oysters. Amino Acids, 2012, 42, 2009-2017.	2.7	28

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37	Living in a hot redox soup: antioxidant defences of the hydrothermal worm Alvinella pompejana. Aquatic Biology, 2013, 18, 217-228.	1.4	28
38	Nautilinâ€63, a novel acidic glycoprotein from the shell nacre of Nautilusâ€ƒmacromphalus. FEBS Journal, 2011, 278, 2117-2130.	4.7	26
39	Proteomics of CaCO₃biomineral-associated proteins: How to properly address their analysis. Proteomics, 2013, 13, 3109-3116.	2.2	26
40	First proteomic analyses of the dorsal and ventral parts of the Sepia officinalis cuttlebone. Journal of Proteomics, 2017, 150, 63-73.	2.4	25
41	Insights into the Diversity of Secondary Metabolites of Planktothrix Using a Biphasic Approach Combining Global Genomics and Metabolomics. Toxins, 2019, 11, 498.	3.4	24
42	Proteomic Strategy for Identifying Mollusc Shell Proteins Using Mild Chemical Degradation and Trypsin Digestion of Insoluble Organic Shell Matrix: A Pilot Study on Haliotis tuberculata. Marine Biotechnology, 2012, 14, 446-458.	2.4	22
43	Toxicity of harmful cyanobacterial blooms to bream and roach. Toxicon, 2013, 71, 121-127.	1.6	22
44	Molecular modularity and asymmetry of the molluscan mantle revealed by a gene expression atlas. GigaScience, 2018, 7, .	6.4	22
45	Anti-Inflammatory, Antioxidant, and Wound-Healing Properties of Cyanobacteria from Thermal Mud of Balaruc-Les-Bains, France: A Multi-Approach Study. Biomolecules, 2021, 11, 28.	4.0	20
46	Specificity of the metabolic signatures of fish from cyanobacteria rich lakes. Chemosphere, 2019, 226, 183-191.	8.2	18
47	Novel Molluskan Biomineralization Proteins Retrieved from Proteomics: A Case Study with Upsalin. ChemBioChem, 2012, 13, 1067-1078.	2.6	17
48	An Antarctic molluscan biomineralisation tool-kit. Scientific Reports, 2016, 6, 36978.	3.3	17
49	Subcellular localization of microcystin in the liver and the gonads of medaka fish acutely exposed to microcystin-LR. Toxicon, 2019, 159, 14-21.	1.6	16
50	Toxicity, transfer and depuration of anatoxin-a (cyanobacterial neurotoxin) in medaka fish exposed by single-dose gavage. Aquatic Toxicology, 2020, 222, 105422.	4.0	15
51	Global metabolome changes induced by cyanobacterial blooms in three representative fish species. Science of the Total Environment, 2017, 590-591, 333-342.	8.0	14
52	Metabolic changes in Medaka fish induced by cyanobacterial exposures in mesocosms: an integrative approach combining proteomic and metabolomic analyses. Scientific Reports, 2017, 7, 4051.	3.3	13
53	Development of a new extraction method based on high-intensity ultra-sonication to study RNA regulation of the filamentous cyanobacteria Planktothrix. PLoS ONE, 2019, 14, e0222029.	2.5	12
54	Metazoan calcium carbonate biomineralizations: macroevolutionary trends â€“ challenges for the coming decade. Bulletin - Societie Geologique De France, 2014, 185, 217-232.	2.2	11

#	Article	IF	Citations
55	The Culture Collection of Cyanobacteria and Microalgae at the French National Museum of Natural History: A Century Old But Still Alive and Kicking! Including in Memoriam: Professor Alain CoutÃ©. Cryptogamie, Algologie, 2022, 43, .	0.9	11
56	Carbonic Anhydrase and Metazoan Biocalcification: A Focus on Molluscs. Key Engineering Materials, 0, 672, 151-157.	0.4	10
57	Disentangling of the ecotoxicological signal using â€œomicsâ€•analyses, a lesson from the survey of the impact of cyanobacterial proliferations on fishes. Science of the Total Environment, 2020, 736, 139701.	8.0	10
58	Fish metabolome from sub-urban lakes of the Paris area (France) and potential influence of noxious metabolites produced by cyanobacteria. Chemosphere, 2022, 296, 134035.	8.2	8
59	Synthesis of Calcium Carbonate Biological Materials: How Many Proteins are Needed?. Key Engineering Materials, 0, 614, 52-61.	0.4	7
60	Light stress in green and red Planktothrix strains: The orange carotenoid protein and its related photoprotective mechanism. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148037.	1.0	7
61	Unveiling the Evolution of Bivalve Nacre Proteins by Shell Proteomics of Unionoidae. Key Engineering Materials, 2016, 672, 158-167.	0.4	6
62	Dynamics of the Metabolome of Aliinostoc sp. PMC 882.14 in Response to Light and Temperature Variations. Metabolites, 2021, 11, 745.	2.9	6
63	Nacre Evolution : A Proteomic Approach. Materials Research Society Symposia Proceedings, 2009, 1187, 13.	0.1	5
64	Draft Genome Sequence of the Toxic Freshwater Microcystis aeruginosa Strain PMC 728.11 (Cyanobacteria, Chroococcales). Microbiology Resource Announcements, 2020, 9, .	0.6	5
65	Deciphering shell proteome within different Baltic populations of mytilid mussels illustrates important local variability and potential consequences in the context of changing marine conditions. Science of the Total Environment, 2020, 745, 140878.	8.0	4
66	Characterization of Crustacyanin-A2 Subunit as a Component of the Organic Matrix of Gastroliths from the Crayfish Cherax quadricarinatus. Materials Research Society Symposia Proceedings, 2009, 1187, 61.	0.1	3
67	Heavy Metals in Mollusc Shells: A Quick Method for their Detection. Key Engineering Materials, 0, 672, 340-345.	0.4	3
68	The success of the bloom-forming cyanobacteria Planktothrix: Genotypes variability supports variable responses to light and temperature stress. Harmful Algae, 2022, 117, 102285.	4.8	2
69	Analysis of low complex region peptides derived from mollusk shell matrix proteins using CID, highâ€energy collisional dissociation, and electron transfer dissociation on an LTQâ€orbitrap: Implications for peptide to spectrum match. Proteomics, 2012, 12, 3069-3075.	2.2	1
70	Neurotoxin stress-driven evolution in scallop genome. Toxicon, 2018, 150, 251-252.	1.6	0