

Pascal-Jean Lopez

List of Publications by Year in descending order

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54
papers

5,111
citations

201674

27
h-index

168389

53
g-index

57
all docs

57
docs citations

57
times ranked

5835
citing authors

#	ARTICLE	IF	CITATIONS
1	The <i>Phaeodactylum</i> genome reveals the evolutionary history of diatom genomes. <i>Nature</i> , 2008, 456, 239-244.	27.8	1,458
2	The <i>Ectocarpus</i> genome and the independent evolution of multicellularity in brown algae. <i>Nature</i> , 2010, 465, 617-621.	27.8	774
3	Whole-cell response of the pennate diatom <i>Phaeodactylum tricornutum</i> to iron starvation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 10438-10443.	7.1	414
4	Genome structure and metabolic features in the red seaweed <i>Chondrus crispus</i> shed light on evolution of the Archaeplastida. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5247-5252.	7.1	307
5	The C-terminal half of RNase E, which organizes the <i>Escherichia coli</i> degradosome, participates in mRNA degradation but not rRNA processing in vivo. <i>Molecular Microbiology</i> , 1999, 33, 188-199.	2.5	222
6	Prospects in diatom research. <i>Current Opinion in Biotechnology</i> , 2005, 16, 180-186.	6.6	154
7	Biogenic Silica Patterning: Simple Chemistry or Subtle Biology?. <i>ChemBioChem</i> , 2003, 4, 251-259.	2.6	150
8	Mimicking Biogenic Silica Nanostructures Formation. <i>Current Nanoscience</i> , 2005, 1, 73-83.	1.2	116
9	Diatoms: Self assembled silicananostructures, and templates for bio/chemical sensors and biomimetic membranes. <i>Analyst</i> , The, 2011, 136, 42-53.	3.5	114
10	A mutation in T7 RNA polymerase that facilitates promoter clearance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 5958-5963.	7.1	109
11	Genome-Wide Transcriptome Analyses of Silicon Metabolism in <i>Phaeodactylum tricornutum</i> Reveal the Multilevel Regulation of Silicic Acid Transporters. <i>PLoS ONE</i> , 2009, 4, e7458.	2.5	101
12	Digital expression profiling of novel diatom transcripts provides insight into their biological functions. <i>Genome Biology</i> , 2010, 11, R85.	9.6	97
13	New tools for labeling silica in living diatoms. <i>New Phytologist</i> , 2008, 177, 822-829.	7.3	75
14	Multiparametric Analyses Reveal the pH-Dependence of Silicon Biomineralization in Diatoms. <i>PLoS ONE</i> , 2012, 7, e46722.	2.5	68
15	Plasticity and robustness of pattern formation in the model diatom <i>Phaeodactylum tricornutum</i> . <i>New Phytologist</i> , 2009, 182, 429-442.	7.3	64
16	Genomic-scale quantitative analysis of yeast pre-mRNA splicing: Implications for splice-site recognition. <i>Rna</i> , 1999, 5, 1135-1137.	3.5	62
17	Unravelling the Mechanism of RNA-Polymerase Forward Motion by Using Mechanical Force. <i>Physical Review Letters</i> , 2005, 94, 128102.	7.8	60
18	Translation inhibitors stabilize <i>Escherichia coli</i> mRNAs independently of ribosome protection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 6067-6072.	7.1	56

#	ARTICLE	IF	CITATIONS
19	The use of a tRNA as a transcriptional reporter: the T7 late promoter is extremely efficient in <i>Escherichia coli</i> but its transcripts are poorly expressed. <i>Nucleic Acids Research</i> , 1994, 22, 1186-1193.	14.5	51
20	T7 RNA Polymerase Studied by Force Measurements Varying Cofactor Concentration. <i>Biophysical Journal</i> , 2008, 95, 2423-2433.	0.5	49
21	NTP concentration effects on initial transcription by T7 RNAP indicate that translocation occurs through passive sliding and reveal that divergent promoters have distinct NTP concentration requirements for productive initiation 1 Edited by R. Ebricht. <i>Journal of Molecular Biology</i> , 1998, 281, 777-792.	4.2	46
22	YIDB: the Yeast Intron DataBase. <i>Nucleic Acids Research</i> , 2000, 28, 85-86.	14.5	45
23	Sargassum contamination and consequences for downstream uses: a review. <i>Journal of Applied Phycology</i> , 2021, 33, 567-602.	2.8	38
24	Sol-gel encapsulation extends diatom viability and reveals their silica dissolution capability. <i>Chemical Communications</i> , 2006, , 4611-4613.	4.1	33
25	The low processivity of T7 RNA polymerase over the initially transcribed sequence can limit productive initiation in vivo. <i>Journal of Molecular Biology</i> , 1997, 269, 41-51.	4.2	30
26	Physiological adjustments and transcriptome reprogramming are involved in the acclimation to salinity gradients in diatoms. <i>Environmental Microbiology</i> , 2017, 19, 909-925.	3.8	29
27	On the mechanism of inhibition of phage T7 RNA polymerase by lac repressor 1 Edited by R. Ebricht. <i>Journal of Molecular Biology</i> , 1998, 276, 861-875.	4.2	28
28	Biomimetic dual templating of silica by polysaccharide/protein assemblies. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008, 65, 140-145.	5.0	28
29	Silicon – a Central Metabolite for Diatom Growth and Morphogenesis. <i>Progress in Molecular and Subcellular Biology</i> , 2003, 33, 99-124.	1.6	28
30	From biogenic to biomimetic silica. <i>Comptes Rendus - Palevol</i> , 2004, 3, 443-452.	0.2	25
31	First proteomic analyses of the dorsal and ventral parts of the <i>Sepia officinalis</i> cuttlebone. <i>Journal of Proteomics</i> , 2017, 150, 63-73.	2.4	25
32	Biomimetic Growth of Silica Tubes in Confined Media. <i>Langmuir</i> , 2006, 22, 9092-9095.	3.5	24
33	Adhesive gland transcriptomics uncovers a diversity of genes involved in glue formation in marine tube-building polychaetes. <i>Acta Biomaterialia</i> , 2018, 72, 316-328.	8.3	21
34	Influence of poly-L-lysine on the biomimetic growth of silica tubes in confined media. <i>Journal of Colloid and Interface Science</i> , 2007, 309, 44-48.	9.4	19
35	Uncoupling yeast intron recognition from transcription with recursive splicing. <i>EMBO Reports</i> , 2000, 1, 334-339.	4.5	18
36	The <i>Ectocarpus</i> Genome and Brown Algal Genomics. <i>Advances in Botanical Research</i> , 2012, 64, 141-184.	1.1	18

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37	Diatomics: Toward Diatom Functional Genomics. <i>Journal of Nanoscience and Nanotechnology</i> , 2005, 5, 5-14.	0.9	17
38	Optical Properties of Nanostructured Silica Structures From Marine Organisms. <i>Frontiers in Marine Science</i> , 2018, 5, .	2.5	15
39	Annual Phytoplankton Primary Production Estimation in a Temperate Estuary by Coupling PAM and Carbon Incorporation Methods. <i>Estuaries and Coasts</i> , 2018, 41, 1337-1355.	2.2	13
40	Sargassum Differentially Shapes the Microbiota Composition and Diversity at Coastal Tide Sites and Inland Storage Sites on Caribbean Islands. <i>Frontiers in Microbiology</i> , 2021, 12, 701155.	3.5	13
41	Eye Development in <i>Sepia officinalis</i> Embryo: What the Uncommon Gene Expression Profiles Tell Us about Eye Evolution. <i>Frontiers in Physiology</i> , 2017, 8, 613.	2.8	12
42	The lacZ mRNA can be stabilised by the T7 late mRNA leader in E coli. <i>Biochimie</i> , 1996, 78, 408-415.	2.6	11
43	Pelagic larval duration of two diadromous species of Kuhliidae (Teleostei: Percoidae) from Indo-Pacific insular systems. <i>Marine and Freshwater Research</i> , 2012, 63, 397.	1.3	11
44	Aquatic urban ecology at the scale of a capital: community structure and interactions in street gutters. <i>ISME Journal</i> , 2018, 12, 253-266.	9.8	11
45	Rheological studies of diatom encapsulation in silica gel. <i>Journal of Sol-Gel Science and Technology</i> , 2009, 50, 164-169.	2.4	10
46	Physical properties of epilithic river biofilm as a new lead to perform pollution bioassessments in overseas territories. <i>Scientific Reports</i> , 2020, 10, 17309.	3.3	4
47	Analysis of interdomain taxonomic patterns in urban street mats. <i>Environmental Microbiology</i> , 2020, 22, 1280-1293.	3.8	4
48	Three-dimensional structural evolution of the cuttlefish <i>Sepia officinalis</i> shell from embryo to adult stages. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190175.	3.4	3
49	Singular physiological behavior of the scleractinian coral <i>Porites astreoides</i> in the dark phase. <i>Coral Reefs</i> , 2021, 40, 139-150.	2.2	3
50	Kakila database: Towards a FAIR community approved database of cetacean presence in the waters of the Guadeloupe Archipelago, based on citizen science. <i>Biodiversity Data Journal</i> , 2021, 9, e69022.	0.8	3
51	Analysis of diatoms by holotomography. <i>Surfaces and Interfaces</i> , 2019, 17, 100358.	3.0	2
52	Pairing AIS data and underwater topography to assess maritime traffic pressures on cetaceans: Case study in the Guadeloupean waters of the Agoa sanctuary. <i>Marine Policy</i> , 2022, 143, 105160.	3.2	2
53	Diatoms in space: testing prospects for reliable diatom nanotechnology in microgravity. , 2007, , .		1
54	Biogenic Silica Patterning: Simple Chemistry or Subtle Biology?. <i>ChemInform</i> , 2003, 34, no.	0.0	0