Benoit Gallet

List of Publications by Year
in descending order

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36 papers	857 citations	516710 16 h-index	526287 27 g-index

42 all docs	42 docs citations	42 times ranked	1587 citing authors

#	Article	IF	Citations
1	Plastid thylakoid architecture optimizes photosynthesis in diatoms. Nature Communications, 2017, 8, 15885.	12.8	93
2	A systematic mutagenesis-driven strategy for site-resolved NMR studies of supramolecular assemblies. Journal of Biomolecular NMR, 2011, 50, 229-236.	2.8	70
3	Subcellular Chemical Imaging: New Avenues in Cell Biology. Trends in Cell Biology, 2020, 30, 173-188.	7.9	59
4	New adhesin functions of surface-exposed pneumococcal proteins. BMC Microbiology, 2010, 10, 190.	3.3	58
5	Morphological bases of phytoplankton energy management and physiological responses unveiled by 3D subcellular imaging. Nature Communications, 2021, 12, 1049.	12.8	51
6	Metal homeostasis disruption and mitochondrial dysfunction in hepatocytes exposed to sub-toxic doses of zinc oxide nanoparticles. Nanoscale, 2016, 8, 18495-18506.	5.6	48
7	Algal Remodeling in a Ubiquitous Planktonic Photosymbiosis. Current Biology, 2019, 29, 968-978.e4.	3.9	45
8	Biochemical Characterization of the Histidine Triad Protein PhtD as a Cell Surface Zinc-Binding Protein of Pneumococcus. Biochemistry, 2011, 50, 3551-3558.	2.5	43
9	Physicochemical alterations and toxicity of InP alloyed quantum dots aged in environmental conditions: A safer by design evaluation. NanoImpact, 2019, 14, 100168.	4.5	29
10	Pseudomonas aeruginosa Exolysin promotes bacterial growth in lungs, alveolar damage and bacterial dissemination. Scientific Reports, 2017, 7, 2120.	3.3	28
11	Cytoklepty in the plankton: A host strategy to optimize the bioenergetic machinery of endosymbiotic algae. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	27
12	Mixotrophic growth of the extremophile Galdieria sulphuraria reveals the flexibility of its carbon assimilation metabolism. New Phytologist, 2021, 231, 326-338.	7.3	24
13	Complex oligomeric structure of a truncated form of DdrA: A protein required for the extreme radiotolerance of Deinococcus. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2008, 1784, 1050-1058.	2.3	23
14	Influences of Nanoparticles Characteristics on the Cellular Responses: The Example of Iron Oxide and Macrophages. Nanomaterials, 2020, 10, 266.	4.1	23
15	Impact of a Model Soil Microorganism and of Its Secretome on the Fate of Silver Nanoparticles. Environmental Science & Technology, 2018, 52, 71-78.	10.0	21
16	Mechanism of Î²-Lactam Action in Streptococcus pneumoniae: the Piperacillin Paradox. Antimicrobial Agents and Chemotherapy, 2015, 59, 609-621.	3.2	19
17	Peptidoglycan Oâ€acetylation is functionally related to cell wall biosynthesis and cell division in Streptococcus pneumoniae. Molecular Microbiology, 2017, 106, 832-846.	2.5	18
18	Nuclear translocation of silver ions and hepatocyte nuclear receptor impairment upon exposure to silver nanoparticles. Environmental Science: Nano, 2020, 7, 1373-1387.	4.3	16

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19	Tail proteins of phage T5: Investigation of the effect of the His6-tag position, from expression to crystallisation. Protein Expression and Purification, 2015, 109, 70-78.	1.3	14
20	Subcellular architecture and metabolic connection in the planktonic photosymbiosis between Collodaria (radiolarians) and their microalgae. Environmental Microbiology, 2021, 23, 6569-6586.	3.8	14
21	Specific and spatial labeling of choline-containing teichoic acids in Streptococcus pneumoniae by click chemistry. Chemical Communications, 2017, 53, 10572-10575.	4.1	13
22	Automated high-throughput process for site-directed mutagenesis, production, purification, and kinetic characterization of enzymes. Analytical Biochemistry, 2006, 355, 110-116.	2.4	11
23	Porin self-association enables cell-to-cell contact in Providencia stuartii floating communities. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2220-E2228.	7.1	11
24	Imaging Plastids in 2D and 3D: Confocal and Electron Microscopy. Methods in Molecular Biology, 2018, 1829, 113-122.	0.9	11
25	Inflammasome activation by<scp>Pseudomonas aeruginosa'</scp>s<scp>ExlA</scp>poreâ€forming toxin is detrimental for the host. Cellular Microbiology, 2020, 22, e13251.	2.1	11
26	Evaluation of the Dermal Toxicity of InZnP Quantum Dots Before and After Accelerated Weathering: Toward a Safer-By-Design Strategy. Frontiers in Toxicology, 2021, 3, 636976.	3.1	10
27	Intracellular development and impact of a marine eukaryotic parasite on its zombified microalgal host. ISME Journal, 2022, 16, 2348-2359.	9.8	10
28	Large scale purification of linear plasmid DNA for efficient high throughput cloning. Biotechnology Journal, 2010, 5, 978-985.	3.5	8
29	The cell wall hydrolase Pmp23 is important for assembly and stability of the division ring in Streptococcus pneumoniae. Scientific Reports, 2018, 8, 7591.	3.3	8
30	Parallel screening and optimization of protein constructs for structural studies. Protein Science, 2009, 18, 434-439.	7.6	7
31	Canalicular domain structure and function in matrix-free hepatic spheroids. Biomaterials Science, 2020, 8, 485-496.	5.4	7
32	A biological nanofoam: The wall of coniferous bisaccate pollen. Science Advances, 2022, 8, eabd0892.	10.3	7
33	The Use of Adenovirus Dodecahedron in the Delivery of an Enzymatic Activity in the Cell. Biotechnology Research International, 2016, 2016, 1-11.	1.4	5
34	Correlative transmission electron microscopy and high-resolution hard X-ray fluorescence microscopy of cell sections to measure trace element concentrations at the organelle level. Journal of Structural Biology, 2021, 213, 107766.	2.8	5
35	Repeated Exposure of Macrophages to Synthetic Amorphous Silica Induces Adaptive Proteome Changes and a Moderate Cell Activation. Nanomaterials, 2022, 12, 1424.	4.1	3
36	Visualization of the Ionome in Planktonic Symbioses. Microscopy and Microanalysis, 2019, 25, 1074-1075.	0.4	0