

# Patrice Soumillion

## List of Publications by Year in descending order

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34  
papers

1,590  
citations

430442

18  
h-index

377514

34  
g-index

36  
all docs

36  
docs citations

36  
times ranked

2433  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular interaction and inhibition of SARS-CoV-2 binding to the ACE2 receptor. <i>Nature Communications</i> , 2020, 11, 4541.	5.8	485
2	Selection of $\hat{\Gamma}^2$ -Lactamase on Filamentous Bacteriophage by Catalytic Activity. <i>Journal of Molecular Biology</i> , 1994, 237, 415-422.	2.0	134
3	Multiparametric atomic force microscopy imaging of single bacteriophages extruding from living bacteria. <i>Nature Communications</i> , 2013, 4, 2926.	5.8	110
4	A tethered niacin-derived pincer complex with a nickel-carbon bond in lactate racemase. <i>Science</i> , 2015, 349, 66-69.	6.0	92
5	Lactate racemase is a nickel-dependent enzyme activated by a widespread maturation system. <i>Nature Communications</i> , 2014, 5, 3615.	5.8	91
6	Engineering a regulatable enzyme for homogeneous immunoassays. <i>Nature Biotechnology</i> , 1999, 17, 67-72.	9.4	77
7	New Generation of Amino Coumarin Methyl Sulfonate-Based Fluorogenic Substrates for Amidase Assays in Droplet-Based Microfluidic Applications. <i>Analytical Chemistry</i> , 2011, 83, 2852-2857.	3.2	77
8	Nickel-pincer cofactor biosynthesis involves LarB-catalyzed pyridinium carboxylation and LarE-dependent sacrificial sulfur insertion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5598-5603.	3.3	48
9	Glycan-mediated enhancement of reovirus receptor binding. <i>Nature Communications</i> , 2019, 10, 4460.	5.8	46
10	Enantioselective Transamination in Continuous Flow Mode with Transaminase Immobilized in a Macrocellular Silica Monolith. <i>Catalysts</i> , 2017, 7, 54.	1.6	42
11	Directed evolution for enzyme development in biocatalysis. <i>Current Opinion in Chemical Biology</i> , 2021, 61, 107-113.	2.8	39
12	$\hat{\Gamma}^2$ -Barrels covalently link peptidoglycan and the outer membrane in the $\hat{\Gamma}^{\pm}$ -proteobacterium <i>Brucella abortus</i> . <i>Nature Microbiology</i> , 2021, 6, 27-33.	5.9	34
13	Selection of Metalloenzymes by Catalytic Activity Using Phage Display and Catalytic Elution. <i>ChemBioChem</i> , 2001, 2, 253-259.	1.3	33
14	TEM-1 $\hat{\Gamma}^2$ -lactamase as a scaffold for protein recognition and assay. <i>Protein Science</i> , 2002, 11, 1506-1518.	3.1	31
15	Biosynthesis of the nickel-pincer nucleotide cofactor of lactate racemase requires a CTP-dependent cyclometallase. <i>Journal of Biological Chemistry</i> , 2018, 293, 12303-12317.	1.6	31
16	Intein-Mediated Cyclization of Randomized Peptides in the Periplasm of <i>Escherichia coli</i> and Their Extracellular Secretion. <i>ACS Chemical Biology</i> , 2010, 5, 691-700.	1.6	28
17	Active TEM-1 $\hat{\Gamma}^2$ -lactamase mutants with random peptides inserted in three contiguous surface loops. <i>Protein Science</i> , 2006, 15, 2323-2334.	3.1	21
18	A New Family of Cyanobacterial Penicillin-binding Proteins. <i>Journal of Biological Chemistry</i> , 2008, 283, 32516-32526.	1.6	21

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19	Unexpected complexity in the lactate racemization system of lactic acid bacteria. <i>FEMS Microbiology Reviews</i> , 2017, 41, S71-S83.	3.9	21
20	Selection of allosteric $\beta^2$ -lactamase mutants featuring an activity regulation by transition metal ions. <i>Protein Science</i> , 2006, 15, 2335-2343.	3.1	19
21	Structure of PBP-A from <i>Thermosynechococcus elongatus</i> , a Penicillin-Binding Protein Closely Related to Class A $\beta^2$ -Lactamases. <i>Journal of Molecular Biology</i> , 2009, 386, 109-120.	2.0	19
22	<i>Escherichia coli</i> d-Malate Dehydrogenase, a Generalist Enzyme Active in the Leucine Biosynthesis Pathway. <i>Journal of Biological Chemistry</i> , 2014, 289, 29086-29096.	1.6	18
23	Uncovering a superfamily of nickel-dependent hydroxyacid racemases and epimerases. <i>Scientific Reports</i> , 2020, 10, 18123.	1.6	14
24	QuickLib, a method for building fully synthetic plasmid libraries by seamless cloning of degenerate oligonucleotides. <i>PLoS ONE</i> , 2017, 12, e0175146.	1.1	10
25	Activity-Dependent Translation (AFT) Assay: A New High-Throughput Screening Strategy for Enzymes in Droplets. <i>ChemBioChem</i> , 2015, 16, 1343-1349.	1.3	9
26	Molecular dissection of pheromone selectivity in the competence signaling system ComRS of streptococci. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 7745-7754.	3.3	8
27	Methyl arachidonyl fluorophosphonate inhibits <i>Mycobacterium tuberculosis</i> thioesterase TesA and globally affects vancomycin susceptibility. <i>FEBS Letters</i> , 2020, 594, 79-93.	1.3	7
28	Building Scarless Gene Libraries in the Chromosome of Bacteria. <i>Springer Protocols</i> , 2020, , 189-211.	0.1	6
29	Engineering an Allosteric Binding Site for Aminoglycosides into TEM $\beta^2$ -Lactamase. <i>ChemBioChem</i> , 2011, 12, 904-913.	1.3	3
30	Insight into the Self-Assembling Properties of Peptergents: A Molecular Dynamics Simulation Study. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2772.	1.8	3
31	Promiscuous activity of $\beta$ -isopropylmalate dehydrogenase produced at physiological level affords <i>Escherichia coli</i> growth on d-malate. <i>FEBS Letters</i> , 2020, 594, 2421-2430.	1.3	3
32	Competence shut-off by intracellular pheromone degradation in salivarius streptococci. <i>PLoS Genetics</i> , 2022, 18, e1010198.	1.5	3
33	Coevolution of the bacterial pheromone ComS and sensor ComR fine-tunes natural transformation in streptococci. <i>Journal of Biological Chemistry</i> , 2021, 297, 101346.	1.6	2
34	Phage Display Methodologies. <i>Springer Protocols</i> , 2020, , 125-151.	0.1	0