

Frédéric Dardel

List of Publications by Year in descending order

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66
papers

2,450
citations

136950

32
h-index

206112

48
g-index

68
all docs

68
docs citations

68
times ranked

1885
citing authors

#	ARTICLE	IF	CITATIONS
1	Recombinant RNA technology: the tRNA scaffold. <i>Nature Methods</i> , 2007, 4, 571-576.	19.0	200
2	Three-dimensional Structure of the Lipoyl domain from <i>Bacillus stearothermophilus</i> Pyruvate Dehydrogenase Multienzyme Complex. <i>Journal of Molecular Biology</i> , 1993, 229, 1037-1048.	4.2	138
3	A New Subclass of the Zinc Metalloproteases Superfamily Revealed by the Solution Structure of Peptide Deformylase. <i>Journal of Molecular Biology</i> , 1996, 262, 375-386.	4.2	111
4	A generic protocol for the expression and purification of recombinant RNA in <i>Escherichia coli</i> using a tRNA scaffold. <i>Nature Protocols</i> , 2009, 4, 947-959.	12.0	99
5	Solution structure of nickel-peptide deformylase 1 Edited by A. R. Fersht. <i>Journal of Molecular Biology</i> , 1998, 280, 501-513.	4.2	89
6	Lysine 335, part of the KMSKS signature sequence, plays a crucial role in the amino acid activation catalysed by the methionyl-tRNA synthetase from <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 1991, 217, 465-475.	4.2	71
7	Solution Structure of the Ribosome-binding Domain of <i>E. coli</i> Translation Initiation Factor IF3. Homology with the U1A Protein of the Eukaryotic Spliceosome. <i>Journal of Molecular Biology</i> , 1995, 254, 247-259.	4.2	71
8	Heteronuclear NMR studies of the interaction of tRNA ³ Lys with HIV-1 nucleocapsid protein1 Edited by M. F. Summers. <i>Journal of Molecular Biology</i> , 2001, 306, 443-454.	4.2	67
9	Enzyme structural plasticity and the emergence of broad-spectrum antibiotic resistance. <i>EMBO Reports</i> , 2008, 9, 344-349.	4.5	63
10	Discovery and Refinement of a New Structural Class of Potent Peptide Deformylase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 10-20.	6.4	60
11	Genetic engineering of methionyl-tRNA synthetase: in vitro regeneration of an active synthetase by proteolytic cleavage of a methionyl-tRNA synthetase- β -galactosidase chimeric protein. <i>Biochimie</i> , 1988, 70, 773-782.	2.6	59
12	The Annealing Mechanism of HIV-1 Reverse Transcription Primer onto the Viral Genome. <i>Journal of Biological Chemistry</i> , 2004, 279, 3588-3595.	3.4	59
13	NMR and biochemical characterization of recombinant human tRNA ³ Lys expressed in <i>Escherichia coli</i> : Identification of posttranscriptional nucleotide modifications required for efficient initiation of HIV-1 reverse transcription. <i>Rna</i> , 2000, 6, 1403-1412.	3.5	57
14	Solution Structure of the Anticodon-binding Domain of <i>Escherichia coli</i> Lysyl-tRNA Synthetase and Studies of its Interaction with tRNA ^{Lys} . <i>Journal of Molecular Biology</i> , 1995, 253, 100-113.	4.2	50
15	Crystal Structure of <i>Thermus thermophilus</i> tRNA ^{m1A58} Methyltransferase and Biophysical Characterization of Its Interaction with tRNA. <i>Journal of Molecular Biology</i> , 2008, 377, 535-550.	4.2	49
16	Co-expression of RNA-protein complexes in <i>Escherichia coli</i> and applications to RNA biology. <i>Nucleic Acids Research</i> , 2013, 41, e150-e150.	14.5	47
17	Heteronuclear NMR studies of <i>E. coli</i> translation initiation factor IF3. evidence that the inter-domain region is disordered in solution 1 Edited by K. Nagai. <i>Journal of Molecular Biology</i> , 1997, 266, 15-22.	4.2	46
18	A unique conformation of the anticodon stem-loop is associated with the capacity of tRNA ^{fMet} to initiate protein synthesis. <i>Nucleic Acids Research</i> , 2008, 36, 4894-4901.	14.5	45

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19	Large scale expression and purification of recombinant RNA in Escherichia coli. <i>Methods</i> , 2011, 54, 267-273.	3.8	45
20	Expression in Escherichia coli of a sub-gene encoding the lipoyl domain of the pyruvate dehydrogenase complex of Bacillus stearothermophilus. <i>FEBS Letters</i> , 1990, 264, 206-210.	2.8	44
21	Methionyl-tRNA Synthetase Zinc Binding Domain. <i>Journal of Molecular Biology</i> , 1993, 231, 1078-1089.	4.2	44
22	Translational feedback regulation of the gene for L35 in Escherichia coli requires binding of ribosomal protein L20 to two sites in its leader mRNA: A possible case of ribosomal RNA-messenger RNA molecular mimicry. <i>Rna</i> , 2002, 8, 878-889.	3.5	43
23	The C-terminal domain of peptide deformylase is disordered and dispensable for activity. <i>FEBS Letters</i> , 1996, 385, 91-95.	2.8	42
24	New peptide deformylase inhibitors and cooperative interaction: a combination to improve antibacterial activity. <i>Journal of Antimicrobial Chemotherapy</i> , 2012, 67, 1392-1400.	3.0	42
25	Transcription and regulation of expression of the Escherichia coli methionyl-tRNA synthetase gene. <i>Molecular Genetics and Genomics</i> , 1990, 223, 121-133.	2.4	41
26	Structure-Activity Relationship Analysis of the Peptide Deformylase Inhibitor 5-Bromo-1-indole-3-acetohydroxamic Acid. <i>ChemMedChem</i> , 2009, 4, 261-275.	3.2	41
27	Ribosome hijacking: a role for small protein B during translation. <i>EMBO Reports</i> , 2009, 10, 160-165.	4.5	40
28	New insights into the formation of HIV-1 reverse transcription initiation complex. <i>Biochimie</i> , 2007, 89, 1204-1210.	2.6	37
29	NMR-Guided Fragment-Based Approach for the Design of tRNA ^{Lys3} Ligands. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4489-4491.	13.8	37
30	Investigation of RNA-Ligand Interactions by ¹⁹ F-NMR Spectroscopy Using Fluorinated Probes. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9530-9534.	13.8	37
31	¹ H and ¹⁵ N Resonance Assignments and Structure of the N-Terminal Domain of Escherichia coli Initiation Factor 3. <i>FEBS Journal</i> , 1995, 228, 395-402.	0.2	36
32	Heteronuclear NMR studies of the interactions of ¹⁵ N-labeled methionine-specific transfer RNAs with methionyl-tRNA transformylase. <i>Biochemistry</i> , 1995, 34, 7668-7677.	2.5	35
33	The Crystal Structure of Mitochondrial (Type 1A) Peptide Deformylase Provides Clear Guidelines for the Design of Inhibitors Specific for the Bacterial Forms*. <i>Journal of Biological Chemistry</i> , 2005, 280, 42315-42324.	3.4	35
34	Double molecular mimicry in Escherichia coli: binding of ribosomal protein L20 to its two sites in mRNA is similar to its binding to 23S rRNA. <i>Molecular Microbiology</i> , 2005, 56, 1441-1456.	2.5	33
35	Sequence-specific ¹ H-NMR assignments and secondary structure of the lipoyl domain of the Bacillus stearothermophilus pyruvate dehydrogenase multienzyme complex.. <i>FEBS Journal</i> , 1991, 201, 203-209.	0.2	32
36	NMR structure of the Aquifex aeolicus tmRNA pseudoknot PK1: new insights into the recoding event of the ribosomal trans-translation. <i>Nucleic Acids Research</i> , 2006, 34, 1847-1853.	14.5	32

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37	The interdomain linker of Escherichia coli initiation factor IF3: a possible trigger of translation initiation specificity. <i>Molecular Microbiology</i> , 1999, 32, 193-202.	2.5	31
38	Trapping Conformational States Along Ligand-Binding Dynamics of Peptide Deformylase: The Impact of Induced Fit on Enzyme Catalysis. <i>PLoS Biology</i> , 2011, 9, e1001066.	5.6	30
39	Specific recognition of primer tRNA ^{Lys3} by HIV-1 nucleocapsid protein: involvement of the zinc fingers and the N-terminal basic extension. <i>Biochimie</i> , 2003, 85, 557-561.	2.6	29
40	NMR-Guided Fragment-Based Approach for the Design of AAC(6 ²) Ligands. <i>ChemBioChem</i> , 2008, 9, 1368-1371.	2.6	28
41	RNA-methyltransferase TrmA is a dual-specific enzyme responsible for C ⁵ -methylation of uridine in both tmRNA and tRNA. <i>RNA Biology</i> , 2013, 10, 572-578.	3.1	27
42	NMR Structure of Bacterial Ribosomal Protein L20: Implications for Ribosome Assembly and Translational Control. <i>Journal of Molecular Biology</i> , 2002, 323, 143-151.	4.2	24
43	Base-type-selective high-resolution 13C edited NOESY for sequential assignment of large RNAs. <i>Journal of Biomolecular NMR</i> , 2001, 19, 141-151.	2.8	21
44	Design of tRNA ^{Lys} ₃ Ligands: Fragment Evolution and Linker Selection Guided by NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2009, 15, 7109-7116.	3.3	20
45	The tRNA-like Domains of E.coli and A.aeolicus Transfer "Messenger RNA: Structural and Functional Studies. <i>Journal of Molecular Biology</i> , 2003, 331, 457-471.	4.2	18
46	The N-terminal extension of Escherichia coli ribosomal protein L20 is important for ribosome assembly, but dispensable for translational feedback control. <i>Rna</i> , 2005, 11, 728-738.	3.5	18
47	1H and 15N Resonance Assignments and Structure of the N-Terminal Domain of Escherichia coli Initiation Factor 3. <i>FEBS Journal</i> , 1995, 228, 395-402.	0.2	13
48	Optimisation of a Peptide Library for Screening Specific RNA Ligands by Flow-Injection NMR. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2002, 5, 523-529.	1.1	13
49	DNAid: a Macintosh full screen editor featuring a built-in regular expression interpreter for the search of specific patterns in biological sequences using finite state automata. <i>Bioinformatics</i> , 1988, 4, 483-486.	4.1	12
50	NMR-based identification of peptides that specifically recognize the d-arm of tRNA. <i>Biochimie</i> , 2005, 87, 885-888.	2.6	11
51	How Bacterial Ribosomal Protein L20 Assembles with 23 S Ribosomal RNA and Its Own Messenger RNA. <i>Journal of Biological Chemistry</i> , 2003, 278, 36522-36530.	3.4	10
52	Solution NMR structure of the SH3 domain of human nephrocystin and analysis of a mutation-causing juvenile nephronophthisis. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 59, 347-355.	2.6	10
53	Computer simulation of DNA ligation: determination of initial DNA concentrations favouring the formation of recombinant molecules. <i>Nucleic Acids Research</i> , 1988, 16, 1767-1778.	14.5	9
54	Self-organisation of an oligodeoxynucleotide containing the G- and C-rich stretches of the direct repeats of the human mitochondrial DNA. <i>Biochimie</i> , 2005, 87, 725-735.	2.6	7

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55	Optimizing HSQC experiment for the observation of exchange broadened signals in RNA-protein complexes. <i>Comptes Rendus Chimie</i> , 2008, 11, 474-479.	0.5	7
56	¹ H, ¹³ C and ¹⁵ N NMR assignments of the E. coli peptide deformylase in complex with a natural inhibitor called actinonin. <i>Biomolecular NMR Assignments</i> , 2009, 3, 153-155.	0.8	6
57	NMR identification of ligands of aminoglycoside resistance enzymes. <i>Comptes Rendus Chimie</i> , 2006, 9, 413-419.	0.5	4
58	Selective RNase H Cleavage of Target RNAs from a tRNA Scaffold. <i>Methods in Molecular Biology</i> , 2013, 941, 9-18.	0.9	4
59	In vivo tmRNA protection by SmpB and pre-ribosome binding conformation in solution. <i>Rna</i> , 2014, 20, 1607-1620.	3.5	4
60	Coexpression and Copurification of RNA-Protein Complexes in Escherichia coli. <i>Methods in Molecular Biology</i> , 2021, 2323, 67-73.	0.9	2
61	Microfile. <i>Trends in Biochemical Sciences</i> , 1986, 11, 95-96.	7.5	1
62	Expression and purification of threonyl tRNA synthetase RNA binding domain for heteronuclear NMR studies. <i>Comptes Rendus De L'Academie Des Sciences - Series IIc: Chemistry</i> , 2001, 4, 725-728.	0.1	0
63	Transfer RNA modifications and DNA editing in HIV-1 reverse transcription. <i>Topics in Current Genetics</i> , 2005, , 401-429.	0.7	0
64	Purification of RNA Expressed In Vivo Inserted in a tRNA Scaffold. <i>Methods in Molecular Biology</i> , 2013, 941, 1-8.	0.9	0
65	Structure and Post-Translational Modification of the Lipoyl Domain of 2-Oxo Acid Dehydrogenase Complexes: A New Family of Protein Domains. , 1993, , 283-288.		0
66	Expression and Purification of RNA-Protein Complexes in Escherichia coli. <i>Methods in Molecular Biology</i> , 2015, 1316, 25-31.	0.9	0