Anna Niedzwiecka

List of Publications by Year
in descending order

43 papers	2,045 citations	471509 17 h-index	302126 39 g-index
47 all docs	47 docs citations	47 times ranked	2222 citing authors

#	Article	IF	Citations
1	Hierarchical phosphorylation of the translation inhibitor 4E-BP1. Genes and Development, 2001, 15, 2852-2864.	5.9	703
2	Biophysical Studies of eIF4E Cap-binding Protein: Recognition of mRNA 5â€² Cap Structure and Synthetic Fragments of eIF4G and 4E-BP1 Proteins. Journal of Molecular Biology, 2002, 319, 615-635.	4.2	353
3	Novel "anti-reverse" cap analogs with superior translational properties. Rna, 2003, 9, 1108-1122.	3.5	214
4	Phosphorylation of eIF4E attenuates its interaction with mRNA 5' cap analogs by electrostatic repulsion: Intein-mediated protein ligation strategy to obtain phosphorylated protein. Rna, 2003, 9, 52-61.	3.5	124
5	Positive Heat Capacity Change upon Specific Binding of Translation Initiation Factor eIF4E to mRNA 5â€˜ Cap. Biochemistry, 2002, 41, 12140-12148.	2.5	62
6	Specificity of recognition of mRNA 5' cap by human nuclear cap-binding complex. Rna, 2005, 11, 1355-1363.	3.5	59
7	Structural Basis of m7GpppG Binding to Poly(A)-Specific Ribonuclease. Structure, 2009, 17, 276-286.	3.3	55
8	Stopped-flow and Brownian dynamics studies of electrostatic effects in the kinetics of binding of 7-methyl-GpppG to the protein eIF4E. European Biophysics Journal, 2000, 29, 487-498.	2.2	42
9	Thermodynamics of mRNA 5â€˜ Cap Binding by Eukaryotic Translation Initiation Factor eIF4Eâ€. Biochemistry, 2004, 43, 13305-13317.	2.5	41
10	Modified ARCA analogs providing enhanced translational properties of capped mRNAs. Cell Cycle, 2018, 17, 1624-1636.	2.6	39
11	Structural basis for nematode eIF4E binding an m 2,2,7 G-Cap and its implications for translation initiation. Nucleic Acids Research, 2011, 39, 8820-8832.	14.5	38
12	Biophysical Approach to Studies of Capâ€“eIF4E Interaction by Synthetic Cap Analogs. Methods in Enzymology, 2007, 430, 209-245.	1.0	33
13	Structural Insights into Parasite eIF4E Binding Specificity for m7G and m2,2,7G mRNA Caps. Journal of Biological Chemistry, 2009, 284, 31336-31349.	3.4	30
14	A Multifunctional RNA Recognition Motif in Poly(A)-specific Ribonuclease with Cap and Poly(A) Binding Properties. Journal of Biological Chemistry, 2007, 282, 32902-32911.	3.4	29
15	Structural Changes of eIF4E upon Binding to the mRNA 5â€² Monomethylguanosine and Trimethylguanosine Cap. Biochemistry, 2008, 47, 2710-2720.	2.5	28
16	Diverse Role of Three Tyrosines in Binding of the RNA 5â€² Cap to the Human Nuclear Cap Binding Complex. Journal of Molecular Biology, 2009, 385, 618-627.	4.2	19
17	Fluorescence Studies on Association of Human Translation Initiation Factor eIF4E with mRNA cap-Analogues. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1999, 54, 278-284.	1.4	18
18	Eukaryotic translation initiation is controlled by cooperativity effects within ternary complexes of 4Eâ€BP1, eIF4E, and the mRNA 5â€² cap. FEBS Letters, 2013, 587, 3928-3934.	2.8	17

#	Article	IF	Citations
19	Global architecture of human poly(A)-specific ribonuclease by atomic force microscopy in liquid and dynamic light scattering. Biophysical Chemistry, 2011, 158, 141-149.	2.8	15
20	Nanoecotoxicology study of the response of magnetic O-Carboxymethylchitosan loaded silver nanoparticles on Artemia salina. Environmental Toxicology and Pharmacology, 2020, 74, 103298.	4.0	14
21	Towards novel efficient and stable nuclear import signals: synthesis and properties of trimethylguanosine cap analogs modified within the 5â€²,5â€²-triphosphate bridge. Organic and Biomolecular Chemistry, 2014, 12, 9184-9199.	2.8	11
22	Structural Dynamics of the GW182 Silencing Domain Including its RNA Recognition motif (RRM) Revealed by Hydrogen-Deuterium Exchange Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2018, 29, 158-173.	2.8	11
23	DiffusionÂcoefficientsÂofÂelasticÂmacromolecules. Journal of Fluid Mechanics, 2019, 878, .	3.4	11
24	Interaction Between Yeast Eukaryotic Initiation Factor eIF4E and mRNA 5â€² Cap Analogues Differs from That for Murine eIF4E. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 1711-1714.	1.1	9
25	The novel product of cathodic reduction of phthalimide anion. Tetrahedron, 1998, 54, 7517-7524.	1.9	8
26	Tautomerism, acid-base properties and conformation of methylated analogues of the promutagenic N4-hydroxycytosine. Biophysical Chemistry, 1998, 71, 87-98.	2.8	8
27	Thermodynamics of Molecular Recognition of mRNA 5â€² Cap by Yeast Eukaryotic Initiation Factor 4E. Journal of Physical Chemistry B, 2011, 115, 8746-8754.	2.6	8
28	How to find the optimal partnerâ€"studies of snurportin 1 interactions with U snRNA 5â€² TMG-cap analogues containing modified 2-amino group of 7-methylguanosine. Bioorganic and Medicinal Chemistry, 2015, 23, 4660-4668.	3.0	8
29	Thermodynamics and conformational changes related to binding of eIF4E protein to mRNA 5â€² cap. Journal of Physics Condensed Matter, 2005, 17, S1483-S1494.	1.8	6
30	Spectroscopic studies on association of mRNA cap-analogues with human translation factor eIF4E. From modelling of interactions to inhibitory properties. , 1999, , .		5
31	Influence of the Length of the Phosphate Chain in mRNA 5â€² Cap Analogues on Their Interaction with Eukaryotic Initiation Factor 4E. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 1707-1710.	1.1	4
32	DEAGGREGATION OF eIF4E INDUCED BY mRNA 5â€² CAP BINDING. Nucleosides, Nucleotides and Nucleic Acids, 2005, 24, 507-511.	1.1	4
33	Molecular recognition of mRNA 5â€² cap by 3â€² poly(A)-specific ribonuclease (PARN) differs from interactions known for other cap-binding proteins. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 331-345.	2.3	4
34	Thermodynamics of 7-Methylguanosine Cation Stacking with Tryptophan upon mRNA 5â€² Cap Binding to Translation Factor eIF4E. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 1557-1561.	1.1	3
35	Synthesis and NMR spectral properties of spin-labelled mRNA 5â€² cap analogue: a new tool for biochemical studies of cap binding proteins. Journal of Physics Condensed Matter, 2007, 19, 285202.	1.8	3
36	Synthesis and Conformation of Nucleoside 5'-S-Thiosulfates. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 1998, 53, 1191-1196.	0.7	2

#	Article	IF	Citations
37	Studies on Association of mRNA Cap-analogues with a synthetic DodecapeptideDGIEPMWEDEKN. Nucleosides & Nucleotides, 1999, 18, 1105-1106.	0.5	2
38	Binding Studies of Eukaryotic Initiation Factor eIF4E with Novel mRNA Dinucleotide Cap Analogues. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 1703-1706.	1.1	2
39	NOVEL WAY OF CAPPING mRNA TRIMER AND STUDIES OF ITS INTERACTION WITH HUMAN NUCLEAR CAP-BINDING COMPLEX. Nucleosides, Nucleotides and Nucleic Acids, 2005, 24, 1131-1134.	1.1	2
40	Anodic Methoxylation of Isatin. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 1998, 53, 620-624.	0.7	1
41	Significance of the first transcribed nucleoside of capped RNA for ligand-induced folding of the cap-binding complex. Journal of Physics Condensed Matter, 2005, 17, S1495-S1502.	1.8	0
42	Synthesis, physico-chemical and biochemical properties of the novel tri-, tetra- and pentaphosphate mRNA cap analogues. , 2002, , .		0
43	Evaluation of biological activity of trimethylguanosine cap analogs modified within the 5â€™,5â€™-triphosphate bridge. , 2014, , .		0