Edward N Timofeev

List of Publications by Year
in descending order

52	987	567144 15	454834 30
papers	citations	h-index	g-index

62	62	62	838
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Immobilization of DNA in Polyacrylamide Gel for the Manufacture of DNA and DNAâ€“Oligonucleotide Microchips. Analytical Biochemistry, 1998, 259, 34-41.	1.1	173
2	Regioselective immobilization of short oligonucleotides to acrylic copolymer gels. Nucleic Acids Research, 1996, 24, 3142-3148.	6.5	91
3	DNA sequencing by hybridization to microchip octa-and decanucleotides extended by stacked pentanucleotides. Nucleic Acids Research, 1996, 24, 2998-3004.	6.5	87
4	Fabrication of Microarray of Gel-Immobilized Compounds on a Chip by Copolymerization. BioTechniques, 1999, 27, 592-606.	0.8	82
5	The Toolbox for Modified Aptamers. Molecular Biotechnology, 2016, 58, 79-92.	1.3	68
6	Synthesis, characterization and inÂvitro activity of thrombin-binding DNA aptamers with triazole internucleotide linkages. European Journal of Medicinal Chemistry, 2013, 67, 90-97.	2.6	47
7	The R-form of DNA does exist. FEBS Letters, 1994, 339, 113-118.	1.3	32
8	Near-infrared heptamethine cyanine dyes. Synthesis, spectroscopic characterization, thermal properties and photostability. Dyes and Pigments, 2013, 97, 353-360.	2.0	31
9	DNA sequence analysis by hybridization with oligonucleotide microchips: MALDI mass spectrometry identification of 5mers contiguously stacked to microchip oligonucleotides. Nucleic Acids Research, 2000, 28, 1193-1198.	6.5	29
10	Comparison of the â€˜Chemicalâ€™ and â€˜Structuralâ€™ Approaches to the Optimization of the Thrombin-Binding Aptamer. PLoS ONE, 2014, 9, e89383.	1.1	29
11	Protein-free parallel triple-stranded DNA complex formation. Nucleic Acids Research, 2001, 29, 986-995.	6.5	28
12	A Universal Base in a Specific Role: Tuning up a Thrombin Aptamer with 5-Nitroindole. Scientific Reports, 2015, 5, .	1.6	22
13	Binding specificity and stability of duplexes formed by modified oligonucleotides with a 4096-hexanucleotide microarray. Nucleic Acids Research, 2001, 29, 2626-2634.	6.5	20
14	Targeting duplex DNA with chimeric Î±,Î²-triplex-forming oligonucleotides. Nucleic Acids Research, 2012, 40, 8175-8185.	6.5	20
15	Evidence for the tetraplex structure of the d(GT)nrepetitive sequences in solution. FEBS Letters, 1992, 306, 140-142.	1.3	16
16	Advanced method for oligonucleotide deprotection. Nucleic Acids Research, 2000, 28, 29e-0.	6.5	15
17	Expanding the recognition interface of the thrombin-binding aptamer HD1 through modification of residues T3 and T12. Molecular Therapy - Nucleic Acids, 2021, 23, 863-871.	2.3	15
18	Parallel purine-pyrimidine-purine triplex: experimental evidence for existence. FEBS Letters, 1995, 367, 81-84.	1.3	14

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19	Anomeric DNA quadruplexes. Artificial DNA, PNA & XNA, 2014, 5, e28422.	1.4	13
20	Simple and Stereoselective Preparation of an 4â€(Aminomethyl)â€1,2,3â€triazolyl Nucleoside Phosphoramidite. Chemistry and Biodiversity, 2011, 8, 568-576.	1.0	11
21	Structural and functional analysis of biopolymers and their complexes: Enzymatic synthesis of high-modified DNA. Molecular Biology, 2017, 51, 474-482.	0.4	11
22	Preparation of Modified Combinatorial DNA Libraries via Emulsion PCR with Subsequent Strand Separation. Molecular Biology, 2018, 52, 854-864.	0.4	11
23	Oligodeoxynucleotides Containing 2â€²-Deoxy-1-methyladenosine andDimroth Rearrangement. Helvetica Chimica Acta, 2007, 90, 928-937.	1.0	9
24	Stabilization of Parallel (Recombinant) Triplex With Propidium Iodide. Journal of Biomolecular Structure and Dynamics, 1995, 13, 15-27.	2.0	7
25	Oligodeoxynucleotides with extended zwitter-ionic internucleotide linkage. Tetrahedron, 2001, 57, 10287-10292.	1.0	7
26	Methidium intercalator inserted into synthetic oligonucleotides. Tetrahedron Letters, 1996, 37, 8467-8470.	0.7	6
27	Partial Thermodynamic Parameters for Prediction Stability and Washing Behavior of DNA Duplexes Immobilized on Gel Matrix. Journal of Biomolecular Structure and Dynamics, 1996, 14, 239-244.	2.0	6
28	Conformational Changes Induced in the Human Protein Translin and in the Single-stranded Oligodeoxynucleotides d(GT)₁₂and d(TTAGGG)₅Upon Binding of These Oligodeoxynucleotides by Translin. Journal of Biomolecular Structure and Dynamics, 2005, 23, 257-265.	2.0	6
29	Structural Polymorphism of Oligo(dC) with Mixed Î±,Î²-Anomeric Backbone. Journal of Biomolecular Structure and Dynamics, 2000, 17, 655-664.	2.0	5
30	Oligonucleotide Analogs with Peptide Internucleotide Linkages. Nucleosides, Nucleotides and Nucleic Acids, 2011, 30, 31-48.	0.4	5
31	Mass-spectrometry analysis of modifications at DNA termini induced by DNA polymerases. Scientific Reports, 2017, 7, 6674.	1.6	5
32	Recognition of Base Pair Inversions in Duplex by Chimeric (Î±,Î²) Triplex-Forming Oligonucleotides. Journal of Biomolecular Structure and Dynamics, 2006, 24, 183-188.	2.0	4
33	New Indocyanine Derivatives for the Synthesis of Fluorescently Labeled Oligonucleotides. Letters in Organic Chemistry, 2009, 6, 71-76.	0.2	4
34	Probing the Nitroindole-Modified Central Loop of Thrombin Aptamer HD1 as a Recognition Site. Nucleic Acid Therapeutics, 2019, 29, 208-217.	2.0	4
35	Derivatization of a rigid meso-substituted heptamethine cyanine dye. Mendeleev Communications, 2021, 31, 70-72.	0.6	4
36	Mononucleotide repeat expansions with non-natural polymerase substrates. Scientific Reports, 2021, 11, 2423.	1.6	4

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37	Three-Stranded Clip of the Oligonucleotide 5â€²-(dT)10pO(CH2CH2O)3p(dT)10pO(CH2CH2O)3p(dA)10-3â€². Antisense Research and Development, 1994, 4, 27-33.	3.3	3
38	Novel 5-Alkylcarboxamide-2'-Deoxyuridine-5'-Triphosphates for Enzymatic Synthesis of Highly Modified DNA. Russian Journal of Bioorganic Chemistry, 2019, 45, 221-223.	0.3	3
39	Recognition Interface of the Thrombin Binding Aptamer Requires Antiparallel Topology of the Quadruplex Core. Biomolecules, 2021, 11, 1332.	1.8	3
40	Anticoagulant Oligonucleotideâ€“Peptide Conjugates: Identification of Thrombin Aptamer Conjugates with Improved Characteristics. International Journal of Molecular Sciences, 2022, 23, 3820.	1.8	3
41	Title is missing!. Molecular Biology, 2002, 36, 124-130.	0.4	2
42	Bridge DNA amplification of cancer-associated genes on cross-linked agarose microbeads. Mikrochimica Acta, 2015, 182, 557-563.	2.5	2
43	Slippage of the Primer Strand in the Primer Extension Reaction with Modified 2'-Deoxyuridine Triphosphates. Russian Journal of Bioorganic Chemistry, 2020, 46, 312-314.	0.3	2
44	Binding of Nonnatural Â,Â-Oligocytidylates with DNA Duplexes. Molecular Biology, 2004, 38, 459-464.	0.4	1
45	Oligodeoxynucleotides Containing N¹â€Methylâ€²â€²Deoxyadenosine and N⁶â€Methylâ€²â€²Deoxyadenosine. Current Protocols in Nucleic Acid Chemistry, 2009, 38, Unit 4.36 1-19.	0.5	1
46	Hydrogel microarray for detection of polymorphisms in the UGT1A1, DPYD, GSTP1 and ABCB1 genes. Cancer Biomarkers, 2017, 18, 265-272.	0.8	1
47	Factors Affecting the Tailing of Blunt End DNA with Fluorescent Pyrimidine dNTPs. Molecular Biotechnology, 2018, 60, 879-886.	1.3	1
48	Fluorescent Labeling of Oligonucleotide Probes for Double Indicator Microarray Hybridization Analysis. Russian Journal of Bioorganic Chemistry, 2019, 45, 217-220.	0.3	1
49	Folding topology, structural polymorphism, and dimerization of intramolecular DNA G-quadruplexes with inverted polarity strands and non-natural loops. International Journal of Biological Macromolecules, 2020, 162, 1972-1981.	3.6	1
50	Intercalating Insert into Internucleotide Linkages as Way for Stabilization and Detection of of Short DNA Duplexes. Nucleosides & Nucleotides, 1999, 18, 1495-1496.	0.5	0
51	Amino-Functionalized Oligonucleotides with Peptide Internucleotide Linkages. Letters in Organic Chemistry, 2012, 9, 106-113.	0.2	0
52	Emulsion PCR Amplification of DNA Libraries with Degenerate Central Regions for Aptamer Selection. Russian Journal of Bioorganic Chemistry, 2020, 46, 264-268.	0.3	0