

# Dmitry A Stetsenko

## List of Publications by Year in descending order

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90  
papers

1,769  
citations

257357

24  
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315616

38  
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102  
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102  
docs citations

102  
times ranked

1419  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of Peptide <sup>+</sup> Oligonucleotide Conjugates with Single and Multiple Peptides Attached to 2'-Aldehydes through Thiazolidine, Oxime, and Hydrazine Linkages. <i>Bioconjugate Chemistry</i> , 2002, 13, 822-830.	1.8	117
2	Efficient Conjugation of Peptides to Oligonucleotides by $\alpha$ -Native Ligation. <i>Journal of Organic Chemistry</i> , 2000, 65, 4900-4908.	1.7	99
3	DNA enzymes as potential therapeutics: towards clinical application of 10-23 DNazymes. <i>Expert Opinion on Biological Therapy</i> , 2015, 15, 689-711.	1.4	91
4	Use of Carbonyl Group Addition <sup>+</sup> Elimination Reactions for Synthesis of Nucleic Acid Conjugates. <i>Bioconjugate Chemistry</i> , 2005, 16, 471-489.	1.8	82
5	Novel uridin-2'-yl carbamates: synthesis, incorporation into oligodeoxyribonucleotides, and remarkable fluorescence properties of 2'-pyren-1-ylmethylcarbamate. Electronic supplementary information (ESI) available: Additional experimental data for compounds 3, 5 and 6. See <a href="http://www.rsc.org/suppdata/p1/b1/b111434b/">http://www.rsc.org/suppdata/p1/b1/b111434b/</a> . <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2002, 1092-1104.	1.3	76
6	Mesyl phosphoramidate antisense oligonucleotides as an alternative to phosphorothioates with improved biochemical and biological properties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1229-1234.	3.3	74
7	1-(Phenylethynyl)pyrene and 9,10-Bis(phenylethynyl)anthracene, Useful Fluorescent Dyes for DNA Labeling: Excimer Formation and Energy Transfer. <i>European Journal of Organic Chemistry</i> , 2004, 2004, 1298-1307.	1.2	71
8	Pyrenemethyl ara-Uridine-2'-carbamate: A Strong Interstrand Excimer in the Major Groove of a DNA Duplex. <i>ChemBioChem</i> , 2003, 4, 841-847.	1.3	61
9	A Convenient Solid-Phase Method for Synthesis of 3'-Conjugates of Oligonucleotides. <i>Bioconjugate Chemistry</i> , 2001, 12, 576-586.	1.8	56
10	Identification of new differentiation inducing factors from <i>Dictyostelium discoideum</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2006, 1760, 754-761.	1.1	55
11	New TFA-Free Cleavage and Final Deprotection in Fmoc Solid-Phase Peptide Synthesis: Dilute HCl in Fluoro Alcohol. <i>Organic Letters</i> , 2012, 14, 6346-6349.	2.4	43
12	New approach to solid phase synthesis of polyamide nucleic acids analogues (PNA) and PNA-DNA conjugates. <i>Tetrahedron Letters</i> , 1996, 37, 3571-3574.	0.7	41
13	Total Stepwise Solid-Phase Synthesis of Oligonucleotide-(3'-N)-Peptide Conjugates. <i>Organic Letters</i> , 2002, 4, 3259-3262.	2.4	41
14	Chemistry of Peptide-Oligonucleotide Conjugates: A Review. <i>Molecules</i> , 2021, 26, 5420.	1.7	40
15	A Structure-Activity Study of the Inhibition of HIV-1 Tat-Dependent Trans-Activation by Mixture of 2'-O-Methyl Oligoribonucleotides Containing Locked Nucleic Acid (LNA), L-LNA, or 2'-Thio-LNA Residues. <i>Oligonucleotides</i> , 2003, 13, 435-453.	2.7	37
16	Mesyl phosphoramidate backbone modified antisense oligonucleotides targeting miR-21 with enhanced in vivo therapeutic potency. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32370-32379.	3.3	34
17	A New and Efficient Method for Synthesis of 5'-Conjugates of Oligonucleotides through Amide-Bond Formation on Solid Phase. <i>Helvetica Chimica Acta</i> , 2002, 85, 2409-2416.	1.0	32
18	Delivery of therapeutic RNA-cleaving oligodeoxyribonucleotides (deoxyribozymes): from cell culture studies to clinical trials. <i>Expert Opinion on Drug Delivery</i> , 2017, 14, 1077-1089.	2.4	30

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19	New oligodeoxynucleotide derivatives containing N-(methanesulfonyl)-phosphoramidate (mesyl) Tj ETQq1 1 0.784314 rgBT /Overlock 1	0.3	27
20	Oligonucleotides with 2'-O-carboxymethyl group: synthesis and 2'-conjugation via amide bond formation on solid phase. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 2793-2797.	1.5	26
21	Synthesis and evaluation of aryliden- and hetarylidenfuranone derivatives of usnic acid as highly potent Tdp1 inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 4470-4480.	1.4	26
22	Diastereomers of a mono-substituted phosphoryl guanidine trideoxyribonucleotide: Isolation and properties. <i>Biochemical and Biophysical Research Communications</i> , 2019, 513, 807-811.	1.0	25
23	Effect of Temperature and Ionic Strength on the Dissociation Kinetics and Lifetime of PNA-DNA Triplexes. <i>Biochemistry</i> , 2000, 39, 11742-11747.	1.2	24
24	Conformation and Self-Association of Peptide Amphiphiles Based on the KTTKS Collagen Sequence. <i>Langmuir</i> , 2012, 28, 12209-12215.	1.6	24
25	(R)-2,4-Dihydroxybutyramideseco-Pseudonucleosides: New Versatile Homochiral Synthons for Synthesis of Modified Oligonucleotides. <i>Organic Letters</i> , 2002, 4, 4607-4610.	2.4	23
26	Synthesis of Modified Nucleotide Building Blocks Containing Electrophilic Groups in the 2'-Position. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2000, 19, 1693-1707.	0.4	22
27	Design of a New Fluorescent Oligonucleotide-Based Assay for a Highly Specific Real-Time Detection of Apurinic/Apyrimidinic Site Cleavage by Tyrosyl-DNA Phosphodiesterase 1. <i>Bioconjugate Chemistry</i> , 2015, 26, 2046-2053.	1.8	22
28	New oligodeoxyribonucleotide derivatives bearing internucleotide N-tosyl phosphoramidate groups: Synthesis and complementary binding to DNA and RNA. <i>Russian Journal of Bioorganic Chemistry</i> , 2017, 43, 38-42.	0.3	22
29	Synthesis of oligonucleotide 2'-conjugates via amide bond formation in solution. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004, 14, 801-804.	1.0	18
30	Mesyl Phosphoramidate Oligonucleotides as Potential Splice-Switching Agents: Impact of Backbone Structure on Activity and Intracellular Localization. <i>Nucleic Acid Therapeutics</i> , 2021, 31, 190-200.	2.0	18
31	Peptide Conjugates of Oligonucleotides As Enhanced Antisense Agents. <i>Molecular Biology</i> , 2000, 34, 852-859.	0.4	17
32	Synthesis of DNA conjugates by solid-phase fragment condensation via aldehyde-nucleophile coupling. <i>Tetrahedron Letters</i> , 2005, 46, 3191-3195.	0.7	17
33	New Phosphoramidite Reagents for the Synthesis of Oligonucleotides Containing a Cysteine Residue Useful in Peptide Conjugation. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2000, 19, 1751-1764.	0.4	14
34	Detection of point mutations using pyrene-labeled DNA probes. <i>Russian Chemical Bulletin</i> , 2004, 53, 463-470.	0.4	14
35	Reversible thermal transition of polydiacetylene based on KTTKS collagen sequence. <i>Chemical Communications</i> , 2012, 48, 9774.	2.2	14
36	A New Antisense Phosphoryl Guanidine Oligo-2'-O-Methylribonucleotide Penetrates Into Intracellular Mycobacteria and Suppresses Target Gene Expression. <i>Frontiers in Pharmacology</i> , 2019, 10, 1049.	1.6	14

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37	New Hybrid Compounds Combining Fragments of Usnic Acid and Thioether Are Inhibitors of Human Enzymes TDP1, TDP2 and PARP1. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11336.	1.8	14
38	Oligonucleotides containing 2'-O-[2-(2,3-dihydroxypropyl)amino-2-oxoethyl]uridine as suitable precursors of 2'-aldehyde oligonucleotides for chemoselective ligation. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 4912-4920.	1.4	13
39	ANTIVIRAL ACTIVITY OF STERIC-BLOCK OLIGONUCLEOTIDES TARGETING THE HIV-1 TRANS-ACTIVATION RESPONSE AND PACKAGING SIGNAL STEM-LOOP RNAs. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2005, 24, 393-396.	0.4	13
40	Neutral and Negatively Charged Phosphate Modifications Altering Thermal Stability, Kinetics of Formation and Monovalent Ion Dependence of DNA G-Quadruplexes. <i>Chemistry - an Asian Journal</i> , 2019, 14, 1212-1220.	1.7	13
41	Efficient Functionalization of Oligonucleotides by New Achiral Nonnucleosidic Monomers. <i>Organic Letters</i> , 2014, 16, 2842-2845.	2.4	12
42	Conjugates of phosphorylated zalcitabine and lamivudine with SiO <sub>2</sub> nanoparticles: Synthesis by CuAAC click chemistry and preliminary assessment of anti-HIV and antiproliferative activity. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 1696-1702.	1.4	12
43	Novel Lipid-Oligonucleotide Conjugates Containing Long-Chain Sulfonyl Phosphoramidate Groups: Synthesis and Biological Properties. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1174.	1.3	12
44	Novel spermine-Amino acid conjugates and basic tripeptides enhance cleavage of the hairpin ribozyme at low magnesium ion concentration. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2001, 11, 3007-3010.	1.0	11
45	Analysis of new charge-neutral DNA/RNA analogues phosphoryl guanidine oligonucleotides (PGO) by gel electrophoresis. <i>Analytical Biochemistry</i> , 2018, 555, 9-11.	1.1	11
46	Synthesis of 2'-Modified Oligonucleotides Containing Aldehyde or Ethylenediamine Groups. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2003, 22, 1383-1385.	0.4	10
47	Phosphoramidites and solid supports based on N-substituted 2,4-dihydroxybutyramides: universal reagents for synthesis of modified oligonucleotides. <i>Tetrahedron</i> , 2006, 62, 6762-6773.	1.0	10
48	Antisense oligonucleotide gapmers containing phosphoryl guanidine groups reverse MDR1-mediated multiple drug resistance of tumor cells. <i>Molecular Therapy - Nucleic Acids</i> , 2022, 27, 211-226.	2.3	10
49	Synthesis of 2'-hydrazine oligonucleotides and their efficient conjugation with aldehydes and 1,3-diketones. <i>Tetrahedron Letters</i> , 2006, 47, 5515-5518.	0.7	9
50	New oligonucleotide derivatives as unreactive substrate analogues and potential inhibitors of human apurinic/apyrimidinic endonuclease APE1. <i>Molecular BioSystems</i> , 2016, 12, 67-75.	2.9	9
51	Silencing of <i>BCR/ABL</i> Chimeric Gene in Human Chronic Myelogenous Leukemia Cell Line K562 by siRNA-Nuclear Export Signal Peptide Conjugates. <i>Nucleic Acid Therapeutics</i> , 2017, 27, 168-175.	2.0	9
52	A New Phosphoramidite Reagent for the Incorporation of Diazaphenoxazinone Nucleoside With Enhanced Base-Pairing Properties into Oligodeoxynucleotides. <i>Nucleosides &amp; Nucleotides</i> , 1997, 16, 1837-1846.	0.5	8
53	A facile route to 3'-modified oligonucleotides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1997, 7, 1181-1184.	1.0	8
54	1,2-Diol and Hydrazide Phosphoramidites for Solid-Phase Synthesis and Chemoselective Ligation of 2'-Modified Oligonucleotides. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2003, 22, 1375-1378.	0.4	8

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55	Chemical Methods for Peptide–Oligonucleotide Conjugate Synthesis. , 2005, 288, 205-224.		8
56	The Importance of Phosphates for DNA G–Quadruplex Formation: Evaluation of Zwitterionic G–Rich Oligodeoxynucleotides. ChemBioChem, 2020, 21, 2455-2466.	1.3	8
57	Experimental Comparison of the <i>In Vivo</i> Efficacy of Two Novel Anticancer Therapies. Anticancer Research, 2021, 41, 3371-3387.	0.5	8
58	2-BIS-PYRENE MODIFIED OLIGONUCLEOTIDES: SENSITIVE FLUORESCENT PROBES OF NUCLEIC ACIDS STRUCTURE. Nucleosides, Nucleotides and Nucleic Acids, 2005, 24, 729-734.	0.4	7
59	A NEW “NATIVE LIGATION” PROCEDURE FOR PEPTIDE-OLIGONUCLEOTIDE CONJUGATION. Nucleosides, Nucleotides and Nucleic Acids, 2001, 20, 801-804.	0.4	6
60	Total Stepwise Solid-Phase Peptide-Oligonucleotide Conjugate Synthesis on Macroporous Polystyrene. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 1379-1382.	0.4	6
61	Oligonucleotide Functionalization by a Novel Alkyne-Modified Nonnucleosidic Reagent Obtained by Versatile Building Block Chemistry. Nucleosides, Nucleotides and Nucleic Acids, 2013, 32, 306-319.	0.4	6
62	Impact of delivery method on antiviral activity of phosphodiester, phosphorothioate, and phosphoryl guanidine oligonucleotides in MDCK cells infected with H5N1 bird flu virus. Molecular Biology, 2017, 51, 633-638.	0.4	6
63	Pre-steady state kinetics of DNA binding and abasic site hydrolysis by tyrosyl-DNA phosphodiesterase 1. Journal of Biomolecular Structure and Dynamics, 2017, 35, 2314-2327.	2.0	6
64	Synthesis of peptide-oligonucleotide conjugates: Application to basic peptides. Nucleic Acids Symposium Series, 2001, 1, 153-154.	0.3	5
65	Efficient conjugation and preferential DNA binding of oligonucleotides containing 2-O-(2-oxoethyl)arabinouridine. Tetrahedron Letters, 2004, 45, 7327-7330.	0.7	5
66	A new simple and convenient method for preparation of oligonucleotides containing a pyrene or a cholesterol moiety. Russian Chemical Bulletin, 2015, 64, 1678-1681.	0.4	5
67	Synthesis and DNA Duplex Stabilities of Oligonucleotides Containing C-5-(3-Methoxypropynyl)-2-deoxyuridine Residues. Nucleosides & Nucleotides, 1997, 16, 215-225.	0.5	4
68	2-Hydrazine oligonucleotides: synthesis and efficient conjugation with aldehydes. Nucleic Acids Symposium Series, 2005, 49, 133-134.	0.3	3
69	Novel Method for the Synthesis of 2-Phosphorylated Oligonucleotides. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 821-825.	0.4	3
70	Removal of acid-labile protecting or anchoring groups in the presence of polyfluorinated alcohol: Application to solid-phase peptide synthesis. Russian Journal of Bioorganic Chemistry, 2016, 42, 143-152.	0.3	3
71	2,3-Dideoxyuridine triphosphate conjugated to SiO <sub>2</sub> nanoparticles: Synthesis and evaluation of antiproliferative activity. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 1248-1251.	1.0	3
72	Data for isolation and properties analysis of diastereomers of a mono-substituted phosphoryl guanidine trideoxyribonucleotide. Data in Brief, 2019, 25, 104148.	0.5	3

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73	Phosphate-modified CpG oligonucleotides induce in vitro maturation of human myeloid dendritic cells. <i>Vavilovskii Zhurnal Genetiki i Seleksii</i> , 2020, 24, 653-660.	0.4	3
74	Uridine 2'-Carbamates: Facile Tools for Oligonucleotide 5'-Functionalization. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2003, 15, Unit 4.21.	0.5	2
75	Preparation Of 2'-Hydrazino Oligonucleotides And Their Reaction With Aldehydes And 1,3-Diketones. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2007, 26, 795-798.	0.4	2
76	A Convenient Solid-Phase Method for the Synthesis of Novel Oligonucleotide-Folate Conjugates. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2007, 26, 1273-1276.	0.4	2
77	Synthesis of new non-nucleosidic ligand building blocks for solid-phase oligonucleotide assembly. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 719-720.	0.3	2
78	DNA or RNA Oligonucleotide 2'-Hydrazides for Chemoselective Click-Type Ligation with Carbonyl Compounds. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2011, 30, 577-584.	0.4	2
79	Design and Properties of Ligand-Conjugated Guanine Oligonucleotides for Recovery of Mutated G-Quadruplexes. <i>Molecules</i> , 2018, 23, 3228.	1.7	2
80	Application of silicon dioxide nanoparticles modified with tumor-targeting ligands for cellular delivery of nucleoside triphosphate analogues. <i>Journal of Saudi Chemical Society</i> , 2020, 24, 98-104.	2.4	2
81	Chemical Methods for Peptide-Oligonucleotide Conjugate Synthesis. <i>ChemInform</i> , 2005, 36, no.	0.1	1
82	Synthesis and properties of oligodeoxyribonucleotides containing 2'-O-(2,3-dihydroxypropyl)- and 2'-O-(2-oxoethyl)arabinouridine residues. <i>Russian Chemical Bulletin</i> , 2005, 54, 238-246.	0.4	1
83	Synthesis of oligo-2'-O-methylribonucleotides containing $\beta$ -amino acid residues in 2'-position. <i>Russian Chemical Bulletin</i> , 2007, 56, 806-814.	0.4	1
84	Nanorings from Concatemeric DNA: Chemical Modification Drives Nanostructure Formation. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 4170-4177.	0.9	1
85	Fluorescent labeling of Taqman oligonucleotide probes via Cu(I)-catalyzed alkyne-azide cycloaddition (CuAAC) click chemistry. <i>Russian Journal of Bioorganic Chemistry</i> , 2017, 43, 43-49.	0.3	1
86	Nuclear delivery of oligonucleotides via nanocomposites based on TiO <sub>2</sub> nanoparticles and polylysine. <i>Molecular Biology</i> , 2017, 51, 695-704.	0.4	1
87	Synthesis of 2'-modified oligonucleotides and their conjugates. , 2002, , .		1
88	Use of Carbonyl Group Addition-Elimination Reactions for Synthesis of Nucleic Acid Conjugates. <i>ChemInform</i> , 2005, 36, no.	0.1	0
89	Using Chemical Approaches to Understand RNA Structure and Function in Biology. <i>Journal of Nucleic Acids</i> , 2012, 2012, 1-2.	0.8	0
90	Data set on the synthesis and properties of 2',3'-dideoxyuridine triphosphate conjugated to SiO <sub>2</sub> nanoparticles. <i>Data in Brief</i> , 2018, 21, 540-547.	0.5	0