

Alexandre S Boutorine

List of Publications by Year in descending order

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57
papers

1,569
citations

331670

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302126

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62
times ranked

1320
citing authors

#	ARTICLE	IF	CITATIONS
1	Interaction of fluorescently labeled pyrrole-imidazole polyamide probes with fixed and living murine and human cells. <i>Biochimie</i> , 2018, 149, 122-134.	2.6	14
2	Application of Cu(I)-catalyzed azide-alkyne cycloaddition for the design and synthesis of sequence specific probes targeting double-stranded DNA. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 1348-1360.	2.2	5
3	Polyamide Fluorescent Probes for Visualization of Repeated DNA Sequences in Living Cells. <i>ChemBioChem</i> , 2015, 16, 549-554.	2.6	14
4	Synthesis of mouse centromere-targeted polyamides and physico-chemical studies of their interaction with the target double-stranded DNA. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 5932-5945.	3.0	5
5	Monitoring <sc>DNA</sc> triplex formation using multicolor fluorescence and application to insulin-like growth factor I promoter downregulation. <i>FEBS Journal</i> , 2014, 281, 1417-1431.	4.7	8
6	Fluorescent Probes for Nucleic Acid Visualization in Fixed and Live Cells. <i>Molecules</i> , 2013, 18, 15357-15397.	3.8	90
7	Triplex-Forming Twisted Intercalating Nucleic Acids (TINAs): Design Rules, Stabilization of Antiparallel DNA Triplexes and Inhibition of G-Quartet-Dependent Self-Association. <i>ChemBioChem</i> , 2011, 12, 2365-2374.	2.6	33
8	Optimization of the sequence of twisted intercalating nucleic acids (TINA) forming triple helix with the polypurine tract of the proviral HIV DNA. <i>Nucleic Acids Symposium Series</i> , 2009, 53, 139-140.	0.3	6
9	A new method for the determination of the relative affinity of a ligand against various DNA sequences by electrospray ionization mass spectrometry. Application to a polyamide minor groove binder. <i>Journal of Mass Spectrometry</i> , 2009, 44, 1171-1181.	1.6	5
10	Optimized Synthesis and Enhanced Efficacy of Novel Triplex-Forming Camptothecin Derivatives Based on Gimatecan. <i>Bioconjugate Chemistry</i> , 2009, 20, 666-672.	3.6	8
11	Sequence-specific DNA cleavage mediated by bipyridine polyamide conjugates. <i>Nucleic Acids Research</i> , 2008, 36, 3531-3538.	14.5	17
12	Studies of sequence-specific recognition and interaction of bishairpin polyamide minor groove binders with target DNA duplexes. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 105-106.	0.3	0
13	Head-to-head bis-Hairpin Polyamide Minor Groove Binders and Their Conjugates with Triplex-forming Oligonucleotides: Studies of Interaction with Target Double-stranded DNA. <i>Journal of Biomolecular Structure and Dynamics</i> , 2007, 25, 61-76.	3.5	4
14	Sequence-Specific Recognition of Double-Stranded DNA by Synthetic Minor Groove Binder Conjugates toward the Construction of Artificial Site-Specific Deoxyribonucleases. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2007, 26, 1559-1563.	1.1	0
15	Biophysical Analysis of Triple-Helix Formation. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2007, 29, Unit 7.12.	0.5	3
16	Postsynthetic Functionalization of Triple Helix-Forming Oligonucleotides. , 2005, 288, 251-260.		2
17	Sequence-Specific Conjugates of Oligo(2'-O-methylribonucleotides) and Hairpin Oligocarboxamide Minor-Groove Binders: Design, Synthesis, and Binding Studies with Double-Stranded DNA. <i>Chemistry and Biodiversity</i> , 2005, 2, 936-952.	2.1	21
18	Functionalized head-to-head hairpin polyamides: Synthesis, double-stranded DNA-binding activity and affinity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 3720-3724.	2.2	14

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19	Oligonucleotides and Oligonucleotide Conjugates: A New Approach for Cancer Treatment. <i>Current Medicinal Chemistry</i> , 2005, 12, 71-88.	2.4	60
20	Activation of Camptothecin Derivatives by Conjugation to Triple Helix-Forming Oligonucleotides. <i>Biochemistry</i> , 2005, 44, 4171-4180.	2.5	17
21	Binding Properties of the Conjugates of Oligo(2'-O-Methylribonucleotides) with Minor Groove Binders Targeted to Double Stranded DNA. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2004, 23, 1015-1022.	1.1	4
22	Oligonucleotide-Minor Groove Binder 1:2 Conjugates: Side by Side Parallel Minor Groove Binder Motif in Stabilization of DNA Duplex. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2004, 23, 953-968.	1.1	9
23	Stabilization of G-C-Containing DNA Duplexes by Polyamides with Parallel Orientation in the Minor Groove. <i>Russian Journal of Bioorganic Chemistry</i> , 2004, 30, 502-504.	1.0	0
24	Oligonucleotide-Minor Groove Binder Conjugates and Their Complexes with Complementary DNA: Effect of Conjugate Structural Factors on the Thermal Stability of Duplexes. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2004, 23, 789-803.	1.1	11
25	Micelles of Lipid-Oligonucleotide Conjugates: Implications for Membrane Anchoring and Base Pairing. <i>Journal of Physical Chemistry B</i> , 2004, 108, 6485-6497.	2.6	55
26	Functionalization of the Oligonucleotides Containing an Internucleotide Phosphoramidate Bond. <i>Russian Journal of Bioorganic Chemistry</i> , 2003, 29, 88-90.	1.0	2
27	Stabilization of DNA Double and Triple Helices by Conjugation of Minor Groove Binders to Oligonucleotides. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2003, 22, 1267-1272.	1.1	7
28	Conjugates of Oligo(2'-O-Methylribonucleotides) with Minor Groove Binders as New Sequence-Specific Agents Recognizing Both Grooves of Double-Stranded DNA. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2003, 22, 1179-1182.	1.1	7
29	Spatial organization of topoisomerase I-mediated DNA cleavage induced by camptothecin-oligonucleotide conjugates. <i>Nucleic Acids Research</i> , 2003, 31, 4031-4040.	14.5	10
30	Design and Optimization of Camptothecin Conjugates of Triple Helix-forming Oligonucleotides for Sequence-specific DNA Cleavage by Topoisomerase I. <i>Journal of Biological Chemistry</i> , 2002, 277, 3132-3140.	3.4	46
31	Synthesis and Molecular Modeling Studies of Fullerene [~] 5,6,7-Trimethoxyindole [~] Oligonucleotide Conjugates as Possible Probes for Study of Photochemical Reactions in DNA Triple Helices. <i>European Journal of Organic Chemistry</i> , 2002, 2002, 405-413.	2.4	26
32	Formation of DNA Triple Helices by an Oligonucleotide Conjugated to a Fluorescent Ruthenium Complex. <i>ChemBioChem</i> , 2002, 3, 324-331.	2.6	44
33	Design, synthesis and biological properties of fulleropyrrolidine derivatives as potential DNA photo-probes. <i>Journal of Supramolecular Chemistry</i> , 2002, 2, 327-334.	0.4	10
34	Current Chemistry: Fullerene Derivatives as Potential DNA Photoprobes. <i>Australian Journal of Chemistry</i> , 2001, 54, 223.	0.9	14
35	DESIGN AND SIMPLE ROUTES OF SYNTHESIS OF OLIGONUCLEOTIDE CONJUGATES FOR STUDIES OF DNA TRIPLE HELIX FORMATION. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2001, 20, 909-914.	1.1	2
36	DNA-Photocleavage Agents. <i>Current Pharmaceutical Design</i> , 2001, 7, 1781-821.	1.9	51

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37	Synthesis of a hybrid fullerene- <i>l</i> -trimethoxyindole-oligonucleotide conjugate. <i>Chemical Communications</i> , 2001, , 17-18.	4.1	31
38	Triple Helix-Forming Oligonucleotides Conjugated to Indolocarbazole Poisons Direct Topoisomerase I-Mediated DNA Cleavage to a Specific Site. <i>Bioconjugate Chemistry</i> , 2001, 12, 501-509.	3.6	16
39	Direct Photocleavage of HIV-1 DNA by Quinacridine Derivatives Triggered by Triplex Formation. <i>Journal of the American Chemical Society</i> , 2001, 123, 9283-9292.	13.7	37
40	Directing Topoisomerase I Mediated DNA Cleavage to Specific Sites by Camptothecin Tethered to Minor- and Major-Groove Ligands. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 3045-3048.	13.8	21
41	Stabilization of DNA Triple Helices Using Conjugates of Oligonucleotides and Synthetic Ligands. <i>Molecular Biology</i> , 2001, 35, 251-260.	1.3	17
42	Recognition and cleavage of DNA by rebeccamycin- or benzopyridoquinoxaline conjugated of triple helix-forming oligonucleotides. <i>Bioorganic and Medicinal Chemistry</i> , 2000, 8, 777-784.	3.0	30
43	Title is missing!. <i>Molecular Biology</i> , 2000, 34, 804-813.	1.3	4
44	Linkage of a Triple Helix-Forming Oligonucleotide to Amsacrine-4-carboxamide Derivatives Modulates the Sequence-Selectivity of Topoisomerase II-Mediated DNA Cleavage. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2000, 19, 1205-1218.	1.1	6
45	Rapid Routes of Synthesis of Oligonucleotide Conjugates from Non-Protected Oligonucleotides and Ligands Possessing Different Nucleophilic or Electrophilic Functional Groups. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2000, 19, 1943-1965.	1.1	39
46	Targeting topoisomerase I cleavage to specific sequences of DNA by triple helix-forming oligonucleotide conjugates. A comparison between a rebeccamycin derivative and camptothecin. <i>Comptes Rendus De L'Académie Des Sciences Série 3, Sciences De La Vie</i> , 1999, 322, 785-790.	0.8	23
47	Targeting of HIV gp120 by oligonucleotide-photosensitizer conjugates. <i>FEBS Letters</i> , 1999, 462, 467-471.	2.8	6
48	Stable Triple-Helical DNA Complexes Formed by Benzopyridoindole ⁺ and Benzopyridoquinoxaline ⁺ Oligonucleotide Conjugates. <i>Journal of the American Chemical Society</i> , 1997, 119, 263-268.	13.7	76
49	Conjugates of Oligonucleotides with Triplex-Specific Intercalating Agents. Stabilization of Triple-Helical DNA in the Promoter Region of the Gene for the β -Subunit of Interleukin 2 (IL-2R β). <i>Bioconjugate Chemistry</i> , 1997, 8, 15-22.	3.6	50
50	Chlorin-Oligonucleotide Conjugates: Synthesis, Properties, and Red Light-Induced Photochemical Sequence-Specific DNA Cleavage in Duplexes and Triplexes. <i>Journal of the American Chemical Society</i> , 1996, 118, 9469-9476.	13.7	69
51	Fullerene-Oligonucleotide Conjugates: Photoinduced Sequence-Specific DNA Cleavage. <i>Angewandte Chemie International Edition in English</i> , 1995, 33, 2462-2465.	4.4	206
52	Fluorescence energy transfer as a probe for nucleic acid structures and sequences. <i>Nucleic Acids Research</i> , 1994, 22, 920-928.	14.5	152
53	Effect of derivation of ribophosphate backbone and terminal ribophosphate groups in oligoribonucleotides on their stability and interaction with eukaryotic cells. <i>Biochimie</i> , 1994, 76, 23-32.	2.6	18
54	Reversible covalent attachment of cholesterol to oligodeoxyribonucleotides for studies of the mechanisms of their penetration into eucaryotic cells. <i>Biochimie</i> , 1993, 75, 35-41.	2.6	65

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55	Effect of the terminal phosphate derivatization of $\hat{1}^2$ - and $\hat{1}\pm$ -oligodeoxynucleotides on their antisense activity in protein biosynthesis, stability and uptake by eucaryotic cells. <i>Biochimie</i> , 1992, 74, 485-489.	2.6	28
56	Effect of Antisense Oligonucleotides Linked to Alkylating Agents on In Vitro Translation of Rabbit $\hat{1}^2$ -Globin and <i>Typuaosomu brucei</i> mRNAs. <i>Nucleosides & Nucleotides</i> , 1991, 10, 239-244.	0.5	8
57	Rapid routes of synthesis of chemically reactive and highly radioactively labeled .alpha.- and .beta.-oligonucleotide derivatives for in vivo studies. <i>Bioconjugate Chemistry</i> , 1990, 1, 350-356.	3.6	37