# Alexandre S Boutorine

List of Publications by Year
in descending order



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|---|---|---|---|
| 57 papers | 1,569 citations | 331670 21 h-index | 302126 39 g-index |
| 62 all docs | 62 docs citations | 62 times ranked | 1320 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Fullereneâ€“Oligonucleotide Conjugates: Photoinduced Sequence-Specific DNA Cleavage. Angewandte Chemie International Edition in English, 1995, 33, 2462-2465. | 4.4 | 206 |
| 2 | Fluorescence energy transfer as a probe for nucleic acid structures and sequences. Nucleic Acids Research, 1994, 22, 920-928. | 14.5 | 152 |
| 3 | Fluorescent Probes for Nucleic Acid Visualization in Fixed and Live Cells. Molecules, 2013, 18, 15357-15397. | 3.8 | 90 |
| 4 | Stable Triple-Helical DNA Complexes Formed by Benzopyridoindoleâ^' and Benzopyridoquinoxalineâ^' Oligonucleotide Conjugates. Journal of the American Chemical Society, 1997, 119, 263-268. | 13.7 | 76 |
| 5 | Chlorin-Oligonucleotide Conjugates:Â Synthesis, Properties, and Red Light-Induced Photochemical Sequence-Specific DNA Cleavage in Duplexes and Triplexesâ€‚â€¡. Journal of the American Chemical Society, 1996, 118, 9469-9476. | 13.7 | 69 |
| 6 | Reversible covalent attachment of cholesterol to oligodeoxyribonucleotides for studies of the mechanisms of their penetration into eucaryotic cells. Biochimie, 1993, 75, 35-41. | 2.6 | 65 |
| 7 | Oligonucleotides and Oligonucleotide Conjugates: A New Approach for Cancer Treatment. Current Medicinal Chemistry, 2005, 12, 71-88. | 2.4 | 60 |
| 8 | Micelles of Lipidâ^'Oligonucleotide Conjugates:Â Implications for Membrane Anchoring and Base Pairing. Journal of Physical Chemistry B, 2004, 108, 6485-6497. | 2.6 | 55 |
| 9 | DNA-Photocleavage Agents. Current Pharmaceutical Design, 2001, 7, 1781-821. | 1.9 | 51 |
| 10 | Conjugates of Oligonucleotides with Triplex-Specific Intercalating Agents. Stabilization of Triple-Helical DNA in the Promoter Region of the Gene for the Î±-Subunit of Interleukin 2 (IL-2RÎ±). Bioconjugate Chemistry, 1997, 8, 15-22. | 3.6 | 50 |
| 11 | Design and Optimization of Camptothecin Conjugates of Triple Helix-forming Oligonucleotides for Sequence-specific DNA Cleavage by Topoisomerase I. Journal of Biological Chemistry, 2002, 277, 3132-3140. | 3.4 | 46 |
| 12 | Formation of DNA Triple Helices by an Oligonucleotide Conjugated to a Fluorescent Ruthenium Complex. ChemBioChem, 2002, 3, 324-331. | 2.6 | 44 |
| 13 | Rapid Routes of Synthesis of Oligonucleotide Conjugates from Non-Protected Oligonucleotides and Ligands Possessing Different Nucleophilic or Electrophilic Functional Groups. Nucleosides, Nucleotides and Nucleic Acids, 2000, 19, 1943-1965. | 1.1 | 39 |
| 14 | Rapid routes of synthesis of chemically reactive and highly radioactively labeled .alpha.- and .beta.-oligonucleotide derivatives for in vivo studies. Bioconjugate Chemistry, 1990, 1, 350-356. | 3.6 | 37 |
| 15 | Direct Photocleavage of HIVâ^'DNA by Quinacridine Derivatives Triggered by Triplex Formation. Journal of the American Chemical Society, 2001, 123, 9283-9292. | 13.7 | 37 |
| 16 | Triplexâ€Forming Twisted Intercalating Nucleic Acids (TINAs): Design Rules, Stabilization of Antiparallel DNA Triplexes and Inhibition of Gâ€Quartetâ€Dependent Selfâ€Association. ChemBioChem, 2011, 12, 2365-2374. | 2.6 | 33 |
| 17 | Synthesis of a hybrid fullereneâ€“trimethoxyindoleâ€“oligonucleotide conjugate. Chemical Communications, 2001, , 17-18. | 4.1 | 31 |
| 18 | Recognition and cleavage of DNA by rebeccamycin- or benzopyridoquinoxaline conjugated of triple helix-forming oligonucleotides. Bioorganic and Medicinal Chemistry, 2000, 8, 777-784. | 3.0 | 30 |

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| 19 | Effect of the terminal phosphate derivatization of Î²- and Î±-oligodeoxynucleotides on their antisense activity in protein biosynthesis, stability and uptake by eucaryotic cells. Biochimie, 1992, 74, 485-489. | 2.6 | 28 |
| 20 | Synthesis and Molecular Modeling Studies of Fullereneâ^'5,6,7-Trimethoxyindoleâ^'Oligonucleotide Conjugates as Possible Probes for Study of Photochemical Reactions in DNA Triple Helices. European Journal of Organic Chemistry, 2002, 2002, 405-413. | 2.4 | 26 |
| 21 | Targeting topoisomerase I cleavage to specific sequences of DNA by triple helix-forming oligonucleotide conjugates. A comparison between a rebeccamycin derivative and camptothecin. Comptes Rendus De L'AcadÃ©mie Des Sciences SÃ©rie 3, Sciences De La Vie, 1999, 322, 785-790. | 0.8 | 23 |
| 22 | Directing Topoisomerase I Mediated DNA Cleavage to Specific Sites by Camptothecin Tethered to Minor- and Major-Groove Ligands. Angewandte Chemie - International Edition, 2001, 40, 3045-3048. | 13.8 | 21 |
| 23 | Sequence-Specific Conjugates of Oligo(2â€²-O-methylribonucleotides) and Hairpin Oligocarboxamide Minor-Groove Binders: Design, Synthesis, and Binding Studies with Double-Stranded DNA. Chemistry and Biodiversity, 2005, 2, 936-952. | 2.1 | 21 |
| 24 | Effect of derivation of ribophosphate backbone and terminal ribophosphate groups in oligoribonucleotides on their stability and interaction with eukaryotic cells. Biochimie, 1994, 76, 23-32. | 2.6 | 18 |
| 25 | Stabilization of DNA Triple Helices Using Conjugates of Oligonucleotides and Synthetic Ligands. Molecular Biology, 2001, 35, 251-260. | 1.3 | 17 |
| 26 | Activation of Camptothecin Derivatives by Conjugation to Triple Helix-Forming Oligonucleotidesâ€. Biochemistry, 2005, 44, 4171-4180. | 2.5 | 17 |
| 27 | Sequence-specific DNA cleavage mediated by bipyridine polyamide conjugates. Nucleic Acids Research, 2008, 36, 3531-3538. | 14.5 | 17 |
| 28 | Triple Helix-Forming Oligonucleotides Conjugated to Indolocarbazole Poisons Direct Topoisomerase I-Mediated DNA Cleavage to a Specific Site. Bioconjugate Chemistry, 2001, 12, 501-509. | 3.6 | 16 |
| 29 | Current Chemistry: Fullerene Derivatives as Potential DNA Photoprobes. Australian Journal of Chemistry, 2001, 54, 223. | 0.9 | 14 |
| 30 | Functionalized head-to-head hairpin polyamides: Synthesis, double-stranded DNA-binding activity and affinity. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 3720-3724. | 2.2 | 14 |
| 31 | Polyamide Fluorescent Probes for Visualization of Repeated DNA Sequences in Living Cells. ChemBioChem, 2015, 16, 549-554. | 2.6 | 14 |
| 32 | Interaction of fluorescently labeled pyrrole-imidazole polyamide probes with fixed and living murine and human cells. Biochimie, 2018, 149, 122-134. | 2.6 | 14 |
| 33 | Oligonucleotideâ€“Minor Groove Binder Conjugates and Their Complexes with Complementary DNA: Effect of Conjugate Structural Factors on the Thermal Stability of Duplexes. Nucleosides, Nucleotides and Nucleic Acids, 2004, 23, 789-803. | 1.1 | 11 |
| 34 | Design, synthesis and biological properties of fulleropyrrolidine derivatives as potential DNA photo-probes. Journal of Supramolecular Chemistry, 2002, 2, 327-334. | 0.4 | 10 |
| 35 | Spatial organization of topoisomerase I-mediated DNA cleavage induced by camptothecin-oligonucleotide conjugates. Nucleic Acids Research, 2003, 31, 4031-4040. | 14.5 | 10 |
| 36 | Oligonucleotideâ€”Minor Groove Binder 1:2 Conjugates: Side by Side Parallel Minor Groove Binder Motif in Stabilization of DNA Duplex. Nucleosides, Nucleotides and Nucleic Acids, 2004, 23, 953-968. | 1.1 | 9 |

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| 37 | Effect of Antisense Oligonucleotides Linked to Alkylating Agents on In Vitro Translation of Rabbit Î²-Globin andTypuaosomu bruceimRNAs. Nucleosides & Nucleotides, 1991, 10, 239-244. | 0.5 | 8 |
| 38 | Optimized Synthesis and Enhanced Efficacy of Novel Triplex-Forming Camptothecin Derivatives Based on Gimatecan. Bioconjugate Chemistry, 2009, 20, 666-672. | 3.6 | 8 |
| 39 | Monitoring <scp>DNA</scp> triplex formation using multicolor fluorescence and application to insulinâ€like growth factor I promoter downregulation. FEBS Journal, 2014, 281, 1417-1431. | 4.7 | 8 |
| 40 | Stabilization of DNA Double and Triple Helices by Conjugation of Minor Groove Binders to Oligonucleotides. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 1267-1272. | 1.1 | 7 |
| 41 | Conjugates of Oligo(2â€²-O-Methylribonucleotides) with Minor Groove Binders as New Sequence-Specific Agents Recognizing Both Grooves of Double-Stranded DNA. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 1179-1182. | 1.1 | 7 |
| 42 | Targeting of HIV gp120 by oligonucleotide-photosensitizer conjugates. FEBS Letters, 1999, 462, 467-471. | 2.8 | 6 |
| 43 | Linkage of a Triple Helix-Forming Oligonucleotide to Amsacrine-4-carboxamide Derivatives Modulates the Sequence-Selectivity of Topoisomerase II-Mediated DNA Cleavage. Nucleosides, Nucleotides and Nucleic Acids, 2000, 19, 1205-1218. | 1.1 | 6 |
| 44 | Optimization of the sequence of twisted intercalating nucleic acids (TINA) forming triple helix with the polypurine tract of the proviral HIV DNA. Nucleic Acids Symposium Series, 2009, 53, 139-140. | 0.3 | 6 |
| 45 | 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. Journal of Mass Spectrometry, 2009, 44, 1171-1181. | 1.6 | 5 |
| 46 | Synthesis of mouse centromere-targeted polyamides and physico-chemical studies of their interaction with the target double-stranded DNA. Bioorganic and Medicinal Chemistry, 2015, 23, 5932-5945. | 3.0 | 5 |
| 47 | Application of Cu(I)-catalyzed azideâ€“alkyne cycloaddition for the design and synthesis of sequence specific probes targeting double-stranded DNA. Beilstein Journal of Organic Chemistry, 2016, 12, 1348-1360. | 2.2 | 5 |
| 48 | Title is missing!. Molecular Biology, 2000, 34, 804-813. | 1.3 | 4 |
| 49 | Binding Properties of the Conjugates of Oligo(2â€²â€Oâ€Methylribonucleotides) with Minor Groove Binders Targeted to Double Stranded DNA. Nucleosides, Nucleotides and Nucleic Acids, 2004, 23, 1015-1022. | 1.1 | 4 |
| 50 | Head-to-headbis-Hairpin Polyamide Minor Groove Binders and Their Conjugates with Triplex-forming Oligonucleotides: Studies of Interaction with Target Double-stranded DNA. Journal of Biomolecular Structure and Dynamics, 2007, 25, 61-76. | 3.5 | 4 |
| 51 | Biophysical Analysis of Tripleâ€Helix Formation. Current Protocols in Nucleic Acid Chemistry, 2007, 29, Unit 7.12. | 0.5 | 3 |
| 52 | DESIGN AND SIMPLE ROUTES OF SYNTHESIS OF OLIGONUCLEOTIDE CONJUGATES FOR STUDIES OF DNA TRIPLE HELIX FORMATION. Nucleosides, Nucleotides and Nucleic Acids, 2001, 20, 909-914. | 1.1 | 2 |
| 53 | Functionalization of the Oligonucleotides Containing an Internucleotide Phosphoramidate Bond. Russian Journal of Bioorganic Chemistry, 2003, 29, 88-90. | 1.0 | 2 |
| 54 | Postsynthetic Functionalization of Triple Helix-Forming Oligonucleotides. , 2005, 288, 251-260. | | 2 |

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| 55 | Stabilization of Gâ€¢C-Containing DNA Duplexes by Polyamides with Parallel Orientation in the Minor Groove. Russian Journal of Bioorganic Chemistry, 2004, 30, 502-504. | 1.0 | 0 |
| 56 | Sequence-Specific Recognition of Double-Stranded DNA by Synthetic Minor Groove Binder Conjugates. toward the Construction of Artificial Site-Specific Deoxyribonucleases. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1559-1563. | 1.1 | 0 |
| 57 | Studies of sequence-specific recognition and interaction of bishairpin polyamide minor groove binders with target DNA duplexes. Nucleic Acids Symposium Series, 2008, 52, 105-106. | 0.3 | 0 |