

# Osamu Nakagawa

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

1,199  
citations

430874

18  
h-index

377865

34  
g-index

56  
all docs

56  
docs citations

56  
times ranked

1332  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | 2'-O-methyl-4-thiouridine (tRNA) with 2'-aminoethoxy-1,3-dioxaphenoxazine Efficiently Forms Duplexes and Has Enhanced Enzymatic Resistance**. Chemistry - A European Journal, 2021, 27, 2427-2438.  | 3.3  | 7         |
| 2  | Crystallographic Structure of Novel Types of Ag I Mediated Base Pairs in Non-canonical DNA Duplex Containing 2'-O, 4'-C Methylene Bridged Nucleic Acids. Chemistry - A European Journal, 2021, 27, 3842-3848.   | 3.3  | 4         |
| 3  | Enhanced duplex- and triplex-forming ability and enzymatic resistance of oligodeoxynucleotides modified by a tricyclic thymine derivative. Organic and Biomolecular Chemistry, 2021, 19, 8063-8074.   | 2.8  | 2         |
| 4  | Oligonucleotides Containing Phenoxazine Artificial Nucleobases: Triplex-Forming Abilities and Fluorescence Properties. ChemBioChem, 2020, 21, 860-864.  | 2.6  | 5         |
| 5  | Silver(I) Ion Mediated Cytosine-Containing Base Pairs: Metal Ion Specificity for Duplex Stabilization and Susceptibility toward DNA Polymerases. ChemBioChem, 2020, 21, 517-522.  | 2.6  | 12        |
| 6  | Enzymatic formation of consecutive thymine-Hg <sup>II</sup> thymine base pairs by DNA polymerases. Chemical Communications, 2020, 56, 12025-12028.  | 4.1  | 12        |
| 7  | 1,3,9-Triaza-2-oxophenoxazine: An Artificial Nucleobase Forming Highly Stable Self-Base Pairs with Three Ag I Ions in a Duplex. Chemistry - A European Journal, 2019, 25, 7407-7407.  | 3.3  | 0         |
| 8  | 1,3,9-Triaza-2-oxophenoxazine: An Artificial Nucleobase Forming Highly Stable Self-Base Pairs with Three Ag <sup>I</sup> Ions in a Duplex. Chemistry - A European Journal, 2019, 25, 7443-7448.   | 3.3  | 31        |
| 9  | Syntheses of prodrug-type 2'-O-methyldithiomethyl oligonucleotides modified at natural four nucleoside residues and their conversions into natural 2'-hydroxy oligonucleotides under reducing condition. Bioorganic and Medicinal Chemistry, 2018, 26, 5838-5844. | 3.0  | 3         |
| 10 | 2'-O-methyl-4'-C-methylene Bridged Nucleic Acids Stabilize Metal Ion Mediated Base Pairing in a DNA Duplex. ChemBioChem, 2018, 19, 2372-2379.   | 2.6  | 12        |
| 11 | Effective gene silencing activity of prodrug-type 2'-O-methyldithiomethyl siRNA compared with non-prodrug-type 2'-O-methyl siRNA. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 2171-2174.  | 2.2  | 8         |
| 12 | Synthesis and thermal stabilities of oligonucleotides containing 2'-O, 4'-C-methylene bridged nucleic acid with a phenoxazine base. Organic and Biomolecular Chemistry, 2017, 15, 8145-8152.  | 2.8  | 9         |
| 13 | Gene silencing by 2'-O-methyldithiomethyl-modified siRNA, a prodrug-type siRNA responsive to reducing environment. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 845-848.   | 2.2  | 14        |
| 14 | A New Nucleic Acid Prodrug Responsive to High Thiol Concentration: Synthesis of 2'-O-methyldithiomethyl Modified Oligonucleotides by Post-synthetic Modification. Current Protocols in Nucleic Acid Chemistry, 2015, 62, 4.63.1-4.63.20.                          | 0.5  | 1         |
| 15 | Synthesis of novel cationic spermine-conjugated phosphotriester oligonucleotide for improvement of cell membrane permeability. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 3610-3615.   | 2.2  | 5         |
| 16 | Regulated Incorporation of Two Different Metal Ions into Programmed Sites in a Duplex by DNA Polymerase Catalyzed Primer Extension. Angewandte Chemie - International Edition, 2014, 53, 6624-6627.   | 13.8 | 51        |
| 17 | Conjugation with Receptor-Targeted Histidine-Rich Peptides Enhances the Pharmacological Effectiveness of Antisense Oligonucleotides. Bioconjugate Chemistry, 2014, 25, 165-170.   | 3.6  | 21        |
| 18 | Effect of Ala replacement with Aib in amphipathic cell-penetrating peptide on oligonucleotide delivery into cells. Bioorganic and Medicinal Chemistry, 2013, 21, 7669-7673.   | 3.0  | 29        |

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|----|--|------|-----------|
| 19 | A post-synthetic approach for the synthesis of 2'-O-methylthiomethyl-modified oligonucleotides responsive to a reducing environment. <i>Chemical Communications</i> , 2013, 49, 7620.              | 4.1  | 22        |
| 20 | Covalent conjugation of oligonucleotides with cell-targeting ligands. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 6217-6223.   | 3.0  | 17        |
| 21 | Aptamer-Mediated Delivery of Splice-Switching Oligonucleotides to the Nuclei of Cancer Cells. <i>Nucleic Acid Therapeutics</i> , 2012, 22, 187-195.  | 3.6  | 104       |
| 22 | Chemical modification of triplex-forming oligonucleotide to promote pyrimidine motif triplex formation at physiological pH. <i>Biochimie</i> , 2012, 94, 1032-1040.                                | 2.6  | 13        |
| 23 | The Chemistry and Biology of Oligonucleotide Conjugates. <i>Accounts of Chemical Research</i> , 2012, 45, 1067-1076.   | 15.6 | 107       |
| 24 | Ag <sup>+</sup> Ion Mediated Formation of a C <sup>+</sup> A Mismatch by DNA Polymerases. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6464-6466.                                  | 13.8 | 75        |
| 25 | Cellular Uptake and Intracellular Trafficking of Antisense and siRNA Oligonucleotides. <i>Bioconjugate Chemistry</i> , 2012, 23, 147-157.  | 3.6  | 167       |
| 26 | Cellular uptake of covalent conjugates of oligonucleotide with membrane-modifying peptide, peptaibol. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 3219-3222.                             | 3.0  | 2         |
| 27 | Synthesis and binding properties of new selective ligands for the nucleobase opposite the AP site. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 3470-3479.                                | 3.0  | 12        |
| 28 | Optimization of fluorescence property of the 8-oxodGclamp derivative for better selectivity for 8-oxo-2'-deoxyguanosine. <i>Tetrahedron</i> , 2011, 67, 6746-6752.                                 | 1.9  | 25        |
| 29 | Integrin Targeted Delivery of Gene Therapeutics. <i>Theranostics</i> , 2011, 1, 211-219.   | 10.0 | 40        |
| 30 | Synthesis of new derivatives of 8-oxoG-Clamp for better understanding the recognition mode and improvement of selective affinity. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 3992-3998. | 3.0  | 27        |
| 31 | The Spermine-Bisaryl Conjugate as a Potent Inducer of B-to Z DNA Transition. <i>Chemistry - A European Journal</i> , 2010, 16, 11993-11999.  | 3.3  | 18        |
| 32 | Targeted Intracellular Delivery of Antisense Oligonucleotides via Conjugation with Small-Molecule Ligands. <i>Journal of the American Chemical Society</i> , 2010, 132, 8848-8849.                 | 13.7 | 111       |
| 33 | Selective fluorescence quenching of the 8-oxoG-clamp by 8-oxodeoxyguanosine in ODN. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 727-730.   | 2.2  | 29        |
| 34 | Specific Fluorescent Probe for 8-Oxoguanosine. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8983-8983.   | 13.8 | 3         |
| 35 | Selective Fluorescence Detection Of 8-Oxoguanosine With 8-Oxog-Clamp. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2007, 26, 645-649.   | 1.1  | 14        |
| 36 | Acid-Mediated Cleavage of Oligonucleotide P3' N5' Phosphoramidates Triggered by Sequence-Specific Triplex Formation. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2007, 26, 893-896.        | 1.1  | 6         |

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|----|---|------|-----------|
| 37 | Double-Stranded DNA-Templated Oligonucleotide Digestion Triggered by Triplex Formation. <i>ChemBioChem</i> , 2007, 8, 1924-1928.  | 2.6  | 9         |
| 38 | Specific Fluorescent Probe for 8-Oxoguanosine. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4500-4503.  | 13.8 | 53        |
| 39 | PRESENCE OF 2',5'-LINKAGES IN A HOMOPYRIMIDINE DNA OLIGONUCLEOTIDE PROMOTES STABLE TRIPLEX FORMATION UNDER PHYSIOLOGICAL CONDITIONS. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2005, 24, 1055-1058. | 1.1  | 1         |
| 40 | Promotion of stable triplex formation by partial incorporation of 2',5'-phosphodiester linkages into triplex-forming oligonucleotides. <i>Chemical Communications</i> , 2005, , 2793.                         | 4.1  | 6         |
| 41 | Asymmetric epoxidation of digeranyl by cultured cells of <i>Nicotiana tabacum</i> . <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2003, 46, 401-409.  | 1.0  | 1         |
| 42 | Synthesis of a novel bridged nucleoside bearing a fused-azetidine ring, 3'-amino-3',4'-BNA monomer. <i>Tetrahedron Letters</i> , 2003, 44, 5267-5270.   | 1.4  | 27        |
| 43 | Synthesis and properties of a novel bridged nucleic acid with a P3' $\rightarrow$ N5' phosphoramidate linkage, 5'-amino-2',4'-BNA. <i>Chemical Communications</i> , 2003, , 2202-2203.                        | 4.1  | 26        |
| 44 | First Synthesis of Subelliptenone F, an Inhibitor of Topoisomerase II. <i>Chemistry Letters</i> , 2000, 29, 464-465.  | 1.3  | 4         |
| 45 | Facile Syntheses of [8,9-2H <sub>2</sub> ]- and [8-2H]-digeranyl. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2000, 43, 1301-1309.  | 1.0  | 3         |