Osamu Nakagawa

List of Publications by Year
in descending order

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	Cellular Uptake and Intracellular Trafficking of Antisense and siRNA Oligonucleotides. Bioconjugate Chemistry, 2012, 23, 147-157.	3.6	167
2	Targeted Intracellular Delivery of Antisense Oligonucleotides via Conjugation with Small-Molecule Ligands. Journal of the American Chemical Society, 2010, 132, 8848-8849.	13.7	111
3	The Chemistry and Biology of Oligonucleotide Conjugates. Accounts of Chemical Research, 2012, 45, 1067-1076.	15.6	107
4	Aptamer-Mediated Delivery of Splice-Switching Oligonucleotides to the Nuclei of Cancer Cells. Nucleic Acid Therapeutics, 2012, 22, 187-195.	3.6	104
5	Ag^I Ion Mediated Formation of a Câ€“A Mispair by DNA Polymerases. Angewandte Chemie - International Edition, 2012, 51, 6464-6466.	13.8	75
6	Specific Fluorescent Probe for 8-Oxoguanosine. Angewandte Chemie - International Edition, 2007, 46, 4500-4503.	13.8	53
7	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
8	Integrin Targeted Delivery of Gene Therapeutics. Theranostics, 2011, 1, 211-219.	10.0	40
9	1,3,9â€Triazaâ€2â€oxophenoxazine: An Artificial Nucleobase Forming Highly Stable Selfâ€Base Pairs with Three Ag^I Ions in a Duplex. Chemistry - A European Journal, 2019, 25, 7443-7448.	3.3	31
10	Selective fluorescence quenching of the 8-oxoG-clamp by 8-oxodeoxyguanosine in ODN. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 727-730.	2.2	29
11	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
12	Synthesis of a novel bridged nucleoside bearing a fused-azetidine ring, 3â€²-amino-3â€²,4â€²-BNA monomer. Tetrahedron Letters, 2003, 44, 5267-5270.	1.4	27
13	Synthesis of new derivatives of 8-oxoG-Clamp for better understanding the recognition mode and improvement of selective affinity. Bioorganic and Medicinal Chemistry, 2010, 18, 3992-3998.	3.0	27
14	Synthesis and properties of a novel bridged nucleic acid with a P3â€² â†' N5â€² phosphoramidate linkage, 5â€²-amino-2â€²,4â€²-BNA. Chemical Communications, 2003, , 2202-2203.	4.1	26
15	Optimization of fluorescence property of the 8-oxodGclamp derivative for better selectivity for 8-oxo-2â€²-deoxyguanosine. Tetrahedron, 2011, 67, 6746-6752.	1.9	25
16	A post-synthetic approach for the synthesis of 2â€²-O-methyldithiomethyl-modified oligonucleotides responsive to a reducing environment. Chemical Communications, 2013, 49, 7620.	4.1	22
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	The Spermineâ€“Bisaryl Conjugate as a Potent Inducer of Bâ€•to Zâ€DNA Transition. Chemistry - A European Journal, 2010, 16, 11993-11999.	3.3	18

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19	Covalent conjugation of oligonucleotides with cell-targeting ligands. Bioorganic and Medicinal Chemistry, 2013, 21, 6217-6223.	3.0	17
20	Selective Fluorescence Detection Of 8-Oxoguanosine With 8-Oxog-Clamp. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 645-649.	1.1	14
21	Gene silencing by 2â€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
22	Chemical modification of triplex-forming oligonucleotide to promote pyrimidine motif triplex formation at physiological pH. Biochimie, 2012, 94, 1032-1040.	2.6	13
23	Synthesis and binding properties of new selective ligands for the nucleobase opposite the AP site. Bioorganic and Medicinal Chemistry, 2012, 20, 3470-3479.	3.0	12
24	2â€²â€‹O,4â€²â€‹Câ€‹Methyleneâ€‹Bridged Nucleic Acids Stabilize Metalâ€‹Mediated Base Pairing in a DNA Duplex. ChemBioChem, 2018, 19, 2372-2379.	2.6	12
25	Silver(I)â€‹ionâ€‹Mediated Cytosineâ€‹Containing Base Pairs: Metal Ion Specificity for Duplex Stabilization and Susceptibility toward DNA Polymerases. ChemBioChem, 2020, 21, 517-522.	2.6	12
26	Enzymatic formation of consecutive thymineâ€“Hg^{II}â€“thymine base pairs by DNA polymerases. Chemical Communications, 2020, 56, 12025-12028.	4.1	12
27	Doubleâ€‹Stranded DNAâ€‹Templated Oligonucleotide Digestion Triggered by Triplex Formation. ChemBioChem, 2007, 8, 1924-1928.	2.6	9
28	Synthesis and thermal stabilities of oligonucleotides containing 2â€²-O,4â€²-C-methylene bridged nucleic acid with a phenoxazine base. Organic and Biomolecular Chemistry, 2017, 15, 8145-8152.	2.8	9
29	Effective gene silencing activity of prodrug-type 2â€²-O-methyldithiomethyl siRNA compared with non-prodrug-type 2â€²-O-methyl siRNA. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 2171-2174.	2.2	8
30	2â€²,4â€²â€‹BNA/LNA with 9â€‹(2â€‹Aminoethoxy)â€‹1,3â€‹diazaâ€‹2â€‹oxophenoxazine Efficiently Forms Duplexes and Has Enhanced Enzymatic Resistance**. Chemistry - A European Journal, 2021, 27, 2427-2438.	3.3	7
31	Promotion of stable triplex formation by partial incorporation of 2â€²,5â€²-phosphodiester linkages into triplex-forming oligonucleotides. Chemical Communications, 2005, , 2793.	4.1	6
32	Acid-Mediated Cleavage oF Oligonucleotide P3â€² â†’ N5â€² Phosphoramidates Triggered by Sequence-Specific Triplex Formation. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 893-896.	1.1	6
33	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
34	Oligonucleotides Containing Phenoxazine Artificial Nucleobases: Triplexâ€‹Forming Abilities and Fluorescence Properties. ChemBioChem, 2020, 21, 860-864.	2.6	5
35	First Synthesis of Subelliptenone F, an Inhibitor of Topoisomerase II. Chemistry Letters, 2000, 29, 464-465.	1.3	4
36	Crystallographic Structure of Novel Types of Ag I â€‹Mediated Base Pairs in Nonâ€‹canonical DNA Duplex Containing 2â€²â€‹O ,4â€²â€‹C â€‹Methylene Bridged Nucleic Acids. Chemistry - A European Journal, 2021, 27, 3842-3848.	3.3	4

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37	Facile Syntheses of [8,9-2H2]- and [8-2H]-digeranyl. Journal of Labelled Compounds and Radiopharmaceuticals, 2000, 43, 1301-1309.	1.0	3
38	Specific Fluorescent Probe for 8â€Oxoguanosine. Angewandte Chemie - International Edition, 2008, 47, 8983-8983.	13.8	3
39	Syntheses of prodrug-type 2â€²-O-methyldithiomethyl oligonucleotides modified at natural four nucleoside residues and their conversions into natural 2â€²-hydroxy oligonucleotides under reducing condition. Bioorganic and Medicinal Chemistry, 2018, 26, 5838-5844.	3.0	3
40	Cellular uptake of covalent conjugates of oligonucleotide with membrane-modifying peptide, peptaibol. Bioorganic and Medicinal Chemistry, 2012, 20, 3219-3222.	3.0	2
41	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
42	Asymmetric epoxidation of digeranyl by cultured cells ofNicotiana tabacum. Journal of Labelled Compounds and Radiopharmaceuticals, 2003, 46, 401-409.	1.0	1
43	PRESENCE OF 2â€²,5â€²-LINKAGES IN A HOMOPYRIMIDINE DNA OLIGONUCLEOTIDE PROMOTES STABLE TRIPLEX FORMATION UNDER PHYSIOLOGICAL CONDITIONS. Nucleosides, Nucleotides and Nucleic Acids, 2005, 24, 1055-1058.	1.1	1
44	A New Nucleic Acid Prodrug Responsive to High Thiol Concentration: Synthesis of 2â€²â€•O â€Methyldithiomethylâ€Modified Oligonucleotides by Postâ€Synthetic Modification. Current Protocols in Nucleic Acid Chemistry, 2015, 62, 4.63.1-4.63.20.	0.5	1
45	1,3,9â€Triazaâ€2â€oxophenoxazine: An Artificial Nucleobase Forming Highly Stable Selfâ€Base Pairs with Three Ag I Ions in a Duplex. Chemistry - A European Journal, 2019, 25, 7407-7407.	3.3	0