

Akimitsu Okamoto

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

177
papers

5,205
citations

35
h-index

67
g-index

200
ext. papers

5,695
ext. citations

6.7
avg, IF

5.77
L-index

#	Paper	IF	Citations
177	Changes of C≡C Triple Bond Vibration that Disclosed Non-Canonical Cytosine Protonation in i-Motif-Forming Oligodeoxynucleotides. <i>ACS Omega</i> , 2021 , 6, 31595-31604	3.9	0
176	Floxuridine Oligomers Activated under Hypoxic Environment. <i>Journal of the American Chemical Society</i> , 2021 , 143, 3340-3347	16.4	3
175	Light-inducible control of cellular proliferation and differentiation by a Hedgehog signaling inhibitor. <i>Bioorganic and Medicinal Chemistry</i> , 2021 , 38, 116144	3.4	1
174	Silyl-protected propargyl glycine for multiple labeling of peptides by chemoselective silyl-deprotection. <i>Tetrahedron Letters</i> , 2021 , 73, 153093	2	1
173	Sterically Bulky Caging of Transferrin for Photoactivatable Intracellular Delivery. <i>Bioconjugate Chemistry</i> , 2021 , 32, 1535-1540	6.3	1
172	Base-resolution analysis of 5-hydroxymethylcytidine by selective oxidation and reverse transcription arrest. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 6478-6486	3.9	0
171	DNA/RNA Fluorescence Imaging by Synthetic Nucleic Acids. <i>Advances in Experimental Medicine and Biology</i> , 2021 , 1310, 475-493	3.6	
170	Unnatural Base Pair Enables Alphabet-Expanded DNA Self-Assembly. <i>Journal of the American Chemical Society</i> , 2021 , 143, 14207-14217	16.4	2
169	Organoruthenium-catalyzed chemical protein synthesis to elucidate the functions of epigenetic modifications on heterochromatin factors.. <i>Chemical Science</i> , 2021 , 12, 5926-5937	9.4	3
168	Fmoc-Compatible and C-terminal-Sequence-Independent Peptide Alkyl Thioester Formation Using Cysteinylprolyl Imide. <i>Organic Letters</i> , 2020 , 22, 4670-4674	6.2	1
167	Toolbox for chemically synthesized histone proteins. <i>Current Opinion in Chemical Biology</i> , 2020 , 58, 10-19	7.7	4
166	A Light-Inducible Hedgehog Signaling Activator Modulates Proliferation and Differentiation of Neural Cells. <i>ACS Chemical Biology</i> , 2020 , 15, 1595-1603	4.9	4
165	Live-Cell Sensing of Telomerase Activity by Using Hybridization-Sensitive Fluorescent Oligonucleotide Probes. <i>ChemBioChem</i> , 2020 , 21, 1022-1027	3.8	1
164	Monitoring intracellular metal ion complexation with an acetylene-tagged ligand by Raman spectroscopy.. <i>RSC Advances</i> , 2020 , 10, 36119-36123	3.7	4
163	Single Cell Array Enclosed with a Photodegradable Hydrogel in Microwells for Image-Based Cell Classification and Selective Photorelease of Cells.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 5887-5895	4.1	4
162	L-DNA-tagged fluorescence hybridization for highly sensitive imaging of RNAs in single cells. <i>Organic and Biomolecular Chemistry</i> , 2020 , 18, 8084-8088	3.9	1
161	A highly constrained nucleic acid analog based on β-threosamine. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2020 , 39, 270-279	1.4	2

160	Reversible and Photoresponsive Immobilization of Nonadherent Cells by Spiropyran-Conjugated PEG-Lipids.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 33-38	4.1	6
159	Chemical Synthesis of Cys-Containing Protein via Chemoselective Deprotection with Different Palladium Complexes. <i>Organic Letters</i> , 2019 , 21, 8378-8382	6.2	9
158	Simultaneous and Traceless Ligation of Peptide Fragments on DNA Scaffold. <i>Biomacromolecules</i> , 2019 , 20, 1246-1253	6.9	5
157	Cysteinylprolyl imide (CPI) peptide: a highly reactive and easily accessible crypto-thioester for chemical protein synthesis. <i>Chemical Science</i> , 2019 , 10, 5967-5975	9.4	9
156	Berichtigung: Triple Function of 4-Mercaptophenylacetic Acid Promotes One-Pot Multiple Peptide Ligation. <i>Angewandte Chemie</i> , 2019 , 131, 1554-1554	3.6	
155	Photophysical properties of fluorescent imaging biological probes of nucleic acids: SAC-CI and TD-DFT Study. <i>Journal of Computational Chemistry</i> , 2019 , 40, 127-134	3.5	3
154	Next-generation fluorescent nucleic acids probes for microscopic analysis of intracellular nucleic acids. <i>Applied Microscopy</i> , 2019 , 49, 14	1.1	5
153	Photo-responsive materials with strong cell trapping ability for light-guided manipulation of nonadherent cells. <i>Biomaterials Science</i> , 2019 , 7, 4514-4518	7.4	2
152	Efficient Ketose Production by a Hydroxyapatite Catalyst in a Continuous Flow Module. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 3372-3377	8.3	4
151	Efficient peptide ligation between allyl-protected Asp and Cys followed by palladium-mediated deprotection. <i>Chemical Communications</i> , 2018 , 54, 4337-4340	5.8	18
150	Chemistry-Driven Epigenetic Investigation of Histone and DNA Modifications. <i>Chemical Record</i> , 2018 , 18, 1727-1744	6.6	11
149	Triple Function of 4-Mercaptophenylacetic Acid Promotes One-Pot Multiple Peptide Ligation. <i>Angewandte Chemie</i> , 2018 , 130, 16771-16775	3.6	6
148	Triple Function of 4-Mercaptophenylacetic Acid Promotes One-Pot Multiple Peptide Ligation. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16533-16537	16.4	19
147	Osmium Tag for Post-transcriptionally Modified RNA. <i>ChemBioChem</i> , 2018 , 19, 1653-1656	3.8	6
146	Chemically-activatable alkyne-tagged probe for imaging microdomains in lipid bilayer membranes. <i>Scientific Reports</i> , 2017 , 7, 41007	4.9	17
145	Chemical synthesis of dual labeled proteins via differently protected alkynes enables intramolecular FRET analysis. <i>Chemical Communications</i> , 2017 , 53, 5918-5921	5.8	9
144	DNA-friendly Cu(ii)/TEMPO-catalyzed 5-hydroxymethylcytosine-specific oxidation. <i>Chemical Communications</i> , 2017 , 53, 5756-5759	5.8	8
143	Hybridization-sensitive Fluorescent Oligonucleotide Probe Conjugated with Cell-penetrating Peptides for Enhanced Cellular Uptake. <i>Chemistry Letters</i> , 2017 , 46, 1803-1806	1.7	2

142	Hydroxyapatite: catalyst for a one-pot pentose formation. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 8888-8893	3.9	20
141	Fluorescence-switching RNA for detection of bacterial ribosomes. <i>Chemical Communications</i> , 2017 , 53, 9406-9409	5.8	1
140	Regulation of the Stability of the Histone H2A-H2B Dimer by H2A Tyr57 Phosphorylation. <i>Biochemistry</i> , 2017 , 56, 4767-4772	3.2	15
139	Microfluidic preparation of anchored cell membrane sheets for in vitro analyses and manipulation of the cytoplasmic face. <i>Scientific Reports</i> , 2017 , 7, 14962	4.9	4
138	Chemically Activatable Alkyne Tag for Low pH-Enhanced Molecular Labeling on Living Cells. <i>Bioconjugate Chemistry</i> , 2016 , 27, 1976-80	6.3	2
137	Base-Resolution Analysis of 5-Hydroxymethylcytosine by One-Pot Bisulfite-Free Chemical Conversion with Peroxotungstate. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14178-14181	16.4	18
136	In vitro and in cell analysis of chemically synthesized histone H2A with multiple modifications. <i>Chemical Communications</i> , 2016 , 52, 4999-5002	5.8	17
135	Nucleic Acid Reaction Chemistry to Clarify the Fluctuating Quality and Quantity of Nucleic Acids. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2016 , 74, 474-481	0.2	
134	Thiazole Orange-Tethered Nucleic Acids and ECHO Probes for Fluorometric Detection of Nucleic Acids. <i>Nucleic Acids and Molecular Biology</i> , 2016 , 63-81		3
133	Rapid nuclear import of short nucleic acids. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 4568-4570		1
132	ECHO-liveFISH: in vivo RNA labeling reveals dynamic regulation of nuclear RNA foci in living tissues. <i>Nucleic Acids Research</i> , 2015 , 43, e126	20.1	34
131	2-Oxazoline formation for selective chemical labeling of 5-hydroxylysine. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 1138-41	4.5	
130	Diazirine photocrosslinking recruits activated FTO demethylase complexes for specific N(6)-methyladenosine recognition. <i>ACS Chemical Biology</i> , 2015 , 10, 1450-5	4.9	14
129	Hybridization-sensitive fluorescent oligonucleotide probe conjugated with a bulky module for compartment-specific mRNA monitoring in a living cell. <i>Bioconjugate Chemistry</i> , 2015 , 26, 412-7	6.3	11
128	Middle-Down and Chemical Proteomic Approaches to Reveal Histone H4 Modification Dynamics in Cell Cycle: Label-Free Semi-Quantification of Histone Tail Peptide Modifications Including Phosphorylation and Highly Sensitive Capture of Histone PTM Binding Proteins Using Photo-Reactive Crosslinkers. <i>Mass Spectrometry</i> , 2015 , 4, A0039	1.7	10
127	Visualization of nucleic acids with synthetic exciton-controlled fluorescent oligonucleotide probes. <i>Methods in Molecular Biology</i> , 2015 , 1262, 69-87	1.4	1
126	Whole-mount MeFISH: a novel technique for simultaneous visualization of specific DNA methylation and protein/RNA expression. <i>PLoS ONE</i> , 2014 , 9, e95750	3.7	8
125	FTO-dependent demethylation of N6-methyladenosine regulates mRNA splicing and is required for adipogenesis. <i>Cell Research</i> , 2014 , 24, 1403-19	24.7	612

124	Effects of roughness and temperature on low-energy hydrogen positive and negative ion reflection from silicon and carbon surfaces. <i>Review of Scientific Instruments</i> , 2014 , 85, 02C311	1.7	5
123	DNA-osmium complexes: recent developments in the operative chemical analysis of DNA epigenetic modifications. <i>ChemMedChem</i> , 2014 , 9, 1958-65	3.7	7
122	A nucleic acid probe labeled with desmethyl thiazole orange: a new type of hybridization-sensitive fluorescent oligonucleotide for live-cell RNA imaging. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 362-71	3.9	12
121	Probe design for the effective fluorescence imaging of intracellular RNA. <i>Chemical Record</i> , 2013 , 13, 209-17	6.6	9
120	Characterization of the triplet state of hybridization-sensitive DNA probe by using fluorescence correlation spectroscopy. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 27-33	2.8	15
119	Fluorescent triplex-forming DNA oligonucleotides labeled with a thiazole orange dimer unit. <i>Artificial DNA, PNA & XNA</i> , 2013 , 4, 19-27		8
118	Rate enhancement of bacterial extracellular electron transport involves bound flavin semiquinones. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 7856-61	11.5	302
117	Sequence-specific microscopic visualization of DNA methylation status at satellite repeats in individual cell nuclei and chromosomes. <i>Nucleic Acids Research</i> , 2013 , 41, e186	20.1	23
116	Application of caged fluorescent nucleotides to live-cell RNA imaging. <i>Methods in Molecular Biology</i> , 2013 , 1039, 303-18	1.4	1
115	ECHO probes: Fluorescence emission control for nucleic acid imaging. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2012 , 13, 112-123	16.4	24
114	Radiationless deactivation of hybridization-sensitive DNA probe. <i>Journal of Luminescence</i> , 2012 , 132, 2566-2571	3.8	5
113	Ligand-incorporation site in 5-methylcytosine-detection probe modulating the site of osmium complexation with the target DNA. <i>Chemistry and Biodiversity</i> , 2012 , 9, 2000-7	2.5	7
112	A quick and simple FISH protocol with hybridization-sensitive fluorescent linear oligodeoxynucleotide probes. <i>Rna</i> , 2012 , 18, 166-75	5.8	33
111	ECHO probes: a concept of fluorescence control for practical nucleic acid sensing. <i>Chemical Society Reviews</i> , 2011 , 40, 5815-28	58.5	126
110	Cy5-conjugated hybridization-sensitive fluorescent oligonucleotides for ratiometric analysis of nuclear poly(A) ⁺ RNA. <i>Bioconjugate Chemistry</i> , 2011 , 22, 1625-30	6.3	11
109	Hybridization-sensitive fluorescence control in the near-infrared wavelength range. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 4199-204	3.9	20
108	Facile synthesis of hydroxymethylcytosine-containing oligonucleotides and their reactivity upon osmium oxidation. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 4176-81	3.9	14
107	On-chip DNA methylation analysis using osmium complexation. <i>Journal of Nucleic Acids</i> , 2011 , 2011, 480570		4

106	Design and synthesis of caged fluorescent nucleotides and application to live-cell RNA imaging. <i>ChemBioChem</i> , 2011 , 12, 2871-80	3.8	15
105	5-Hydroxymethylcytosine-selective oxidation with peroxotungstate. <i>Chemical Communications</i> , 2011 , 47, 11231-3	5.8	20
104	Discrimination between 5-hydroxymethylcytosine and 5-methylcytosine by a chemically designed peptide. <i>Chemical Communications</i> , 2011 , 47, 8277-9	5.8	9
103	Emission control by binary energy transfer processes on oligouridine. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 6598-603	3.9	6
102	Phosphopeptides designed for 5-methylcytosine recognition. <i>Biochemistry</i> , 2011 , 50, 3376-85	3.2	2
101	ICON probes: synthesis and DNA methylation typing. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2011 , Chapter 8, Unit 8.7.1-17	0.5	1
100	ECHO-LNA conjugates: hybridization-sensitive fluorescence and its application to fluorescent detection of various RNA strands. <i>Bioconjugate Chemistry</i> , 2010 , 21, 2276-81	6.3	19
99	Hybridization-sensitive fluorescent DNA probe with self-avoidance ability. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 546-51	3.9	20
98	A Probe Containing Two Base-discriminating Fluorescent (BDF) Nucleosides for SNP Typing. <i>Chemistry Letters</i> , 2010 , 39, 116-117	1.7	6
97	????????? ????DNA?????. <i>Kagaku To Seibutsu</i> , 2010 , 48, 138-141	0	
96	Exciton Primer-mediated SNP detection in SmartAmp2 reactions. <i>Human Mutation</i> , 2010 , 31, 208-17	4.7	24
95	Excitonic interaction: another photophysical process for fluorescence-controlled nucleic acid sensing. <i>Chemical Record</i> , 2010 , 10, 188-96	6.6	17
94	Sets of RNA repeated tags and hybridization-sensitive fluorescent probes for distinct images of RNA in a living cell. <i>PLoS ONE</i> , 2010 , 5, e13003	3.7	32
93	Osmium complex binding to mismatched methylcytosine: effect of adjacent bases. <i>Nucleic Acids Symposium Series</i> , 2009 , 207-8		
92	Exciton-controlled fluorescence: application to hybridization-sensitive fluorescent DNA probe. <i>Nucleic Acids Symposium Series</i> , 2009 , 49-50		1
91	Synthesis of exciton-controlled fluorescent probes for RNA imaging. <i>Nucleic Acids Symposium Series</i> , 2009 , 155-6		3
90	Exciton-Controlled Hybridization-Sensitive Fluorescent Probes: Multicolor Detection of Nucleic Acids. <i>Angewandte Chemie</i> , 2009 , 121, 6602-6606	3.6	12
89	Exciton-controlled hybridization-sensitive fluorescent probes: multicolor detection of nucleic acids. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 6480-4	16.4	90

88	Doubly thiazole orange-labeled cytidine for functional expansion of a hybridization-sensitive probe. <i>Tetrahedron Letters</i> , 2009 , 50, 7191-7195	2	14
87	Hybridization-sensitive fluorescent probe for long-term monitoring of intracellular RNA. <i>Bioconjugate Chemistry</i> , 2009 , 20, 1256-61	6.3	37
86	Osmium complexation of mismatched DNA: effect of the bases adjacent to mismatched 5-methylcytosine. <i>Bioconjugate Chemistry</i> , 2009 , 20, 603-7	6.3	15
85	Chemical approach toward efficient DNA methylation analysis. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 21-6	3.9	41
84	Photoresponsive tandem zinc finger peptide. <i>Chemical Communications</i> , 2009 , 1906-8	5.8	19
83	Doubly Thiazole Orange-Labeled DNA For Live Cell RNA Imaging. <i>Bulletin of the Chemical Society of Japan</i> , 2009 , 82, 110-117	5.1	38
82	Synthesis and Use of Osmium-DNA Complexes. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2009 , 67, 680-687	0.2	3
81	DNA / RNA Imaging with a Photo-Chemically Designed Fluorescent Nucleotide. <i>Seibutsu Butsuri</i> , 2009 , 49, 310-313	0	
80	Synthesis and characterization of the 5-methyl-2Sdeoxycytidine glycol-dioxoosmium-bipyridine ternary complex in DNA. <i>Organic and Biomolecular Chemistry</i> , 2008 , 6, 269-71	3.9	23
79	Heterogeneity of osmium oxidation efficiency at consecutive thymines. <i>Organic and Biomolecular Chemistry</i> , 2008 , 6, 3905-7	3.9	10
78	Sequence dependence of fluorescence emission and quenching of doubly thiazole orange labeled DNA: effective design of a hybridization-sensitive probe. <i>Bioconjugate Chemistry</i> , 2008 , 19, 1719-25	6.3	53
77	Reactivity of thymine doublet in single strand DNA with osmium reagent. <i>Nucleic Acids Symposium Series</i> , 2008 , 433-4		1
76	Intracellular mRNA imaging with a hybridization sensitive fluorescent nucleotide. <i>Nucleic Acids Symposium Series</i> , 2008 , 355-6		1
75	Design of a fluorescent probe for DNA/RNA imaging. <i>Nucleic Acids Symposium Series</i> , 2008 , 231-2		1
74	Design of a pyrene-containing fluorescence probe for labeling of RNA poly(A) tracts. <i>Bioorganic and Medicinal Chemistry</i> , 2008 , 16, 400-4	3.4	10
73	Hybridization-sensitive on-off DNA probe: application of the exciton coupling effect to effective fluorescence quenching. <i>Chemistry - an Asian Journal</i> , 2008 , 3, 958-68	4.5	79
72	N5-CAIR mutase: role of a CO ₂ binding site and substrate movement in catalysis. <i>Biochemistry</i> , 2007 , 46, 2842-55	3.2	18
71	An osmium-DNA interstrand complex: application to facile DNA methylation analysis. <i>Journal of the American Chemical Society</i> , 2007 , 129, 14511-7	16.4	72

70	pH-dependent fluorescence of uncharged benzothiazole-based dyes binding to DNA. <i>Photochemical and Photobiological Sciences</i> , 2007 , 6, 1197-201	4.2	11
69	Synthesis and fluorescence properties of dimethylaminonaphthalene deoxyuridine conjugates as polarity-sensitive probes. <i>Tetrahedron</i> , 2007 , 63, 3465-3470	2.4	33
68	Production of radical species and modification of DNA through one-electron reduction with indium metal. <i>Tetrahedron Letters</i> , 2007 , 48, 3167-3169	2	6
67	Methylcytosine-selective fluorescence quenching by osmium complexation. <i>Bioorganic and Medicinal Chemistry</i> , 2007 , 15, 1615-21	3.4	18
66	Degradation of DNA by bisulfite treatment. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 1912-52.9	14.0	
65	PRODAN-conjugated DNA: synthesis and photochemical properties. <i>Journal of the American Chemical Society</i> , 2007 , 129, 4776-84	16.4	95
64	5-methylcytosine-selective osmium oxidation. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2007 , 26, 1601-4.4	4	
63	Direct labeling of 5-methylcytosine and its applications. <i>Journal of the American Chemical Society</i> , 2007 , 129, 5612-20	16.4	86
62	Artificial Nucleobases for Hole Transport. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2007 , 65, 204-215	0.2	1
61	A Concept of Negative Ion Flow Velocity Measurement Using a Laser Photodetachment Velocimetry (LPDV). <i>Contributions To Plasma Physics</i> , 2006 , 46, 367-372	1.4	9
60	Nile Red nucleoside: design of a solvatofluorochromic nucleoside as an indicator of micropolarity around DNA. <i>Journal of Organic Chemistry</i> , 2006 , 71, 3592-8	4.2	65
59	Sequence-selective osmium oxidation of DNA: efficient distinction between 5-methylcytosine and cytosine. <i>Organic and Biomolecular Chemistry</i> , 2006 , 4, 1638-40	3.9	49
58	DNA hole transport on an electrode: application to effective photoelectrochemical SNP typing. <i>Journal of the American Chemical Society</i> , 2006 , 128, 658-62	16.4	81
57	Electrochemical evaluation of alternating duplex-triplex conversion effect on the anthraquinone-photoinjected hole transport through DNA duplex immobilized on a gold electrode. <i>Journal of the American Chemical Society</i> , 2006 , 128, 692-3	16.4	35
56	Highly selective fluorescent nucleobases for designing base-discriminating fluorescent probes. <i>Pure and Applied Chemistry</i> , 2006 , 78, 2305-2312	2.1	9
55	Simple SNP typing assay using a base-discriminating fluorescent probe. <i>Molecular BioSystems</i> , 2006 , 2, 122-7		49
54	Fluorometric sensing of the salt-induced B-Z DNA transition by combination of two pyrene-labeled nucleobases. <i>Chemical Communications</i> , 2005 , 1128-30	5.8	55
53	A dielectric-sensitive fluorescent DNA probe for monitoring polarities on the interior of a DNA-binding protein. <i>Bioconjugate Chemistry</i> , 2005 , 16, 1105-11	6.3	35

52	Stable, specific, and reversible base pairing via Schiff base. <i>Journal of the American Chemical Society</i> , 2005 , 127, 16681-4	16.4	46
51	Synthesis of Highly Functional Nucleic Acids and Their Application to DNA Technology. <i>Bulletin of the Chemical Society of Japan</i> , 2005 , 78, 2083-2097	5.1	8
50	Design of base-discriminating fluorescent nucleosides. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2005 , 6, 108-122	16.4	175
49	Synthesis and ESR studies of nitronyl nitroxide-tethered oligodeoxynucleotides. <i>Tetrahedron Letters</i> , 2005 , 46, 791-795	2	28
48	Synthesis and properties of purine-type base-discriminating fluorescent (BDF) nucleosides: distinction of thymine by fluorescence-labeled deoxyadenosine derivatives. <i>Tetrahedron Letters</i> , 2005 , 46, 7605-7608	2	30
47	Public-key system using DNA as a one-way function for key distribution. <i>BioSystems</i> , 2005 , 81, 25-9	1.9	73
46	Modulation of base selectivity for a base-discriminating fluorescent nucleobase by addition of mercury ion. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 4279-81	2.9	9
45	Monitoring DNA structures by dual fluorescence of pyrene derivatives. <i>Journal of the American Chemical Society</i> , 2005 , 127, 13128-9	16.4	80
44	Sequence-selective 5-methylcytosine oxidation for epigenotyping. <i>Nucleic Acids Symposium Series</i> , 2005 , 45-6		1
43	Genotyping with hole-transporting DNA self-assembled monolayer. <i>Nucleic Acids Symposium Series</i> , 2005 , 227-8		
42	SNPs typing by base-discriminating fluorescence DNA probe. <i>Nucleic Acids Symposium Series</i> , 2005 , 201-2		
41	Practical formula for Mach number probe diagnostics in weakly magnetized plasmas. <i>Physics of Plasmas</i> , 2005 , 12, 044504	2.1	27
40	Synthesis and fluorescence properties of oligonucleotides containing pyrene-dimethylaniline chromophore. <i>Nucleic Acids Symposium Series</i> , 2004 , 91-2		
39	Electrochemical behavior of gold electrodes modified with photosensitizer-tethered DNA. <i>Nucleic Acids Symposium Series</i> , 2004 , 71-2		
38	Cytosine detection by a fluorescein-labeled probe containing base-discriminating fluorescent nucleobase. <i>ChemBioChem</i> , 2004 , 5, 958-63	3.8	52
37	Synthesis of an artificial hole-transporting nucleoside triphosphate, dMDATP, and its enzymatic incorporation into DNA. <i>Bioorganic and Medicinal Chemistry</i> , 2004 , 12, 5875-80	3.4	15
36	A novel fluorescent guanine derivative distinguishable of three structures, single strand, duplex, and quadruplex. <i>Tetrahedron Letters</i> , 2004 , 45, 6059-6062	2	15
35	Synthesis and properties of novel base-discriminating fluorescent (BDF) nucleosides: a highly polarity-sensitive fluorophore for SNP typing. <i>Tetrahedron Letters</i> , 2004 , 45, 7827-7831	2	32

34	Nitroxide-labeled guanine as an ESR spin probe for structural study of DNA. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 3415-8	2.9	39
33	Pyrene-labeled base-discriminating fluorescent DNA probes for homogeneous SNP typing. <i>Journal of the American Chemical Society</i> , 2004 , 126, 4820-7	16.4	253
32	Photostimulated hole transport through a DNA duplex immobilized on a gold electrode. <i>Journal of the American Chemical Society</i> , 2004 , 126, 14732-3	16.4	70
31	DNA logic gates. <i>Journal of the American Chemical Society</i> , 2004 , 126, 9458-63	16.4	211
30	A nucleobase that releases reporter tags upon DNA oxidation. <i>Journal of the American Chemical Society</i> , 2004 , 126, 416-7	16.4	12
29	Pyrene-labeled oligodeoxynucleotide probe for detecting base insertion by excimer fluorescence emission. <i>Journal of the American Chemical Society</i> , 2004 , 126, 8364-5	16.4	148
28	Base-discriminating fluorescent (BDF) nucleoside: distinction of thymine by fluorescence quenching. <i>Chemical Communications</i> , 2004 , 1704-5	5.8	56
27	Detection of A/G Single Nucleotide Alteration in RNA Using Base-discriminating Fluorescent Oligodeoxynucleotides. <i>Chemistry Letters</i> , 2003 , 32, 684-685	1.7	19
26	Clear distinction of purine bases on the complementary strand by a fluorescence change of a novel fluorescent nucleoside. <i>Journal of the American Chemical Society</i> , 2003 , 125, 4972-3	16.4	117
25	Design of base-discriminating fluorescent nucleoside and its application to t/c SNP typing. <i>Journal of the American Chemical Society</i> , 2003 , 125, 9296-7	16.4	116
24	Rational design of a DNA wire possessing an extremely high hole transport ability. <i>Journal of the American Chemical Society</i> , 2003 , 125, 5066-71	16.4	72
23	Phototriggered Drug Release from Functionalized Oligonucleotides by a Molecular Beacon Strategy. <i>Angewandte Chemie</i> , 2003 , 115, 2606-2608	3.6	18
22	Phototriggered drug release from functionalized oligonucleotides by a molecular beacon strategy. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 2502-4	16.4	49
21	Synthesis and properties of a novel fluorescent nucleobase, naphthopyridopyrimidine. <i>Tetrahedron Letters</i> , 2003 , 44, 6871-6874	2	55
20	P-loop catalytically assisting the enzymatic cleavage of single-stranded DNA. <i>Bioorganic and Medicinal Chemistry</i> , 2003 , 11, 3747-51	3.4	4
19	¹⁵ N NMR study on site-selective binding of metal ions to guanine runs in DNA: a good correlation with HOMO distribution. <i>Journal of the American Chemical Society</i> , 2003 , 125, 1172-3	16.4	14
18	2-Amino-7-deazaadenine forms stable base pairs with cytosine and thymine. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002 , 12, 97-9	2.9	10
17	Oligonucleotides containing 7-vinyl-7-deazaguanine as a facile strategy for expanding the functional diversity of DNA. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002 , 12, 1895-6	2.9	14

16	Unique hole-trapping property of the degenerate base, 2-amino-7-deazaadenine. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002 , 12, 3641-3	2.9	5
15	Modulation of remote DNA oxidation by hybridization with peptide nucleic acids (PNA). <i>Bioorganic and Medicinal Chemistry</i> , 2002 , 10, 713-8	3.4	10
14	A facile incorporation of the aldehyde function into DNA: 3-formylindole nucleoside as an aldehyde-containing universal nucleoside. <i>Tetrahedron Letters</i> , 2002 , 43, 4581-4583	2	26
13	Development of electrochemically gene-analyzing method using DNA-modified electrodes. <i>Nucleic Acids Symposium Series</i> , 2002 , 171-2		
12	Site-specific discrimination of Cytosine and 5-methylcytosine in duplex DNA by Peptide nucleic acids. <i>Journal of the American Chemical Society</i> , 2002 , 124, 10262-3	16.4	42
11	Synthesis and properties of peptide nucleic acids containing a psoralen unit. <i>Organic Letters</i> , 2001 , 3, 925-7	6.2	30
10	Synthesis and duplex stability of oligonucleotides containing 7-vinyl-7-deazaguanine as a strong electron-donating nucleobase. <i>Tetrahedron Letters</i> , 2000 , 41, 10035-10039	2	13
9	Site-selective DNA alkylation of GG steps by naphthaldiimide derivatives possessing enantiomeric epoxide. <i>Organic Letters</i> , 2000 , 2, 3249-51	6.2	8
8	Spezifische Alkylierung von Guanin, das einer Ausbuchtung von einem Nucleotid gegenüberliegt: eine chemische Sonde für DNA-Ausbuchtungen. <i>Angewandte Chemie</i> , 1999 , 111, 3581-3584	3.6	5
7	Specific Alkylation of Guanine Opposite to a Single Nucleotide Bulge: A Chemical Probe for the Bulged Structure of DNA. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 3378-3381	16.4	26
6	Highly Selective DNA Alkylation at the 5' Side G of a 5'GG3' Sequence by an Aglycon Model of Pluramycin Antibiotics through Preferential Intercalation into the GG Step. <i>Journal of the American Chemical Society</i> , 1998 , 120, 11219-11225	16.4	32
5	Synthesis of an ABC Ring Analogue of Kapurimycin A3 as an Effective DNA Alkylating Agent. <i>Angewandte Chemie International Edition in English</i> , 1997 , 36, 2794-2797		16
4	Ein ABC-Ringanalogen von Kapurimycin A3: Synthese und Wirksamkeit in der DNA-Alkylierung. <i>Angewandte Chemie</i> , 1997 , 109, 2881-2883	3.6	4
3	Studies on the mechanism of DNA sequence selective alkylation by kapurimycin A3 analogs. <i>Nucleic Acids Symposium Series</i> , 1997 , 27-8		
2	6-Endo- and 5-exo-digonal cyclizations of o-hydroxyphenyl ethynyl ketones: A key step for highly selective benzopyranone formation. <i>Tetrahedron</i> , 1996 , 52, 9427-9446	2.4	32
1	Highly Efficient Synthesis of 2-Substituted 4H-Chromen-4-ones by means of F ⁻ -Induced 6-Endo-Digonal Cyclization of o-(Silyloxy)phenyl Ethynyl Ketone Derivatives. <i>Journal of Organic Chemistry</i> , 1994 , 59, 4360-4361	4.2	23