

Yoshio Saito

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4502286/publications.pdf>

Version: 2024-02-01

50
papers

1,060
citations

361413

20
h-index

434195

31
g-index

52
all docs

52
docs citations

52
times ranked

621
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of base-discriminating fluorescent nucleosides. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2005, 6, 108-122.	11.6	181
2	Base-discriminating fluorescent (BDF) nucleoside: distinction of thymine by fluorescence quenching. Electronic supplementary information (ESI) available: Experimental procedures for new compounds, UV and excitation spectra. See http://www.rsc.org/suppdata/cc/b4/b405832a/ . <i>Chemical Communications</i> , 2004, , 1704.	4.1	59
3	Base-modified fluorescent purine nucleosides and nucleotides for use in oligonucleotide probes. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2018, 36, 48-73.	11.6	42
4	Pyrene-labeled deoxyguanosine as a fluorescence sensor to discriminate single and double stranded DNA structures: Design of ends free molecular beacons. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 6392-6395.	2.2	40
5	Design of an environmentally sensitive fluorescent 8-aza-7-deaza-2'-deoxyadenosine derivative with dual fluorescence for the specific detection of thymine. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 660-666.	2.8	40
6	Anthracene based base-discriminating fluorescent oligonucleotide probes for SNPs typing: Synthesis and photophysical properties. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 107-113.	3.0	38
7	Design and synthesis of highly solvatochromic fluorescent 2'-deoxyguanosine and 2'-deoxyadenosine analogs. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 1275-1278.	2.2	38
8	An environmentally sensitive fluorescent purine nucleoside that changes emission wavelength upon hybridization. <i>Chemical Communications</i> , 2013, 49, 5684.	4.1	38
9	Synthesis of novel push-pull-type solvatochromic 2'-deoxyguanosine derivatives with longer wavelength emission. <i>Tetrahedron Letters</i> , 2010, 51, 2606-2609.	1.4	34
10	Ends free and self-quenched molecular beacon with pyrene labeled pyrrolocytidine in the middle of the stem. <i>Tetrahedron</i> , 2009, 65, 934-939.	1.9	33
11	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.	1.4	32
12	C8-alkynyl- and alkylamino substituted 2'-deoxyguanosines: a universal linker for nucleic acids modification. <i>Tetrahedron</i> , 2008, 64, 3578-3588.	1.9	31
13	Design of environmentally sensitive fluorescent 2'-deoxyguanosine containing arylethynyl moieties: Distinction of thymine base by base-discriminating fluorescent (BDF) probe. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 2817-2820.	2.2	31
14	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.	1.4	30
15	Singly and doubly labeled base-discriminating fluorescent oligonucleotide probes containing oxo-pyrene chromophore. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 3227-3230.	2.2	30
16	Naphthalene-based environmentally sensitive fluorescent 8-substituted 2'-deoxyadenosines: Application to DNA detection. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 886-892.	2.2	27
17	Design of a novel G-quenched molecular beacon: A simple and efficient strategy for DNA sequence analysis. <i>Chemical Communications</i> , 2007, , 4492.	4.1	26
18	Molecular Design of an Environmentally Sensitive Fluorescent Nucleoside, 3-Deaza-2'-Deoxyadenosine Derivative: Distinguishing Thymine by Probing the DNA Minor Groove. <i>ChemBioChem</i> , 2014, 15, 1638-1644.	2.6	24

#	ARTICLE	IF	CITATIONS
19	Synthesis and photophysical properties of novel push-pull-type solvatochromic 7-deaza-2'-deoxypurine nucleosides. <i>Tetrahedron Letters</i> , 2011, 52, 4726-4729.	1.4	22
20	Synthesis of environmentally sensitive 2'-deoxyguanosine containing solvatochromic pyrene fluorophore. <i>Tetrahedron Letters</i> , 2011, 52, 2359-2361.	1.4	21
21	Synthesis of 8-aza-3,7-dideaza-2'-deoxyadenosines possessing a new adenosine skeleton as an environmentally sensitive fluorescent nucleoside for monitoring the DNA minor groove. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 7459-7468.	2.8	21
22	Dual-labeled oligonucleotide probe for sensing adenosine via FRET: A novel alternative to SNPs genotyping. <i>Chemical Communications</i> , 2007, , 2133.	4.1	18
23	Fluorescence switching of photochromic vinylpyrene-substituted 2'-deoxyguanosine. <i>Tetrahedron Letters</i> , 2009, 50, 1403-1406.	1.4	18
24	Fluorometric detection of adenine in target DNA by exciplex formation with fluorescent 8-arylethynylated deoxyguanosine. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 3723-3726.	2.2	17
25	Synthesis of solvatofluorochromic 7-arylethynylated 7-deaza-2'-deoxyadenosine derivatives: application to the design of environmentally sensitive fluorescent probes forming stable DNA duplexes. <i>Tetrahedron Letters</i> , 2013, 54, 2348-2352.	1.4	17
26	Synthesis and photophysical properties of 8-arylbutadienyl 2'-deoxyguanosines. <i>Tetrahedron Letters</i> , 2011, 52, 491-494.	1.4	16
27	Design and synthesis of 7-naphthyl-8-aza-7-deaza-2'-deoxyadenosines as environmentally sensitive fluorescent nucleosides. <i>Tetrahedron Letters</i> , 2015, 56, 3034-3038.	1.4	16
28	Acridone-labeled Base-discriminating Fluorescence (BDF) Nucleoside: Synthesis and Their Photophysical Properties. <i>Chemistry Letters</i> , 2006, 35, 1182-1183.	1.3	14
29	Design and synthesis of a novel fluorescent benzo[<i>g</i>]imidazo[4,5- <i>c</i>]quinoline nucleoside for monitoring base-pair-induced protonation with cytosine: distinguishing cytosine via changes in the intensity and wavelength of fluorescence. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 3934-3942.	2.8	13
30	The fluorescently responsive 3-(naphthalen-1-ylethynyl)-3-deaza-2'-deoxyguanosine discriminates cytidine via the DNA minor groove. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 7853-7859.	2.8	11
31	C2-substituted 8-aza-7-deaza-2'-deoxyadenosines as environmentally sensitive fluorescent nucleosides for discriminating apurinic/apyrimidinic sites in DNA duplex. <i>Tetrahedron Letters</i> , 2017, 58, 117-120.	1.4	11
32	A fluorescent 3,7-bis-(naphthalen-1-ylethynylated)-2'-deoxyadenosine analogue reports thymidine in complementary DNA by a large emission Stokes shift. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 1496-1507.	2.8	11
33	Fluorescent nucleosides with on/off™ switching function, pH-responsive fluorescent uridine derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 2753-2756.	2.2	10
34	Highly selective fluorescent nucleobases for designing base-discriminating fluorescent probes. <i>Pure and Applied Chemistry</i> , 2006, 78, 2305-2312.	1.9	9
35	Synthesis and photophysical properties of pyrene-labeled 3-deaza-2'-deoxyadenosines comprising a non- π -conjugated linker: fluorescence quenching-based oligodeoxynucleotide probes for thymine identification. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 10540-10547.	2.8	9
36	Stabilization of DNA duplex by 2-substituted adenine as a minor groove modifier. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 7021-7024.	2.2	7

#	ARTICLE	IF	CITATIONS
37	Design and synthesis of environmentally sensitive fluorescent 2-naphthylethynylated 2- ϵ -deoxyadenosines: Detection of target DNA via changes in fluorescence intensity and wavelength. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 684-689.	2.2	7
38	Synthesis and properties of novel base-discriminating fluorescent (BDF) nucleosides. <i>Nucleic Acids Symposium Series</i> , 2005, 49, 153-154.	0.3	3
39	Design of an ultimate quencher free molecular beacon containing pyrrolocytidine-guanine base pair. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 361-362.	0.3	3
40	Synthesis of ethynylpyrene-modified 3-deaza-2- ϵ -deoxyguanosines as environmentally sensitive fluorescent nucleosides: Target DNA-sequence detection via changes in the fluorescence wavelength. <i>Tetrahedron Letters</i> , 2019, 60, 825-830.	1.4	3
41	Design of base-discriminating fluorescent (BDF) nucleobase for SNP typing. <i>Nucleic Acids Symposium Series</i> , 2004, 48, 243-244.	0.3	2
42	2-Ethynyl-naphthalene-modified 8-aza-3,7-dideaza-2- ϵ -deoxyadenosine derivative discriminates thymine in target DNA via changes in the fluorescence wavelength. <i>Tetrahedron Letters</i> , 2020, 61, 151841.	1.4	2
43	FRET-based dual-labeled oligonucleotide probes detect target DNA by probing a minor groove environment. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 1699-1706.	2.8	2
44	Synthesis and properties of acridone-labeled base-discriminating fluorescent (BDF) nucleosides. <i>Nucleic Acids Symposium Series</i> , 2006, 50, 181-182.	0.3	1
45	Fluorometric sensing of conformational switching of DNA; The use of fluorescence labeled C8-alkylamino substituted 2'-deoxyguanosine. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 357-358.	0.3	1
46	Design of an efficient self-quenched molecular beacon for SNPs genotyping. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 359-360.	0.3	1
47	Design of dual-labeled oligonucleotide probes for SNPs genotyping. <i>Nucleic Acids Symposium Series</i> , 2007, 51, 23-24.	0.3	0
48	Synthesis of C8-alkylamino substituted 2'-deoxyguanosine. <i>Nucleic Acids Symposium Series</i> , 2007, 51, 147-148.	0.3	0
49	Photo-switching of vinylpyrene-substituted 2'-deoxyguanosine and its application. <i>Nucleic Acids Symposium Series</i> , 2009, 53, 193-194.	0.3	0
50	Fluorescent Purine Nucleosides and Their Applications. <i>Nucleic Acids and Molecular Biology</i> , 2016, , 27-61.	0.2	0