Satoshi Ichikawa

List of Publications by Year
in descending order

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100 papers	2,657 citations	159585 30 h-index	214800 47 g-index
122 all docs	122 docs citations	122 times ranked	2015 citing authors

#	Article	IF	Citations
1	Fundamental Role of the Fostriecin Unsaturated Lactone and Implications for Selective Protein Phosphatase Inhibition. Journal of the American Chemical Society, 2003, 125, 15694-15695.	13.7	110
2	Total Synthesis of Fostriecin (CI-920). Journal of the American Chemical Society, 2001, 123, 4161-4167.	13.7	109
3	GlcNAc-1-P-transferaseâ€“tunicamycin complex structure reveals basis for inhibition of N-glycosylation. Nature Structural and Molecular Biology, 2018, 25, 217-224.	8.2	104
4	Total Synthesis of Caprazol, a Core Structure of the Caprazamycin Antituberculosis Antibiotics. Angewandte Chemie - International Edition, 2005, 44, 1854-1856.	13.8	100
5	Structural insights into inhibition of lipid I production in bacterial cell wall synthesis. Nature, 2016, 533, 557-560.	27.8	96
6	Synthesis of Caprazamycin Analogues and Their Structureâ^'Activity Relationship for Antibacterial Activity. Journal of Organic Chemistry, 2008, 73, 569-577.	3.2	87
7	The First Synthesis of Herbicidin B. Stereoselective Construction of the Tricyclic Undecose Moiety by a Conformational Restriction Strategy Using Steric Repulsion between Adjacent Bulky Silyl Protecting Groups on a Pyranose Ringâ€. Journal of the American Chemical Society, 1999, 121, 10270-10280.	13.7	86
8	Total Synthesis of (â^')-Muraymycin D2 and Its Epimer. Journal of Organic Chemistry, 2010, 75, 1366-1377.	3.2	85
9	Development of a Highly Î²-Selective Ribosylation Reaction without Using Neighboring Group Participation:â€‰ Total Synthesis of (+)-Caprazol, a Core Structure of Caprazamycins. Journal of Organic Chemistry, 2007, 72, 9936-9946.	3.2	79
10	Function-Oriented Synthesis of Simplified Caprazamycins: Discovery of Oxazolidine-Containing Uridine Derivatives as Antibacterial Agents against Drug-Resistant Bacteria. Journal of Medicinal Chemistry, 2010, 53, 3793-3813.	6.4	79
11	Mechanistic Analysis of Muraymycin Analogues: A Guide to the Design of MraY Inhibitors. Journal of Medicinal Chemistry, 2011, 54, 8421-8439.	6.4	79
12	Triazole-Linked Dumbbell Oligodeoxynucleotides with NF-ÎºB Binding Ability as Potential Decoy Molecules. Journal of Organic Chemistry, 2008, 73, 1842-1851.	3.2	71
13	Synthesis and Biological Evaluation of Muraymycin Analogues Active against Anti-Drug-Resistant Bacteria. ACS Medicinal Chemistry Letters, 2010, 1, 258-262.	2.8	63
14	Stereo- and Regioselective Introduction of 1- or 2-Hydroxyethyl Group via Intramolecular Radical Cyclization Reaction with a Novel Silicon-Containing Tether. An Efficient Synthesis of 4â€²Î±-Branched 2â€²-Deoxyadenosines1. Journal of Organic Chemistry, 1998, 63, 746-754.	3.2	59
15	Structureâ€“activity relationship of truncated analogs of caprazamycins as potential anti-tuberculosis agents. Bioorganic and Medicinal Chemistry, 2008, 16, 5123-5133.	3.0	57
16	Chemical logic of MraY inhibition by antibacterial nucleoside natural products. Nature Communications, 2019, 10, 2917.	12.8	49
17	The First Radical Method for the Introduction of an Ethynyl Group Using a Silicon Tether and Its Application to the Synthesis of 2â€²-Deoxy-2â€²-C-ethynylnucleosides1. Journal of Organic Chemistry, 2003, 68, 3465-3475.	3.2	48
18	Design and synthesis of diketopiperazine and acyclic analogs related to the caprazamycins and liposidomycins as potential antibacterial agents. Bioorganic and Medicinal Chemistry, 2008, 16, 428-436.	3.0	47

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19	A Novel Ring-Enlargement Reaction of (3-Oxa-2-silacyclopentyl)methyl Radicals into 4-Oxa-3-silacyclohexyl Radicals. Stereoselective Introduction of a Hydroxyethyl GroupviaUnusual 6-Endo-Cyclization Products Derived from 3-Oxa-4-silahexenyl Radicals and Its Application to the Synthesis of a 4â€˜-Î±-Branched Nucleoside1. Journal of Organic Chemistry, 1997, 62, 5676-5677.	3.2	46
20	Total Syntheses of Thiocoraline and BE-22179:Â Establishment of Relative and Absolute Stereochemistry. Journal of the American Chemical Society, 2000, 122, 2956-2957.	13.7	40
21	Antibacterial Nucleoside Natural Products Inhibiting Phospho-MurNAc-Pentapeptide Translocase; Chemistry and Structure-Activity Relationship.. Current Medicinal Chemistry, 2015, 22, 3951-3979.	2.4	39
22	Expansion of Antibacterial Spectrum of Muraymycins toward Pseudomonas aeruginosa. ACS Medicinal Chemistry Letters, 2014, 5, 556-560.	2.8	38
23	Revisited Mechanistic Implications of the JoulliÃ©â€“Ugi Three-Component Reaction. Organic Letters, 2016, 18, 2552-2555.	4.6	36
24	Total Synthesis of Tunicamycin V. Organic Letters, 2018, 20, 256-259.	4.6	36
25	Nucleosides and Nucleotides. 163. Synthesis of 3â€˜-Î²-Branched Uridine Derivatives via Intramolecular Reformatsky-Type Reaction Promoted by Samarium Diiodide1. Journal of Organic Chemistry, 1997, 62, 1368-1375.	3.2	34
26	A New Arylsulfate Sulfotransferase Involved in Liponucleoside Antibiotic Biosynthesis in Streptomycetes. Journal of Biological Chemistry, 2010, 285, 12684-12694.	3.4	34
27	Nucleoside natural products and related analogs with potential therapeutic properties as antibacterial and antiviral agents. Expert Opinion on Therapeutic Patents, 2007, 17, 487-498.	5.0	32
28	Total Synthesis of Pacidamycin D by Cu(I)-Catalyzed Oxy Enamide Formation. Organic Letters, 2011, 13, 5240-5243.	4.6	32
29	Synthesis of Pyrimidine 2â€˜-Deoxy Ribonucleosides Branched at the 2â€˜-Position via Radical Atom-Transfer Cyclization Reaction with a Vinylsilyl Group as a Radical-Acceptor Tether1. Journal of Organic Chemistry, 2000, 65, 8988-8996.	3.2	31
30	Carbacaprazamycins: Chemically Stable Analogues of the Caprazamycin Nucleoside Antibiotics. ACS Infectious Diseases, 2015, 1, 151-156.	3.8	31
31	Total synthesis of (+)-FR-900493 and establishment of its absolute stereochemistry. Tetrahedron, 2007, 63, 2798-2804.	1.9	30
32	A Highly Stereoselective Samarium Diiodide-Promoted Aldol Reaction with 1â€˜-Phenylseleno-2â€˜-keto Nucleosides. Synthesis of 1â€˜Î±-Branched Uridine Derivatives. Journal of Organic Chemistry, 2002, 67, 7706-7715.	3.2	29
33	Total Synthesis and Biological Evaluation of Pacidamycin D and Its 3â€²-Hydroxy Analogue. Journal of Organic Chemistry, 2012, 77, 1367-1377.	3.2	29
34	Fine Synthetic Nucleoside Chemistry Based on Nucleoside Natural Products Synthesis. Chemical and Pharmaceutical Bulletin, 2008, 56, 1059-1072.	1.3	28
35	Synthesis of isoxazolidine-containing uridine derivatives as caprazamycin analogues. Organic and Biomolecular Chemistry, 2015, 13, 1187-1197.	2.8	27
36	Function-Oriented Synthesis: How to Design Simplified Analogues of Antibacterial Nucleoside Natural Products?. Chemical Record, 2016, 16, 1106-1115.	5.8	25

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37	A novel aldol-type C-glycosidation reaction promoted by samarium diiodide. Regioselective generation of a ulose-1-enolate from phenyl 3,4,6-tri-O-benzyl-1-thio-Î²-d-arabino-hexopyranosid-2-ulose. Tetrahedron Letters, 1998, 39, 4525-4528.	1.4	24
38	Synthesis ofl-epi-Capreomycidine Derivatives via Câ€“H Amination. Organic Letters, 2011, 13, 4028-4031.	4.6	22
39	Total Synthesis of Syringolinâ€…A and Improvement of Its Biological Activity. Angewandte Chemie - International Edition, 2014, 53, 4836-4839.	13.8	21
40	Total Synthesis of Plusbacin A₃ and Its Dideoxy Derivative Using a Solvent-Dependent Diastereodivergent JoulliÃ©â€“Ugi Three-Component Reaction. Journal of Organic Chemistry, 2018, 83, 7085-7101.	3.2	21
41	Ribavirin-related compounds exert in vitro inhibitory effects toward rabies virus. Antiviral Research, 2018, 154, 1-9.	4.1	21
42	Development of the Carboxamide Protecting Group, 4-(tert-Butyldimethylsiloxy)-2-methoxybenzyl. Journal of Organic Chemistry, 2011, 76, 9278-9293.	3.2	20
43	Synthesis of C-Glycosyl Pyrrolo[3,4-c]carbazole-1,3(2H,6H)-diones as a Scaffold for Check Point Kinase 1 Inhibitors. Journal of Organic Chemistry, 2013, 78, 12065-12075.	3.2	20
44	A New Entry to the Stereoselective Introduction of an Ethynyl Group by a Radical Reaction: Synthesis of the Potential Antimetabolite 2â€²-Deoxy-2â€²-C-ethynyluridine. Angewandte Chemie - International Edition, 2002, 41, 4748-4750.	13.8	19
45	Synthesis of Tunicaminyluracil Derivatives. Nucleosides, Nucleotides and Nucleic Acids, 2004, 23, 239-253.	1.1	19
46	Highly Î²-Selective C-Allylation of a Ribofuranoside Controlling Steric Hindrance in the Transition State. Organic Letters, 2008, 10, 5107-5110.	4.6	19
47	Synthesis of pacidamycin analogues via an Ugi-multicomponent reaction. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 4810-4815.	2.2	19
48	Total Synthesis and Antibacterial Investigation of Plusbacin A₃. Organic Letters, 2017, 19, 3771-3774.	4.6	19
49	Tunicamycin: chemical synthesis and biosynthesis. Journal of Antibiotics, 2019, 72, 924-933.	2.0	18
50	Modular Bent DNAs:Â A New Class of Artificial DNAs with a Protein Binding Abilityâ€. Journal of the American Chemical Society, 2007, 129, 10300-10301.	13.7	17
51	Tris(azidoethyl)amine Hydrochloride; a Versatile Reagent for Synthesis of Functionalized Dumbbell Oligodeoxynucleotides. Organic Letters, 2013, 15, 694-697.	4.6	17
52	Synthesis of galactose-linked uridine derivatives with simple linkers as potential galactosyltransferase inhibitors. Tetrahedron, 2005, 61, 5837-5842.	1.9	16
53	Synthetic study of muraymycins using Ugi-four component reaction. Nucleic Acids Symposium Series, 2008, 52, 557-558.	0.3	16
54	Total Synthesis of Quinaldopeptin and Its Analogues. Journal of Organic Chemistry, 2013, 78, 12662-12670.	3.2	16

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55	SYNTHESIS OF COMPLEX NUCLEOSIDE ANTIBIOTICS. Nucleosides, Nucleotides and Nucleic Acids, 2005, 24, 319-329.	1.1	15
56	Design, synthesis and biological evaluation of 5â€²-C-piperidinyl-5â€²-O-aminoribosyluridines as potential antibacterial agents. Organic and Biomolecular Chemistry, 2015, 13, 7720-7735.	2.8	15
57	Synthesis of Hsp90 inhibitor dimers as potential antitumor agents. Bioorganic and Medicinal Chemistry, 2008, 16, 5862-5870.	3.0	12
58	Structural requirement of tunicamycin V for MraY inhibition. Bioorganic and Medicinal Chemistry, 2019, 27, 1714-1719.	3.0	12
59	Functionâ€Oriented Synthesis of Liponucleoside Antibiotics. European Journal of Organic Chemistry, 2014, 2014, 1836-1840.	2.4	11
60	Design, Synthesis, and Biological Activity of Isosyringolin A. Organic Letters, 2016, 18, 2312-2315.	4.6	11
61	Synthesis of 3â€²-Î²-carbamoylmethylcytidine (CAMC) and its derivatives as potential antitumor agents. Organic and Biomolecular Chemistry, 2006, 4, 1284.	2.8	10
62	Structural Feature of Bent DNA Recognized by HMGB1. Journal of the American Chemical Society, 2011, 133, 5788-5790.	13.7	10
63	Synthesis and Medicinal Chemistry of Muraymycins, Nucleoside Antibiotics. Chemical and Pharmaceutical Bulletin, 2018, 66, 123-131.	1.3	10
64	Solid-Phase Modular Synthesis of Park Nucleotide and Lipids I and II Analogues. Chemical and Pharmaceutical Bulletin, 2018, 66, 84-95.	1.3	10
65	Study of the structure-activity relationship of polymyxin analogues. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 2713-2716.	2.2	10
66	Design and synthesis of 3â€²,5â€²-ansa-adenosines as potential Hsp90 inhibitors. Tetrahedron Letters, 2009, 50, 5102-5106.	1.4	9
67	Structureâ€“activity relationship study of syringolin A as a potential anticancer agent. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 4872-4877.	2.2	9
68	Chemical Screening Identifies EUrd as a Novel Inhibitor Against Temozolomide-Resistant Glioblastoma-Initiating Cells. Stem Cells, 2016, 34, 2016-2025.	3.2	9
69	Mechanismâ€Based Inhibitor of DNA Cytosineâ€5 Methyltransferase by a S_NAr Reaction with an Oligodeoxyribonucleotide Containing a 2â€Aminoâ€4â€Halopyridineâ€Câ€Nucleoside. ChemBioChem, 2018, 19, 865-872.	2.6	9
70	A Synthesis Strategy for the Production of a Macrolactone of Gulmirecin A via a Ni(0)-Mediated Reductive Cyclization Reaction. Organic Letters, 2020, 22, 2697-2701.	4.6	9
71	An oligodeoxyribonucleotide containing 5-formyl-2â€²-deoxycytidine (fC) at the CpG site forms a covalent complex with DNA cytosine-5 methyltransferases (DNMTs). Bioorganic and Medicinal Chemistry Letters, 2016, 26, 5395-5398.	2.2	7
72	Total Synthesis of Echinomycin and Its Analogues. Organic Letters, 2020, 22, 4217-4221.	4.6	7

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73	Potent anti-tumor activity of a syringolin analog in multiple myeloma: a dual inhibitor of proteasome activity targeting Î²2 and Î²5 subunits. Oncotarget, 2018, 9, 9975-9991.	1.8	7
74	Synthesis and evaluation of 5-substituted 9-hydroxypyrrolo[3,4-c]carbazole-1,3(2H,6H)-diones as check point 1 kinase inhibitors. Bioorganic and Medicinal Chemistry, 2010, 18, 7878-7889.	3.0	6
75	Elucidating the Structural Requirement of Uridylpeptide Antibiotics for Antibacterial Activity. Journal of Medicinal Chemistry, 2020, 63, 9803-9827.	6.4	6
76	Solid-phase synthesis of fluorescent analogues of Parkâ€™s nucleotide, lipid I and lipid II. Tetrahedron Letters, 2021, 73, 153101.	1.4	6
77	Design, synthesis and biological evaluation of simplified analogues of MraY inhibitory natural product with rigid scaffold. Bioorganic and Medicinal Chemistry, 2022, 55, 116556.	3.0	6
78	Impact of the structures of macrocyclic Michael acceptors on covalent proteasome inhibition. Chemical Science, 2017, 8, 6959-6963.	7.4	5
79	Synthesis of All Stereoisomers of Monomeric Spectomycin A1/A2 and Evaluation of Their Protein SUMOylationâ€Inhibitory Activity. Chemistry - A European Journal, 2019, 25, 8387-8392.	3.3	5
80	Chemistry and Structure-Activity Relationship of Antibacterial Nucleoside Natural Products. Nucleic Acids Symposium Series, 2008, 52, 77-78.	0.3	4
81	Stereoselective Glycosylation Based on the Conformational Restriction of Pyranoses. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2008, 66, 50-60.	0.1	4
82	Efficient synthesis of Hsp90 inhibitor dimers as potential antitumor agents. Bioorganic and Medicinal Chemistry, 2010, 18, 5732-5737.	3.0	4
83	Design, synthesis and conformation-activity relationship analysis of LNA/BNA-type 5â€²-O-aminoribosyluridine as MraY inhibitors. Bioorganic and Medicinal Chemistry, 2022, 65, 116744.	3.0	4
84	Design, Synthesis and Biological Evaluation of a Structurally Simplified Syringolin A Analogues. Chemical and Pharmaceutical Bulletin, 2016, 64, 811-816.	1.3	3
85	Improvement of S N Ar Reaction Rate by an Electronâ€Withdrawing Group in the Crosslinking of DNA Cytosineâ€5 Methyltransferase by a Covalent Oligodeoxyribonucleotide Inhibitor. ChemBioChem, 2018, 19, 1866-1872.	2.6	3
86	Synthesis and biological evaluation of a MraY selective analogue of tunicamycins. Nucleosides, Nucleotides and Nucleic Acids, 2020, 39, 349-364.	1.1	3
87	Structure, solubility, and permeability relationships in a diverse middle molecule library. Bioorganic and Medicinal Chemistry Letters, 2021, 37, 127847.	2.2	3
88	Development of Antibacterial Agents Active against Drug-resistant Bacterial Pathogens Based on Total Synthesis of Nucleoside Natural Products. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2011, 69, 1020-1033.	0.1	3
89	Solid-Phase Total Synthesis of Plusbacin A₃. Organic Letters, 2022, 24, 2253-2257.	4.6	3
90	Total synthesis of pseudouridimycin and its epimer via Ugi-type multicomponent reaction. Chemical Communications, 2022, 58, 7956-7959.	4.1	3

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91	NMR studies of DNA recognition mechanism of HMGB1 protein. Nucleic Acids Symposium Series, 2009, 53, 89-90.	0.3	2
92	Novel adenosine-derived inhibitors of Cryptosporidium parvum inosine 5â€²-monophosphate dehydrogenase. Journal of Antibiotics, 2019, 72, 934-942.	2.0	2
93	Total Synthesis of Acaulide and Acaulone A. Organic Letters, 2020, 22, 5545-5549.	4.6	2
94	Repair of DNA damage induced by the novel nucleoside analogue CNDAG through homologous recombination. Cancer Chemotherapy and Pharmacology, 2020, 85, 661-672.	2.3	2
95	Natural Product Synthesis by Multicomponent Reaction and Structure-activity Relationship Study. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2016, 74, 426-440.	0.1	2
96	NMR structural study of DNA oligomers containing alkylene crosslinked cyclic 2'-deoxyuridylate dimers. Nucleic Acids Symposium Series, 2008, 52, 181-182.	0.3	1
97	9-(2-C-Cyano-2-deoxy-Â-D-arabino-pentofuranosyl)guanine, a potential antitumor agent against B-lymphoma infected with kaposi's sarcoma-associated herpesvirus. Nucleic Acids Symposium Series, 2009, 53, 95-96.	0.3	1
98	Insight into the recognition mechanism of DNA cytosine-5 methyltransferases (DNMTs) by incorporation of acyclic 5-fluorocytosine (FC) nucleosides into DNA. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 2189-2194.	2.2	1
99	Divergent synthesis of kinase inhibitor derivatives, leading to discovery of selective Gck inhibitors. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 2144-2147.	2.2	0
100	Development of cyclic peptide derivatives from the N-terminal region of LANA for targeting the nucleosome acidic patch. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 126839.	2.2	0