

Shinya Hagihara

List of Publications by Year in descending order

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54
papers

2,001
citations

279487

23
h-index

253896

43
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58
all docs

58
docs citations

58
times ranked

2429
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing strigolactone receptors in <i>Striga hermonthica</i> with fluorescence. <i>Science</i> , 2015, 349, 864-868.	6.0	230
2	Rapid and reversible root growth inhibition by TIR1 auxin signalling. <i>Nature Plants</i> , 2018, 4, 453-459.	4.7	198
3	Small-molecule ligand induces nucleotide flipping in (CAG) _n trinucleotide repeats. <i>Nature Chemical Biology</i> , 2005, 1, 39-43.	3.9	156
4	Making Dimethylamino a Transformable Directing Group by Nickel-Catalyzed C–N Borylation. <i>Chemistry - A European Journal</i> , 2015, 21, 16796-16800.	1.7	110
5	Chemical hijacking of auxin signaling with an engineered auxin–TIR1 pair. <i>Nature Chemical Biology</i> , 2018, 14, 299-305.	3.9	107
6	Cell-based screen identifies a new potent and highly selective CK2 inhibitor for modulation of circadian rhythms and cancer cell growth. <i>Science Advances</i> , 2019, 5, eaau9060.	4.7	93
7	Detection of guanine-adenine mismatches by surface plasmon resonance sensor carrying naphthyridine-azaquinolone hybrid on the surface. <i>Nucleic Acids Research</i> , 2004, 32, 278-286.	6.5	79
8	Boronic Acid Converters for Reactive Hydrazone Amplifiers: Polyphenol Sensing in Green Tea with Synthetic Pores. <i>Journal of the American Chemical Society</i> , 2008, 130, 5656-5657.	6.6	77
9	Induction of a Remarkable Conformational Change in a Human Telomeric Sequence by the Binding of Naphthyridine Dimer: Inhibition of the Elongation of a Telomeric Repeat by Telomerase. <i>Journal of the American Chemical Society</i> , 2003, 125, 662-666.	6.6	65
10	Structural approaches to the study of oligosaccharides in glycoprotein quality control. <i>Current Opinion in Structural Biology</i> , 2005, 15, 481-489.	2.6	61
11	Isoform-selective regulation of mammalian cryptochromes. <i>Nature Chemical Biology</i> , 2020, 16, 676-685.	3.9	61
12	Aromatic C–H Borylation by Nickel Catalysis. <i>Chemistry Letters</i> , 2015, 44, 779-781.	0.7	60
13	Screening of π -Basic Naphthalene and Anthracene Amplifiers for π -Acidic Synthetic Pore Sensors. <i>Journal of the American Chemical Society</i> , 2008, 130, 4347-4351.	6.6	41
14	Thermodynamic Analysis of Interactions between N-Linked Sugar Chains and F-Box Protein Fbs1. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 3126-3129.	2.9	38
15	Chloroplast Autophagy and Ubiquitination Combine to Manage Oxidative Damage and Starvation Responses. <i>Plant Physiology</i> , 2020, 183, 1531-1544.	2.3	38
16	Autophagy Contributes to the Quality Control of Leaf Mitochondria. <i>Plant and Cell Physiology</i> , 2021, 62, 229-247.	1.5	37
17	Alteration of cross-linking selectivity with the 2-OMe analogue of 2-amino-6-vinylpurine and evaluation of antisense effects. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 6121-6124.	1.0	32
18	A super-sensitive auxin-inducible degron system with an engineered auxin-TIR1 pair. <i>Nucleic Acids Research</i> , 2020, 48, e108-e108.	6.5	32

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19	Fluorescently labeled inhibitor for profiling cytoplasmic peptide:N-glycanase. <i>Glycobiology</i> , 2007, 17, 1070-1076.	1.3	31
20	Discovery of Shoot Branching Regulator Targeting Strigolactone Receptor DWARF14. <i>ACS Central Science</i> , 2018, 4, 230-234.	5.3	29
21	Design and Synthesis of Oligosaccharides that Interfere with Glycoprotein Quality-control systems. <i>ChemBioChem</i> , 2005, 6, 2281-2289.	1.3	28
22	Discovery of synthetic small molecules that enhance the number of stomata: C ¹³ H functionalization chemistry for plant biology. <i>Chemical Communications</i> , 2017, 53, 9632-9635.	2.2	28
23	Synthesis of fluorine substituted oligosaccharide analogues of monoglucosylated glycan chain, a proposed ligand of lectin-chaperone calreticulin and calnexin. <i>Glycoconjugate Journal</i> , 2004, 21, 257-266.	1.4	25
24	A Super Strong Engineered Auxin-TIR1 Pair. <i>Plant and Cell Physiology</i> , 2018, 59, 1538-1544.	1.5	25
25	Selective Intercalation of Charge Neutral Intercalators into GG and CG Steps: Implication of HOMO-LUMO Interaction for Sequence-Selective Drug Intercalation into DNA. <i>Journal of the American Chemical Society</i> , 2001, 123, 5695-5702.	6.6	23
26	Production of truncated protein by the crosslink formation of mRNA with 2'-OMe oligoribonucleotide containing 2-amino-6-vinylpurine. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 3870-3872.	1.0	20
27	The Crosslink Formation of 2'-OMe Oligonucleotide Containing 2-Amino-6-vinylpurine Protects mRNA from miRNA-Mediated Silencing. <i>ChemBioChem</i> , 2013, 14, 1427-1429.	1.3	20
28	Key Structural Elements of Unsymmetrical Cyanine Dyes for Highly Sensitive Fluorescence Turn-On DNA Probes. <i>Chemistry - an Asian Journal</i> , 2017, 12, 233-238.	1.7	19
29	Assessment of the sequence dependency for the binding of 2-aminonaphthyridine to the guanine bulge. <i>Bioorganic and Medicinal Chemistry</i> , 2003, 11, 2347-2353.	1.4	18
30	Mitophagy in plants. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021, 1865, 129916.	1.1	17
31	Evaluation of mismatch-binding ligands as inhibitors for Rev-RRE interaction. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 5384-5388.	1.4	15
32	Analysis of ER-associated glycoprotein degradation using synthetic glycopeptide probes. <i>Biochemical and Biophysical Research Communications</i> , 2007, 360, 357-362.	1.0	15
33	Hydrazinoanthrylboronic acids as exciton-coupled circular dichroism (ECCD) probes for multivalent catechols, particularly epigallocatechin gallate. <i>Chirality</i> , 2009, 21, 826-835.	1.3	15
34	Discovery of Plant Growth Stimulants by C ¹³ H Arylation of 2-Azahypoxanthine. <i>Organic Letters</i> , 2018, 20, 5684-5687.	2.4	15
35	Synthesis of peptide-conjugated light-driven molecular motors and evaluation of their DNA-binding properties. <i>Molecular BioSystems</i> , 2013, 9, 969.	2.9	14
36	Site Selective Formation of Thymine Glycol-Containing Oligodeoxynucleotides by Oxidation with Osmium Tetroxide and Bipyridine-Tethered Oligonucleotide. <i>Journal of the American Chemical Society</i> , 2000, 122, 6309-6310.	6.6	13

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37	Signal amplification by conjugate addition for differential sensing with synthetic pores. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 2259.	1.5	13
38	Development of the crosslinking reactions to RNA triggered by oxidation. <i>Chemical Communications</i> , 2014, 50, 3951-3954.	2.2	12
39	Harnessing synthetic chemistry to probe and hijack auxin signaling. <i>New Phytologist</i> , 2018, 220, 417-424.	3.5	12
40	Synthesis of glycoprotein molecular probes for the analyses of protein quality control system. <i>Glycoconjugate Journal</i> , 2004, 21, 69-74.	1.4	11
41	Systematic synthesis and inhibitory activity of haloacetamidyl oligosaccharide derivatives toward cytoplasmic peptide:N-glycanase. <i>Glycoconjugate Journal</i> , 2009, 26, 133-140.	1.4	10
42	The dynamics of strigolactone perception in <i>Striga hermonthica</i> : a working hypothesis. <i>Journal of Experimental Botany</i> , 2018, 69, 2281-2290.	2.4	10
43	Synthesis and Properties of 2'-OMe-RNAs Modified with Cross-Linkable 7-Deazaguanosine Derivatives. <i>Journal of Organic Chemistry</i> , 2018, 83, 8851-8862.	1.7	9
44	Dissecting plant hormone signaling with synthetic molecules: perspective from the chemists. <i>Current Opinion in Plant Biology</i> , 2019, 47, 32-37.	3.5	9
45	Small-Molecule Binding to the Nonquadruplex Form of the Human Telomeric Sequence. <i>ChemBioChem</i> , 2007, 8, 723-726.	1.3	7
46	Synthesis of 6-amino-2-vinylpurine derivatives for cross-linking and evaluation of the reactivity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 6957-6961.	1.0	6
47	Development of 1,8-naphthalimide dyes for rapid imaging of subcellular compartments in plants. <i>Chemical Communications</i> , 2022, 58, 1685-1688.	2.2	5
48	Development of potent inhibitors for strigolactone receptor DWARF 14. <i>Chemical Communications</i> , 2020, 56, 14917-14919.	2.2	3
49	Exploration of oligosaccharide-protein interactions in glycoprotein quality control by synthetic approaches. <i>Chemical Record</i> , 2006, 6, 290-302.	2.9	2
50	Artificial tongues and leaves. <i>Pure and Applied Chemistry</i> , 2008, 80, 1873-1882.	0.9	2
51	Recognition of DNA mismatch structures. <i>Nucleic Acids Symposium Series</i> , 2002, 2, 127-128.	0.3	1
52	High-throughput Assay for Quantification of Aminoglycoside-Ribosome Interaction. <i>Chemistry Letters</i> , 2016, 45, 1048-1050.	0.7	1
53	Functional Analysis of Glycoprotein Oligosaccharide through Synthetic Organic Chemistry. Yuki Gosei Kagaku Kyokaiishi/ <i>Journal of Synthetic Organic Chemistry</i> , 2006, 64, 492-501.	0.0	1
54	Strigolactone receptors in <i>Striga hermonthica</i> . <i>Plant Morphology</i> , 2017, 29, 33-37.	0.1	0