

Hirokazu Arimoto

List of Publications by Year in descending order

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84
papers

8,864
citations

218677

26
h-index

60623

81
g-index

106
all docs

106
docs citations

106
times ranked

16853
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective autophagy as the basis of autophagy-based degraders. <i>Cell Chemical Biology</i> , 2021, 28, 1061-1071.	5.2	20
2	Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
3	Targeting selective autophagy by AUTAC degraders. <i>Autophagy</i> , 2020, 16, 765-766.	9.1	50
4	AUTACs: Cargo-Specific Degradors Using Selective Autophagy. <i>Molecular Cell</i> , 2019, 76, 797-810.e10.	9.7	319
5	8-Nitro-cGMP: A Novel Protein-Reactive cNMP and Its Emerging Roles in Autophagy. <i>Handbook of Experimental Pharmacology</i> , 2017, 238, 253-268.	1.8	6
6	Deciphering the mode of action of cell wall-inhibiting antibiotics using metabolic labeling of growing peptidoglycan in <i>Streptococcus pyogenes</i> . <i>Scientific Reports</i> , 2017, 7, 1129.	3.3	24
7	Endothelial cells are intrinsically defective in xenophagy of <i>Streptococcus pyogenes</i> . <i>PLoS Pathogens</i> , 2017, 13, e1006444.	4.7	26
8	Novel blood-brain barrier-permeable spin probe for in vivo electron paramagnetic resonance imaging. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 4947-4949.	2.2	10
9	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
10	Strategies for construction of the all-carbon macrocyclic skeleton of the ansamycin antibiotic kendomycin. <i>Journal of Antibiotics</i> , 2016, 69, 203-212.	2.0	8
11	Roles of 8-nitro-cGMP in autophagy regulation. <i>BMC Pharmacology & Toxicology</i> , 2015, 16, .	2.4	0
12	Enantioselective Total Synthesis of Pinnaic Acid and Halichlorine. <i>Chemistry - an Asian Journal</i> , 2014, 9, 367-375.	3.3	33
13	Synthesis of ¹⁵ N-labeled 4-oxo-2,2,6,6-tetraethylpiperidine nitroxide for EPR brain imaging. <i>Tetrahedron Letters</i> , 2014, 55, 2146-2149.	1.4	10
14	Total Synthesis of the Antibiotic Kendomycin: A Macrocyclization Using the Tsuji-Trost Etherification. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4213-4216.	13.8	17
15	Unexpected dehomologation of primary alcohols to one-carbon shorter carboxylic acids using o-iodoxybenzoic acid (IBX). <i>Chemical Communications</i> , 2014, 50, 2758-2761.	4.1	17
16	Binding properties of antimicrobial agents to dipeptide terminal of lipid II using surface plasmon resonance. <i>Analytical Biochemistry</i> , 2014, 452, 67-75.	2.4	8
17	Binding Properties of Antimicrobial Agents to Lipid Membranes Using Surface Plasmon Resonance. <i>Biological and Pharmaceutical Bulletin</i> , 2014, 37, 1383-1389.	1.4	4
18	Endogenous Nitrated Nucleotide Is a Key Mediator of Autophagy and Innate Defense against Bacteria. <i>Molecular Cell</i> , 2013, 52, 794-804.	9.7	96

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19	Fluorescent Probes for Live Cell Imaging of Endogenous Guanine Nitration. <i>ChemBioChem</i> , 2013, 14, 1068-1071.	2.6	4
20	Simultaneous Imaging of an Enantiomer Pair by Electron Paramagnetic Resonance Using Isotopic Nitrogen Labeling. <i>Analytical Chemistry</i> , 2013, 85, 985-990.	6.5	5
21	<i><i>Staphylococcus aureus</i> Penicillin-Binding Protein...2 Can Use Depsi-Lipid...II Derived from Vancomycin-Resistant Strains for Cell Wall Synthesis. <i>Chemistry - A European Journal</i>, 2013, 19, 12104-12112.</i>	3.3	7
22	Recent insights into natural venoms. <i>Pure and Applied Chemistry</i> , 2012, 84, 1297-1315.	1.9	4
23	Mapping of a lipoglycopeptide antibiotic binding site on <i>Staphylococcus aureus</i> penicillin-binding protein 2 using a vancomycin photoaffinity analogue. <i>MedChemComm</i> , 2012, 3, 691.	3.4	1
24	Elucidation of the Active Conformation of Vancomycin Dimers with Antibacterial Activity against Vancomycin-Resistant Bacteria. <i>Chemistry - A European Journal</i> , 2012, 18, 12681-12689.	3.3	11
25	Nitric oxide promotes recycling of 8-nitro-cGMP, a cytoprotective mediator, into intact cGMP in cells. <i>Molecular BioSystems</i> , 2012, 8, 2909.	2.9	9
26	Chemical Approaches for Understanding and Controlling Infectious Diseases. , 2012, , 239-247.		0
27	New insight into the mode of action of vancomycin dimers in bacterial cell wall synthesis. <i>MedChemComm</i> , 2011, 2, 278.	3.4	16
28	Pinnarine, Another Member of the Halichlorine Family. Isolation and Preparation from Pinnaic Acid. <i>Journal of Natural Products</i> , 2011, 74, 1323-1326.	3.0	8
29	Traceable Amino Acid Analyses of Proteins and Peptides by Isotope-Dilution Mass Spectrometry Using Precolumn Derivatization Reagent. <i>Analytical Sciences</i> , 2010, 26, 1007-1010.	1.6	19
30	One-pot reductive cleavage of exo-olefin to methylene with a mild ozonolysis-Clemmensen reduction sequence. <i>Tetrahedron Letters</i> , 2010, 51, 4534-4537.	1.4	29
31	Mode of Action of Van-M-02, a Novel Glycopeptide Inhibitor of Peptidoglycan Synthesis, in Vancomycin-Resistant Bacteria. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 960-962.	3.2	12
32	Discovery of a Novel Series of Semisynthetic Vancomycin Derivatives Effective against Vancomycin-Resistant Bacteria. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 2528-2533.	6.4	61
33	Regulation of Redox Signaling Involving Chemical Conjugation of Protein Thiols by Nitric Oxide and Electrophiles. <i>Bioconjugate Chemistry</i> , 2010, 21, 1121-1129.	3.6	38
34	Recent Progress in the Medicinal Chemistry of Vancomycin. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2010, 68, 480-489.	0.1	2
35	Recent aspects of chemical ecology: Natural toxins, coral communities, and symbiotic relationships. <i>Pure and Applied Chemistry</i> , 2009, 81, 1093-1111.	1.9	22
36	A Transannular Diels-Alder Strategy to the Construction of the CDE Ring System of Nakiterpiosin. <i>Heterocycles</i> , 2009, 77, 351.	0.7	9

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37	The conformational features of palytoxin in aqueous solution. <i>Tetrahedron</i> , 2008, 64, 7718-7723.	1.9	27
38	8-Nitroguanosines as chemical probes of the protein S-guanylation. <i>Chemical Communications</i> , 2008, , 5984.	4.1	21
39	Ring-closing Metathesis Approach to a 16-Membered Macrocycle of Kendomycin. <i>Chemistry Letters</i> , 2007, 36, 726-727.	1.3	25
40	Identification of proteins from venom of the paralytic spider wasp, <i>Cyphononyx dorsalis</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2007, 37, 278-286.	2.7	39
41	Molecular shape of palytoxin in aqueous solution. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 897.	2.8	14
42	Synthesis of rigidly-linked vancomycin dimers and their in vivo efficacy against resistant bacteria. <i>Chemical Communications</i> , 2007, , 251-253.	4.1	25
43	Asymmetric Total Synthesis of Pinnaic Acid. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5746-5749.	13.8	40
44	Studies toward the total synthesis of nakiterpiosin: construction of the CDE ring system by a transannular Diels-Alder strategy. <i>Tetrahedron Letters</i> , 2007, 48, 5465-5469.	1.4	20
45	Protein S-guanylation by the biological signal 8-nitroguanosine 3',5'-cyclic monophosphate. <i>Nature Chemical Biology</i> , 2007, 3, 727-735.	8.0	249
46	Possibility of a non-amino acid pathway in the biosynthesis of marine-derived oxazoles. <i>Chemical Communications</i> , 2006, , 1742.	4.1	11
47	Effect of Ascorbic Acid on the Chemiluminescence of Polyphenols. <i>Bioscience, Biotechnology and Biochemistry</i> , 2006, 70, 1517-1520.	1.3	10
48	Important Natural Products. , 2006, , 1-24.		1
49	Synthetic studies on sugar-fused erinacines. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 2231.	2.8	10
50	Concise Synthesis of the Plant Growth Regulator Theobroxide. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 3863-3866.	5.2	10
51	Bioactive Alkaloids from the Sea: A Review. <i>Marine Drugs</i> , 2004, 2, 39-54.	4.6	66
52	Nakiterpiosin and nakiterpiosinone, novel cytotoxic C-nor-D-homosteroids from the Okinawan sponge <i>Terpios hoshinota</i> . <i>Tetrahedron</i> , 2004, 60, 6989-6993.	1.9	53
53	Enantioselective Synthesis of the Spirotetracyclic Carbon Core of Mangicols by Using a Stereoselective Transannular Diels-Alder Strategy. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 81-84.	13.8	34
54	Synthesis of the tricyclic core of halichlorine. <i>Chemical Communications</i> , 2004, , 1222.	4.1	22

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55	Synthetic approach to kendomycin: preparation of the C-glycosidic core Electronic supplementary information (ESI) available: selected spectral data for compounds 7, 8, 10, 11, 12, 15, 16, 17, 18, and 2. See http://www.rsc.org/suppdata/cc/b4/b402391a/ . <i>Chemical Communications</i> , 2004, , 1220.	4.1	24
56	Chemical Studies for Fight Against Vancomycin Resistance: Synthesis of Biologically Active Natural Products and Their Multivalent-Polymers. <i>ChemInform</i> , 2003, 34, no.	0.0	0
57	Effects of β -sheet breaker peptide polymers on scrapie-infected mouse neuroblastoma cells and their affinities to prion protein fragment PrP(81-145). <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 2626-2629.	2.8	13
58	Chemical Studies for Fight against Vancomycin Resistance: Synthesis of Biologically Active Natural Products and Their Multivalent-Polymers. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2003, 61, 752-759.	0.1	3
59	Synthesis of (Δ^{\pm})-Pinnaic Acid. <i>Heterocycles</i> , 2003, 59, 441.	0.7	32
60	Liver Injury Suppressing Compounds from Avocado (<i>Persea americana</i>). <i>Journal of Agricultural and Food Chemistry</i> , 2001, 49, 2215-2221.	5.2	73
61	Affinity of a vancomycin polymer with bacterial surface models. <i>Tetrahedron Letters</i> , 2001, 42, 3347-3350.	1.4	13
62	Isolation and Structure of Kasarin, a Novel Azetinone Compound, Isolated from a Marine Microorganism. <i>Heterocycles</i> , 2000, 52, 1033.	0.7	17
63	Gram-Scale Synthesis of (+)-Discodermolide. <i>Organic Letters</i> , 2000, 2, 1983-1983.	4.6	16
64	Evolution of a Gram-Scale Synthesis of (+)-Discodermolide. <i>Journal of the American Chemical Society</i> , 2000, 122, 8654-8664.	13.7	239
65	Synthesis of pinnaic acid; Asymmetric construction of spirocyclic core. <i>Tetrahedron Letters</i> , 1999, 40, 3583-3586.	1.4	48
66	Isolation and structures of haterumalides NA, NB, NC, ND, and NE, novel macrolides from an Okinawan Sponge <i>Ircinia</i> sp.. <i>Tetrahedron Letters</i> , 1999, 40, 6309-6312.	1.4	79
67	Gram-Scale Synthesis of (+)-Discodermolide. <i>Organic Letters</i> , 1999, 1, 1823-1826.	4.6	133
68	Multi-valent polymer of vancomycin: enhanced antibacterial activity against VRE. <i>Chemical Communications</i> , 1999, , 1361-1362.	4.1	87
69	Synthesis and absolute stereochemistry of tanzawaic acid (GS-1302). <i>Tetrahedron Letters</i> , 1998, 39, 9513-9516.	1.4	15
70	Absolute stereochemistry of halichlorine; A potent inhibitor of VCAM-1 induction. <i>Tetrahedron Letters</i> , 1998, 39, 861-862.	1.4	86
71	Anomalous Epoxide Formation Upon Wittig Olefination With 1-Iodoethyl Triphenylphosphonium Ylide. <i>Synlett</i> , 1998, 1998, 765-767.	1.8	25
72	Tanzawaic Acids A, B, C, and D: Inhibitors of Superoxide Anion Production from <i>Penicillium citrinum</i> . <i>Chemistry Letters</i> , 1997, 26, 885-886.	1.3	43

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73	Total synthesis of allixin; an anti-tumor promoter from garlic. <i>Tetrahedron Letters</i> , 1997, 38, 7761-7762.	1.4	9
74	Preparation and Properties of 1,1-Disubstituted Trichotomine Derivatives with a Twisted C=C Bond. <i>Bulletin of the Chemical Society of Japan</i> , 1996, 69, 1673-1677.	3.2	3
75	Vallartanone B: Synthesis and related studies. <i>Tetrahedron</i> , 1996, 52, 13901-13908.	1.9	15
76	Synthesis and revised structure of vallartanone B. <i>Tetrahedron Letters</i> , 1996, 37, 4749-4750.	1.4	11
77	Two New 7-Geranyloxycoumarins from the Bark of <i>Aegle Marmelos</i> , an Indonesian Medicinal Plant. <i>Chemistry Letters</i> , 1995, 24, 881-882.	1.3	14
78	Synthetic studies on fully substituted $\hat{1}^3$ -pyrone-containing natural products: Total synthesis and structural revision of onchitriol I. <i>Tetrahedron Letters</i> , 1995, 36, 5357-5358.	1.4	6
79	Chemical properties of $\hat{1}^2$ -triketones: Reexamination of Albizati's tandem aldol process. <i>Tetrahedron Letters</i> , 1994, 35, 4581-4584.	1.4	10
80	Synthetic studies on fully substituted $\hat{1}^3$ -pyrone-containing natural products: The first total synthesis of onchitriol II. <i>Tetrahedron Letters</i> , 1994, 35, 9581-9584.	1.4	24
81	Synthetic studies on fully substituted $\hat{1}^3$ -pyrone-containing natural products: The absolute configurations of Ilikonapyrone and peroniatriols I and II. <i>Tetrahedron Letters</i> , 1993, 34, 5781-5784.	1.4	28
82	Synthetic studies on fully substituted $\hat{1}^3$ -pyrone-containing natural products: synthesis of $\hat{1}^3$ -pyrone derivatives obtained by decomposition of peroniatriols. <i>Tetrahedron Letters</i> , 1990, 31, 5491-5494.	1.4	23
83	Mild conditions for cyclization of $\hat{1}^2$ -triketides to the corresponding $\hat{1}^3$ -pyrones carrying adjacent chiral centers toward biomimetic synthesis of fully substituted $\hat{1}^3$ -pyrone-containing natural products. <i>Tetrahedron Letters</i> , 1990, 31, 5619-5620.	1.4	51
84	p62 Phase-Separation as the Foundation of Autophagy-Based Degradation. <i>Biochemistry</i> , 0, , .	2.5	0