

Satomi Niwayama

List of Publications by Year in descending order

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47
papers

1,151
citations

430874

18
h-index

395702

33
g-index

47
all docs

47
docs citations

47
times ranked

986
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular recognition of angiogenesis inhibitors fumagillin and ovalicin by methionine aminopeptidase 2. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 15183-15188.	7.1	237
2	Substituent Effects on Rates and Stereoselectivities of Conrotatory Electrocyclic Reactions of Cyclobutenes. A Theoretical Study. Journal of Organic Chemistry, 1996, 61, 2813-2825.	3.2	99
3	Theoretical Prediction and Experimental Tests of Conformational Switches in Transition States of Diels-Alder and 1,3-Dipolar Cycloadditions to Enol Ethers. Journal of Organic Chemistry, 1998, 63, 1064-1073.	3.2	91
4	Highly Efficient Selective Monohydrolysis of Symmetric Diesters. Journal of Organic Chemistry, 2000, 65, 5834-5836.	3.2	75
5	Potent Inhibition of Tumor Necrosis Factor- α Production by Tetrafluorothalidomide and Tetrafluorophthalimides. Journal of Medicinal Chemistry, 1996, 39, 3044-3045.	6.4	59
6	Theoretical Predictions of Substituent Effects on the Thermal Electrocyclic Ring Openings of Cyclobutenones. Journal of Organic Chemistry, 1996, 61, 2517-2522.	3.2	54
7	Highly efficient selective monohydrolysis of dialkyl malonates and their derivatives. Tetrahedron Letters, 2008, 49, 4434-4436.	1.4	42
8	A Novel Chemicoenzymic Rearrangement by Asymmetric Hydrolysis with Pig Liver Esterase. Journal of the American Chemical Society, 1994, 116, 3290-3295.	13.7	33
9	Lewis acid reversal of the torquoselectivity of the electrocyclic ring opening of 3-acetylcyclobutene. Tetrahedron Letters, 1993, 34, 1251-1254.	1.4	28
10	Secondary Deuterium Kinetic Isotope Effects in the Rotations of Alkenes and Allyl Radicals: Theory and Experiment. Journal of the American Chemical Society, 1996, 118, 886-892.	13.7	27
11	Synthesis of d-labeled N-alkylmaleimides and application to quantitative peptide analysis by isotope differential mass spectrometry. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 2257-2261.	2.2	27
12	Stereoselective Diels-Alder Reactions of Hexachlorocyclopentadiene with Chiral Alkenes: A New Insights Into the Inside-Alkoxy Model of Stereoselectivity. Journal of Organic Chemistry, 1997, 62, 5728-5731.	3.2	24
13	Enhanced potency of perfluorinated thalidomide derivatives for inhibition of LPS-induced tumor necrosis factor- α production is associated with a change of mechanism of action. Bioorganic and Medicinal Chemistry Letters, 1998, 8, 1071-1076.	2.2	21
14	Remote Exo/Endo Selectivity in Selective Monohydrolysis of Dialkyl Bicyclo[2.2.1]heptane-2,3-dicarboxylate Derivatives. Journal of Organic Chemistry, 2010, 75, 3775-3780.	3.2	21
15	Quantitative proteome analysis using D-labeled N-ethylmaleimide and ^{13}C -labeled iodoacetanilide by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. Bioorganic and Medicinal Chemistry, 2006, 14, 8197-8209.	3.0	20
16	Influence of co-solvents in the highly efficient selective monohydrolysis of a symmetric diester. Tetrahedron Letters, 2007, 48, 8508-8510.	1.4	20
17	Practical Large Scale Synthesis of Half-Esters of Malonic Acid. Chemical and Pharmaceutical Bulletin, 2009, 57, 508-510.	1.3	20
18	The torquoselectivity of electrocyclic reactions of 3-donor-3-acceptor-substituted cyclobutenes. Tetrahedron Letters, 1995, 36, 6201-6204.	1.4	19

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19	Electrospray ionization mass spectroscopic analysis of peptides modified with N-ethylmaleimide or iodoacetanilide. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 4891-4895.	2.2	19
20	New exo/endo selectivity observed in monohydrolysis of dialkyl bicyclo[2.2.1]hept-5-ene-2,3-dicarboxylates. <i>Tetrahedron Letters</i> , 2003, 44, 8567-8570.	1.4	18
21	Highly Efficient and Practical Selective Monohydrolysis of Symmetric Diesters: Recent Progress and Scope. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2008, 66, 983-994.	0.1	16
22	On the mechanism of the meiwald rearrangement of electron deficient systems. <i>Tetrahedron Letters</i> , 1993, 34, 665-668.	1.4	15
23	Asymmetric desymmetrization of dialkyl bicyclo[2.2.1]hept-2,5-diene-2,3-dicarboxylates by a thermophilic esterase/lipase. <i>Tetrahedron: Asymmetry</i> , 2002, 13, 953-956.	1.8	15
24	Effects of Counter Cations in Selective Monohydrolyses of Symmetric Diesters. <i>Bulletin of the Chemical Society of Japan</i> , 2005, 78, 498-500.	3.2	15
25	Synthesis of ¹³ C-Labeled iodoacetanilide and application to quantitative peptide analysis by isotope differential mass spectrometry. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003, 13, 2913-2916.	2.2	14
26	Interplay of Theory and Experiment: A Reversal of the Torquoselectivity of the Electrocyclic Ring Opening of 3-Acetylcyclobutene by a Lewis Acid. <i>Journal of Organic Chemistry</i> , 1996, 61, 640-646.	3.2	13
27	Racemic novel buffer-mediated rearrangement. <i>Tetrahedron Letters</i> , 2000, 41, 10163-10166.	1.4	12
28	A Pyrene Maleimide with a Flexible Linker for Sampling of Longer Inter-Thiol Distances by Excimer Formation. <i>PLoS ONE</i> , 2011, 6, e26691.	2.5	11
29	Synthesis of D-labeled naphthylidoacetamide and application to quantitative peptide analysis by isotope differential mass spectrometry. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006, 16, 6054-6057.	2.2	10
30	Peptide peak intensities enhanced by cysteine modifiers and MALDI TOF MS. <i>Journal of Mass Spectrometry</i> , 2012, 47, 1546-1553.	1.6	10
31	Synthesis of ¹³ C7-labeled iodoacetanilide and application to quantitative analysis of peptides and a protein by isotope differential mass spectrometry. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 5698-5702.	2.2	9
32	Competition between carbomethoxy and carboxyl in electrocyclic opening of a 3,3-disubstituted cyclobutene. <i>Tetrahedron Letters</i> , 1994, 35, 527-530.	1.4	8
33	Solvation of Dimethyl Succinate in a Sodium Hydroxide Aqueous Solution. A Computational Study. <i>Journal of Physical Chemistry B</i> , 2009, 113, 6473-6477.	2.6	8
34	Conformational Studies of Symmetric Diesters. <i>Current Organic Chemistry</i> , 2012, 16, 1151-1158.	1.6	8
35	Syntheses of polynorbornadienes by ring-opening metathesis polymerizations of symmetric and non-symmetric 2,3-bis(alkoxycarbonyl)norbornadienes and their conversion to half-ester derivatives. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 6634-6642.	2.8	6
36	Solid-state NMR and X-ray diffractonal analysis of conformational effects in <i>l</i> f-symmetric bicyclo[2.2.1]hept-2-ene diester and monoesters. <i>Tetrahedron Letters</i> , 1999, 40, 5961-5965.	1.4	5

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37	Asymmetric synthesis of 6-formyl-1-alkoxycarbonylbicyclo[3.1.0]hex-2-ene-2-carboxylic acids by a novel buffer-mediated rearrangement. <i>Tetrahedron: Asymmetry</i> , 2001, 12, 2537-2541.	1.8	3
38	Exploration of Thermophilic Esterases/Lipases for Asymmetric Desymmetrization of Norbornane Derivatives. <i>Bulletin of the Chemical Society of Japan</i> , 2003, 76, 831-832.	3.2	3
39	Synthetic studies of new CMP α -sialic acid analogues applying a novel buffer-mediated rearrangement. <i>Tetrahedron Letters</i> , 2007, 48, 8757-8760.	1.4	3
40	Synthesis of d-labeled and unlabeled benzoyloxysuccinimides and application to quantitative analysis of peptides and a protein by isotope differential mass spectrometry. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 4629-4632.	2.2	3
41	Quantitative protein analysis using ¹³ C7-labeled iodoacetanilide and d5-labeled N-ethylmaleimide by nano liquid chromatography/nanoelectrospray ionization ion trap mass spectrometry. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 3111-3118.	2.2	3
42	¹ H and ¹³ C NMR spectroscopic studies of half-esters from monohydrolysis of dialkyl bicyclo[2.2.1]hept-5-ene-2,3-dicarboxylates. <i>Spectroscopy</i> , 2004, 18, 469-483.	0.8	2
43	Proteomics in Medicinal Chemistry. <i>Mini-Reviews in Medicinal Chemistry</i> , 2006, 6, 241-246.	2.4	2
44	Two Isoxazolidines. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1996, 52, 486-489.	0.4	1
45	Editorial [Hot Topic: Water-Mediated Organic Reactions (Guest Editor: Satomi Niwayama)]. <i>Current Organic Synthesis</i> , 2011, 8, 318-318.	1.3	1
46	Quantification of proteins using ¹³ C7-labeled and unlabeled iodoacetanilide by nano liquid chromatography/nanoelectrospray ionization and by selected reaction monitoring mass spectrometry. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 1110-1116.	2.2	1
47	¹³ C NMR Spectroscopic Studies of Intra- and Intermolecular Interactions of Amino Acid Derivatives and Peptide Derivatives in Solutions. <i>Organics</i> , 2022, 3, 38-58.	1.3	0