

Amy R Howell

List of Publications by Year in descending order

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109
papers

4,449
citations

94433

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118850

62
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135
all docs

135
docs citations

135
times ranked

4429
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient, Catalytic, Aerobic Oxidation of Alcohols with Octahedral Molecular Sieves. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 4280-4283.	13.8	298
2	The Role of Lattice Oxygen in Selective Benzyl Alcohol Oxidation Using OMS-2 Catalyst: A Kinetic and Isotope-Labeling Study. <i>Journal of Catalysis</i> , 2002, 210, 46-52.	6.2	269
3	Recognition of Lyso-Phospholipids by Human Natural Killer T Lymphocytes. <i>PLoS Biology</i> , 2009, 7, e1000228.	5.6	203
4	Kinetics and Cellular Site of Glycolipid Loading Control the Outcome of Natural Killer T Cell Activation. <i>Immunity</i> , 2009, 30, 888-898.	14.3	159
5	T-bet concomitantly controls migration, survival, and effector functions during the development of V β 14i NKT cells. <i>Blood</i> , 2006, 107, 2797-2805.	1.4	136
6	Immunomodulatory lysophosphatidylserines are regulated by ABHD16A and ABHD12 interplay. <i>Nature Chemical Biology</i> , 2015, 11, 164-171.	8.0	123
7	A Molecular Basis for the Exquisite CD1d-Restricted Antigen Specificity and Functional Responses of Natural Killer T Cells. <i>Immunity</i> , 2011, 34, 327-339.	14.3	107
8	Recent Applications of Oxetanes in the Synthesis of Heterocyclic Compounds. <i>Journal of Organic Chemistry</i> , 2015, 80, 8489-8495.	3.2	107
9	3-Dimensional Submicron Polymerization of Acrylamide by Multiphoton Excitation of Xanthene Dyes. <i>Macromolecules</i> , 2000, 33, 1511-1513.	4.8	106
10	The T cell antigen receptor expressed by V β 14i NKT cells has a unique mode of glycosphingolipid antigen recognition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 12254-12259.	7.1	90
11	T Cell Receptor CDR2 β and CDR3 β Loops Collaborate Functionally to Shape the iNKT Cell Repertoire. <i>Immunity</i> , 2009, 31, 60-71.	14.3	90
12	Synthesis and Evaluation of Sphinganine Analogues of KRN7000 and OCH. <i>Journal of Organic Chemistry</i> , 2005, 70, 10260-10270.	3.2	87
13	Multiphoton Excited Fabrication of Collagen Matrixes Cross-Linked by a Modified Benzophenone Dimer: Bioactivity and Enzymatic Degradation. <i>Biomacromolecules</i> , 2005, 6, 1465-1474.	5.4	86
14	A minimal binding footprint on CD1d-glycolipid is a basis for selection of the unique human NKT TCR. <i>Journal of Experimental Medicine</i> , 2008, 205, 939-949.	8.5	83
15	Improved Outcomes in NOD Mice Treated with a Novel Th2 Cytokine-Biasing NKT Cell Activator. <i>Journal of Immunology</i> , 2007, 178, 1415-1425.	0.8	81
16	The Preparation and Biological Significance of Phytosphingosines. <i>Current Organic Chemistry</i> , 2002, 6, 365-391.	1.6	71
17	Approaches to the preparation of sphinganines. <i>Tetrahedron</i> , 2004, 60, 11327-11347.	1.9	70
18	Production and characterization of monoclonal antibodies against complexes of the NKT cell ligand β -galactosylceramide bound to mouse CD1d. <i>Journal of Immunological Methods</i> , 2007, 323, 11-23.	1.4	65

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19	New Photoactivators for Multiphoton Excited Three-dimensional Submicron Cross-linking of Proteins: Bovine Serum Albumin and Type 1 Collagen. <i>Photochemistry and Photobiology</i> , 2002, 76, 135.	2.5	62
20	Natural Sphingomonas Glycolipids Vary Greatly in Their Ability to Activate Natural Killer T Cells. <i>Chemistry and Biology</i> , 2008, 15, 654-664.	6.0	61
21	Preparation and Properties of 2-Methyleneoxetanes. <i>Journal of Organic Chemistry</i> , 1999, 64, 7074-7080.	3.2	55
22	Rhodium-Catalyzed Transnitration of Aryl Boronic Acids with Dimethylmalononitrile. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 326-330.	13.8	54
23	Straightforward Synthesis of Sphinganine via a Serine-derived Weinreb Amide. <i>Journal of Organic Chemistry</i> , 2004, 69, 3233-3235.	3.2	53
24	The molecular bases of \hat{I}^1/\hat{I}^2 T cell-mediated antigen recognition. <i>Journal of Experimental Medicine</i> , 2014, 211, 2599-2615.	8.5	52
25	Synthesis of d-erythro-Dihydroxy-sphingosine and d-xylo-Phytosphingosine from a Serine-Derived 1,5-Dioxaspiro[3.2]hexane Template. <i>Organic Letters</i> , 2002, 4, 1719-1722.	4.6	50
26	Cross Metathesis of \hat{I}^{\pm} -Methylene Lactones II: \hat{I}^3 - and \hat{I}^1 -Lactones. <i>Organic Letters</i> , 2007, 9, 1699-1701.	4.6	49
27	ABHD17 regulation of plasma membrane palmitoylation and N-Ras-dependent cancer growth. <i>Nature Chemical Biology</i> , 2021, 17, 856-864.	8.0	49
28	An Unanticipated Ring-Opening of 2-Methyleneoxetanes: A Fundamentally New Approach to the Preparation of Homopropargylic Alcohols. <i>Journal of Organic Chemistry</i> , 1998, 63, 6782-6783.	3.2	46
29	Adaptability of the semi-invariant natural killer T-cell receptor towards structurally diverse CD1d-restricted ligands. <i>EMBO Journal</i> , 2009, 28, 3579-3590.	7.8	45
30	Synthesis and evaluation of 3 \hat{I}^3 - and 4 \hat{I}^3 -deoxy and -fluoro analogs of the immunostimulatory glycolipid, KRN7000. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 4122-4125.	2.2	44
31	A Versatile Preparation of 2-Methyleneoxetanes. <i>Journal of Organic Chemistry</i> , 1996, 61, 7248-7249.	3.2	43
32	A CD1d-Dependent Antagonist Inhibits the Activation of Invariant NKT Cells and Prevents Development of Allergen-Induced Airway Hyperreactivity. <i>Journal of Immunology</i> , 2010, 184, 2107-2115.	0.8	43
33	Cross-metathesis of \hat{I}^{\pm} -methylene- \hat{I}^2 -lactams: the first tetrasubstituted alkenes by CM. <i>Tetrahedron Letters</i> , 2009, 50, 1020-1022.	1.4	42
34	Mouse and human iNKT cell agonist \hat{I}^2 -mannosylceramide reveals a distinct mechanism of tumor immunity. <i>Journal of Clinical Investigation</i> , 2011, 121, 683-694.	8.2	41
35	Redox glycosidation: a new strategy for disaccharide synthesis. <i>Journal of the American Chemical Society</i> , 1989, 111, 1392-1396.	13.7	40
36	Unusual, Strained Heterocycles: \hat{I}^{\pm} 3-Alkylidene-2-methyleneoxetanes from Morita-Baylis-Hillman-type Adducts. <i>Organic Letters</i> , 2003, 5, 399-402.	4.6	40

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37	Natural killer T-cell autoreactivity leads to a specialized activation state. <i>Blood</i> , 2008, 112, 4128-4138.	1.4	39
38	Redox glycosidation via thionoester intermediates. <i>Journal of Organic Chemistry</i> , 1989, 54, 2275-2277.	3.2	37
39	Glycolipids that Elicit IFN- β -Biased Responses from Natural Killer T Cells. <i>Chemistry and Biology</i> , 2011, 18, 1620-1630.	6.0	37
40	α 2 natural killer T cell antigen receptor-mediated recognition of CD1d-glycolipid antigen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 19007-19012.	7.1	36
41	The First General Synthesis of 1,5-Dioxaspiro[3.2]hexanes. <i>Journal of Organic Chemistry</i> , 1998, 63, 6098-6099.	3.2	34
42	β -S-GalCer: Synthesis and evaluation for iNKT cell stimulation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 6374-6376.	2.2	34
43	Human and Mouse Type I Natural Killer T Cell Antigen Receptors Exhibit Different Fine Specificities for CD1d-Antigen Complex. <i>Journal of Biological Chemistry</i> , 2012, 287, 39139-39148.	3.4	34
44	Atypical natural killer T-cell receptor recognition of CD1d-lipid antigens. <i>Nature Communications</i> , 2016, 7, 10570.	12.8	34
45	A Rapid Fluorescence-Based Assay for Classification of iNKT Cell Activating Glycolipids. <i>Journal of the American Chemical Society</i> , 2011, 133, 5198-5201.	13.7	33
46	Cross Metathesis with Strained Exocyclic Enones: Synthesis of 3-Alkylideneoxetan-2-ones from 3-Methyleneoxetan-2-ones. <i>Organic Letters</i> , 2006, 8, 2139-2141.	4.6	32
47	Oxidation for Aerobic, Catalytic, One-pot Alcohol Oxidation Wittig Reactions: Efficient Access to α,β -Unsaturated Esters. <i>ChemCatChem</i> , 2014, 6, 749-752.	3.7	32
48	β -Galactosylceramide Analogs with Weak Agonist Activity for Human iNKT Cells Define New Candidate Anti-Inflammatory Agents. <i>PLoS ONE</i> , 2010, 5, e14374.	2.5	31
49	Toward a Formal Synthesis of Laureatin: Unexpected Rearrangements Involving Cyclic Ether Nucleophiles. <i>Journal of Organic Chemistry</i> , 2012, 77, 7883-7890.	3.2	29
50	A 2-methyleneoxetane analog of orlistat demonstrating inhibition of porcine pancreatic lipase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1998, 8, 977-978.	2.2	28
51	Synthesis of <i>epi</i> -Oxetin via a Serine-Derived 2-Methyleneoxetane. <i>Journal of Organic Chemistry</i> , 2008, 73, 517-521.	3.2	28
52	Hydrocobaltation reactions of 1,3-dienes. Regioselective hydroxylation of myrcene to geraniol and to (\pm)-linalool via allylcobaloxime intermediates. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1990, , 2715-2720.	0.9	27
53	Reductive cleavage of 2-methyleneoxetanes with lithium and 4,4'-di- <i>tert</i> -butylbiphenyl. <i>Tetrahedron Letters</i> , 2000, 41, 1855-1858.	1.4	27
54	Rhodium-Catalyzed Addition of Aryl Boronic Acids to 2,2-Disubstituted Malononitriles. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6999-7002.	13.8	27

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55	Contact sensitizers trigger human CD1 ⁺ autoreactive T ⁺ cell responses. <i>European Journal of Immunology</i> , 2017, 47, 1171-1180.	2.9	27
56	Dual Modifications of β -Galactosylceramide Synergize to Promote Activation of Human Invariant Natural Killer T Cells and Stimulate Anti-tumor Immunity. <i>Cell Chemical Biology</i> , 2018, 25, 571-584.e8.	5.2	27
57	Access to Oxetane-Containing <i>psico</i> -Nucleosides from 2-Methyleneoxetanes: A Role for Neighboring Group Participation?. <i>Journal of Organic Chemistry</i> , 2011, 76, 9962-9974.	3.2	26
58	Regioselective hydroxylations of 1,3-dienes via hydrocobaltation reactions. Facile conversion of myrcene to geraniol and to (\pm)-linalool. <i>Journal of the Chemical Society Chemical Communications</i> , 1990, , 103-104.	2.0	25
59	Preparation of 2-alkylidene oxetanes: An investigation of the Paterno-B χ reaction between aliphatic aldehydes and allenes. <i>Tetrahedron Letters</i> , 1996, 37, 8651-8654.	1.4	25
60	Ring Opening of 1,5-Dioxaspiro[3.2]hexanes: Selective Preparation of β -Heterofunctionalized- β -hydroxy Ketones or 2,2-Disubstituted Oxetanes. <i>Organic Letters</i> , 1999, 1, 825-827.	4.6	25
61	The reaction of dimethyltitanocene with N-substituted- β -lactams. <i>Tetrahedron Letters</i> , 2000, 41, 5607-5611.	1.4	25
62	Combining cross-metathesis and activity-based protein profiling: New β -lactone motifs for targeting serine hydrolases. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 317-321.	2.2	25
63	Pd-Catalyzed Acyl C=O Bond Activation for Selective Ring-Opening of β -Methylene- β -lactones with Amines. <i>Organic Letters</i> , 2017, 19, 1966-1969.	4.6	25
64	Selective Conditions Are Required for the Induction of Invariant NKT Cell Hyporesponsiveness by Antigenic Stimulation. <i>Journal of Immunology</i> , 2015, 195, 3838-3848.	0.8	21
65	A single-domain bispecific antibody targeting CD1d and the NKT T-cell receptor induces a potent antitumor response. <i>Nature Cancer</i> , 2020, 1, 1054-1065.	13.2	21
66	Directed Ring-Opening of 1,5-Dioxaspiro[3.2]hexanes: Selective Formation of 2,2-Disubstituted Oxetanes. <i>Journal of Organic Chemistry</i> , 2003, 68, 1480-1488.	3.2	20
67	Application of (chloromethyl)aluminum 2-(2-propenyl)anilide in the conversion of γ - and δ -lactones into protected hydroxy acids. <i>Journal of Organic Chemistry</i> , 1989, 54, 3321-3324.	3.2	19
68	Pt-Catalyzed Rearrangement of Oxaspirohexanes to 3-Methylenetetrahydrofurans: Scope and Mechanism. <i>Journal of Organic Chemistry</i> , 2015, 80, 5196-5209.	3.2	19
69	1,4-Dicarbonylation of 4-Fluoroaryl Grignard and Lithium Reagents with Disubstituted Malononitriles. <i>Journal of Organic Chemistry</i> , 2017, 82, 4993-4997.	3.2	19
70	Immunomodulatory sphingosine-1-phosphates as plasma biomarkers of Alzheimer's disease and vascular cognitive impairment. <i>Alzheimer's Research and Therapy</i> , 2020, 12, 122.	6.2	19
71	Synthesis and evaluation of an acyl-chain unsaturated analog of the Th2 biasing, immunostimulatory glycolipid, OCH. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 3386-3388.	2.2	18
72	The Alpha and Omega of Galactosylceramides in T Cell Immune Function. <i>Journal of Biological Chemistry</i> , 2015, 290, 15365-15370.	3.4	18

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73	Nickel- or Cobalt-Catalyzed Cross-Coupling of Arylsulfonic Acid Salts with Grignard Reagents. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 2199-2204.	4.3	17
74	Ring opening reactions of 2-methyleneoxetanes. <i>Tetrahedron</i> , 2002, 58, 7101-7107.	1.9	16
75	Heterogeneous Catalytic Oxidation of Amides to Imides by Manganese Oxides. <i>Scientific Reports</i> , 2018, 8, 13649.	3.3	16
76	1-Iodomethyl-3,4-diphenyl-2,6-dioxabicyclo[2.2.0]hexane: the first example of a [2.2.0] fused ketal. <i>Tetrahedron Letters</i> , 1999, 40, 7051-7053.	1.4	15
77	Lipid and Carbohydrate Modifications of $\hat{\pm}$ -Galactosylceramide Differently Influence Mouse and Human Type I Natural Killer T Cell Activation. <i>Journal of Biological Chemistry</i> , 2015, 290, 17206-17217.	3.4	15
78	Rapid Identification of Immunostimulatory $\hat{\pm}$ -Galactosylceramides Using Synthetic Combinatorial Libraries. <i>ACS Combinatorial Science</i> , 2007, 9, 1084-1093.	3.3	14
79	Preparation and reactions of 4-oxaspiro[2.3]hexanes. <i>New Journal of Chemistry</i> , 2001, 25, 673-675.	2.8	13
80	Unexpected Cleavage of 2-Azido-2-(hydroxymethyl)oxetanes: Conformation Determines Reaction Pathway?. <i>Journal of Organic Chemistry</i> , 2010, 75, 7565-7572.	3.2	13
81	Regulatory Roles for NKT Cell Ligands in Environmentally Induced Autoimmunity. <i>Journal of Immunology</i> , 2008, 181, 6779-6788.	0.8	12
82	Mrp1 is involved in lipid presentation and iNKT cell activation by <i>Streptococcus pneumoniae</i> . <i>Nature Communications</i> , 2018, 9, 4279.	12.8	11
83	SYNTHESIS AND PROPERTIES OF <i>PSICO</i> -NUCLEOSIDES. <i>Organic Preparations and Procedures International</i> , 2006, 38, 101-176.	1.3	10
84	Stereospecificity of 2-methylpiperidine binding to a nicotinic up-regulatory site in the rat brain P2 preparation. <i>Life Sciences</i> , 1985, 37, 1367-1372.	4.3	9
85	Silicon Acceleration of a Tandem Alkene Isomerization/Electrocyclic Ring-opening of 2-Methyleneoxetanes to $\hat{\pm}$, $\hat{1}^2$ -Unsaturated Methylketones. <i>Journal of Organic Chemistry</i> , 2013, 78, 11213-11220.	3.2	9
86	Rh-Catalyzed Conjugate Addition of Aryl and Alkenyl Boronic Acids to $\hat{\pm}$ -Methylene- $\hat{1}^2$ -lactones: Stereoselective Synthesis of <i>trans</i> -3,4-Disubstituted $\hat{1}^2$ -Lactones. <i>Organic Letters</i> , 2017, 19, 4460-4463.	4.6	9
87	3-Silyloxytetrahydrofurans via sulfoxonium ylide reactions with $\hat{\pm}$ -silyloxyepoxides. <i>Tetrahedron Letters</i> , 2007, 48, 8356-8359.	1.4	8
88	Unusual Transformations of Strain-Heightened Oxetanes. <i>Accounts of Chemical Research</i> , 2021, 54, 3850-3862.	15.6	8
89	An unusual and efficient reaction of 2-methylene-3-phenyloxetane in the presence of lithium and 4,4'-di- <i>tert</i> -butylbiphenyl in THF. <i>Tetrahedron Letters</i> , 2000, 41, 1859-1862.	1.4	7
90	2-Alkylidene oxetanes by stereospecific elimination of mesylates. <i>Tetrahedron Letters</i> , 2007, 48, 8353-8355.	1.4	7

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91	Synthesis of a 2-Deoxy- β -GalCer. <i>Molecules</i> , 2014, 19, 10090-10102.	3.8	7
92	A solvent-free approach to glycosyl amides: toward the synthesis of β -N-galactosyl ceramides. <i>Tetrahedron Letters</i> , 2015, 56, 3583-3586.	1.4	7
93	Amide-Linked C4-Saccharide Modification of KRN7000 Provides Potent Stimulation of Human Invariant NKT Cells and Anti-Tumor Immunity in a Humanized Mouse Model. <i>ACS Chemical Biology</i> , 2020, 15, 3176-3186.	3.4	6
94	Synthesis and binding activity of 4-azanicotine. <i>Journal of Heterocyclic Chemistry</i> , 1991, 28, 1147-1151.	2.6	5
95	Scaling Proteome-Wide Reactions of Activity-Based Probes. <i>Analytical Chemistry</i> , 2017, 89, 6295-6299.	6.5	5
96	Modular Dihydrobenzoazaphosphole Ligands for Suzuki-Miyaura Cross-Coupling. <i>Synthesis</i> , 2018, 50, 4429-4434.	2.3	5
97	New Photoactivators for Multiphoton Excited Three-dimensional Submicron Cross-linking of Proteins: Bovine Serum Albumin and Type 1 Collagen. <i>Photochemistry and Photobiology</i> , 2002, 76, 135-144.	2.5	3
98	β -Methylene- γ -Lactone Scaffold for Developing Chemical Probes at the Two Ends of the Selectivity Spectrum. <i>ChemBioChem</i> , 2021, 22, 505-515.	2.6	2
99	Easily accessible non-aromatic heterocycles with handles: 4-bromo-2,3-dihydrofurans from 1,2-dibromohomoallylic alcohols. <i>Chemical Science</i> , 2021, 12, 10347-10353.	7.4	2
100	Chemical proteomic analysis of palmostatin beta-lactone analogs that affect N-Ras palmitoylation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021, 53, 128414.	2.2	2
101	Synthesis and Reactions of 2-Alkylidene Thiiranes and Thietanes. <i>Synthesis</i> , 2007, 2007, 2755-2778.	2.3	1
102	Cloning and Characterization of a Hybridoma Secreting a 4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanone (NNK)-Specific Monoclonal Antibody and Recombinant F(ab). <i>Toxins</i> , 2013, 5, 568-589.	3.4	1
103	Ring Opening Reactions of 2-Methyleneoxetanes.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
104	Unusual, Strained Heterocycles: 3-Alkylidene-2-methyleneoxetanes from Morita-Baylis-Hillman-Type Adducts.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
105	Directed Ring-Opening of 1,5-Dioxaspiro[3.2]hexanes: Selective Formation of 2,2-Disubstituted Oxetanes.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
106	Straightforward Synthesis of Sphingamines (V) and (XI) via a Serine-Derived Weinreb Amide.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
107	Approaches to the Preparation of Sphingamines. <i>ChemInform</i> , 2005, 36, no.	0.0	0
108	Design and Synthesis of an Activity-Based Probe Template for Protein Kinases. <i>Synlett</i> , 2010, 2010, 1142-1142.	1.8	0

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109	Design and Synthesis of an Activity-Based Probe Template for Protein Kinases. Synlett, 2010, 2010, 521-524.	1.8	0