Amy R Howell

List of Publications by Year
in descending order

109 papers	4,449 citations	94433 37 h-index	118850 62 g-index
135 all docs	135 docs citations	135 times ranked	4429 citing authors

#	Article	IF	Citations
1	Î±â€Methyleneâ€Î²â€Lactone Scaffold for Developing Chemical Probes at the Two Ends of the Selectivity Spectrum. ChemBioChem, 2021, 22, 505-515.	2.6	2
2	ABHD17 regulation of plasma membrane palmitoylation and N-Ras-dependent cancer growth. Nature Chemical Biology, 2021, 17, 856-864.	8.0	49
3	Unusual Transformations of Strain-Heightened Oxetanes. Accounts of Chemical Research, 2021, 54, 3850-3862.	15.6	8
4	Easily accessible non-aromatic heterocycles with handles: 4-bromo-2,3-dihydrofurans from 1,2-dibromohomoallylic alcohols. Chemical Science, 2021, 12, 10347-10353.	7.4	2
5	Chemical proteomic analysis of palmostatin beta-lactone analogs that affect N-Ras palmitoylation. Bioorganic and Medicinal Chemistry Letters, 2021, 53, 128414.	2.2	2
6	Immunomodulatory sphingosine-1-phosphates as plasma biomarkers of Alzheimerâ€™s disease and vascular cognitive impairment. Alzheimer's Research and Therapy, 2020, 12, 122.	6.2	19
7	A single-domain bispecific antibody targeting CD1d and the NKT T-cell receptor induces a potent antitumor response. Nature Cancer, 2020, 1, 1054-1065.	13.2	21
8	Amide-Linked C4â€³-Saccharide Modification of KRN7000 Provides Potent Stimulation of Human Invariant NKT Cells and Anti-Tumor Immunity in a Humanized Mouse Model. ACS Chemical Biology, 2020, 15, 3176-3186.	3.4	6
9	Dual Modifications of Î±-Galactosylceramide Synergize to Promote Activation of Human Invariant Natural Killer T Cells and Stimulate Anti-tumor Immunity. Cell Chemical Biology, 2018, 25, 571-584.e8.	5.2	27
10	Mrp1 is involved in lipid presentation and iNKT cell activation by Streptococcus pneumoniae. Nature Communications, 2018, 9, 4279.	12.8	11
11	Heterogeneous Catalytic Oxidation of Amides to Imides by Manganese Oxides. Scientific Reports, 2018, 8, 13649.	3.3	16
12	Modular Dihydrobenzoazaphosphole Ligands for Suzukiâ€“Miyaura Cross-Coupling. Synthesis, 2018, 50, 4429-4434.	2.3	5
13	1,4-Dicarbofunctionalization of 4-Fluoroaryl Grignard and Lithium Reagents with Disubstituted Malononitriles. Journal of Organic Chemistry, 2017, 82, 4993-4997.	3.2	19
14	Rhodiumâ€Catalyzed Addition of Aryl Boronic Acids to 2,2â€Disubstituted Malononitriles. Angewandte Chemie - International Edition, 2017, 56, 6999-7002.	13.8	27
15	Contact sensitizers trigger human CD1â€autoreactive Tâ€cell responses. European Journal of Immunology, 2017, 47, 1171-1180.	2.9	27
16	Pd-Catalyzed Acyl Câ€“O Bond Activation for Selective Ring-Opening of Î±-Methylene-Î²-lactones with Amines. Organic Letters, 2017, 19, 1966-1969.	4.6	25
17	Rh-Catalyzed Conjugate Addition of Aryl and Alkenyl Boronic Acids to Î±-Methylene-Î²-lactones: Stereoselective Synthesis of trans-3,4-Disubstituted Î²-Lactones. Organic Letters, 2017, 19, 4460-4463.	4.6	9
18	Scaling Proteome-Wide Reactions of Activity-Based Probes. Analytical Chemistry, 2017, 89, 6295-6299.	6.5	5

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19	Rhodiumâ€Catalyzed Transnitrilation of Aryl Boronic Acids with Dimethylmalononitrile. Angewandte Chemie - International Edition, 2016, 55, 326-330.	13.8	54
20	Atypical natural killer T-cell receptor recognition of CD1dâ€“lipid antigens. Nature Communications, 2016, 7, 10570.	12.8	34
21	Nickelâ€•or Cobaltâ€Catalyzed Crossâ€Coupling of Arylsulfonic Acid Salts with Grignard Reagents. Advanced Synthesis and Catalysis, 2015, 357, 2199-2204.	4.3	17
22	A solvent-free approach to glycosyl amides: toward the synthesis of Î±- N -galactosyl ceramides. Tetrahedron Letters, 2015, 56, 3583-3586.	1.4	7
23	The Alpha and Omega of Galactosylceramides in T Cell Immune Function. Journal of Biological Chemistry, 2015, 290, 15365-15370.	3.4	18
24	Immunomodulatory lysophosphatidylserines are regulated by ABHD16A and ABHD12 interplay. Nature Chemical Biology, 2015, 11, 164-171.	8.0	123
25	Recent Applications of Oxetanes in the Synthesis of Heterocyclic Compounds. Journal of Organic Chemistry, 2015, 80, 8489-8495.	3.2	107
26	Lipid and Carbohydrate Modifications of Î±-Galactosylceramide Differently Influence Mouse and Human Type I Natural Killer T Cell Activation. Journal of Biological Chemistry, 2015, 290, 17206-17217.	3.4	15
27	Pt-Catalyzed Rearrangement of Oxaspirohexanes to 3-Methylenetetrahydrofurans: Scope and Mechanism. Journal of Organic Chemistry, 2015, 80, 5196-5209.	3.2	19
28	Selective Conditions Are Required for the Induction of Invariant NKT Cell Hyporesponsiveness by Antigenic Stimulation. Journal of Immunology, 2015, 195, 3838-3848.	0.8	21
29	Combining cross-metathesis and activity-based protein profiling: New Î²-lactone motifs for targeting serine hydrolases. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 317-321.	2.2	25
30	Synthesis of a 2êžŒêžŒ-Deoxy-Î²-GalCer. Molecules, 2014, 19, 10090-10102.	3.8	7
31	OMSâ€2 for Aerobic, Catalytic, Oneâ€pot Alcohol Oxidationâ€Wittig Reactions: Efficient Access to Î±,Î²â€Unsaturated Esters. ChemCatChem, 2014, 6, 749-752.	3.7	32
32	The molecular bases of Î´/Î±Î² T cellâ€“mediated antigen recognition. Journal of Experimental Medicine, 2014, 211, 2599-2615.	8.5	52
33	Silicon Acceleration of a Tandem Alkene Isomerization/Electrocyclic Ring-opening of 2-Methyleneoxetanes to Î±,Î²-Unsaturated Methylketones. Journal of Organic Chemistry, 2013, 78, 11213-11220.	3.2	9
34	Cloning and Characterization of a Hybridoma Secreting a 4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanone (NNK)-Specific Monoclonal Antibody and Recombinant F(ab). Toxins, 2013, 5, 568-589.	3.4	1
35	Human and Mouse Type I Natural Killer T Cell Antigen Receptors Exhibit Different Fine Specificities for CD1d-Antigen Complex. Journal of Biological Chemistry, 2012, 287, 39139-39148.	3.4	34
36	Toward a Formal Synthesis of Laureatin: Unexpected Rearrangements Involving Cyclic Ether Nucleophiles. Journal of Organic Chemistry, 2012, 77, 7883-7890.	3.2	29

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37	Access to Oxetane-Containing psico-Nucleosides from 2-Methyleneoxetanes: A Role for Neighboring Group Participation?. Journal of Organic Chemistry, 2011, 76, 9962-9974.	3.2	26
38	A Rapid Fluorescence-Based Assay for Classification of iNKT Cell Activating Glycolipids. Journal of the American Chemical Society, 2011, 133, 5198-5201.	13.7	33
39	Glycolipids that Elicit IFN-Î³-Biased Responses from Natural Killer T Cells. Chemistry and Biology, 2011, 18, 1620-1630.	6.0	37
40	Mouse and human iNKT cell agonist Î²-mannosylceramide reveals a distinct mechanism of tumor immunity. Journal of Clinical Investigation, 2011, 121, 683-694.	8.2	41
41	A Molecular Basis for the Exquisite CD1d-Restricted Antigen Specificity and Functional Responses of Natural Killer T Cells. Immunity, 2011, 34, 327-339.	14.3	107
42	VÎ²2 natural killer T cell antigen receptor-mediated recognition of CD1d-glycolipid antigen. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19007-19012.	7.1	36
43	A CD1d-Dependent Antagonist Inhibits the Activation of Invariant NKT Cells and Prevents Development of Allergen-Induced Airway Hyperreactivity. Journal of Immunology, 2010, 184, 2107-2115.	0.8	43
44	Design and Synthesis of an Activity-Based Probe Template for Protein Kinases. Synlett, 2010, 2010, 1142-1142.	1.8	0
45	Design and Synthesis of an Activity-Based Probe Template for Protein Kinases. Synlett, 2010, 2010, 521-524.	1.8	0
46	Unexpected Cleavage of 2-Azido-2-(hydroxymethyl)oxetanes: Conformation Determines Reaction Pathway?. Journal of Organic Chemistry, 2010, 75, 7565-7572.	3.2	13
47	Î±-Galactosylceramide Analogs with Weak Agonist Activity for Human iNKT Cells Define New Candidate Anti-Inflammatory Agents. PLoS ONE, 2010, 5, e14374.	2.5	31
48	Recognition of Lyso-Phospholipids by Human Natural Killer T Lymphocytes. PLoS Biology, 2009, 7, e1000228.	5.6	203
49	T Cell Receptor CDR2Î² and CDR3Î² Loops Collaborate Functionally to Shape the iNKT Cell Repertoire. Immunity, 2009, 31, 60-71.	14.3	90
50	Adaptability of the semi-invariant natural killer T-cell receptor towards structurally diverse CD1d-restricted ligands. EMBO Journal, 2009, 28, 3579-3590.	7.8	45
51	Cross-metathesis of Î±-methylene-Î²-lactams: the first tetrasubstituted alkenes by CM. Tetrahedron Letters, 2009, 50, 1020-1022.	1.4	42
52	Kinetics and Cellular Site of Glycolipid Loading Control the Outcome of Natural Killer T Cell Activation. Immunity, 2009, 30, 888-898.	14.3	159
53	Synthesis and evaluation of an acyl-chain unsaturated analog of the Th2 biasing, immunostimulatory glycolipid, OCH. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 3386-3388.	2.2	18
54	Synthesis and evaluation of 3â€³- and 4â€³-deoxy and -fluoro analogs of the immunostimulatory glycolipid, KRN7000. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 4122-4125.	2.2	44

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55	Î±-S-GalCer: Synthesis and evaluation for iNKT cell stimulation. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 6374-6376.	2.2	34
56	Natural Sphingomonas Glycolipids Vary Greatly in Their Ability to Activate Natural Killer T Cells. Chemistry and Biology, 2008, 15, 654-664.	6.0	61
57	Synthesis of epi-Oxetin via a Serine-Derived 2-Methyleneoxetane. Journal of Organic Chemistry, 2008, 73, 517-521.	3.2	28
58	Regulatory Roles for NKT Cell Ligands in Environmentally Induced Autoimmunity. Journal of Immunology, 2008, 181, 6779-6788.	0.8	12
59	A minimal binding footprint on CD1d-glycolipid is a basis for selection of the unique human NKT TCR. Journal of Experimental Medicine, 2008, 205, 939-949.	8.5	83
60	Natural killer T-cell autoreactivity leads to a specialized activation state. Blood, 2008, 112, 4128-4138.	1.4	39
61	Improved Outcomes in NOD Mice Treated with a Novel Th2 Cytokine-Biasing NKT Cell Activator. Journal of Immunology, 2007, 178, 1415-1425.	0.8	81
62	Synthesis and Reactions of 2-Alkylidene Thiiranes and Thietanes. Synthesis, 2007, 2007, 2755-2778.	2.3	1
63	Rapid Identification of Immunostimulatory Î±-Galactosylceramides Using Synthetic Combinatorial Libraries. ACS Combinatorial Science, 2007, 9, 1084-1093.	3.3	14
64	Cross Metathesis of Î±-Methylene Lactones II:Â Î³- and Î´-Lactones. Organic Letters, 2007, 9, 1699-1701.	4.6	49
65	2-Alkylidene oxetanes by stereospecific elimination of mesylates. Tetrahedron Letters, 2007, 48, 8353-8355.	1.4	7
66	3-Silyloxytetrahydrofurans via sulfoxonium ylide reactions with Î±-silyloxyepoxides. Tetrahedron Letters, 2007, 48, 8356-8359.	1.4	8
67	Production and characterization of monoclonal antibodies against complexes of the NKT cell ligand Î±-galactosylceramide bound to mouse CD1d. Journal of Immunological Methods, 2007, 323, 11-23.	1.4	65
68	SYNTHESIS AND PROPERTIES OFPSICO-NUCLEOSIDES. Organic Preparations and Procedures International, 2006, 38, 101-176.	1.3	10
69	Cross Metathesis with Strained Exocyclic Enones:â€‰ Synthesis of 3-Alkylideneoxetan-2-ones from 3-Methyleneoxetan-2-ones. Organic Letters, 2006, 8, 2139-2141.	4.6	32
70	T-bet concomitantly controls migration, survival, and effector functions during the development of VÎ±14i NKT cells. Blood, 2006, 107, 2797-2805.	1.4	136
71	Approaches to the Preparation of Sphinganines. ChemInform, 2005, 36, no.	0.0	0
72	Synthesis and Evaluation of Sphinganine Analogues of KRN7000 and OCH. Journal of Organic Chemistry, 2005, 70, 10260-10270.	3.2	87

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73	Multiphoton Excited Fabrication of Collagen Matrixes Cross-Linked by a Modified Benzophenone Dimer:Â Bioactivity and Enzymatic Degradation. Biomacromolecules, 2005, 6, 1465-1474.	5.4	86
74	The T cell antigen receptor expressed by VÂ14i NKT cells has a unique mode of glycosphingolipid antigen recognition. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12254-12259.	7.1	90
75	Straightforward Synthesis of Sphinganines (V) and (XI) via a Serine-Derived Weinreb Amide.. ChemInform, 2004, 35, no.	0.0	0
76	Approaches to the preparation of sphinganines. Tetrahedron, 2004, 60, 11327-11347.	1.9	70
77	Straightforward Synthesis of Sphinganines via a Serine-derived Weinreb Amide. Journal of Organic Chemistry, 2004, 69, 3233-3235.	3.2	53
78	Ring Opening Reactions of 2-Methyleneoxetanes.. ChemInform, 2003, 34, no.	0.0	0
79	Unusual, Strained Heterocycles: 3-Alkylidene-2-methyleneoxetanes from Moritaâ€"Baylisâ€"Hillman-Type Adducts.. ChemInform, 2003, 34, no.	0.0	0
80	Directed Ring-Opening of 1,5-Dioxaspiro[3.2]hexanes: Selective Formation of 2,2-Disubstituted Oxetanes.. ChemInform, 2003, 34, no.	0.0	0
81	Unusual, Strained Heterocycles:â€‰ 3-Alkylidene-2-methyleneoxetanes from Moritaâˆ'Baylisâˆ'Hillman-type Adducts. Organic Letters, 2003, 5, 399-402.	4.6	40
82	Directed Ring-Opening of 1,5-Dioxaspiro[3.2]hexanes:Â Selective Formation of 2,2-Disubstituted Oxetanes. Journal of Organic Chemistry, 2003, 68, 1480-1488.	3.2	20
83	The Preparation and Biological Significance of Phytosphingosines. Current Organic Chemistry, 2002, 6, 365-391.	1.6	71
84	New Photoactivators for Multiphoton Excited Three-dimensional Submicron Cross-linking of Proteins: Bovine Serum Albumin and Type 1 CollagenÂ¶â€. Photochemistry and Photobiology, 2002, 76, 135.	2.5	62
85	Synthesis ofd-erythro-Dihydrosphingosine andd-xylo-Phytosphingosine from a Serine-Derived 1,5-Dioxaspiro[3.2]hexane Template. Organic Letters, 2002, 4, 1719-1722.	4.6	50
86	Ring opening reactions of 2-methyleneoxetanes. Tetrahedron, 2002, 58, 7101-7107.	1.9	16
87	The Role of Lattice Oxygen in Selective Benzyl Alcohol Oxidation Using OMS-2 Catalyst: A Kinetic and Isotope-Labeling Study. Journal of Catalysis, 2002, 210, 46-52.	6.2	269
88	New Photoactivators for Multiphoton Excited Three-dimensional Submicron Cross-linking of Proteins: Bovine Serum Albumin and Type 1 CollagenÂ¶â€. Photochemistry and Photobiology, 2002, 76, 135-144.	2.5	3
89	Preparation and reactions of 4-oxaspiro[2.3]hexanes. New Journal of Chemistry, 2001, 25, 673-675.	2.8	13
90	Efficient, Catalytic, Aerobic Oxidation of Alcohols with Octahedral Molecular Sieves. Angewandte Chemie - International Edition, 2001, 40, 4280-4283.	13.8	298

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91	An unusual and efficient reaction of 2-methylene-3-phenyloxetane in the presence of lithium and 4,4â€²-di-tert-butylbiphenyl in THF. Tetrahedron Letters, 2000, 41, 1859-1862.	1.4	7
92	The reaction of dimethyltitanocene with N-substituted-Î²-lactams. Tetrahedron Letters, 2000, 41, 5607-5611.	1.4	25
93	Reductive cleavage of 2-methyleneoxetanes with lithium and 4,4â€²-di-tert-butylbiphenyl. Tetrahedron Letters, 2000, 41, 1855-1858.	1.4	27
94	3-Dimensional Submicron Polymerization of Acrylamide by Multiphoton Excitation of Xanthene Dyes. Macromolecules, 2000, 33, 1511-1513.	4.8	106
95	1-Iodomethyl-3,4-diphenyl-2,6-dioxabicyclo[2.2.0]hexane: the first example of a [2.2.0] fused ketal. Tetrahedron Letters, 1999, 40, 7051-7053.	1.4	15
96	Ring Opening of 1,5-Dioxaspiro[3.2]hexanes:â€‰ Selective Preparation of Î±-Heterofunctionalized-Î²â€˜-hydroxy Ketones or 2,2-Disubstituted Oxetanes. Organic Letters, 1999, 1, 825-827.	4.6	25
97	Preparation and Properties of 2-Methyleneoxetanes. Journal of Organic Chemistry, 1999, 64, 7074-7080.	3.2	55
98	A 2-methyleneoxetane analog of orlistat demonstrating inhibition of porcine pancreatic lipase. Bioorganic and Medicinal Chemistry Letters, 1998, 8, 977-978.	2.2	28
99	An Unanticipated Ring-Opening of 2-Methyleneoxetanes:Â A Fundamentally New Approach to the Preparation of Homopropargylic Alcohols. Journal of Organic Chemistry, 1998, 63, 6782-6783.	3.2	46
100	The First General Synthesis of 1,5-Dioxaspiro[3.2]hexanes. Journal of Organic Chemistry, 1998, 63, 6098-6099.	3.2	34
101	A Versatile Preparation of 2-Methyleneoxetanes. Journal of Organic Chemistry, 1996, 61, 7248-7249.	3.2	43
102	Preparation of 2-alkylidene oxetanes: An investigation of the Paterno-BÃ¼chi reaction between aliphatic aldehydes and allenes. Tetrahedron Letters, 1996, 37, 8651-8654.	1.4	25
103	Synthesis and binding activity of 4â€²-azanicotine. Journal of Heterocyclic Chemistry, 1991, 28, 1147-1151.	2.6	5
104	Regioselective hydroxylations of 1,3-dienes via hydrocobaltation reactions. Facile conversion of myrcene to geraniol and to (Â±)-linalool. Journal of the Chemical Society Chemical Communications, 1990, , 103-104.	2.0	25
105	Hydrocobaltation reactions of 1,3-dienes. Regioselective hydroxylation of myrcene to geraniol and to (Ã±)-linalool via allylcobaloxime intermediates. Journal of the Chemical Society Perkin Transactions 1, 1990, , 2715-2720.	0.9	27
106	Redox glycosidation: a new strategy for disaccharide synthesis. Journal of the American Chemical Society, 1989, 111, 1392-1396.	13.7	40
107	Redox glycosidation via thionoester intermediates. Journal of Organic Chemistry, 1989, 54, 2275-2277.	3.2	37
108	Application of (chloromethyl)aluminum 2-(2-propenyl)anilide in the conversion of .gamma.- and .delta.-lactones into protected hydroxy acids. Journal of Organic Chemistry, 1989, 54, 3321-3324.	3.2	19

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109	Stereospecificity of 2-methylpiperidine binding to a nicotinic up-regulatory site in the rat brain P2 preparation. Life Sciences, 1985, 37, 1367-1372.	4.3	9