

# Kay M Brummond

## List of Publications by Year in descending order

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65  
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144013

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times ranked

2719  
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#	ARTICLE	IF	CITATIONS
1	Rh(I)-Catalyzed Allenic Pauson-Khand Reaction to Access the Thapsigargin Core: Influence of Furan and Allenyl Chloroacetate Groups on Enantioselectivity. <i>Organic Letters</i> , 2022, 24, 995-999.	4.6	1
2	Mechanism and Origins of Enantioselectivity in the Rh(I)-Catalyzed Pauson-Khand Reaction: Comparison of Bidentate and Monodentate Chiral Ligands. <i>ACS Catalysis</i> , 2021, 11, 323-336.	11.2	15
3	Thiol Reactivity of <i>N</i> -Aryl $\alpha$ -Methylene- $\beta$ -lactams: A Reactive Group for Targeted Covalent Inhibitor Design. <i>Journal of Organic Chemistry</i> , 2021, 86, 11926-11936.	3.2	6
4	Synthesis of Guaianolide Analogues with a Tunable $\alpha$ -Methylene- $\beta$ -lactam Electrophile and Correlating Bioactivity with Thiol Reactivity. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 14951-14978.	6.4	17
5	Metal-Free C-C Coupling of an Allenyl Sulfone with Picolyl Amides to Access Vinyl Sulfones via Pyridine-Initiated In Situ Generation of Sulfinato Anion. <i>Journal of Organic Chemistry</i> , 2020, 85, 7959-7975.	3.2	7
6	Intramolecular Didehydro-Diels-Alder Reaction for the Synthesis of Benzo- and Dihydrobenzo-Fused Heterocycles. <i>Organic Letters</i> , 2017, 19, 1500-1503.	4.6	21
7	Covalent Modifiers: A Chemical Perspective on the Reactivity of $\alpha,\beta$ -Unsaturated Carbonyls with Thiols via Hetero-Michael Addition Reactions. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 839-885.	6.4	359
8	Computationally Guided Catalyst Design in the Type I Dynamic Kinetic Asymmetric Pauson-Khand Reaction of Allenyl Acetates. <i>Journal of the American Chemical Society</i> , 2017, 139, 15022-15032.	13.7	42
9	Alkyne Ligation Handles: Propargylation of Hydroxyl, Sulfhydryl, Amino, and Carboxyl Groups via the Nicholas Reaction. <i>Organic Letters</i> , 2016, 18, 4566-4569.	4.6	11
10	Conditions for a Rh(I)-catalyzed [2+2+1] cycloaddition reaction with methyl substituted allenes and alkynes. <i>Tetrahedron Letters</i> , 2015, 56, 3546-3549.	1.4	9
11	Mechanistic Insight into the Dehydro-Diels-Alder Reaction of Styrene-Ynes. <i>Journal of Organic Chemistry</i> , 2015, 80, 11686-11698.	3.2	47
12	Intramolecular Didehydro-Diels-Alder Reaction and Its Impact on the Structure-Function Properties of Environmentally Sensitive Fluorophores. <i>Accounts of Chemical Research</i> , 2015, 48, 2320-2329.	15.6	47
13	Enantioselective Synthesis of 5,7-Bicyclic Ring Systems from Axially Chiral Allenes Using a Rh(I)-Catalyzed Cyclocarbonylation Reaction. <i>Journal of Organic Chemistry</i> , 2013, 78, 3737-3754.	3.2	41
14	A Redox Economical Synthesis of Bioactive 6,12-Guaianolides. <i>Organic Letters</i> , 2013, 15, 2644-2647.	4.6	25
15	A Thermal Dehydrogenative Diels-Alder Reaction of Styrenes for the Concise Synthesis of Functionalized Naphthalenes. <i>Organic Letters</i> , 2012, 14, 4430-4433.	4.6	62
16	Synthesis and in silico screening of a library of $\beta$ -carboline-containing compounds. <i>Beilstein Journal of Organic Chemistry</i> , 2012, 8, 1048-1058.	2.2	10
17	An Allenic Pauson-Khand Approach to 6,12-Guaianolides. <i>Organic Letters</i> , 2011, 13, 6304-6307.	4.6	36
18	Diverging DOS Strategy Using an Allene-Containing Tryptophan Scaffold and a Library Design that Maximizes Biologically Relevant Chemical Space While Minimizing the Number of Compounds. <i>ACS Combinatorial Science</i> , 2011, 13, 166-174.	3.8	18

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19	Complete transfer of chirality in an intramolecular, thermal [2 + 2] cycloaddition of allene-yne to form non-racemic spirooxindoles. <i>Beilstein Journal of Organic Chemistry</i> , 2011, 7, 601-605.	2.2	17
20	Chemical methodology as a source of small-molecule checkpoint inhibitors and heat shock protein 70 (Hsp70) modulators. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 6757-6762.	7.1	63
21	Allene chemistry. <i>Beilstein Journal of Organic Chemistry</i> , 2011, 7, 394-395.	2.2	6
22	A thermally-induced, tandem [3,3]-sigmatropic rearrangement/[2 + 2] cycloaddition approach to carbocyclic spirooxindoles. <i>Beilstein Journal of Organic Chemistry</i> , 2010, 6, 33.	2.2	5
23	Differentiating Mechanistic Possibilities for the Thermal, Intramolecular [2 + 2] Cycloaddition of Allene-Ynes. <i>Journal of the American Chemical Society</i> , 2010, 132, 11952-11966.	13.7	94
24	Synthesis of the Naturally Occurring (-)-1,3,5-Tri-O-Caffeoylquinic Acid. <i>Synlett</i> , 2009, 2009, 1517-1519.	1.8	7
25	Rh(I)-Catalyzed Cyclocarbonylation of Allenol Esters To Prepare Acetoxy 4-Alkylidenecyclopent-3-en-2-ones. <i>Journal of Organic Chemistry</i> , 2009, 74, 8314-8320.	3.2	27
26	Design and Synthesis of a Library of Tetracyclic Hydroazulenoisoindoles. <i>ACS Combinatorial Science</i> , 2009, 11, 486-494.	3.3	14
27	Diverging Rh(I)-Catalyzed Carbocyclization Strategy to Prepare a Library of Unique Cyclic Ethers. <i>ACS Combinatorial Science</i> , 2008, 10, 235-246.	3.3	25
28	Mo(CO) <sub>6</sub> - and [Rh(CO) <sub>2</sub> Cl] <sub>2</sub> -Catalyzed Allenic Cyclocarbonylation Reactions of Alkynones: Efficient Access to Bicyclic Dienediones. <i>Organic Letters</i> , 2008, 10, 705-708.	4.6	42
29	Chapter 9 Rhodium-catalyzed cycloisomerization reactions of allenes in diversity-oriented synthesis. <i>Strategies and Tactics in Organic Synthesis</i> , 2008, 7, 328-X.	0.1	0
30	A General Synthetic Route to Differentially Functionalized Angularly and Linearly Fused [6 <sup>5</sup> ] Ring Systems: A Rh(I)-Catalyzed Cyclocarbonylation Reaction. <i>Journal of Organic Chemistry</i> , 2008, 73, 5064-5068.	3.2	37
31	Rhodium(I)-Catalyzed Cycloisomerization Reaction of Yne-Allenamides: An Approach to Cyclic Enamides. <i>Synlett</i> , 2008, 2008, 2303-2308.	1.8	23
32	A Rh(I)-Catalyzed Cycloisomerization Reaction Affording Cyclic Trienones. <i>Synlett</i> , 2008, 2008, 759-764.	1.8	13
33	Structurally Unique Inhibitors of Human Mitogen-Activated Protein Kinase Phosphatase-1 Identified in a Pyrrole Carboxamide Library. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007, 322, 940-947.	2.5	24
34	Rhodium(I)-Catalyzed Allenic Carbocyclization Reaction Affording $\gamma$ - and $\mu$ -Lactams. <i>Organic Letters</i> , 2007, 9, 347-349.	4.6	41
35	Computational Insight Concerning Catalytic Decision Points of the Transition Metal Catalyzed [2 + 2 + 1] Cyclocarbonylation Reaction of Allenes. <i>Organometallics</i> , 2006, 25, 5204-5206.	2.3	32
36	Solution-Phase Synthesis of a Tricyclic Pyrrole-2-Carboxamide Discovery Library Applying a Stetter-Paal-Knorr Reaction Sequence. <i>ACS Combinatorial Science</i> , 2006, 8, 368-380.	3.3	36

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37	The allenic Alder-ene reaction: constitutional group selectivity and its application to the synthesis of ovalicin. <i>Tetrahedron</i> , 2006, 62, 10541-10554.	1.9	19
38	Cycloaddition Reactions of Amino-Acid Derived Cross-Conjugated Trienes: Stereoselective Synthesis of Novel Heterocyclic Scaffolds. <i>Heterocycles</i> , 2006, 70, 367.	0.7	21
39	Consecutive Rh(I)-catalyzed Alder-ene/Diels-Alder reaction sequence affording rapid entry to polycyclic compounds. <i>Tetrahedron</i> , 2005, 61, 6180-6185.	1.9	55
40	The Rhodium(I)-Catalyzed Alder-Ene Reaction. , 2005, , 151-172.		8
41	Heterocyclic $\pm$ -Alkylidene Cyclopentenones Obtained via a Pauson-Khand Reaction of Amino Acid Derived Allenynes. A Scope and Limitation Study Directed Toward the Preparation of a Tricyclic Pyrrole Library.. <i>ChemInform</i> , 2005, 36, no.	0.0	0
42	Microwave-Assisted Intramolecular [2 + 2] Allenic Cycloaddition Reaction for the Rapid Assembly of Bicyclo[4.2.0]octa-1,6-dienes and Bicyclo[5.2.0]nona-1,7-dienes.. <i>ChemInform</i> , 2005, 36, no.	0.0	0
43	A Formal Total Synthesis of ( $\hat{\alpha}$ )-FR901483, Using a Tandem Cationic Aza-Cope Rearrangement/Mannich Cyclization Approach. <i>Journal of Organic Chemistry</i> , 2005, 70, 907-916.	3.2	67
44	Microwave-Assisted Intramolecular [2 + 2] Allenic Cycloaddition Reaction for the Rapid Assembly of Bicyclo[4.2.0]octa-1,6-dienes and Bicyclo[5.2.0]nona-1,7-dienes. <i>Organic Letters</i> , 2005, 7, 3473-3475.	4.6	100
45	Heterocyclic $\pm$ -Alkylidene Cyclopentenones Obtained via a Pauson-Khand Reaction of Amino Acid Derived Allenynes. A Scope and Limitation Study Directed toward the Preparation of a Tricyclic Pyrrole Library. <i>Journal of Organic Chemistry</i> , 2005, 70, 1745-1753.	3.2	50
46	Rhodium(I)-Catalyzed Ene-Allene Carbocyclization Strategy for the Formation of Azepines and Oxepines. <i>Organic Letters</i> , 2004, 6, 2161-2163.	4.6	65
47	Allenenes and Transition Metals: A Diverging Approach to Heterocycles. <i>Organic Letters</i> , 2004, 6, 2245-2248.	4.6	90
48	The First Total Synthesis of 15-Deoxy- $\hat{\nu}$ 12,14-prostaglandin $\hat{\nu}$ 2 and the Unambiguous Assignment of the C14 Stereochemistry. <i>Organic Letters</i> , 2004, 6, 149-152.	4.6	49
49	Chiral Nonracemic $\pm$ -Alkylidene and $\pm$ -Silylidene Cyclopentenones from Chiral Allenenes Using an Intramolecular Allenic Pauson-Khand-Type Cycloaddition.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
50	Unique Strategy for the Assembly of the Carbon Skeleton of Guanacastepene A Using an Allenic Pauson-Khand-Type Reaction. <i>Organic Letters</i> , 2003, 5, 3491-3494.	4.6	87
51	An Allenic Pauson-Khand-Type Reaction: A Reversal in $\hat{\nu}$ -Bond Selectivity and the Formation of Seven-Membered Rings. <i>Organic Letters</i> , 2002, 4, 1931-1934.	4.6	132
52	A Rhodium(I)-Catalyzed Formal Allenic Alder Ene Reaction for the Rapid and Stereoselective Assembly of Cross-Conjugated Trienes. <i>Journal of the American Chemical Society</i> , 2002, 124, 15186-15187.	13.7	173
53	Chiral Nonracemic $\pm$ -Alkylidene and $\pm$ -Silylidene Cyclopentenones from Chiral Allenenes Using an Intramolecular Allenic Pauson-Khand-Type Cycloaddition. <i>Journal of Organic Chemistry</i> , 2002, 67, 5156-5163.	3.2	73
54	A silicon-tethered allenic Pauson-Khand reaction. <i>Tetrahedron Letters</i> , 2002, 43, 3735-3738.	1.4	34

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55	Tandem Cationic aza-Cope Rearrangement~Mannich Cyclization Approach to the Core Structure of FR901483 via a Bridgehead Iminium Ion. <i>Organic Letters</i> , 2001, 3, 1347-1349.	4.6	56
56	Recent Advances in the Pauson~Khand Reaction and Related [2+2+1] Cycloadditions. <i>Tetrahedron</i> , 2000, 56, 3263-3283.	1.9	519
57	A Rapid Synthesis of Hydroxymethylacylfulvene (HMAF) Using the Allenic Pauson~Khand Reaction. A Synthetic Approach to Either Enantiomer of This Illudane Structure. <i>Journal of the American Chemical Society</i> , 2000, 122, 4915-4920.	13.7	58
58	Solid-Phase Synthesis of BRL 49653. <i>Journal of Organic Chemistry</i> , 1999, 64, 1723-1726.	3.2	26
59	A Short Synthesis of the Potent Antitumor Agent (±)-Hydroxymethylacylfulvene Using an Allenic Pauson-Khand Type Cycloaddition. <i>Journal of the American Chemical Society</i> , 1999, 121, 5087-5088.	13.7	83
60	An allenic [2+2+1] cycloaddition. <i>Advances in Cycloaddition</i> , 1999, , 211-237.	0.5	10
61	The allenic Pauson-Khand cycloaddition. Dependence in ï€-bond selectivity on substrate structure. <i>Tetrahedron Letters</i> , 1998, 39, 931-934.	1.4	53
62	An Intramolecular Allenic [2 + 2 + 1] Cycloaddition. <i>Journal of Organic Chemistry</i> , 1998, 63, 6535-6545.	3.2	77
63	Strategy for the Preparation of Allenes from Î±,Î²-Unsaturated and Saturated Ketones via Enol Phosphates. <i>Journal of Organic Chemistry</i> , 1996, 61, 6096-6097.	3.2	44
64	A new allenic Pauson-Khand cycloaddition for the preparation of Î±-methylene cyclopentenones. <i>Tetrahedron Letters</i> , 1995, 36, 2407-2410.	1.4	106
65	Stereoselective preparation of vinyl sulfones by protodesilylation of allyl silanes. <i>Tetrahedron Letters</i> , 1993, 34, 2867-2870.	1.4	13