

Roger Hunter

List of Publications by Year in descending order

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111
papers

2,933
citations

230014

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docs citations

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#	ARTICLE	IF	CITATIONS
1	The structures of the C146A variant of the amidase from <i>Pyrococcus horikoshii</i> bound to glutaramide and acetamide suggest the basis of amide recognition. <i>Journal of Structural Biology</i> , 2022, , 107859.	1.3	1
2	The Garlic Compound <i>ajoene</i> , <i>S</i> -Thiolates COX2 and STAT3 and Dampens the Inflammatory Response in RAW264.7 Macrophages. <i>Molecular Nutrition and Food Research</i> , 2021, 65, e2000854.	1.5	8
3	A Diverse Range of Hemozoin Inhibiting Scaffolds Act on <i>Plasmodium falciparum</i> as Heme Complexes. <i>ACS Infectious Diseases</i> , 2021, 7, 362-376.	1.8	11
4	A Review of Heterolytic Synthesis Methodologies for Organotri- and Organotetrasulfane Synthesis. <i>SynOpen</i> , 2021, 05, 49-64.	0.8	0
5	Crystalline Cu(II) metal-organic frameworks based on a carboxamide pincer ligand and an N ^{CO} N ^{CO} N ^{CO} Pd(II) pincer complex. <i>CrystEngComm</i> , 2021, 23, 7418-7424.	1.3	3
6	Towards the development of a targeted albumin-binding radioligand: Synthesis, radiolabelling and preliminary in vivo studies. <i>Nuclear Medicine and Biology</i> , 2021, 94-95, 53-66.	0.3	3
7	Synthesis of (+)-Tacamonine via Stereoselective Radical Cyclization. <i>Organic Letters</i> , 2019, 21, 8740-8745.	2.4	11
8	Unsymmetrical Organotrисульфide Formation via Low-Temperature Disulfanyl Anion Transfer to an Organothiosulfonate. <i>Journal of Organic Chemistry</i> , 2019, 84, 2862-2869.	1.7	5
9	The garlic compound ajoene covalently binds vimentin, disrupts the vimentin network and exerts anti-metastatic activity in cancer cells. <i>BMC Cancer</i> , 2019, 19, 248.	1.1	40
10	Hemozoin inhibiting 2-phenylbenzimidazoles active against malaria parasites. <i>European Journal of Medicinal Chemistry</i> , 2018, 159, 243-254.	2.6	25
11	Chemical Proteomics and Super-resolution Imaging Reveal That Chloroquine Interacts with <i>Plasmodium falciparum</i> Multidrug Resistance-Associated Protein and Lipids. <i>ACS Chemical Biology</i> , 2018, 13, 2939-2948.	1.6	26
12	Identification and Mechanistic Evaluation of Hemozoin-Inhibiting Triarylimidazoles Active against <i>Plasmodium falciparum</i> . <i>ACS Medicinal Chemistry Letters</i> , 2017, 8, 201-205.	1.3	17
13	Quaternized \pm -Amino Acids via Curtius Rearrangement of Substituted Malonate-Imidazolidinones. <i>Journal of Organic Chemistry</i> , 2017, 82, 10650-10658.	1.7	6
14	4-Aminoquinoline Antimalarials Containing a Benzylmethylpyridylmethylamine Group Are Active against Drug Resistant <i>Plasmodium falciparum</i> and Exhibit Oral Activity in Mice. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 10245-10256.	2.9	20
15	Shining new light on ancient drugs: preparation and subcellular localisation of novel fluorescent analogues of Cinchona alkaloids in intraerythrocytic <i>Plasmodium falciparum</i> . <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 589-597.	1.5	20
16	The Cytotoxicity of the Ajoene Analogue BisPMB in WHCO1 Oesophageal Cancer Cells Is Mediated by CHOP/GADD153. <i>Molecules</i> , 2017, 22, 892.	1.7	22
17	Synthesis and Structure-Activity Relations in Allylsulfide and Isothiocyanate Compounds From Garlic and Broccoli Against In Vitro Cancer Cell Growth. <i>Studies in Natural Products Chemistry</i> , 2016, , 1-43.	0.8	9
18	The cytotoxicity of garlic-related disulphides and thiosulfonates in WHCO1 oesophageal cancer cells is dependent on S-thiolation and not production of ROS. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 1439-1449.	1.1	39

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19	Catalytic enantioselective acyl transfer: the case for 4-PPY with a C-3 carboxamide peptide auxiliary based on synthesis and modelling studies. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 10914-10925.	1.5	7
20	Identification and SAR Evaluation of Hemozoin-Inhibiting Benzamides Active against <i>Plasmodium falciparum</i> . <i>Journal of Medicinal Chemistry</i> , 2016, 59, 6512-6530.	2.9	25
21	The garlic compound ajoene targets protein folding in the endoplasmic reticulum of cancer cells. <i>Molecular Carcinogenesis</i> , 2016, 55, 1213-1228.	1.3	32
22	Chemoselective room temperature E1cB N-cleavage of oxazolidinone hydrazides from enantioselective aldehyde α -hydrazination: synthesis of (+)-1,4-dideoxyallonojirimycin. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 1545-1549.	1.5	9
23	Stereoselective Formation of Quaternary Stereogenic Centers via Alkylation of α -Substituted Malonate-Imidazolidinones. <i>Journal of Organic Chemistry</i> , 2015, 80, 762-769.	1.7	9
24	Acetals: a new organocatalysis chemotype for one-pot enantioselective α -amination. <i>Tetrahedron Letters</i> , 2014, 55, 2295-2298.	0.7	6
25	In vitro antimalarial activity, α -haematin inhibition and structure-activity relationships in a series of quinoline triazoles. <i>European Journal of Medicinal Chemistry</i> , 2013, 69, 338-347.	2.6	43
26	New Excursions Into the Synthesis and Medicinal Chemistry of the Disulfide Bond. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2013, 188, 1497-1507.	0.8	2
27	Bifunctional Inhibition of Human Immunodeficiency Virus Type 1 Reverse Transcriptase: Mechanism and Proof-of-Concept as a Novel Therapeutic Design Strategy. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 3959-3968.	2.9	22
28	The Mechanism of the Amidases. <i>Journal of Biological Chemistry</i> , 2013, 288, 28514-28523.	1.6	28
29	Structure-activity studies on the anti-proliferation activity of ajoene analogues in WHCO1 oesophageal cancer cells. <i>European Journal of Medicinal Chemistry</i> , 2012, 50, 236-254.	2.6	53
30	Quinoline Antimalarials Containing a Dibemethin Group Are Active against Chloroquinone-Resistant <i>Plasmodium falciparum</i> and Inhibit Chloroquine Transport via the <i>P. falciparum</i> Chloroquine-Resistance Transporter (PfCRT). <i>Journal of Medicinal Chemistry</i> , 2011, 54, 6956-6968.	2.9	56
31	A series of structurally simple chloroquine chemosensitizing dibemethin derivatives that inhibit chloroquine transport by PfCRT. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 1729-1742.	2.6	22
32	Anti-Proliferative Activity of Synthetic Ajoene Analogues on Cancer Cell-Lines. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2011, 11, 260-266.	0.9	28
33	Facile One-Pot Synthesis of Carbamoylbenzotriazoles Directly from CO ₂ : Synthesis of Tolbutamide. <i>Synlett</i> , 2011, 2011, 2335-2338.	1.0	11
34	Garlic-derived anticancer agents: Structure and biological activity of ajoene. <i>BioFactors</i> , 2010, 36, 78-85.	2.6	61
35	Conjugates of plumbagin and phenyl-2-amino-1-thiogluconate inhibit MshB, a deacetylase involved in the biosynthesis of mycothiol. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 2501-2514.	1.4	32
36	One-pot synthesis of unsymmetrical disulfides using 1-chlorobenzotriazole as oxidant: Interception of the sulfenyl chloride intermediate. <i>Tetrahedron</i> , 2010, 66, 3228-3241.	1.0	34

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37	A high-yielding, one-pot preparation of unsymmetrical glycosyl disulfides using 1-chlorobenzotriazole as an in situ trapping/oxidizing agent. <i>Tetrahedron Letters</i> , 2010, 51, 5309-5312.	0.7	26
38	Modification, crosslinking and reactive electrospinning of a thermoplastic medical polyurethane for vascular graft applications. <i>Acta Biomaterialia</i> , 2010, 6, 2434-2447.	4.1	82
39	[d4U]-Spacer-[HI-236] double-drug inhibitors of HIV-1 reverse-transcriptase. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 4661-4673.	1.4	15
40	Synthesis and anti-prion activity evaluation of aminoquinoline analogues. <i>European Journal of Medicinal Chemistry</i> , 2010, 45, 5468-5473.	2.6	18
41	Inclusion of the allicin mimic <i>S</i> - <i>p</i> -tolyl <i>t</i> -butylthiosulphinate in β -cyclodextrin. <i>Supramolecular Chemistry</i> , 2009, 21, 611-617.	1.5	7
42	Interference with Hemozoin Formation Represents an Important Mechanism of Schistosomicidal Action of Antimalarial Quinoline Methanols. <i>PLoS Neglected Tropical Diseases</i> , 2009, 3, e477.	1.3	74
43	A new approach to indolo[2,3- <i>a</i>]quinolizidines through radical cyclization of 2-acyl-1-phenylthiotetrahydro- β -carbolines bearing pendent α,β -unsaturated esters. <i>Tetrahedron Letters</i> , 2009, 50, 6342-6346.	0.7	11
44	C-2-Aryl O-substituted HI-236 derivatives as non-nucleoside HIV-1 reverse-transcriptase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 10270-10280.	1.4	23
45	Substituted ajoenes as novel anti-cancer agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 5277-5279.	1.0	43
46	Efficient One-Pot Synthesis of Unsymmetrical Cysteine Disulfides. <i>Synlett</i> , 2008, 2008, 252-254.	1.0	11
47	Current Developments in the Synthesis and Biological Activity of HIV-1 Double-Drug Inhibitors. <i>Current Medicinal Chemistry</i> , 2007, 14, 1207-1220.	1.2	21
48	Vinylogous Mukaiyama aldol reactions with 4-oxy-2-trimethylsilyloxyprolines: relevance to castanospermine synthesis. <i>Beilstein Journal of Organic Chemistry</i> , 2007, 3, 38.	1.3	10
49	4,5-erythro/5,6-threo-Stereoselectivity in vinylogous Mukaiyama aldol addition of a silyloxyproline to a threose derivative: stereochemical rationalization and relevance to (+)-castanospermine synthesis. <i>Tetrahedron Letters</i> , 2007, 48, 2819-2822.	0.7	13
50	[d4U]-butyne-[HI-236] as a non-cleavable, bifunctional NRTI/NNRTI HIV-1 reverse-transcriptase inhibitor. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 2614-2617.	1.0	13
51	Solution chemistry of 1,15-bis(N,N-dimethyl)-5,11-dioxo-8-(N-benzyl)-1,4,8,12,15-pentaazapentadecane with metal ions of biological interest—Insights toward active metal ion containing therapeutics and diagnostic agents. <i>Dalton Transactions</i> , 2006, , 4029-4038.	1.6	6
52	Inexpensive, One-Pot Synthesis of Unsymmetrical Disulfides Using 1-Chlorobenzotriazole. <i>Journal of Organic Chemistry</i> , 2006, 71, 8268-8271.	1.7	93
53	Synthesis and characterization of chiral, bridged resorcinarenes as templates for asymmetric catalysis. <i>Tetrahedron</i> , 2006, 62, 977-991.	1.0	11
54	Enantioselective addition of diethylzinc to benzaldehyde catalysed by chiral, bridged resorcinarenes: a stereoselectivity model based on chirality transfer. <i>Tetrahedron</i> , 2006, 62, 992-1000.	1.0	25

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55	New methodology for 2-alkylation of 3-furoic acids: application to the synthesis of tethered UC-781/d4T bifunctional HIV reverse-transcriptase inhibitors. <i>Tetrahedron Letters</i> , 2005, 46, 4023-4026.	0.7	9
56	An efficient synthesis of 7-hydroxy-2,6-dimethylchromeno[3,4-d]oxazol-4-one—a protected fragment of novenammine. <i>Tetrahedron</i> , 2005, 61, 10683-10688.	1.0	23
57	Thiolsulfinate Allicin from Garlic: Inspiration for a New Antimicrobial Agent. <i>Annals of the New York Academy of Sciences</i> , 2005, 1056, 234-241.	1.8	40
58	New Methodology for 2-Alkylation of 3-Furoic Acids: Application to the Synthesis of Tethered UC-781/d4T Bifunctional HIV Reverse-Transcriptase Inhibitors.. <i>ChemInform</i> , 2005, 36, no.	0.1	0
59	Preparation, Thermal Behaviour and Solid-state Structures of Inclusion Complexes of Permethylated- β -cyclodextrin with the Garlic-derived Antithrombotics (E)- and (Z)-Ajoene. <i>Supramolecular Chemistry</i> , 2004, 16, 395-403.	1.5	15
60	Synthesis of the First Chiral, Functionalised-Bridged Resorcinarenes in Asymmetric Catalysis: Evidence for Intracavity Asymmetric Catalysis. <i>European Journal of Organic Chemistry</i> , 2004, 2004, 5126-5134.	1.2	25
61	The Effect of Aromatic Ethers on the Trimerisation of Ethylene using a Chromium Catalyst and Aryloxy Ligands. <i>Advanced Synthesis and Catalysis</i> , 2003, 345, 939-942.	2.1	59
62	Synthesis of 2-Deoxy-2-C-Alkylglucosides of myo-Inositol as possible inhibitors of a N-Deacetylase enzyme in the biosynthesis of mycothiol. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003, 13, 2045-2049.	1.0	20
63	Stereoselective tetrapyrido[2,1-a]isoindolone synthesis via carbanionic and radical intermediates: a model study for the Tacaman alkaloid D/E ring fusion. <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 2348-2356.	1.5	21
64	Synthesis of the Tricyclic Core of the Marine Alkaloid Lepadiformine. <i>Synlett</i> , 2003, 2003, 0271-0273.	1.0	20
65	Structure-Activity Relationships in 4-Aminoquinoline Antiplasmodials. The Role of the Group at the 7-Position. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 3531-3539.	2.9	215
66	A novel synthesis of noviose and its C-(4) epimer. <i>Tetrahedron Letters</i> , 2002, 43, 3141-3144.	0.7	12
67	Chiral, Non-racemic, Distally-bridged Resorcin[4]arenes as Models for Use in Asymmetric Processes. <i>Synlett</i> , 2001, 2001, 0412-0414.	1.0	12
68	Stereoselective tetrahydropyrido[2,1-a]isoindolone synthesis via carbanionic and radical intermediates: a model study for the Tacaman alkaloid D/E ring fusion. <i>Tetrahedron Letters</i> , 2000, 41, 3755-3758.	0.7	17
69	Intramolecular Diels-Alder reactions of 1-phenylsulfonylalka-1,2,3,4-tetraenes. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2000, , 3129-3139.	1.3	8
70	Structure-Function Relationships in Aminoquinolines: Effect of Amino and Chloro Groups on Quinoline-Hematin Complex Formation, Inhibition of β -Hematin Formation, and Antiplasmodial Activity. <i>Journal of Medicinal Chemistry</i> , 2000, 43, 283-291.	2.9	301
71	On the chemoselectivity and mechanism of desilylation of tert-butyldimethylsilyl ethers with TMSOTf. <i>Tetrahedron Letters</i> , 1999, 40, 3643-3646.	0.7	27
72	Resolution of albuterol acetonide. <i>Tetrahedron: Asymmetry</i> , 1999, 10, 2175-2189.	1.8	16

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73	Stereoselective benzylic α -acylamino radical cyclisation: a model study for the Tacaman indole alkaloid skeleton. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1997, , 71-76.	0.9	16
74	C α -H... π (Ar)...H α -C host-guest interactions in a novel air-stable cyanoborate clathrate. <i>Journal of Chemical Crystallography</i> , 1994, 24, 267-271.	0.5	4
75	Regioselective allylation of enol silyl ethers with α -heterosubstituted vinylthionium ions. <i>Tetrahedron Letters</i> , 1994, 35, 5481-5484.	0.7	8
76	Allylation using allyborates. <i>Tetrahedron</i> , 1994, 50, 871-888.	1.0	22
77	Allylation with Pummerer-generated substituted vinylthionium ions. <i>Tetrahedron</i> , 1994, 50, 9365-9376.	1.0	10
78	Allylation with substituted vinylthionium ions from SnCl ₄ ionisation of 1,3- and 3,3-bis(alkyl/phenylthio) propenes. <i>Tetrahedron</i> , 1994, 50, 9377-9398.	1.0	6
79	The First Water-Dependent Liquid Clathrate: X-Ray Evidence in the Solid for a C π -H α \cdots π (Heteroarene) α \cdots H α -C Interaction. <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 566-568.	4.4	66
80	Technetium-99m labelling of bis-oxime ligands. <i>Applied Radiation and Isotopes</i> , 1994, 45, 581-586.	0.7	3
81	Preparation and structure of an air stable sodium cyanoborate salt. <i>Supramolecular Chemistry</i> , 1994, 4, 77-81.	1.5	0
82	Methanol Conversion to Hydrocarbons over Zeolite H-ZSM-5: Investigation of the Role of CO and Ketene in the Formation of the Initial C π -C Bond. <i>Journal of Catalysis</i> , 1993, 142, 602-616.	3.1	30
83	A selectivity study of activated ketal reduction with borane dimethyl sulfide. <i>Journal of Organic Chemistry</i> , 1993, 58, 6756-6765.	1.7	32
84	Alkylation of enol silyl ethers with vinylthionium ions generated from 1,1- and 1,3-bis(phenylthio)propenes.. <i>Tetrahedron Letters</i> , 1992, 33, 5413-5416.	0.7	11
85	A comparative evaluation of cobalt chromium oxide, cobalt manganese oxide, and copper manganese oxide as catalysts for the water-gas shift reaction. <i>Journal of Catalysis</i> , 1992, 137, 408-422.	3.1	55
86	Reduction of activated ketals with borane-dimethyl sulphide. <i>Tetrahedron Letters</i> , 1991, 32, 1095-1098.	0.7	23
87	Methanol conversion to hydrocarbons over H-ZSM-5: Further evidence for the role of NO. <i>Catalysis Letters</i> , 1990, 4, 7-14.	1.4	3
88	Hydrocarbon formation from methanol and dimethyl ether: a review of the experimental observations concerning the mechanism of formation of the primary products. <i>Catalysis Today</i> , 1990, 6, 279-306.	2.2	125
89	Synthesis of two pyrrolidine alkaloids, peripentadenine and dinorperipentadenine. <i>Tetrahedron Letters</i> , 1989, 30, 4879-4880.	0.7	12
90	Allylation using organoborates and activated acetals. <i>Tetrahedron Letters</i> , 1989, 30, 2013-2016.	0.7	23

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91	Cobalt-manganese oxide water-gas shift catalysts. A kinetic and mechanistic study. Journal of the Chemical Society Faraday Transactions I, 1989, 85, 363.	1.0	11
92	Steric effects associated with monosubstituted cyclopentadienyl transition-metal complexes. Synthesis and NMR spectroscopic and molecular mechanics study of [(eta-5-C5H4Bu-tert)Fe(CO)(L)] complexes and crystal structure determination of [(eta-5-C5H4Bu-tert)Fe(CO)(PPh3)]I. Inorganic Chemistry, 1989, 28, 3855-3860.	1.9	28
93	CO hydrogenation using cobalt/manganese oxide catalysts. Comments on the mechanism of carbon-carbon bond formation. Journal of the Chemical Society Faraday Transactions I, 1989, 85, 2875.	1.0	26
94	Reactivation of zeolite and oxide catalysts using nitrous oxide. Journal of the Chemical Society Faraday Transactions I, 1989, 85, 633.	1.0	11
95	Alkylation of enol silyl ethers by Pummerer-generated vinylthionium ions: a novel masked Michael reaction. Journal of the Chemical Society Perkin Transactions 1, 1989, , 1631.	0.9	13
96	The scope of a new masked Michael reaction involving a Pummerer intermediate. Tetrahedron Letters, 1988, 29, 2257-2260.	0.7	26
97	Methanol and dimethyl ether conversion to hydrocarbons using tungsten trioxide/alumina as catalyst. A study of Catalyst reactivation. Applied Catalysis, 1988, 41, 253-259.	1.1	10
98	Hydrocarbon formation from methanol and dimethyl ether using WO3/Al2O3 and H-ZSM-5 catalysts. A mechanistic investigation using model reagents. Journal of the Chemical Society Faraday Transactions I, 1988, 84, 1311.	1.0	29
99	CO hydrogenation in the presence of added oxygen: new evidence on the reaction mechanism. Journal of the Chemical Society Chemical Communications, 1988, , 512.	2.0	3
100	Comments on "kinetic model for methanol conversion to olefins" with respect to methane formation at low conversion. Industrial & Engineering Chemistry Research, 1987, 26, 635-637.	1.8	28
101	Mechanistic studies on initial C-C bond formation in the zeolite ZSM-5 catalysed methanol conversion reaction: evidence against a radical pathway. Journal of the Chemical Society Chemical Communications, 1987, , 843-844.	2.0	15
102	Hydrocarbon formation from methanol using WO3/Al2O3 and zeolite H-ZSM-5 catalysts: further evidence on the reaction mechanism. Journal of the Chemical Society Chemical Communications, 1987, , 377.	2.0	10
103	Methanol conversion to hydrocarbons over the zeolite catalyst H-ZSM-5 in the presence of oxygen and nitric oxide: further evidence against a radical reaction mechanism. Journal of the Chemical Society Chemical Communications, 1987, , 1369.	2.0	9
104	Hydrocarbon formation from methylating agents over the zeolite catalyst ZSM-5. Comments on the mechanism of carbon-carbon bond and methane formation. Journal of the Chemical Society Faraday Transactions I, 1987, 83, 571.	1.0	90
105	A versatile vinyl sulphide synthesis using benzenesulphenyl chloride. Tetrahedron Letters, 1987, 28, 2985-2988.	0.7	25
106	Reaction of ethyl diazoacetate with the zeolite catalyst H-ZSM-5: a model study of carbon-carbon bond formation. Journal of the Chemical Society Chemical Communications, 1986, , 1006-1008.	2.0	3
107	Alkylation of silyl enol ethers with pummerer generated vinyl thionium ions. Tetrahedron Letters, 1986, 27, 1385-1386.	0.7	27
108	Hydrocarbon formation over the zeolite catalyst ZSM-5 using model reagents: Comments on the primary reaction products. Journal of Catalysis, 1986, 101, 224-226.	3.1	4

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109	LiAl(OPri) ₄ as a model compound for the conjugate base of the zeolite catalyst H-ZSM-5 and its reaction with various methylating agents. Journal of the Chemical Society Chemical Communications, 1985, , 886.	2.0	6
110	Detection of deuteride shifts in the biosynthesis of the fungal triprenylphenol, ascochlorin, by ¹³ C nuclear magnetic resonance spectroscopy following incorporation of [3- ¹³ C, 4- ² H ₂] -mevalonic acid. Tetrahedron Letters, 1978, 19, 5051-5054.	0.7	8
111	Use of deuterium as a tracer with ¹³ C nuclear magnetic resonance spectroscopy in following deuteride migration in terpenoid biosynthesis: mechanism of geranylgeranyl pyrophosphate cyclisation in fusicoccin biosynthesis. Journal of the Chemical Society Chemical Communications, 1978, , 843.	2.0	12