Robert P Davies

List of Publications by Year
in descending order

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70	1,920	236925	289244
papers	citations	25 h-index	40 g-index

73	73	73	2205
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	First example of solid-state luminescent borasiloxane-based chiral helices assembled through Nâ€“B bonds. Dalton Transactions, 2021, 50, 3782-3785.	3.3	8
2	Studies on metalâ€“organic framework (MOF) nanomedicine preparations of sildenafil for the future treatment of pulmonary arterial hypertension. Scientific Reports, 2021, 11, 4336.	3.3	12
3	Internalization of Metalâ€“Organic Framework Nanoparticles in Human Vascular Cells: Implications for Cardiovascular Disease Therapy. Nanomaterials, 2020, 10, 1028.	4.1	10
4	Stable metalâ€“organic frameworks with low water affinity built from methyl-siloxane linkers. Chemical Communications, 2020, 56, 7905-7908.	4.1	7
5	New Insights into the Reaction Capabilities of Ionic Organic Bases in Cuâ€Catalyzed Amination. European Journal of Organic Chemistry, 2019, 2019, 1944-1951.	2.4	10
6	Metalâ€“Organic Frameworks Constructed from Group 1 Metals (Li, Na) and Silicon-Centered Linkers. Crystal Growth and Design, 2019, 19, 487-497.	3.0	12
7	Studies on the structural diversity of MOFs containing octahedral siloxane-backboned connectors. Polyhedron, 2019, 157, 25-32.	2.2	4
8	Encapsulation of Crabtree's Catalyst in Sulfonated MIL-101(Cr): Enhancement of Stability and Selectivity between Competing Reaction Pathways by the MOF Chemical Microenvironment. Angewandte Chemie, 2018, 130, 4622-4627.	2.0	7
9	Encapsulation of Crabtree's Catalyst in Sulfonated MILâ€101(Cr): Enhancement of Stability and Selectivity between Competing Reaction Pathways by the MOF Chemical Microenvironment. Angewandte Chemie - International Edition, 2018, 57, 4532-4537.	13.8	52
10	Mechanistic and Performance Studies on the Ligand-Promoted Ullmann Amination Reaction. ACS Catalysis, 2018, 8, 101-109.	11.2	34
11	Trisiloxane-centred metalâ€“organic frameworks and hydrogen bonded assemblies. CrystEngComm, 2018, 20, 4541-4545.	2.6	4
12	Copper-catalysed aromatic-Finkelstein reactions with amine-based ligand systems. Catalysis Science and Technology, 2017, 7, 2110-2117.	4.1	21
13	Chemical and biological assessment of metal organic frameworks (MOFs) in pulmonary cells and in an acute in vivo model: relevance to pulmonary arterial hypertension therapy. Pulmonary Circulation, 2017, 7, 643-653.	1.7	33
14	Siloxane-based linkers in the construction of hydrogen bonded assemblies and porous 3D MOFs. Chemical Communications, 2017, 53, 12524-12527.	4.1	26
15	Mechanistic Studies on the Copper-Catalyzed N-Arylation of Alkylamines Promoted by Organic Soluble Ionic Bases. ACS Catalysis, 2016, 6, 3965-3974.	11.2	34
16	Coordination polymers and polygons using di-pyridyl-thiadiazole spacers and substituted phosphorodithioato Ni^{II}complexes: potential and limitations for inorganic crystal engineering. CrystEngComm, 2016, 18, 5620-5629.	2.6	7
17	Encapsulation of an organometallic cationic catalyst by direct exchange into an anionic MOF. Chemical Science, 2016, 7, 2037-2050.	7.4	57
18	A New NO-Releasing Nanoformulation for the Treatment of Pulmonary Arterial Hypertension. Journal of Cardiovascular Translational Research, 2016, 9, 162-164.	2.4	20

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19	Investigations on post-synthetically modified UiO-66-NH 2 for the adsorptive removal of heavy metal ions from aqueous solution. Microporous and Mesoporous Materials, 2016, 221, 238-244.	4.4	314
20	Synthesis, Characterisation and Reactivity of Copper(I) Amide Complexes and Studies on Their Role in the Modified Ullmann Amination Reaction. Chemistry - A European Journal, 2015, 21, 7179-7192.	3.3	27
21	Lithium heterocuprates: the influence of the amido group on organoamidocuprate structures. Dalton Transactions, 2014, 43, 14359-14367.	3.3	7
22	Organosilicon linkers in metal organic frameworks: the tetrahedral tetrakis(4-tetrazolylphenyl)silane ligand. Dalton Transactions, 2013, 42, 13806.	3.3	16
23	Functionalized Organocuprates: Structures of Lithium and Magnesium Grignard 2-Methoxyphenylcuprates. Organometallics, 2012, 31, 7877-7883.	2.3	8
24	Preparations of Metal Trichalcogenophosphonates from Organophosphonate Esters. Inorganic Chemistry, 2012, 51, 11594-11601.	4.0	3
25	An organosilicon hexacarboxylic acid and its use in the construction of a novel metal organic framework isoreticular to MOF-5. CrystEngComm, 2012, 14, 758-760.	2.6	24
26	MgII, CaII, and CoII Metal-Organic Framework Materials with [Si(p-C6H4CO2)3(p-C6H4CO2H)]3â€“ Struts. Australian Journal of Chemistry, 2011, 64, 1239.	0.9	17
27	The structures of lithium and magnesium organocuprates and related species. Coordination Chemistry Reviews, 2011, 255, 1226-1251.	18.8	57
28	Facile Synthesis of Bis(dichalcogenophosphinate)s and a Remarkable [Li8(OH)6]2+ Polyhedron. Inorganic Chemistry, 2010, 49, 4626-4631.	4.0	17
29	Structural Diversity in Metalâ^'Organic Frameworks Built from Rigid Tetrahedral [Si(p-C₆H₄CO₂)₄]^{4â^'} Struts. Crystal Growth and Design, 2010, 10, 4571-4581.	3.0	67
30	Structures of Lithium Ferrocenylenecuprates and Their Oxidative Coupling Reactions. Organometallics, 2009, 28, 4632-4635.	2.3	15
31	The influence of tetrahydrofuran on the structures and reactivities of lithium organo-amidocuprates. Dalton Transactions, 2009, , 1104-1106.	3.3	23
32	Structural Characterization of Magnesium Organocuprates Derived from Grignard Reagents: Cu^Iâ€Based Inverse Crown Ethers. Angewandte Chemie - International Edition, 2008, 47, 5812-5815.	13.8	31
33	On the role of anion templates for the self-assembly of octanuclear copper(I) dichalcogenophosph(in)ate clusters. Polyhedron, 2008, 27, 992-998.	2.2	15
34	Aluminium complexes with thio-phosphorus ligands: syntheses and characterisations of [Al2(CyPS3)2(CyPHS2)2] and [Al(S2PPh2)3]. Dalton Transactions, 2008, , 5705.	3.3	7
35	Framework materials assembled from magnesium carboxylate building units. Dalton Transactions, 2007, , 2528.	3.3	89
36	Models for the reactive states of homocuprates: syntheses, structures and reactivities of [Cu2Li2Mes4] and [Cu3LiMes4]. Chemical Communications, 2007, , 304-306.	4.1	41

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37	Structural Studies on a Lithium Organo-Amidocuprate in the Solid State and in Solution. Angewandte Chemie - International Edition, 2007, 46, 5191-5194.	13.8	45
38	Discrete copper(i) clusters with Cu6P6Se6 and Cu6P4Se6 cores. Chemical Communications, 2006, , 3240.	4.1	10
39	Synthesis of crown ether complexes of alkali-metallated organophosphine oxides and insertion reactions with isonitriles. Journal of Organometallic Chemistry, 2006, 691, 3938-3942.	1.8	6
40	A solid-state structural and theoretical study on the 1 âˆ¶ 1 addition compounds of thioethers with dihalogens and interhalogens Iâ€“X (X = I, Br, Cl). New Journal of Chemistry, 2005, 29, 315-319.	2.8	10
41	A new synthetic route to metal trithiophosphonates: Syntheses and structures of [(C6H11)PS3Li2Â·THFÂ·TMEDA]2and [(C6H11)PS3MgÂ·2THF]2. Dalton Transactions, 2004, , 3169-3170.	3.3	15
42	Coordination Chemistry of Diselenophosphinate Complexes:Â The X-ray Single-Crystal Structures of [K(Se2PPh2)(THF)2]2and [In(Se2PPh2)3]Â·L (L = THF, PhMe). Inorganic Chemistry, 2004, 43, 4802-4804.	4.0	54
43	Synthetic and Structural Studies of Lithium Complexes of Selenophosphorus Ligands. Inorganic Chemistry, 2002, 41, 348-352.	4.0	57
44	Selective Oxygen Capture in Lithium Zincate Chemistry. Phosphorus, Sulfur and Silicon and the Related Elements, 2001, 169, 309-312.	1.6	0
45	The crystallographic observation of molecular lithium oxide: synthesis and solid-state structure of [Me2AlN(2-C5H4N)Ph]2(O)Li2Â·2THFâ€. Dalton Transactions RSC, 2001, , 2838-2843.	2.3	20
46	Ligand Effects in the Syntheses of Molecular Main Group Metal Species Containing Interstitial Hydride. Phosphorus, Sulfur and Silicon and the Related Elements, 2001, 168, 93-98.	1.6	5
47	Lithium Alkylselenolates and -tellurolates â˜' A Solid-State and Solution Structural Study. European Journal of Inorganic Chemistry, 2001, 2001, 1411-1413.	2.0	16
48	Oxygen Capture by Lithiated Organozinc Reagents Containing Aromatic 2-Pyridylamide Ligands. Chemistry - A European Journal, 2001, 7, 3696-3704.	3.3	33
49	The First Crystallographic Evidence for the Structures ofortho-Lithiated Aromatic Tertiary Amides. Angewandte Chemie - International Edition, 2001, 40, 1238-1240.	13.8	45
50	Ligand Effects in the Syntheses of Molecular Main Group Metal Species Containing Interstitial Hydride. Phosphorus, Sulfur and Silicon and the Related Elements, 2001, 168, 93-98.	1.6	12
51	Selective oxygen capture to give a unique mixed-anion lithium aluminate: the synthesis and solid-state structure of {[PhC(O)N(Me)Al(Me)(But)OMe]LiÂ·[PhC(O)N(Me)Al(Me)(OBut)OMe]Li}2. Chemical Communications, 2000, , 193-194.	4.1	9
52	Selective oxygen capture by lithium aluminates: a solid state and theoretical structural studyâ€Šâ€. Dalton Transactions RSC, 2000, , 4304-4311.	2.3	10
53	Selective oxygen capture in lithium zincate chemistry: the syntheses and solid-state structures of (Î¼4-O)Zn4[N(2-C5H4N)Bz]6 and But(Î¼3-O)Li3(Î¼6-O)Zn3[N(2-C5H4N)Me]6 (Bz = benzyl). Chemical Communications, 2000, , 1819-1820.	4.1	15
54	The First Molecular Main Group Metal Species Containing Interstitial Hydride. Angewandte Chemie - International Edition, 1999, 38, 3367-3370.	13.8	58

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55	Dynamic processes in organolithium chemistry: tetrameric and â€˜openâ€™ tetrameric chiral Î±-amino lithium alkoxides. New Journal of Chemistry, 1999, 23, 35-41.	2.8	28
56	Hexameric chiral Î±-amino lithium alkoxides: a solid-state and theoretical structural investigation. New Journal of Chemistry, 1999, 23, 499-507.	2.8	19
57	Lithiated organophosphorus enamines: a new synthetic approach and the first crystal structures. Chemical Communications, 1999, , 1401-1402.	4.1	23
58	The mechanism of lithiation and nitrile insertion reactions of Î²-methylazines: evidence from the structure of 3-C5H4NCHî˜…C(Ph)N(H)C(Ph)î˜…NLiÂ·PMDETA1Dedicated to Professor Ken Wade on the occasion of his 65th birthday and in recognition of his outstanding contributions to Chemistry. R.S. in particular thanks Ken, his erstwhile PhD supervisor, for his strong support and valued friendship over many years.1. Journal of Organometallic Chemistry, 1998, 550, 457-461.	1.8	17
59	Inhibition of the Cyclotrimerization of Benzonitrile and the Likely Mechanism of the Cyclotrimerization Process:Â Structure of a New Tetrameric Î±-Amino Lithium Imide DemonstratingIntramolecular Stabilization of the Metal Centers. Organometallics, 1997, 16, 2223-2225.	2.3	16
60	Lithiated amidines: syntheses and structural characterisations. Journal of the Chemical Society Dalton Transactions, 1997, , 951-956.	1.1	36
61	A unique Li12-aggregate containing both â€”NLi2 and â€”CHLi âˆ¼ NLi units. Journal of Organometallic Chemistry, 1997, 534, 241-245.	1.8	5
62	Lithiation of a Simple Amine with a Large Excess ofn-Butyllithium: The Remarkable Product(Ph2NLi)Â·[Ph(C6H4Li)NLi]2Â·(nBuLi)2Â·(Et2O)4. Angewandte Chemie International Edition in English, 1997, 36, 1215-1217.	4.4	37
63	The First Lithiated Phosphane Oxide with Lï£¿C Bonds: Synthesis and Structure of[{Ph2P(O)CHLiC(H)MeEt}4]. Angewandte Chemie International Edition in English, 1997, 36, 2334-2335.	4.4	27
64	A Likely Intermediate during the CO2-Induced Activation of 2-Alkylindoles toward Electrophilic Substitution:Â Structure of a Unique Tetramer Formed by Joining Two Boat-Shaped (LiOCO)2Rings. Organometallics, 1996, 15, 4355-4356.	2.3	20
65	Structural models for lithium intermediates during carboxamide-directed metallations. Chemical Communications, 1996, , 1695.	4.1	10
66	The mechanisms of dilithiation reactions in organic syntheses: a case study based on the syntheses of ketene dithioacetals. Chemical Communications, 1996, , 1581.	4.1	12
67	A Stable Methyl Phosphane Oxide/Lithium Amide Complex: a Structural and MO Calculational Investigation of the Mechanism of Proton Abstraction by Alkali Metal Reagents. Angewandte Chemie International Edition in English, 1996, 35, 1942-1944.	4.4	38
68	Lithium Intermediates during theÎ±-Lithiation and SubsequentÎ±-Substitution of Heterocyclic Amines in the Presence of CO2. Angewandte Chemie International Edition in English, 1995, 34, 921-923.	4.4	34
69	Dilithiated salen complexes: chiral [(salen)Li2Â·hmpa]2and deliberate partial hydrolysis to give [(salen)Li2]3Â·Li2OÂ·2tmenÂ·H2O [H2salen =N,Nâ€²-ethylenebis(salicylideneimine); hmpa = hexamethylphosphoramide; tmen = tetramethylethylenediamine]. Journal of the Chemical Society Chemical Communications, 1995, , 2147-2149.	2.0	35
70	Tartramide Ligands for Copperâ€Catalyzed Nâ€Arylation at Room Temperature. Advanced Synthesis and Catalysis, 0, , .	4.3	5