

Robert P Davies

List of Publications by Year in descending order

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70
papers

1,920
citations

236925

25
h-index

289244

40
g-index

73
all docs

73
docs citations

73
times ranked

2205
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigations on post-synthetically modified UiO-66-NH ₂ for the adsorptive removal of heavy metal ions from aqueous solution. <i>Microporous and Mesoporous Materials</i> , 2016, 221, 238-244.	4.4	314
2	Framework materials assembled from magnesium carboxylate building units. <i>Dalton Transactions</i> , 2007, , 2528.	3.3	89
3	Structural Diversity in Metal-Organic Frameworks Built from Rigid Tetrahedral [Si(<i>p</i> -C ₆ H ₄ CO) ₂] ₄ Struts. <i>Crystal Growth and Design</i> , 2010, 10, 4571-4581.	3.0	67
4	The First Molecular Main Group Metal Species Containing Interstitial Hydride. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 3367-3370.	13.8	58
5	Synthetic and Structural Studies of Lithium Complexes of Selenophosphorus Ligands. <i>Inorganic Chemistry</i> , 2002, 41, 348-352.	4.0	57
6	The structures of lithium and magnesium organocuprates and related species. <i>Coordination Chemistry Reviews</i> , 2011, 255, 1226-1251.	18.8	57
7	Encapsulation of an organometallic cationic catalyst by direct exchange into an anionic MOF. <i>Chemical Science</i> , 2016, 7, 2037-2050.	7.4	57
8	Coordination Chemistry of Diselenophosphinate Complexes: The X-ray Single-Crystal Structures of [K(Se2PPh ₂)(THF) ₂] ₂ and [In(Se ₂ PPh ₂) ₃] ₂ ·L (L = THF, PhMe). <i>Inorganic Chemistry</i> , 2004, 43, 4802-4804.	4.0	54
9	Encapsulation of Crabtree's Catalyst in Sulfonated MIL-101(Cr): Enhancement of Stability and Selectivity between Competing Reaction Pathways by the MOF Chemical Microenvironment. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4532-4537.	13.8	52
10	The First Crystallographic Evidence for the Structures of ortho-Lithiated Aromatic Tertiary Amides. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1238-1240.	13.8	45
11	Structural Studies on a Lithium Organo-Amidocuprate in the Solid State and in Solution. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5191-5194.	13.8	45
12	Models for the reactive states of homocuprates: syntheses, structures and reactivities of [Cu ₂ Li ₂ Mes ₄] and [Cu ₃ LiMes ₄]. <i>Chemical Communications</i> , 2007, , 304-306.	4.1	41
13	A Stable Methyl Phosphane Oxide/Lithium Amide Complex: a Structural and MO Computational Investigation of the Mechanism of Proton Abstraction by Alkali Metal Reagents. <i>Angewandte Chemie International Edition in English</i> , 1996, 35, 1942-1944.	4.4	38
14	Lithiation of a Simple Amine with a Large Excess of n-Butyllithium: The Remarkable Product (Ph ₂ NLi)·[Ph(C ₆ H ₄ Li)NLi] ₂ ·(nBuLi) ₂ ·(Et ₂ O) ₄ . <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 1215-1217.	4.4	37
15	Lithiated amidines: syntheses and structural characterisations. <i>Journal of the Chemical Society Dalton Transactions</i> , 1997, , 951-956.	1.1	36
16	Dilithiated salen complexes: chiral [(salen)Li ₂ ·hmpa] ₂ and deliberate partial hydrolysis to give [(salen)Li ₂] ₃ ·Li ₂ O·2tmen·H ₂ O [H ₂ salen = N,N'-ethylenebis(salicylideneimine); hmpa = hexamethylphosphoramide; tmen = tetramethylethylenediamine]. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 2147-2149.	2.0	35
17	Lithium Intermediates during the Lithiation and Subsequent Substitution of Heterocyclic Amines in the Presence of CO ₂ . <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 921-923.	4.4	34
18	Mechanistic Studies on the Copper-Catalyzed N-Arylation of Alkylamines Promoted by Organic Soluble Ionic Bases. <i>ACS Catalysis</i> , 2016, 6, 3965-3974.	11.2	34

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19	Mechanistic and Performance Studies on the Ligand-Promoted Ullmann Amination Reaction. <i>ACS Catalysis</i> , 2018, 8, 101-109.	11.2	34
20	Oxygen Capture by Lithiated Organozinc Reagents Containing Aromatic 2-Pyridylamide Ligands. <i>Chemistry - A European Journal</i> , 2001, 7, 3696-3704.	3.3	33
21	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. <i>Pulmonary Circulation</i> , 2017, 7, 643-653.	1.7	33
22	Structural Characterization of Magnesium Organocuprates Derived from Grignard Reagents: Cu ^I -Based Inverse Crown Ethers. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5812-5815.	13.8	31
23	Dynamic processes in organolithium chemistry: tetrameric and ϵ -tetrameric chiral \pm -amino lithium alkoxides. <i>New Journal of Chemistry</i> , 1999, 23, 35-41.	2.8	28
24	The First Lithiated Phosphane Oxide with Li ϵ C Bonds: Synthesis and Structure of [Ph ₂ P(O)CHLiC(H)MeEt] ₄ . <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 2334-2335.	4.4	27
25	Synthesis, Characterisation and Reactivity of Copper(I) Amide Complexes and Studies on Their Role in the Modified Ullmann Amination Reaction. <i>Chemistry - A European Journal</i> , 2015, 21, 7179-7192.	3.3	27
26	Siloxane-based linkers in the construction of hydrogen bonded assemblies and porous 3D MOFs. <i>Chemical Communications</i> , 2017, 53, 12524-12527.	4.1	26
27	An organosilicon hexacarboxylic acid and its use in the construction of a novel metal organic framework isorecticular to MOF-5. <i>CrystEngComm</i> , 2012, 14, 758-760.	2.6	24
28	Lithiated organophosphorus enamines: a new synthetic approach and the first crystal structures. <i>Chemical Communications</i> , 1999, , 1401-1402.	4.1	23
29	The influence of tetrahydrofuran on the structures and reactivities of lithium organo-amidocuprates. <i>Dalton Transactions</i> , 2009, , 1104-1106.	3.3	23
30	Copper-catalysed aromatic-Finkelstein reactions with amine-based ligand systems. <i>Catalysis Science and Technology</i> , 2017, 7, 2110-2117.	4.1	21
31	A Likely Intermediate during the CO ₂ -Induced Activation of 2-Alkylindoles toward Electrophilic Substitution: A Structure of a Unique Tetramer Formed by Joining Two Boat-Shaped (LiOCO) ₂ Rings. <i>Organometallics</i> , 1996, 15, 4355-4356.	2.3	20
32	The crystallographic observation of molecular lithium oxide: synthesis and solid-state structure of [Me ₂ AIN(2-C ₅ H ₄ N)Ph] ₂ (O)Li ₂ ·2THF. <i>Dalton Transactions RSC</i> , 2001, , 2838-2843.	2.3	20
33	A New NO-Releasing Nanoformulation for the Treatment of Pulmonary Arterial Hypertension. <i>Journal of Cardiovascular Translational Research</i> , 2016, 9, 162-164.	2.4	20
34	Hexameric chiral \pm -amino lithium alkoxides: a solid-state and theoretical structural investigation. <i>New Journal of Chemistry</i> , 1999, 23, 499-507.	2.8	19
35	The mechanism of lithiation and nitrile insertion reactions of 1 ² -methylazines: evidence from the structure of 3-C ₅ H ₄ NCH ₂ ...C(Ph)N(H)C(Ph)~...NLi·PMDTA1 Dedicated 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. <i>Journal of Organometallic Chemistry</i> , 1998, 550, 457-461.	1.8	17
36	Facile Synthesis of Bis(dichalcogenophosphinate)s and a Remarkable [Li ₈ (OH) ₆] ₂₊ Polyhedron. <i>Inorganic Chemistry</i> , 2010, 49, 4626-4631.	4.0	17

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37	MgII, CaII, and CoII Metal-Organic Framework Materials with [Si(p-C6H4CO2)3(p-C6H4CO2H)]3 ⁺ Struts. Australian Journal of Chemistry, 2011, 64, 1239.	0.9	17
38	Inhibition of the Cyclotrimerization of Benzonitrile and the Likely Mechanism of the Cyclotrimerization Process: A Structure of a New Tetrameric μ_3 -Amino Lithium Imide Demonstrating Intramolecular Stabilization of the Metal Centers. Organometallics, 1997, 16, 2223-2225.	2.3	16
39	Lithium Alkylselenolates and -tellurolates μ_3 A Solid-State and Solution Structural Study. European Journal of Inorganic Chemistry, 2001, 2001, 1411-1413.	2.0	16
40	Organosilicon linkers in metal organic frameworks: the tetrahedral tetrakis(4-tetrazolylphenyl)silane ligand. Dalton Transactions, 2013, 42, 13806.	3.3	16
41	Selective oxygen capture in lithium zincate chemistry: the syntheses and solid-state structures of $(\frac{1}{4}\text{-O})\text{Zn}_4[\text{N}(2\text{-C}_5\text{H}_4\text{N})\text{Bz}]_6$ and $\text{But}(\frac{1}{4}\text{-O})\text{Li}_3(\frac{1}{4}\text{-O})\text{Zn}_3[\text{N}(2\text{-C}_5\text{H}_4\text{N})\text{Me}]_6$ (Bz = benzyl). Chemical Communications, 2000, , 1819-1820.	4.1	15
42	A new synthetic route to metal trithiophosphonates: Syntheses and structures of $[(\text{C}_6\text{H}_{11})\text{PS}_3\text{Li}_2\cdot\text{THF}\cdot\text{TMEDA}]_2$ and $[(\text{C}_6\text{H}_{11})\text{PS}_3\text{Mg}\cdot 2\text{THF}]_2$. Dalton Transactions, 2004, , 3169-3170.	3.3	15
43	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
44	Structures of Lithium Ferrocenylencuprates and Their Oxidative Coupling Reactions. Organometallics, 2009, 28, 4632-4635.	2.3	15
45	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
46	Metal-Organic Frameworks Constructed from Group 1 Metals (Li, Na) and Silicon-Centered Linkers. Crystal Growth and Design, 2019, 19, 487-497.	3.0	12
47	Studies on metal-organic framework (MOF) nanomedicine preparations of sildenafil for the future treatment of pulmonary arterial hypertension. Scientific Reports, 2021, 11, 4336.	3.3	12
48	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
49	Structural models for lithium intermediates during carboxamide-directed metallations. Chemical Communications, 1996, , 1695.	4.1	10
50	Selective oxygen capture by lithium aluminates: a solid state and theoretical structural study. Dalton Transactions RSC, 2000, , 4304-4311.	2.3	10
51	A solid-state structural and theoretical study on the 1 + 1 addition compounds of thioethers with dihalogens and interhalogens $\mu_2\text{-X}$ (X = I, Br, Cl). New Journal of Chemistry, 2005, 29, 315-319.	2.8	10
52	Discrete copper(I) clusters with Cu ₆ P ₆ Se ₆ and Cu ₆ P ₄ Se ₆ cores. Chemical Communications, 2006, , 3240.	4.1	10
53	New Insights into the Reaction Capabilities of Ionic Organic Bases in Cu-Catalyzed Amination. European Journal of Organic Chemistry, 2019, 2019, 1944-1951.	2.4	10
54	Internalization of Metal-Organic Framework Nanoparticles in Human Vascular Cells: Implications for Cardiovascular Disease Therapy. Nanomaterials, 2020, 10, 1028.	4.1	10

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55	Selective oxygen capture to give a unique mixed-anion lithium aluminate: the synthesis and solid-state structure of $\{[\text{PhC}(\text{O})\text{N}(\text{Me})\text{Al}(\text{Me})(\text{But})\text{OMe}]\text{Li} \cdot [\text{PhC}(\text{O})\text{N}(\text{Me})\text{Al}(\text{Me})(\text{OBut})\text{OMe}]\text{Li}\}_2$. <i>Chemical Communications</i> , 2000, , 193-194.	4.1	9
56	Functionalized Organocuprates: Structures of Lithium and Magnesium Grignard 2-Methoxyphenylcuprates. <i>Organometallics</i> , 2012, 31, 7877-7883.	2.3	8
57	First example of solid-state luminescent borasiloxane-based chiral helices assembled through Nâ€“B bonds. <i>Dalton Transactions</i> , 2021, 50, 3782-3785.	3.3	8
58	Aluminium complexes with thio-phosphorus ligands: syntheses and characterisations of $[\text{Al}_2(\text{CyPS}_3)_2(\text{CyPHS}_2)_2]$ and $[\text{Al}(\text{S}_2\text{PPh}_2)_3]$. <i>Dalton Transactions</i> , 2008, , 5705.	3.3	7
59	Lithium heterocuprates: the influence of the amido group on organoamidocuprate structures. <i>Dalton Transactions</i> , 2014, 43, 14359-14367.	3.3	7
60	Coordination polymers and polygons using di-pyridyl-thiadiazole spacers and substituted phosphorodithioato Ni ^{II} complexes: potential and limitations for inorganic crystal engineering. <i>CrystEngComm</i> , 2016, 18, 5620-5629.	2.6	7
61	Encapsulation of Crabtree's Catalyst in Sulfonated MIL-101(Cr): Enhancement of Stability and Selectivity between Competing Reaction Pathways by the MOF Chemical Microenvironment. <i>Angewandte Chemie</i> , 2018, 130, 4622-4627.	2.0	7
62	Stable metalâ€“organic frameworks with low water affinity built from methyl-siloxane linkers. <i>Chemical Communications</i> , 2020, 56, 7905-7908.	4.1	7
63	Synthesis of crown ether complexes of alkali-metallated organophosphine oxides and insertion reactions with isonitriles. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 3938-3942.	1.8	6
64	A unique Li ₁₂ -aggregate containing both NLi_2 and $\text{CHLi} \frac{1}{4} \text{NLi}$ units. <i>Journal of Organometallic Chemistry</i> , 1997, 534, 241-245.	1.8	5
65	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
66	Tartramide Ligands for Copperâ€“Catalyzed Nâ€“Arylation at Room Temperature. <i>Advanced Synthesis and Catalysis</i> , 0, , .	4.3	5
67	Trisiloxane-centred metalâ€“organic frameworks and hydrogen bonded assemblies. <i>CrystEngComm</i> , 2018, 20, 4541-4545.	2.6	4
68	Studies on the structural diversity of MOFs containing octahedral siloxane-backboned connectors. <i>Polyhedron</i> , 2019, 157, 25-32.	2.2	4
69	Preparations of Metal Trichalcogenophosphonates from Organophosphonate Esters. <i>Inorganic Chemistry</i> , 2012, 51, 11594-11601.	4.0	3
70	Selective Oxygen Capture in Lithium Zincate Chemistry. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2001, 169, 309-312.	1.6	0