Andrew E H Wheatley

List of Publications by Citations

109 papers	2,278 citations	28 h-index	42 g-index
112 ext. papers	2,526 ext. citations	7 avg, IF	4.78 L-index

#	Paper	IF	Citations
109	An aluminum ate base: its design, structure, function, and reaction mechanism. *Journal of the American Chemical Society*, **2007**, 129, 1921-30	16.4	177
108	Direct ortho cupration: a new route to regioselectively functionalized aromatics. *Journal of the American Chemical Society*, **2007**, 129, 15102-3	16.4	113
107	Capillary microreactors wall-coated with mesoporous titania thin film catalyst supports. *Lab on A Chip*, **2009**, 9, 503-6	7.2	84
106	On the kinetic and thermodynamic reactivity of lithium di(alkyl)amidozincate bases in directed ortho metalation. *Journal of the American Chemical Society*, **2007**, 129, 12734-8	16.4	84
105	Shaping the Future of Fuel: Monolithic Metal-Organic Frameworks for High-Density Gas Storage. *Journal of the American Chemical Society*, **2020**, 142, 8541-8549	16.4	82
104	Mixed alkylamido aluminate as a kinetically controlled base. *Journal of the American Chemical Society*, **2008**, 130, 16193-200	16.4	69
103	The oxygen scavenging properties of alkali metal-containing organometallic compounds. *Chemical Society Reviews*, **2001**, 30, 265-273	58.5	51
102	Deprotonative metalation of chloro- and bromopyridines using amido-based bimetallic species and regioselectivity-computed CH acidity relationships. *Chemistry - A European Journal*, **2011**, 17, 13284-97	4.8	48
101	The structural characteristics of organozinc complexes incorporating N,NPbidentate ligands. *Dalton Transactions*, **2004**, 3568-74	4.3	46
100	The First Molecular Main Group Metal Species Containing Interstitial Hydride. *Angewandte Chemie - International Edition*, **1999**, 38, 3367-3370	16.4	46
99	Nanoparticulate copper--routes towards oxidative stability. *Dalton Transactions*, **2010**, 39, 6496-502	4.3	45
98	Facile synthesis of SnO2-PbS nanocomposites with controlled structure for applications in photocatalysis. *Nanoscale*, **2016**, 8, 2727-39	7.7	44
97	Sol□el Synthesis of Robust Metal□rganic Frameworks for Nanoparticle Encapsulation. *Advanced Functional Materials*, **2018**, 28, 1705588	15.6	43
96	New routes to Cu(I)/Cu nanocatalysts for the multicomponent click synthesis of 1,2,3-triazoles. *Nanoscale*, **2013**, 5, 342-50	7.7	43
95	Hydration of nitriles to amides by a chitin-supported ruthenium catalyst. *RSC Advances*, **2015**, 5, 12152-12160	3.7	42
94	Ligand and metal effects on the formation of main-group polyhedral clusters. *Angewandte Chemie - International Edition*, **2003**, 42, 5593-6	16.4	42
93	Characterisation of Co@Fe3O4 core@shell nanoparticles using advanced electron microscopy. *Nanoscale*, **2013**, 5, 5765-72	7.7	40

92	Multicomponent signal unmixing from nanoheterostructures: overcoming the traditional challenges of nanoscale X-ray analysis via machine learning. *Nano Letters*, **2015**, 15, 2716-20	11.5	39
91	Recent developments in the synthetic and structural chemistry of lithium zincates. *New Journal of Chemistry*, **2004**, 28, 435	3.6	39
90	The First Crystallographic Evidence for the Structures of ortho-Lithiated Aromatic Tertiary Amides. *Angewandte Chemie - International Edition*, **2001**, 40, 1238-1240	16.4	38
89	Syntheses, structures and magnetic properties of Mn(II) dimers [CpMn(micro-X)]2(Cp = C5H5; X = RNH, R1R2N, C[triple bond]CR). *Dalton Transactions*, **2004**, 3481-7	4.3	35
88	Gilman-Type versus Lipshutz-Type Reagents: Competition in Lithiocuprate Chemistry. *Organometallics*, **2009**, 28, 38-41	3.8	32
87	Single-Source Bismuth (Transition Metal) Polyoxovanadate Precursors for the Scalable Synthesis of Doped BiVO Photoanodes. *Advanced Materials*, **2018**, 30, e1804033	24	31
86	Encapsulation of hydride by molecular main group metal clusters: manipulating the source and coordination sphere of the interstitial ion. *Dalton Transactions*, **2006**, 5574-82	4.3	30
85	Harnessing Surface-Functionalized Metal□Organic Frameworks for Selective Tumor Cell Capture. *Chemistry of Materials*, **2017**, 29, 8052-8056	9.6	29
84	The Mechanism of the Stereospecific Intramolecular Arylation of Lithiated Ureas: The Role of Li+ Probed by Electronic Structure Calculations, and by NMR and IR Spectroscopy. *European Journal of Organic Chemistry*, **2012**, 2012, 731-743	3.2	29
83	Synthesis, structure and unique reactivity of the ethylzinc derivative of a bicyclic guanidine. *Dalton Transactions*, **2012**, 41, 5934-8	4.3	29
82	Suppressing the Anionic Fries Rearrangement of Aryl Dialkylcarbamates; the Isolation of a Crystalline ortho-Deprotonated Carbamate. *European Journal of Organic Chemistry*, **2008**, 2008, 644-647	3.2	28
81	Trapping of oligomeric cyclopentadienyllithium cationic and anionic fragments by a V[triple bond]V-bonded ligand. *Angewandte Chemie - International Edition*, **2007**, 46, 5425-7	16.4	27
80	Photocatalytic N-Methylation of Amines over Pd/TiO2 for the Functionalization of Heterocycles and Pharmaceutical Intermediates. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 15419-15424	8.3	27
79	Solvent-dependent assembly of mixed-metal N,N?-diphenylbenzamidinate oxide and alkoxide complexes. *Dalton Transactions RSC*, **2001**, 3173-3178		26
78	Controlling chemoselectivity in the lithiation of substituted aromatic tertiary amides. *Angewandte Chemie - International Edition*, **2004**, 43, 2135-8	16.4	25
77	Oxygen capture by lithiated organozinc reagents containing aromatic 2-pyridylamide ligands. *Chemistry - A European Journal*, **2001**, 7, 3696-704	4.8	25
76	New avenues in the directed deprotometallation of aromatics: recent advances in directed cupration. *Dalton Transactions*, **2014**, 43, 14181-14203	4.3	24
75	N-Alkylation of functionalized amines with alcohols using a copper-gold mixed photocatalytic system. *Scientific Reports*, **2018**, 8, 6931	4.9	23

74	Fullerene-based one-dimensional crystalline nanopolymer formed through topochemical transformation of the parent nanowire. *Physical Review B*, **2010**, 81,	3.3	23
73	Cu-Based Nanoalloys in the Base-Free Ullmann Heterocyle-Aryl Ether Synthesis. *Organic Process Research and Development*, **2010**, 14, 644-649	3.9	23
72	Hydride Encapsulation by a Molecular Main-Group-Metal Cluster: Single-Crystal Neutron Diffraction Structure of [{Ph(2-C5H4N)N}6HLi8]+. *Organometallics*, **2004**, 23, 4527-4530	3.8	22
71	Systematic Control of Size and Morphology in the Synthesis of Gold Nanoparticles. *Particle and Particle Systems Characterization*, **2014**, 31, 571-579	3.1	19
70	Hydride encapsulation by molecular alkali-metal clusters. *Dalton Transactions*, **2008**, 3378-97	4.3	19
69	Fast racemisation and slow epimerisation of laterally lithiated amides: stereochemical evidence for the mechanism of inversion of amide-substituted benzyllithiums. *Chemical Communications*, **2004**, 228-9	5.8	19
68	Structure and Bonding of the Manganese(II) Phosphide Complex (t-BuPH2)(□5-Cp)Mn{□(t-BuPH)}2Mn(Cp)(t-BuPH2). *Organometallics*, **2012**, 31, 23-26	3.8	17
67	Ligand and Metal Effects on the Formation of Main-Group Polyhedral Clusters. *Angewandte Chemie*, **2003**, 115, 5751-5754	3.6	17
66	Variations in the solid-state, solution and theoretical structures of a laterally deprotonated aromatic tertiary amide. *Chemical Communications*, **2003**, 1694-1695	5.8	17
65	The crystallographic observation of molecular lithium oxide: synthesis and solid-state structure of [Me2AlN(2-C5H4N)Ph]2(O)Li2□2THF. *Dalton Transactions RSC*, **2001**, 2838-2843		17
64	Amidocuprates for directed ortho cupration: structural study, mechanistic investigation, and chemical requirements. *Angewandte Chemie - International Edition*, **2012**, 51, 12081-5	16.4	16
63	Stepwise nucleophilic substitution of manganocene, syntheses and structures of the dimer [CpMn(hpp)]2 and the unusual manganate cage [LiMn(hpp)3]2 (hppH = 1,3,4,6,7,8-hexahydro-2H-pyrimido[1,2,a]pyrimidine). *Dalton Transactions*, **2007**, 1570-2	4.3	16
62	Ligand effects in the formation of tertiary carbanions from substituted tertiary aromatic amides. *Chemistry - A European Journal*, **2011**, 17, 8078-84	4.8	15
61	New motifs in lithium zincate chemistry: a solid-state structural study of PhC(O)N(R)ZnR?2Li□2thf (R, R? = alkyl, aryl) and [PhC(O)N(Ph)Li□thf]□[PhC(O)N(Ph)Zn(But)2Li□thf]. *Dalton Transactions*, **2003**, 1001-1008	4.3	15
60	Selective oxygen capture in lithium zincate chemistry: the syntheses and solid-state structures of (□-O)Zn4[N(2-C5H4N)Bz]6 and But(□3-O)Li3(□6-O)Zn3[N(2-C5H4N)Me]6 (Bz = benzyl). *Chemical Communications*, **2000**, 1819-1820	5.8	14
59	New Cu-based catalysts supported on TiO2 films for Ullmann S(N)Ar-type C-O coupling reactions. *Chemistry - A European Journal*, **2012**, 18, 1800-10	4.8	13
58	Nanoparticulate PdZn--pathways towards the synthetic control of nanosurface properties. *Nanotechnology*, **2011**, 22, 205701	3.4	13
57	Selective hydrogenation of arenes to cyclohexanes in water catalyzed by chitin-supported ruthenium nanoparticles. *Catalysis Science and Technology*, **2016**, 6, 5801-5805	5.5	12

56	A quadruply-bonded [Cr2(guanidinate)4]4- tetraanion. *Chemical Communications*, **2011**, 47, 4120-2	5.8	12
55	Inhibition of the Cyclotrimerization of Benzonitrile and the Likely Mechanism of the Cyclotrimerization Process: Structure of a New Tetrameric -Amino Lithium Imide Demonstrating Intramolecular Stabilization of the Metal Centers. *Organometallics*, **1997**, 16, 2223-2225	3.8	12
54	Reaction of ortho-Methylbenzonitrile with Lithium N,N,N?-Trimethylethylenediamide: Assembly and Crystal Structure of a Primary Isoquinolinoamidolithium Secondary Amine Complex. *European Journal of Inorganic Chemistry*, **1998**, 1998, 879-883	2.3	12
53	Lithium Alkylselenolates and -tellurolates A Solid-State and Solution Structural Study. *European Journal of Inorganic Chemistry*, **2001**, 2001, 1411-1413	2.3	12
52	A solid state and theoretical study of the solvent effects controlling the mono- and di-lithiation of aromatic primary amines. *Dalton Transactions RSC*, **2002**, 2505		12
51	Metal-Hydride Bonding in Higher Alkali Metal Boron Monohydrides. *European Journal of Inorganic Chemistry*, **2009**, 2009, 5010-5016	2.3	11
50	Synthesis and structure of [{Sb(NCy)}2(N)]3(Li THF)3(LiNNH), containing a macrocyclic [{Sb(NCy)}2N]33 trianion. *Dalton Transactions RSC*, **2002**, 481-483		11
49	Comprehensive Experimental and Theoretical Study of the CO + NO Reaction Catalyzed by Au/Ni Nanoparticles. *ACS Catalysis*, **2019**, 9, 4919-4929	13.1	10
48	Neutron Diffraction Characterization of CH Li Interactions in a Lithium Aluminate Polymer. *Organometallics*, **2014**, 33, 3919-3923	3.8	10
47	Controlling Chemoselectivity in the Lithiation of Substituted Aromatic Tertiary Amides. *Angewandte Chemie*, **2004**, 116, 2187-2190	3.6	10
46	Kristallographische Befunde zur Struktur ortholithiierter aromatischer tertiär Amide. *Angewandte Chemie*, **2001**, 113, 1282-1285	3.6	10
45	Oxygen scavenging by lithium zincates: the synthesis, structural characterisation and derivatisation of [Ph(2-C5H4N)N]2ZnRLi nthf (R = But, Bun; n= 1, 2). *Dalton Transactions RSC*, **2002**, 3129-3134		10
44	An Investigation of the Structural Diversities of Lithiated HMPA Complexes of o-Mercaptopyridine and Trithiocyanuric Acid: Syntheses, Crystal structures and Model Molecular Orbital Calculations. *Journal of Molecular Modeling*, **2000**, 6, 234-247	2	10
43	Selective oxygen capture by lithium aluminates: a solid state and theoretical structural study. *Dalton Transactions RSC*, **2000**, 4304-4311		10
42	The First Bismuth Phosphide Complex: [Li(thf)4]+[{(tBuP)3}2Bi] *Angewandte Chemie - International Edition*, **1999**, 38, 3053-3055	16.4	10
41	Structural effects in lithiocuprate chemistry: the elucidation of reactive pentametallic complexes. *Chemistry - A European Journal*, **2014**, 20, 3908-12	4.8	9
40	Confined palladium colloids in mesoporous frameworks for carbon nanotube growth. *Journal of Materials Science*, **2009**, 44, 6563-6570	4.3	9
39	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]Li [PhC(O)N(Me)Al(Me)(OBut)OMe]Li}2. *Chemical Communications*, **2000**, 193-194	5.8	9

38	A One-Pot Route to Faceted FePt-Fe3O4 Dumbbells: Probing Morphology–Catalytic Activity Effects in O2 Reduction Catalysis. *Advanced Functional Materials*, **2020**, 30, 2002633	15.6	8
37	Syntheses and Structures of [Sn{NR}2{Sn(–NMe2)}2]: Model Intermediates in the Formation of Imido Group 14 Cages and Rings [R = 2,6-Pri2C6H3 (Dipp), 2,4,6-Me3C6H2 (Mes)]. *Inorganic Chemistry*, **1997**, 36, 5202-5205	5.1	8
36	The First Solid-State Structure of a Lithiated Diazomethane with C–Li and N–Li Bonds: {[Me3SiC(Li)N2]2·3 THF}. *European Journal of Organic Chemistry*, **1998**, 1998, 861-864	3.2	8
35	Advances in the Synthesis and Long-Term Protection of Zero-Valent Iron Nanoparticles. *Particle and Particle Systems Characterization*, **2018**, 35, 1800120	3.1	8
34	The Synthesis and Structural Properties of Aluminium Oxide, Hydroxide and Organooxide Compounds. *Structure and Bonding*, **2003**, 67-139	0.9	8
33	Towards the Synthesis of Guanidinate- and Amidinate-Bridged Dimers of Mn and Ni. *Australian Journal of Chemistry*, **2014**, 67, 1081	1.2	7
32	The redox effect of the [1,2-(NH)2C6H4]2- ligand in the formation of transition metal compounds. *Chemical Communications*, **2012**, 48, 11298-300	5.8	7
31	Carbon dots-magnetic nanocomposites for the detection and removal of Hg. *Food Chemistry*, **2021**, 364, 130366	8.5	7
30	Reactions of Trimethylaluminium: Modelling the Chemical Degradation of Synthetic Lubricants. *Chemistry - A European Journal*, **2017**, 23, 167-175	4.8	6
29	Expanding the tools available for direct ortho cupration--targeting lithium phosphidocuprates. *Dalton Transactions*, **2012**, 41, 6148-54	4.3	6
28	Reusable Immobilized Iron(II) Nanoparticle Precatalysts for Ligand-Free Kumada Coupling. *ACS Applied Nano Materials*, **2018**, 1, 6950-6958	5.6	6
27	Metal exchange in lithiocuprates: implications for our understanding of structure and reactivity. *Chemical Science*, **2017**, 8, 4904-4916	9.4	5
26	Extending motifs in lithiocuprate chemistry: unexpected structural diversity in thiocyanate complexes. *Dalton Transactions*, **2016**, 45, 6094-104	4.3	5
25	On the control of secondary carbanion structure utilising ligand effects during directed metallation. *Beilstein Journal of Organic Chemistry*, **2012**, 8, 50-60	2.5	5
24	Lithiated tertiary carbanions display variable coordination modes: evidence from DFT and NMR studies. *Chemistry - A European Journal*, **2012**, 18, 11036-45	4.8	5
23	Nanoparticulate PdZn as a Novel Catalyst for ZnO Nanowire Growth. *Nanoscale Research Letters*, **2010**, 5, 904-7	5	5
22	N,N-Diisopropyl-1-naphthamide. *Acta Crystallographica Section E: Structure Reports Online*, **2001**, 57, o292-o294		5
21	A reusable magnetic nanocatalyst for bio-fuel additives: the ultrasound-assisted synthesis of solketal. *Sustainable Energy and Fuels*, **2021**, 5, 2362-2372	5.8	5

20	Reactions of Cp2M (M = Ni, V) with dilithium diamido-aryl reagents; retention and oxidation of the transition metal ions. *Dalton Transactions*, **2013**, 42, 13923-30	4.3	4
19	A Kinetic Study on the Cu(0)-Catalyzed Ullmann-Type Nucleophilic Aromatic Substitution C O Coupling of Potassium Phenolate and 4-Chloropyridine. *Industrial & Engineering Chemistry Research*, **2013**, 52, 18206-18214	3.9	4
18	Synthesis and Structure of the Heterobimetallic Ladder Complex [{(MesNH)Sn(Nma)}2(Li2THF)2] (Mes = 2,4,6-Me3C6H2, ma = 2-MeOC6H4). *Inorganic Chemistry*, **1998**, 37, 2602-2604	5.1	4
17	The First Crystallographic Evidence for the Structures of ortho-Lithiated Aromatic Tertiary Amides **2001**, 40, 1238		4
16	A simple one-step synthetic route to access a range of metal-doped polyoxovanadate clusters. *Dalton Transactions*, **2019**, 48, 4555-4564	4.3	3
15	A New Method for Determining the Composition of Core Shell Nanoparticles via Dual-EDX+EELS Spectrum Imaging. *Particle and Particle Systems Characterization*, **2016**, 33, 749-755	3.1	3
14	A new route for the efficient metalation of unfunctionalized aromatics. *Chemical Science*, **2019**, 10, 3385-3400	9.4	2
13	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	2
12	Lipshutz-type bis(amido)argentates for directed argentation. *Chemical Science*, **2020**, 11, 1855-1861	9.4	2
11	Amidocuprates for Directed ortho Cupration: Structural Study, Mechanistic Investigation, and Chemical Requirements. *Angewandte Chemie*, **2012**, 124, 12247-12251	3.6	1
10	TOWARD AN UNDERSTANDING OF THE OXYGEN SCAVENGING PROPERTIES OF LITHIUM ZINCATES. *Phosphorus, Sulfur and Silicon and the Related Elements*, **2004**, 179, 929-930	1	1
9	Action of Organoaluminum Reagents on Esters: Alkene Production and the Degradation of Synthetic Lubricants. *Organometallics*, **2019**, 38, 395-408	3.8	1
8	A reusable catalyst based on CuO hexapods and a CuO-Ag composite for the highly efficient reduction of nitrophenols.. *RSC Advances*, **2021**, 11, 13193-13200	3.7	1
7	Visible light photocatalysts from low-grade iron ore: the environmentally benign production of magnetite/carbon (FeO/C) nanocomposites. *Environmental Science and Pollution Research*, **2021**, 1	5.1	1
6	Overcoming Traditional Challenges in Nano-scale X-ray Characterization Using Independent Component Analysis. *Microscopy and Microanalysis*, **2015**, 21, 1227-1228	0.5	
5	Ligand and Metal Effects on the Formation of Main-Group Polyhedral Clusters. *Angewandte Chemie*, **2003**, 115, 6099-6099	3.6	
4	Ligand and Metal Effects on the Formation of Main-Group Polyhedral Clusters. *Angewandte Chemie - International Edition*, **2003**, 42, 5919-5919	16.4	
3	Selective Oxygen Capture in Lithium Zincate Chemistry. *Phosphorus, Sulfur and Silicon and the Related Elements*, **2001**, 169, 309-312	1	

2 Recent Development in the Solution Structural Chemistry of Main Group Organometallics **2022**, 271-316

1 The Road to Aromatic Functionalization by Mixed-metal Ate Chemistry **2022**, 1-48