

# Andrew D Burrows

## List of Publications by Citations

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107  
papers

3,209  
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27  
h-index

53  
g-index

114  
ext. papers

3,491  
ext. citations

5.4  
avg, IF

5.5  
L-index

#	Paper	IF	Citations
107	Gas sensing using porous materials for automotive applications. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 4296-4321	9.3	325
106	Mixed-component metal-organic frameworks (MC-MOFs): enhancing functionality through solid solution formation and surface modifications. <i>CrystEngComm</i> , <b>2011</b> , 13, 3623	3.3	308
105	Post-synthetic modification of tagged metal-organic frameworks. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 8482-6	16.4	255
104	Solvent hydrolysis and templating effects in the synthesis of metal-organic frameworks. <i>CrystEngComm</i> , <b>2005</b> , 7, 548	3.3	235
103	Synthesis and post-synthetic modification of MIL-101(Cr)-NH <sub>2</sub> via a tandem diazotisation process. <i>Chemical Communications</i> , <b>2012</b> , 48, 12053-5	5.8	132
102	Size-controlled synthesis of MIL-101(Cr) nanoparticles with enhanced selectivity for CO <sub>2</sub> over N <sub>2</sub> . <i>CrystEngComm</i> , <b>2011</b> , 13, 6916	3.3	110
101	The influence of hydrogen bonding on the structure of zinc co-ordination polymers. <i>Dalton Transactions RSC</i> , <b>2000</b> , 3845-3854		99
100	Sulfur-tagged metal-organic frameworks and their post-synthetic oxidation. <i>Chemical Communications</i> , <b>2009</b> , 4218-20	5.8	92
99	Manufacturing of metal-organic framework monoliths and their application in CO <sub>2</sub> adsorption. <i>Microporous and Mesoporous Materials</i> , <b>2015</b> , 214, 149-155	5.3	74
98	The stepwise formation of mixed-metal coordination networks using complexes of 3-cyanoacetylacetonate. <i>Dalton Transactions</i> , <b>2007</b> , 2499-509	4.3	59
97	Syntheses, structures and properties of cadmium benzenedicarboxylate metal-organic frameworks. <i>Dalton Transactions</i> , <b>2008</b> , 2465-74	4.3	58
96	Metal-organic frameworks post-synthetically modified with ferrocenyl groups: framework effects on redox processes and surface conduction. <i>Dalton Transactions</i> , <b>2012</b> , 41, 1475-80	4.3	56
95	Dipyridyl β-diketonate complexes and their use as metalloligands in the formation of mixed-metal coordination networks. <i>Dalton Transactions</i> , <b>2012</b> , 41, 4153-63	4.3	53
94	Selective incorporation of functional dicarboxylates into zinc metal-organic frameworks. <i>Chemical Communications</i> , <b>2011</b> , 47, 3380-2	5.8	51
93	Rhodium-Promoted Linear Tetramerization and Cyclization of 3,3-Dimethylbut-1-yne. <i>Angewandte Chemie - International Edition</i> , <b>1999</b> , 38, 3043-3045	16.4	48
92	Dipyridyl β-diketonate complexes: versatile polydentate metalloligands for metal-organic frameworks and hydrogen-bonded networks. <i>Chemical Communications</i> , <b>2010</b> , 46, 5067-9	5.8	47
91	Subtle structural variation in copper metal-organic frameworks: syntheses, structures, magnetic properties and catalytic behaviour. <i>Dalton Transactions</i> , <b>2008</b> , 6788-95	4.3	44

90	Incorporation by coordination and release of the iron chelator drug deferiprone from zinc-based metal-organic frameworks. <i>Chemical Communications</i> , <b>2013</b> , 49, 11260-2	5.8	40
89	Mechanical characterisation of polymer of intrinsic microporosity PIM-1 for hydrogen storage applications. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 3862-3875	4.3	39
88	Manipulation of Molecular and Supramolecular Structure in Nickel(II) Complexes through the Orientation of Dicarboxylate Hydrogen Bonding Faces. <i>Crystal Growth and Design</i> , <b>2004</b> , 4, 813-822	3.5	38
87	Ether functionalised aminophosphines: synthesis and co-ordination chemistry of palladium(II) and platinum(II) complexes. <i>Dalton Transactions RSC</i> , <b>2000</b> , 1669-1677		38
86	The effect of carboxylate and N,N'-ditopic ligand lengths on the structures of copper and zinc coordination polymers. <i>CrystEngComm</i> , <b>2012</b> , 14, 3658	3.3	36
85	Incorporation of sulfonate dyes into hydrogen-bonded networks. <i>CrystEngComm</i> , <b>2004</b> , 6, 429	3.3	33
84	Zinc dicarboxylate polymers and dimers: thiourea substitution as a tool in supramolecular synthesis. <i>Dalton Transactions</i> , <b>2003</b> , 3840	4.3	33
83	Facile synthesis of crack-free metal-organic framework films on alumina by a dip-coating route in the presence of polyethylenimine. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 5497	13	31
82	Mixed matrix membranes based on MIL-101 metal-organic frameworks in polymer of intrinsic microporosity PIM-1. <i>Separation and Purification Technology</i> , <b>2019</b> , 212, 545-554	8.3	31
81	Hydrogen storage in polymer-based processable microporous composites. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 18752-18761	13	30
80	The synthesis and late transition metal chemistry of 7-aza-N-indolyl phosphines and the activity of their palladium complexes in CO <sub>2</sub> ethene co-polymerisation. <i>Dalton Transactions</i> , <b>2003</b> , 4718-4730	4.3	27
79	Mononuclear [(4e)-Bonded Phosphaalkyne Complexes; Selective Formation of a 1,2-Diphosphacyclobutadiene Tantalum Complex. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 3221-3224	16.4	26
78	Conversion of primary amines into secondary amines on a metal-organic framework using a tandem post-synthetic modification. <i>CrystEngComm</i> , <b>2012</b> , 14, 4112	3.3	24
77	A reagentless thermal post-synthetic rearrangement of an allyloxy-tagged metal-organic framework. <i>Chemical Communications</i> , <b>2013</b> , 49, 990-2	5.8	23
76	Supercritical hydrogen adsorption in nanostructured solids with hydrogen density variation in pores. <i>Adsorption</i> , <b>2013</b> , 19, 643-652	2.6	23
75	Complexes as metalloligands in network formation: synthesis and characterisation of a mixed-metal coordination network containing palladium and zinc. <i>CrystEngComm</i> , <b>2008</b> , 10, 487	3.3	23
74	Selective cleavage of P-N bonds and the conversion of rhodium N-pyrrolyl phosphine complexes into diphosphoxane-bridged dimers. <i>Inorganic Chemistry</i> , <b>2002</b> , 41, 1695-7	5.1	23
73	Solid state interconversion of cages and coordination networks via conformational change of a semi-rigid ligand. <i>Chemical Communications</i> , <b>2010</b> , 46, 5064-6	5.8	22

72	Ion flow in a zeolitic imidazolate framework results in ionic diode phenomena. <i>Chemical Communications</i> , <b>2016</b> , 52, 2792-4	5.8	21
71	Incorporation of Dyes into Hydrogen-Bond Networks: The Structures and Properties of Guanidinium Sulfonate Derivatives Containing Ethyl Orange and 4-Aminoazobenzene-4-sulfonate. <i>Crystal Growth and Design</i> , <b>2006</b> , 6, 546-554	3.5	21
70	The synthesis and characterisation of coordination and hydrogen-bonded networks based on 4-(3,5-dimethyl-1H-pyrazol-4-yl)benzoic acid. <i>Dalton Transactions</i> , <b>2015</b> , 44, 9269-80	4.3	20
69	A facile single crystal to single crystal transition with significant structural contraction on desolvation. <i>Chemical Communications</i> , <b>2014</b> , 50, 14436-9	5.8	19
68	The synthesis, structures and reactions of zinc and cobalt metal-organic frameworks incorporating an alkyne-based dicarboxylate linker. <i>CrystEngComm</i> , <b>2012</b> , 14, 188-192	3.3	18
67	Sterically hindered electron-withdrawing ligands: the reactions of N-carbazolyl phosphines with rhodium and palladium centres. <i>Dalton Transactions</i> , <b>2004</b> , 3321-30	4.3	18
66	Evaluating Iodine Uptake in a Crystalline Sponge Using Dynamic X-ray Crystallography. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 4959-4965	5.1	17
65	Furnishing Amine-Functionalized Metal-Organic Frameworks with the $\beta$ -Amidoketone Group by Postsynthetic Modification. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 10839-10842	5.1	17
64	Amine-functionalised aminophosphines: synthesis, reversible co-ordination to platinum and use in heteronuclear dimer formation. <i>Dalton Transactions RSC</i> , <b>2000</b> , 3615-3619		17
63	Mixed-Component Sulfone-Sulfoxide Tagged Zinc IRMOFs: In Situ Ligand Oxidation, Carbon Dioxide, and Water Sorption Studies. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 2016-2023	3.5	15
62	Diphosphines possessing electronically different donor groups: synthesis and coordination chemistry of the unsymmetrical Di(N-pyrrolyl)phosphino-functionalized dpmm analogue Ph <sub>2</sub> PCH <sub>2</sub> P(NC <sub>4</sub> H <sub>4</sub> ) <sub>2</sub> . <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 7227-38	5.1	15
61	Mononuclear $\mu$ (4e)-Bonded Phosphaalkyne Complexes; Selective Formation of a 1,2-Diphosphacyclobutadiene Tantalum Complex. <i>Angewandte Chemie</i> , <b>2001</b> , 113, 3321-3324	3.6	15
60	Role of Ethynyl-Derived Weak Hydrogen-Bond Interactions in the Supramolecular Structures of 1D, 2D, and 3D Coordination Polymers Containing 5-Ethynyl-1,3-benzenedicarboxylate. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 465-474	3.5	14
59	Compositional control of pore geometry in multivariate metal-organic frameworks: an experimental and computational study. <i>Dalton Transactions</i> , <b>2016</b> , 45, 4316-26	4.3	14
58	Synthesis, structures, and magnetic behavior of new anionic copper(II) sulfate aggregates and chains. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 10983-9	5.1	14
57	Silver coordination networks and cages based on a semi-rigid bis(isoxazolyl) ligand. <i>Dalton Transactions</i> , <b>2011</b> , 40, 5483-93	4.3	14
56	Substitution and derivatization reactions of a water soluble iron(II) complex containing a self-assembled tetradentate phosphine ligand. <i>Dalton Transactions</i> , <b>2007</b> , 570-80	4.3	14
55	Synthesis and reactivity of rhodium(I) complexes containing keto-functionalised N-pyrrolyl phosphine ligands. <i>Dalton Transactions</i> , <b>2003</b> , 3717	4.3	14

54	Bismuth coordination networks containing deferiprone: synthesis, characterisation, stability and antibacterial activity. <i>Dalton Transactions</i> , <b>2015</b> , 44, 13814-7	4.3	13
53	An Iodine-Vapor-Induced Cyclization in a Crystalline Molecular Flask. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 5943-6	16.4	13
52	Nanoporous polymer-based composites for enhanced hydrogen storage. <i>Adsorption</i> , <b>2019</b> , 25, 889-901	2.6	12
51	The effect of metal distribution on the luminescence properties of mixed-lanthanide metal-organic frameworks. <i>Dalton Transactions</i> , <b>2018</b> , 47, 2360-2367	4.3	12
50	The impact of N,N'-ditopic ligand length and geometry on the structures of zinc-based mixed-linker metal-organic frameworks. <i>CrystEngComm</i> , <b>2017</b> , 19, 5549-5557	3.3	12
49	Structural manipulation through selective substitution of hydrogen bonding groups: the supramolecular structures of bis(thiosemicarbazidato)nickel complexes. <i>CrystEngComm</i> , <b>2002</b> , 4, 539	3.3	12
48	Post-synthetic modification of zirconium metal-organic frameworks by catalyst-free aza-Michael additions. <i>Dalton Transactions</i> , <b>2018</b> , 47, 14491-14496	4.3	12
47	Sodium Trihydrogen-1,4-Benzenediphosphonate: An Extended Coordination Network. <i>Journal of Chemical Crystallography</i> , <b>2011</b> , 41, 1165-1168	0.5	11
46	Competition between coordination and hydrogen bonding in networks constructed using dipyridyl-1H-pyrazole ligands. <i>CrystEngComm</i> , <b>2011</b> , 13, 1676-1682	3.3	11
45	Structural manipulation through control of hydrogen bonding faces: the effects of cation substitution on the guanidinium sulfonate structure. <i>CrystEngComm</i> , <b>2006</b> , 8, 931	3.3	11
44	Post-Synthetic Mannich Chemistry on Metal-Organic Frameworks: System-Specific Reactivity and Functionality-Triggered Dissolution. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 11094-11102	4.8	10
43	A molybdenum diphosphonate network structure exhibiting reversible dehydration and selective uptake of methanol. <i>CrystEngComm</i> , <b>2013</b> , 15, 9301	3.3	10
42	The structural influence of ligand coordination and hydrogen bonding capabilities in the crystal engineering of metal thiosemicarbazide compounds with malonate. <i>CrystEngComm</i> , <b>2005</b> , 7, 388	3.3	10
41	Rhodium-vermittelte lineare Tetramerisierung und Cyclisierung von 3,3-Dimethylbut-1-in. <i>Angewandte Chemie</i> , <b>1999</b> , 111, 3228-3230	3.6	10
40	Comparison of MIL-101(Cr) metal-organic framework and 13X zeolite monoliths for CO <sub>2</sub> capture. <i>Microporous and Mesoporous Materials</i> , <b>2020</b> , 308, 110525	5.3	10
39	CHAPTER 3: Post-synthetic Modification of MOFs. <i>RSC Catalysis Series</i> , 31-75	0.3	9
38	Assessment of the long-term stability of the polymer of intrinsic microporosity PIM-1 for hydrogen storage applications. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 332-337	6.7	9
37	Synthesis, characterization, and electrochemistry of a series of iron(II) complexes containing self-assembled 1,5-diaza-3,7-diphosphabicyclo[3.3.1]nonane ligands. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 9924-9935	5.1	8

36	Synthesis and characterisation of metal-organic frameworks containing bis(ediketonate) linkers. <i>CrystEngComm</i> , <b>2008</b> , 10, 1474	3.3	8
35	Interpenetration isomers in isorecticular amine-tagged zinc MOFs. <i>CrystEngComm</i> , <b>2019</b> , 21, 7498-7506	3.3	8
34	Zinc(II) and cadmium(II) coordination polymers containing phenylenediacetate and bis(imidazol-1-ylmethyl)benzene linkers: The effect of ligand isomers on the solid state structures. <i>Journal of Solid State Chemistry</i> , <b>2017</b> , 252, 8-21	3.3	7
33	Secondary amine-functionalised metal-organic frameworks: direct syntheses versus tandem post-synthetic modifications. <i>CrystEngComm</i> , <b>2016</b> , 18, 5710-5717	3.3	7
32	Redox Reactivity of Methylene Blue Bound in Pores of UMCM-1 Metal-Organic Frameworks. <i>Molecular Crystals and Liquid Crystals</i> , <b>2012</b> , 554, 12-21	0.5	7
31	A new small molecule gelator and 3D framework ligator of lead(II). <i>CrystEngComm</i> , <b>2015</b> , 17, 8139-8145	3.3	6
30	Chemical modification of the polymer of intrinsic microporosity PIM-1 for enhanced hydrogen storage. <i>Adsorption</i> , <b>2020</b> , 26, 1083-1091	2.6	5
29	Inclusion and release of ant alarm pheromones from metal-organic frameworks. <i>Dalton Transactions</i> , <b>2020</b> , 49, 10334-10338	4.3	5
28	Immobilisation of L-proline onto mixed-linker zirconium MOFs for heterogeneous catalysis of the aldol reaction. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2021</b> , 161, 108315	3.7	5
27	Supramolecular aspects of biomolecule interactions in metal-organic frameworks. <i>Coordination Chemistry Reviews</i> , <b>2021</b> , 439, 213928	23.2	5
26	Exploring Structure-Property Relationships of Silver 4-(Phenylethynyl)pyridine Complexes. <i>European Journal of Inorganic Chemistry</i> , <b>2017</b> , 2017, 1855-1867	2.3	4
25	Isomerism and interpenetration in hydrogen-bonded network structures. <i>CrystEngComm</i> , <b>2008</b> , 10, 15-18	3.3	4
24	The structures and properties of zinc(II) and cadmium(II) coordination polymers based on semi-rigid phenylenediacetate and 1,4-bis(2-methylimidazol-1-ylmethyl)benzene linkers. <i>Journal of Solid State Chemistry</i> , <b>2019</b> , 269, 246-256	3.3	4
23	Post-synthetic modification of zinc metal-organic frameworks through palladium-catalysed carbon-carbon bond formation. <i>Journal of Organometallic Chemistry</i> , <b>2015</b> , 792, 134-138	2.3	3
22	Tuning the Properties of Metal-Organic Frameworks by Post-synthetic Modification <b>2018</b> , 29-56		3
21	An Iodine-Vapor-Induced Cyclization in a Crystalline Molecular Flask. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 6047-6050	3.6	3
20	Hydrogen-bonded linear thiourea hexads in tetra-n-butylammonium terephthalate inclusion compounds. <i>CrystEngComm</i> , <b>2003</b> , 5, 226	3.3	3
19	Disorder within dicarboxylates and supramolecular structural control in hydrogen-bonded networks. <i>CrystEngComm</i> , <b>2003</b> , 5, 355	3.3	3

18	N-Pyrrolyl phosphine ligands: an analysis of their size, conformation and supramolecular interactions. <i>CrystEngComm</i> , <b>2001</b> , 3, 217	3.3	3
17	Biodegradable Active Packaging with Controlled Release: Principles, Progress, and Prospects. <i>ACS Food Science &amp; Technology</i> ,		3
16	6 Nitrogen, phosphorus, arsenic, antimony and bismuth. <i>Annual Reports on the Progress of Chemistry Section A</i> , <b>2003</b> , 99, 83-99		2
15	Solid-state host-guest influences on a BODIPY dye hosted within a crystalline sponge. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 14108-14115	3.6	2
14	Enhancement of gas storage and separation properties of microporous polymers by simple chemical modifications. <i>Multifunctional Materials</i> , <b>2021</b> , 4, 025002	5.2	2
13	Polymer of Intrinsic Microporosity (PIM-7) Coating Affects Triphasic Palladium Electrocatalysis. <i>ChemElectroChem</i> , <b>2019</b> , 6, 4307-4317	4.3	2
12	Solvent Sorption-Induced Actuation of Composites Based on a Polymer of Intrinsic Microporosity. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 920-928	4.3	2
11	The Chemistry of Metal-Organic Frameworks. Synthesis, Characterization, and Applications, 2 Bände. Herausgegeben von Stefan Kaskel.. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 1471-1471	3.6	1
10	7 Nitrogen, phosphorus, arsenic, antimony and bismuth. <i>Annual Reports on the Progress of Chemistry Section A</i> , <b>2004</b> , 100, 95-111		1
9	6 Nitrogen, phosphorus, arsenic, antimony and bismuth. <i>Annual Reports on the Progress of Chemistry Section A</i> , <b>2002</b> , 98, 77-91		1
8	6 Nitrogen, phosphorus, arsenic, antimony and bismuth. <i>Annual Reports on the Progress of Chemistry Section A</i> , <b>2001</b> , 97, 81-93		1
7	Coupling Postsynthetic High-Temperature Oxidative Thermolysis and Thermal Rearrangements in Isoreticular Zinc MOFs.. <i>Inorganic Chemistry</i> , <b>2022</b> , 61, 1136-1144	5.1	1
6	Synthesis, structure and hydrogen sorption properties of a pyrazine-bridged copper(I) nitrate metal-organic framework. <i>European Journal of Chemistry</i> , <b>2019</b> , 10, 195-200	0.6	1
5	Low burden, adsorbent and heat absorbing structures for respiratory protection in building fires. <i>Chemical Engineering Journal</i> , <b>2021</b> , 421, 127834	14.7	1
4	Design and optimisation of a multifunctional monolithic filter for fire escape masks. <i>Chemical Engineering Journal</i> , <b>2022</b> , 430, 132775	14.7	0
3	Inclusion of viologen cations leads to switchable metal-organic frameworks. <i>Faraday Discussions</i> , <b>2021</b> , 225, 414-430	3.6	0
2	Using geometric simulation software CASPTO to model conformational flexibility in a family of zinc metal-organic frameworks. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 8728-8737	3.6	0
1	Innentitelbild: An Iodine-Vapor-Induced Cyclization in a Crystalline Molecular Flask (Angew. Chem. 20/2016). <i>Angewandte Chemie</i> , <b>2016</b> , 128, 5970-5970	3.6	

