Daniel M Dawson

List of Publications by Year
in descending order

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68 papers	1,884 citations	257450 24 h-index	289244 40 g-index
70 all docs	70 docs citations	70 times ranked	2645 citing authors

#	Article	IF	Citations
1	Origin of the temperature dependence of ¹³C pNMR shifts for copper paddlewheel MOFs. Chemical Science, 2022, 13, 2674-2685.	7.4	2
2	Thermal Dehydrofluorination of GaPO-34 Revealed by NMR Crystallography. Journal of Physical Chemistry C, 2021, 125, 2537-2545.	3.1	5
3	Exploring cation disorder in mixedâ€metal pyrochlore ceramics using ¹⁷O NMR spectroscopy and firstâ€principles calculations. Magnetic Resonance in Chemistry, 2021, 59, 961-974.	1.9	0
4	Single-step synthesis and interface tuning of coreâ€“shell metalâ€“organic framework nanoparticles. Chemical Science, 2021, 12, 4494-4502.	7.4	11
5	Formation Mechanism and Porosity Development in Porous Boron Nitride. Journal of Physical Chemistry C, 2021, 125, 27429-27439.	3.1	15
6	Phase Distribution, Composition, and Disorder in Y₂(Hf,Sn)₂O₇ Ceramics: Insights from Solid-State NMR Spectroscopy and First-Principles Calculations. Journal of Physical Chemistry C, 2020, 124, 17073-17084.	3.1	7
7	Solid-state hostâ€“guest influences on a BODIPY dye hosted within a crystalline sponge. New Journal of Chemistry, 2020, 44, 14108-14115.	2.8	6
8	Application of NMR Crystallography to Highly Disordered Templated Materials: Extensive Local Structural Disorder in the Gallophosphate GaPO-34A. Inorganic Chemistry, 2020, 59, 11616-11626.	4.0	9
9	Siteâ€Specific Iron Substitution in STAâ€28, a Large Pore Aluminophosphate Zeotype Prepared by Using 1,10â€Phenanthrolines as Frameworkâ€Bound Templates. Angewandte Chemie - International Edition, 2020, 59, 15186-15190.	13.8	4
10	Synthesis of Chiral MOFâ€74 Frameworks by Postâ€Synthetic Modification by Using an Amino Acid. Chemistry - A European Journal, 2020, 26, 13957-13965.	3.3	35
11	Siteâ€Specific Iron Substitution in STAâ€28, a Large Pore Aluminophosphate Zeotype Prepared by Using 1,10â€Phenanthrolines as Frameworkâ€Bound Templates. Angewandte Chemie, 2020, 132, 15298-15302.	2.0	2
12	Following the unusual breathing behaviour of¹⁷O-enriched mixed-metal (Al,Ga)-MIL-53 using NMR crystallography. Physical Chemistry Chemical Physics, 2020, 22, 14514-14526.	2.8	16
13	Synthesis and Polymorphism of Mixed Aluminumâ€“Gallium Oxides. Inorganic Chemistry, 2020, 59, 3805-3816.	4.0	28
14	Deoxyfluorination with CuF₂: Enabled by Using a Lewis Base Activating Group. Angewandte Chemie - International Edition, 2020, 59, 8460-8463.	13.8	22
15	Deoxyfluorination with CuF 2 : Enabled by Using a Lewis Base Activating Group. Angewandte Chemie, 2020, 132, 8538-8541.	2.0	6
16	Reversible, Two-Step Single-Crystal to Single-Crystal Phase Transitions between Desloratadine Forms I, II, and III. Crystal Growth and Design, 2020, 20, 1800-1810.	3.0	20
17	A Picture of Disorder in Hydrous Wadsleyiteâ”Under the Combined Microscope of Solid-State NMR Spectroscopy and Ab Initio Random Structure Searching. Journal of the American Chemical Society, 2019, 141, 3024-3036.	13.7	13
18	STA-27, a porous Lewis acidic scandium MOF with an unexpected topology type prepared with 2,3,5,6-tetrakis(4-carboxyphenyl)pyrazine. Journal of Materials Chemistry A, 2019, 7, 5685-5701.	10.3	22

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19	Continuous flow knitting of a triptycene hypercrosslinked polymer. Chemical Communications, 2019, 55, 8571-8574.	4.1	22
20	13C pNMR of â€œcrumple zoneâ€•Cu(II) isophthalate metal-organic frameworks. Solid State Nuclear Magnetic Resonance, 2019, 101, 44-50.	2.3	11
21	NMR chemical shifts of urea loaded copper benzoate. A joint solid-state NMR and DFT study. Solid State Nuclear Magnetic Resonance, 2019, 101, 31-37.	2.3	17
22	Sensitivity improvement in 5QMAS NMR experiments using FAM-N pulses. Solid State Nuclear Magnetic Resonance, 2019, 100, 1-10.	2.3	3
23	Is the <scp>³¹P</scp> chemical shift anisotropy of aluminophosphates a useful parameter for <scp>NMR</scp> crystallography?. Magnetic Resonance in Chemistry, 2019, 57, 176-190.	1.9	6
24	¹⁷O solid-state NMR spectroscopy of A₂B₂O₇oxides: quantitative isotopic enrichment and spectral acquisition?. RSC Advances, 2018, 8, 7089-7101.	3.6	13
25	Modulatorâ€Controlled Synthesis of Microporous STAâ€26, an Interpenetrated 8,3â€Connected Zirconium MOF with the theâ€i Topology, and its Reversible Lattice Shift. Chemistry - A European Journal, 2018, 24, 6115-6126.	3.3	23
26	Cost-effective¹⁷O enrichment and NMR spectroscopy of mixed-metal terephthalate metalâ€“organic frameworks. Chemical Science, 2018, 9, 850-859.	7.4	49
27	A Bifunctional MOF Catalyst Containing Metalâ€“Phosphine and Lewis Acidic Active Sites. Chemistry - A European Journal, 2018, 24, 15309-15318.	3.3	40
28	Polymorphism, Weak Interactions and Phase Transitions in Chalcogenâ€“Phosphorus Heterocycles. Chemistry - A European Journal, 2018, 24, 11067-11081.	3.3	4
29	An expanded MIL-53-type coordination polymer with a reactive pendant ligand. CrystEngComm, 2018, 20, 4355-4358.	2.6	5
30	Hydrolytic stability in hemilabile metalâ€“organic frameworks. Nature Chemistry, 2018, 10, 1096-1102.	13.6	134
31	Alkaline-Earth Rhodium Hydroxides: Synthesis, Structures, and Thermal Decomposition to Complex Oxides. Inorganic Chemistry, 2018, 57, 11217-11224.	4.0	8
32	Synthesis of ZIFâ€93/11 Hybrid Nanoparticles via Postâ€Synthetic Modification of ZIFâ€93 and Their Use for H₂/CO₂ Separation. Chemistry - A European Journal, 2018, 24, 11211-11219.	3.3	27
33	Role of lattice distortion and A site cation in the phase transitions of methylammonium lead halide perovskites. Physical Review Materials, 2018, 2, .	2.4	20
34	Investigating FAM-N pulses for signal enhancement in MQMAS NMR of quadrupolar nuclei. Solid State Nuclear Magnetic Resonance, 2017, 84, 89-102.	2.3	9
35	A Multinuclear NMR Study of Six Forms of AlPO-34: Structure and Motional Broadening. Journal of Physical Chemistry C, 2017, 121, 1781-1793.	3.1	25
36	Exploiting NMR spectroscopy for the study of disorder in solids. International Reviews in Physical Chemistry, 2017, 36, 39-115.	2.3	65

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37	In situ solid-state NMR and XRD studies of the ADOR process and the unusual structure of zeolite IPC-6. Nature Chemistry, 2017, 9, 1012-1018.	13.6	63
38	An NMR Crystallographic Investigation of the Relationships between the Crystal Structure and ²⁹Si Isotropic Chemical Shift in Silica Zeolites. Journal of Physical Chemistry C, 2017, 121, 15198-15210.	3.1	28
39	Assemblyâ€"Disassemblyâ€"Organizationâ€"Reassembly Synthesis of Zeolites Based on cfi-Type Layers. Chemistry of Materials, 2017, 29, 5605-5611.	6.7	60
40	Synthesis, Isotopic Enrichment, and Solid-State NMR Characterization of Zeolites Derived from the Assembly, Disassembly, Organization, Reassembly Process. Journal of the American Chemical Society, 2017, 139, 5140-5148.	13.7	42
41	Determining the Surface Structure of Silicated Alumina Catalysts via Isotopic Enrichment and Dynamic Nuclear Polarization Surface-Enhanced NMR Spectroscopy. Journal of Physical Chemistry C, 2017, 121, 22977-22984.	3.1	34
42	Calculation and experimental measurement of paramagnetic NMR parameters of phenolic oximate Cu(<scp>II</scp>) complexes. Chemical Communications, 2017, 53, 10512-10515.	4.1	11
43	Investigation of zeolitic imidazolate frameworks using 13 C and 15 N solid-state NMR spectroscopy. Solid State Nuclear Magnetic Resonance, 2017, 87, 54-64.	2.3	21
44	Effects of Extraframework Species on the Structure-Based Prediction of ³¹P Isotropic Chemical Shifts of Aluminophosphates. Journal of Physical Chemistry C, 2017, 121, 28065-28076.	3.1	12
45	Ionothermal synthesis and characterization of CoAPO-34 molecular sieve. Microporous and Mesoporous Materials, 2017, 239, 336-341.	4.4	17
46	A gel aging effect in the synthesis of open-framework gallium phosphates: structure solution and solid-state NMR of a large-pore, open-framework material. Dalton Transactions, 2017, 46, 16895-16904.	3.3	4
47	The ambient hydration of the aluminophosphate JDF-2 to AlPO-53(A): insights from NMR crystallography. Acta Crystallographica Section C, Structural Chemistry, 2017, 73, 191-201.	0.5	6
48	Paramagnetic NMR of Phenolic Oxime Copper Complexes: A Joint Experimental and Density Functional Study. Chemistry - A European Journal, 2016, 22, 15328-15339.	3.3	22
49	Exploring the self-assembly and energy transfer of dynamic supramolecular iridium-porphyrin systems. Dalton Transactions, 2016, 45, 17195-17205.	3.3	23
50	Phase Composition and Disorder in La₂(Sn,Ti)₂O₇ Ceramics: New Insights from NMR Crystallography. Journal of Physical Chemistry C, 2016, 120, 20288-20296.	3.1	15
51	Investigating Unusual Homonuclear Intermolecular â€œThrough-Spaceâ€•J Couplings in Organochalcogen Systems. Inorganic Chemistry, 2016, 55, 10881-10887.	4.0	15
52	NMR spectroscopy of minerals and allied materials. Nuclear Magnetic Resonance, 2016, , 1-52.	0.2	21
53	Unusual Intermolecular â€œThrough-Spaceâ€•J Couplings in Pâ€"Se Heterocycles. Journal of the American Chemical Society, 2015, 137, 6172-6175.	13.7	24
54	Post-synthetic modification of zinc metal-organic frameworks through palladium-catalysed carbonâ€"carbon bond formation. Journal of Organometallic Chemistry, 2015, 792, 134-138.	1.8	4

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55	A Modular Approach for the Synthesis of Nanometer-Sized Polynitroxide Multi-Spin Systems. Journal of Organic Chemistry, 2014, 79, 8313-8323.	3.2	13
56	Calculating NMR parameters in aluminophosphates: evaluation of dispersion correction schemes. Physical Chemistry Chemical Physics, 2014, 16, 2660.	2.8	32
57	Recent developments in solid-state NMR spectroscopy of crystalline microporous materials. Physical Chemistry Chemical Physics, 2014, 16, 8223-8242.	2.8	69
58	Investigating Relationships between the Crystal Structure and ³¹P Isotropic Chemical Shifts in Calcined Aluminophosphates. Journal of Physical Chemistry C, 2014, 118, 23285-23296.	3.1	23
59	Efficient Amplitude-Modulated Pulses for Triple- to Single-Quantum Coherence Conversion in MQMAS NMR. Journal of Physical Chemistry A, 2014, 118, 6018-6025.	2.5	19
60	Zeolites with Continuously Tuneable Porosity. Angewandte Chemie - International Edition, 2014, 53, 13210-13214.	13.8	104
61	Characterization of Structural Disorder in Î³-Ga₂O₃. Journal of Physical Chemistry C, 2014, 118, 16188-16198.	3.1	107
62	Multirate delivery of multiple therapeutic agents from metal-organic frameworks. APL Materials, 2014, 2, .	5.1	58
63	Exploiting Periodic First-Principles Calculations in NMR Spectroscopy of Disordered Solids. Accounts of Chemical Research, 2013, 46, 1964-1974.	15.6	53
64	High-resolution solid-state 13C NMR spectroscopy of the paramagnetic metalâ€“organic frameworks, STAM-1 and HKUST-1. Physical Chemistry Chemical Physics, 2013, 15, 919-929.	2.8	64
65	A Multinuclear Solid-State NMR Study of Templated and Calcined Chabazite-Type GaPO-34. Journal of Physical Chemistry C, 2012, 116, 15048-15057.	3.1	24
66	Ionothermal 17O enrichment of oxides using microlitre quantities of labelled water. Chemical Science, 2012, 3, 2293.	7.4	57
67	93Nb NMR and DFT investigation of the polymorphs of NaNbO3. Physical Chemistry Chemical Physics, 2011, 13, 7565.	2.8	50
68	A co-templating route to the synthesis of Cu SAPO STA-7, giving an active catalyst for the selective catalytic reduction of NO. Microporous and Mesoporous Materials, 2011, 146, 36-47.	4.4	44