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	Hydrolytic stability in hemilabile metalâ€“organic frameworks. Nature Chemistry, 2018, 10, 1096-1102.	13.6	134
2	Characterization of Structural Disorder in Î³-Ga₂O₃. Journal of Physical Chemistry C, 2014, 118, 16188-16198.	3.1	107
3	Zeolites with Continuously Tuneable Porosity. Angewandte Chemie - International Edition, 2014, 53, 13210-13214.	13.8	104
4	Recent developments in solid-state NMR spectroscopy of crystalline microporous materials. Physical Chemistry Chemical Physics, 2014, 16, 8223-8242.	2.8	69
5	Exploiting NMR spectroscopy for the study of disorder in solids. International Reviews in Physical Chemistry, 2017, 36, 39-115.	2.3	65
6	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
7	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
8	Assemblyâ€“Disassemblyâ€“Organizationâ€“Reassembly Synthesis of Zeolites Based on cfi-Type Layers. Chemistry of Materials, 2017, 29, 5605-5611.	6.7	60
9	Multirate delivery of multiple therapeutic agents from metal-organic frameworks. APL Materials, 2014, 2, .	5.1	58
10	Ionothermal 17O enrichment of oxides using microlitre quantities of labelled water. Chemical Science, 2012, 3, 2293.	7.4	57
11	Exploiting Periodic First-Principles Calculations in NMR Spectroscopy of Disordered Solids. Accounts of Chemical Research, 2013, 46, 1964-1974.	15.6	53
12	93Nb NMR and DFT investigation of the polymorphs of NaNbO3. Physical Chemistry Chemical Physics, 2011, 13, 7565.	2.8	50
13	Cost-effective¹⁷O enrichment and NMR spectroscopy of mixed-metal terephthalate metalâ€“organic frameworks. Chemical Science, 2018, 9, 850-859.	7.4	49
14	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
15	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
16	A Bifunctional MOF Catalyst Containing Metalâ€“Phosphine and Lewis Acidic Active Sites. Chemistry - A European Journal, 2018, 24, 15309-15318.	3.3	40
17	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
18	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

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19	Calculating NMR parameters in aluminophosphates: evaluation of dispersion correction schemes. Physical Chemistry Chemical Physics, 2014, 16, 2660.	2.8	32
20	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
21	Synthesis and Polymorphism of Mixed Aluminumâ€“Gallium Oxides. Inorganic Chemistry, 2020, 59, 3805-3816.	4.0	28
22	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
23	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
24	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
25	Unusual Intermolecular â€œThrough-Spaceâ€•J Couplings in Pâ€“Se Heterocycles. Journal of the American Chemical Society, 2015, 137, 6172-6175.	13.7	24
26	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
27	Exploring the self-assembly and energy transfer of dynamic supramolecular iridium-porphyrin systems. Dalton Transactions, 2016, 45, 17195-17205.	3.3	23
28	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
29	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
30	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
31	Continuous flow knitting of a triptycene hypercrosslinked polymer. Chemical Communications, 2019, 55, 8571-8574.	4.1	22
32	Deoxyfluorination with CuF₂: Enabled by Using a Lewis Base Activating Group. Angewandte Chemie - International Edition, 2020, 59, 8460-8463.	13.8	22
33	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
34	NMR spectroscopy of minerals and allied materials. Nuclear Magnetic Resonance, 2016, , 1-52.	0.2	21
35	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
36	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

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37	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
38	Ionothermal synthesis and characterization of CoAPO-34 molecular sieve. Microporous and Mesoporous Materials, 2017, 239, 336-341.	4.4	17
39	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
40	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
41	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
42	Investigating Unusual Homonuclear Intermolecular â€œThrough-Spaceâ€• Couplings in Organochalcogen Systems. Inorganic Chemistry, 2016, 55, 10881-10887.	4.0	15
43	Formation Mechanism and Porosity Development in Porous Boron Nitride. Journal of Physical Chemistry C, 2021, 125, 27429-27439.	3.1	15
44	A Modular Approach for the Synthesis of Nanometer-Sized Polynitroxide Multi-Spin Systems. Journal of Organic Chemistry, 2014, 79, 8313-8323.	3.2	13
45	¹⁷O solid-state NMR spectroscopy of A₂B₂O₇oxides: quantitative isotopic enrichment and spectral acquisition?. RSC Advances, 2018, 8, 7089-7101.	3.6	13
46	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
47	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
48	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
49	13C pNMR of â€œcrumple zoneâ€•Cu(II) isophthalate metal-organic frameworks. Solid State Nuclear Magnetic Resonance, 2019, 101, 44-50.	2.3	11
50	Single-step synthesis and interface tuning of coreâ€“shell metalâ€“organic framework nanoparticles. Chemical Science, 2021, 12, 4494-4502.	7.4	11
51	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
52	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
53	Alkaline-Earth Rhodium Hydroxides: Synthesis, Structures, and Thermal Decomposition to Complex Oxides. Inorganic Chemistry, 2018, 57, 11217-11224.	4.0	8
54	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

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55	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
56	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
57	Deoxyfluorination with CuF 2 : Enabled by Using a Lewis Base Activating Group. Angewandte Chemie, 2020, 132, 8538-8541.	2.0	6
58	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
59	An expanded MIL-53-type coordination polymer with a reactive pendant ligand. CrystEngComm, 2018, 20, 4355-4358.	2.6	5
60	Thermal Dehydrofluorination of GaPO-34 Revealed by NMR Crystallography. Journal of Physical Chemistry C, 2021, 125, 2537-2545.	3.1	5
61	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
62	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
63	Polymorphism, Weak Interactions and Phase Transitions in Chalcogenâ€“Phosphorus Heterocycles. Chemistry - A European Journal, 2018, 24, 11067-11081.	3.3	4
64	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
65	Sensitivity improvement in 5QMAS NMR experiments using FAM-N pulses. Solid State Nuclear Magnetic Resonance, 2019, 100, 1-10.	2.3	3
66	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
67	Origin of the temperature dependence of ¹³C pNMR shifts for copper paddlewheel MOFs. Chemical Science, 2022, 13, 2674-2685.	7.4	2
68	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