

# John Griffin

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67

papers

3,233

citations

28

h-index

56

g-index

69

ext. papers

3,808

ext. citations

9.2

avg. IF

5.44

L-index

#	Paper	IF	Citations
67	New Insight into Li+ Dynamics in Lithium Bimetal Phosphate. <i>Journal of the Electrochemical Society</i> , <b>2022</b> , 169, 010510	3.9	1
66	Crystalline azobenzene composites as photochemical phase-change materials. <i>New Journal of Chemistry</i> , <b>2022</b> , 46, 4057-4061	3.6	1
65	Efficient solid-state photoswitching of methoxyazobenzene in a metal-organic framework for thermal energy storage.. <i>Chemical Science</i> , <b>2022</b> , 13, 3014-3019	9.4	0
64	Synthesis, characterisation, and feasibility studies on the use of vanadium tellurate(vi) as a cathode material for aqueous rechargeable Zn-ion batteries.. <i>RSC Advances</i> , <b>2022</b> , 12, 12211-12218	3.7	0
63	Perspectives for next generation lithium-ion battery cathode materials. <i>APL Materials</i> , <b>2021</b> , 9, 109201	5.7	8
62	F Solid-State NMR and Vibrational Raman Characterization of Corticosteroid Drug-Lipid Membrane Interactions. <i>ChemPlusChem</i> , <b>2021</b> , 86, 1517-1523	2.8	
61	Solid-state nuclear magnetic resonance study of polymorphism in tris(8-hydroxyquinolate)aluminium. <i>Magnetic Resonance in Chemistry</i> , <b>2021</b> , 59, 1024-1037	2.1	1
60	Expanding the chemistry of borates with functional [BO] anions. <i>Nature Communications</i> , <b>2021</b> , 12, 2597	17.4	28
59	NMR studies of adsorption and diffusion in porous carbonaceous materials. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , <b>2021</b> , 124-125, 57-84	10.4	7
58	2021 roadmap for sodium-ion batteries. <i>JPhys Energy</i> , <b>2021</b> , 3, 031503	4.9	24
57	Surface Engineering Strategy Using Urea To Improve the Rate Performance of Na Ti O in Na-Ion Batteries. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 3875-3886	4.8	6
56	Metal organic frameworks for hydrogen purification. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , ,	6.7	1
55	Effect of Transition Metal Substitution on the Flexibility and Thermal Properties of MOF-Based Solid-Solid Phase Change Materials. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 12950-12960	5.1	1
54	Mesoscopic simulations of the NMR spectra of porous carbon based supercapacitors: electronic structure and adsorbent reorganisation effects. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 15925-15934	3.6	2
53	A gateway to understanding confined ions. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 628-629	28.7	0
52	Chemically Prepared Li <sub>0.6</sub> FePO <sub>4</sub> Solid Solution as a Vehicle for Studying Phase Separation Kinetics in Li-Ion Battery Materials. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 7608-7614	3.8	2
51	Permselective ion electrosorption of subnanometer pores at high molar strength enables capacitive deionization of saline water. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 1285-1295	5.8	23

50	Improved Understanding of Atomic Ordering in $Y_4Si_xAl_{2-x}O_9$ Materials Using a Combined Solid-State NMR and Computational Approach. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 23976-23987	3.8	1
49	Observing Solvent Dynamics in Porous Carbons by Nuclear Magnetic Resonance : Elucidating molecular-level dynamics of in-pore and ex-pore species. <i>Johnson Matthey Technology Review</i> , <b>2020</b> , 64, 152-164	2.5	3
48	Long-Term Solar Energy Storage under Ambient Conditions in a MOF-Based Solid-Solid Phase-Change Material. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 9925-9936	9.6	11
47	A Picture of Disorder in Hydrous Wadsleyite-Under the Combined Microscope of Solid-State NMR Spectroscopy and Ab Initio Random Structure Searching. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 3024-3036	16.4	9
46	Factors affecting the nucleus-independent chemical shift in NMR studies of microporous carbon electrode materials. <i>Energy Storage Materials</i> , <b>2019</b> , 21, 335-346	19.4	12
45	Catalytic inverse vulcanization. <i>Nature Communications</i> , <b>2019</b> , 10, 647	17.4	71
44	Drug orientations within statin-loaded lipoprotein nanoparticles by F solid-state NMR. <i>Chemical Communications</i> , <b>2019</b> , 55, 13287-13290	5.8	4
43	Investigation of structure and dynamics in a photochromic molecular crystal by NMR crystallography. <i>Magnetic Resonance in Chemistry</i> , <b>2019</b> , 57, 230-242	2.1	1
42	Recent Advances in Solid-State Nuclear Magnetic Resonance Spectroscopy. <i>Annual Review of Analytical Chemistry</i> , <b>2018</b> , 11, 485-508	12.5	34
41	A Combined Mg Solid-State NMR and Ab Initio DFT Approach to Probe the Local Structural Differences in Magnesium Acetate Phases $Mg(CH_3COO)_2 \cdot nH_2O$ ( $n=0, 1, 4$ ). <i>ChemPhysChem</i> , <b>2018</b> , 19, 1722-1732	3.2	2
40	Continuous silicon oxycarbide fiber mats with tin nanoparticles as a high capacity anode for lithium-ion batteries. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 215-228	5.8	24
39	Lithium Conductivity and Ions Dynamics in $LiBH_4/SiO_2$ Solid Electrolytes Studied by Solid-State NMR and Quasi-Elastic Neutron Scattering and Applied in Lithium-Sulfur Batteries. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 15264-15275	3.8	39
38	Selective observation of charge storing ions in supercapacitor electrode materials. <i>Solid State Nuclear Magnetic Resonance</i> , <b>2018</b> , 89, 45-49	3.1	7
37	Average orientation of a fluoroaromatic molecule in lipid bilayers from DFT-informed NMR measurements of H-F dipolar couplings. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 18207-18215	3.6	2
36	Orientation of a Diagnostic Ligand Bound to Macroscopically Aligned Amyloid-Fibrils Determined by Solid-State NMR. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 6611-6615	6.4	
35	A Multinuclear NMR Study of Six Forms of $AlPO_4$ : Structure and Motional Broadening. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 1781-1793	3.8	21
34	Donor-acceptor stacking arrangements in bulk and thin-film high-mobility conjugated polymers characterized using molecular modelling and MAS and surface-enhanced solid-state NMR spectroscopy. <i>Chemical Science</i> , <b>2017</b> , 8, 3126-3136	9.4	50
33	Direct observation of ion dynamics in supercapacitor electrodes using in situ diffusion NMR spectroscopy. <i>Nature Energy</i> , <b>2017</b> , 2,	62.3	208

32	Low cost and renewable sulfur-polymers by inverse vulcanisation, and their potential for mercury capture. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 11682-11692	13	128
31	Ion Dynamics and CO <sub>2</sub> Absorption Properties of Nb-, Ta-, and Y-Doped Li <sub>2</sub> ZrO <sub>3</sub> Studied by Solid-State NMR, Thermogravimetry, and First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 21877-21886	3.8	12
30	Revealing Local Dynamics of the Protonic Conductor CsH(PO <sub>3</sub> H) by Solid-State NMR Spectroscopy and First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 27830-27838	3.8	5
29	High-Rate Intercalation without Nanostructuring in Metastable Nb <sub>2</sub> O <sub>5</sub> Bronze Phases. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 8888-99	16.4	173
28	Solid-state NMR studies of supercapacitors. <i>Solid State Nuclear Magnetic Resonance</i> , <b>2016</b> , 74-75, 16-35	3.1	38
27	New Perspectives on the Charging Mechanisms of Supercapacitors. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 5731-44	16.4	401
26	Lattice simulation method to model diffusion and NMR spectra in porous materials. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 094701	3.9	25
25	In situ NMR and electrochemical quartz crystal microbalance techniques reveal the structure of the electrical double layer in supercapacitors. <i>Nature Materials</i> , <b>2015</b> , 14, 812-9	27	233
24	Characterization of the dynamics in the protonic conductor CsH <sub>2</sub> PO <sub>4</sub> by solid-state NMR spectroscopy and first-principles calculations: correlating phosphate and protonic motion. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 3867-76	16.4	49
23	NMR Study of Ion Dynamics and Charge Storage in Ionic Liquid Supercapacitors. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 7231-42	16.4	148
22	New Insights into the Structure of Nanoporous Carbons from NMR, Raman, and Pair Distribution Function Analysis. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 6848-6857	9.6	68
21	Ion Dynamics in Li <sub>2</sub> CO <sub>3</sub> Studied by Solid-State NMR and First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 24255-24264	3.8	26
20	Theory and Practice: Bulk Synthesis of C <sub>3</sub> B and its H <sub>2</sub> - and Li-Storage Capacity. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 6017-6021	3.6	2
19	Ring Current Effects: Factors Affecting the NMR Chemical Shift of Molecules Adsorbed on Porous Carbons. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 7508-7514	3.8	86
18	Ion counting in supercapacitor electrodes using NMR spectroscopy. <i>Faraday Discussions</i> , <b>2014</b> , 176, 49-68.6	6.6	75
17	Solid-State Nuclear Magnetic Resonance Spectroscopy <b>2013</b> , 1-88		4
16	Nuclear magnetic resonance study of ion adsorption on microporous carbide-derived carbon. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 7722-30	3.6	65
15	Water in the Earth's mantle: a solid-state NMR study of hydrous wadsleyite. <i>Chemical Science</i> , <b>2013</b> , 4, 1523	9.4	37

14	In situ NMR spectroscopy of supercapacitors: insight into the charge storage mechanism. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 18968-80	16.4	124
13	First-principles calculation of NMR parameters using the gauge including projector augmented wave method: a chemist's point of view. <i>Chemical Reviews</i> , <b>2012</b> , 112, 5733-79	68.1	378
12	A Multinuclear Solid-State NMR Study of Templated and Calcined Chabazite-Type GaPO-34. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 15048-15057	3.8	21
11	Ionothermal <sup>17</sup> O enrichment of oxides using microlitre quantities of labelled water. <i>Chemical Science</i> , <b>2012</b> , 3, 2293	9.4	52
10	Structural chemistry, monoclinic-to-orthorhombic phase transition, and CO <sub>2</sub> adsorption behavior of the small pore scandium terephthalate, Sc <sub>2</sub> (O <sub>2</sub> CC <sub>6</sub> H <sub>4</sub> )CO <sub>2</sub> ) <sub>3</sub> , and its nitro- and amino-functionalized derivatives. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 10844-58	5.1	66
9	Observation of "hidden" magnesium: first-principles calculations and <sup>25</sup> Mg solid-state NMR of enstatite. <i>Solid State Nuclear Magnetic Resonance</i> , <b>2011</b> , 40, 91-9	3.1	23
8	Octaselenocyclododecane. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 4209-4212	3.6	7
7	<sup>77</sup> Se Solid-State NMR of Inorganic and Organoselenium Systems: A Combined Experimental and Computational Study. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 10859-10872	3.8	22
6	Molecular Modeling, Multinuclear NMR, and Diffraction Studies in the Templated Synthesis and Characterization of the Aluminophosphate Molecular Sieve STA-2. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 12698-12710	3.8	38
5	High-resolution ( <sup>19</sup> F MAS NMR spectroscopy: structural disorder and unusual J couplings in a fluorinated hydroxy-silicate. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 15651-60	16.4	77
4	Complete ( <sup>1</sup> H resonance assignment of beta-maltose from ( <sup>1</sup> H-( <sup>1</sup> H DQ-SQ CRAMPS and ( <sup>1</sup> H (DQ-DUMBO)-( <sup>13</sup> C SQ refocused INEPT 2D solid-state NMR spectra and first principles GIPAW calculations. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 6970-83	3.6	76
3	Dynamics on the microsecond timescale in hydrous silicates studied by solid-state ( <sup>2</sup> H NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 2989-98	3.6	28
2	Transformation of AlPO-53 to JDF-2: Reversible Dehydration of a Templated Aluminophosphate Studied by MAS NMR and Diffraction. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 10780-10789	3.8	36
1	Quantifying weak hydrogen bonding in uracil and 4-cyano-4-phenylbiphenyl: a combined computational and experimental investigation of NMR chemical shifts in the solid state. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 945-54	16.4	105