

John Griffin

List of Publications by Citations

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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 Perspectives on the Charging Mechanisms of Supercapacitors. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5731-44	16.4	401
66	First-principles calculation of NMR parameters using the gauge including projector augmented wave method: a chemist's point of view. <i>Chemical Reviews</i> , 2012 , 112, 5733-79	68.1	378
65	In situ NMR and electrochemical quartz crystal microbalance techniques reveal the structure of the electrical double layer in supercapacitors. <i>Nature Materials</i> , 2015 , 14, 812-9	27	233
64	Direct observation of ion dynamics in supercapacitor electrodes using in situ diffusion NMR spectroscopy. <i>Nature Energy</i> , 2017 , 2,	62.3	208
63	High-Rate Intercalation without Nanostructuring in Metastable Nb ₂ O ₅ Bronze Phases. <i>Journal of the American Chemical Society</i> , 2016 , 138, 8888-99	16.4	173
62	NMR Study of Ion Dynamics and Charge Storage in Ionic Liquid Supercapacitors. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7231-42	16.4	148
61	Low cost and renewable sulfur-polymers by inverse vulcanisation, and their potential for mercury capture. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 11682-11692	13	128
60	In situ NMR spectroscopy of supercapacitors: insight into the charge storage mechanism. <i>Journal of the American Chemical Society</i> , 2013 , 135, 18968-80	16.4	124
59	Quantifying weak hydrogen bonding in uracil and 4-cyano-4-ethynylbiphenyl: a combined computational and experimental investigation of NMR chemical shifts in the solid state. <i>Journal of the American Chemical Society</i> , 2008 , 130, 945-54	16.4	105
58	Ring Current Effects: Factors Affecting the NMR Chemical Shift of Molecules Adsorbed on Porous Carbons. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 7508-7514	3.8	86
57	High-resolution ¹⁹ F MAS NMR spectroscopy: structural disorder and unusual J couplings in a fluorinated hydroxy-silicate. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15651-60	16.4	77
56	Complete ¹ H resonance assignment of beta-maltose from ¹ H- ¹ H DQ-SQ CRAMPS and ¹ H (DQ-DUMBO)- ¹³ C SQ refocused INEPT 2D solid-state NMR spectra and first principles GIPAW calculations. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 6970-83	3.6	76
55	Ion counting in supercapacitor electrodes using NMR spectroscopy. <i>Faraday Discussions</i> , 2014 , 176, 49-68	6.6	75
54	Catalytic inverse vulcanization. <i>Nature Communications</i> , 2019 , 10, 647	17.4	71
53	New Insights into the Structure of Nanoporous Carbons from NMR, Raman, and Pair Distribution Function Analysis. <i>Chemistry of Materials</i> , 2015 , 27, 6848-6857	9.6	68
52	Structural chemistry, monoclinic-to-orthorhombic phase transition, and CO ₂ adsorption behavior of the small pore scandium terephthalate, Sc ₂ (O ₂ CC ₆ H ₄)CO ₂) ₃ , and its nitro- and amino-functionalized derivatives. <i>Inorganic Chemistry</i> , 2011 , 50, 10844-58	5.1	66
51	Nuclear magnetic resonance study of ion adsorption on microporous carbide-derived carbon. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 7722-30	3.6	65

50	Ionothermal ¹⁷ O enrichment of oxides using microlitre quantities of labelled water. <i>Chemical Science</i> , 2012 , 3, 2293	9.4	52
49	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> , 2017 , 8, 3126-3136	9.4	50
48	Characterization of the dynamics in the protonic conductor CsH ₂ PO ₄ by ³¹ P solid-state NMR spectroscopy and first-principles calculations: correlating phosphate and protonic motion. <i>Journal of the American Chemical Society</i> , 2015 , 137, 3867-76	16.4	49
47	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> , 2018 , 122, 15264-15275	3.8	39
46	Solid-state NMR studies of supercapacitors. <i>Solid State Nuclear Magnetic Resonance</i> , 2016 , 74-75, 16-35	3.1	38
45	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> , 2010 , 114, 12698-12710	3.8	38
44	Water in the Earth's mantle: a solid-state NMR study of hydrous wadsleyite. <i>Chemical Science</i> , 2013 , 4, 1523	9.4	37
43	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> , 2009 , 113, 10780-10789	3.8	36
42	Recent Advances in Solid-State Nuclear Magnetic Resonance Spectroscopy. <i>Annual Review of Analytical Chemistry</i> , 2018 , 11, 485-508	12.5	34
41	Dynamics on the microsecond timescale in hydrous silicates studied by solid-state (² H) NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 2989-98	3.6	28
40	Expanding the chemistry of borates with functional [BO] anions. <i>Nature Communications</i> , 2021 , 12, 2597	17.4	28
39	Ion Dynamics in Li ₂ CO ₃ Studied by Solid-State NMR and First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 24255-24264	3.8	26
38	Lattice simulation method to model diffusion and NMR spectra in porous materials. <i>Journal of Chemical Physics</i> , 2015 , 142, 094701	3.9	25
37	Continuous silicon oxycarbide fiber mats with tin nanoparticles as a high capacity anode for lithium-ion batteries. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 215-228	5.8	24
36	2021 roadmap for sodium-ion batteries. <i>JPhys Energy</i> , 2021 , 3, 031503	4.9	24
35	Observation of "hidden" magnesium: first-principles calculations and ²⁵ Mg solid-state NMR of enstatite. <i>Solid State Nuclear Magnetic Resonance</i> , 2011 , 40, 91-9	3.1	23
34	Permselective ion electrosorption of subnanometer pores at high molar strength enables capacitive deionization of saline water. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 1285-1295	5.8	23
33	⁷⁷ Se Solid-State NMR of Inorganic and Organoselenium Systems: A Combined Experimental and Computational Study. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 10859-10872	3.8	22

32	A Multinuclear NMR Study of Six Forms of AlPO-34: Structure and Motional Broadening. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 1781-1793	3.8	21
31	A Multinuclear Solid-State NMR Study of Templated and Calcined Chabazite-Type GaPO-34. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 15048-15057	3.8	21
30	Factors affecting the nucleus-independent chemical shift in NMR studies of microporous carbon electrode materials. <i>Energy Storage Materials</i> , 2019 , 21, 335-346	19.4	12
29	Ion Dynamics and CO ₂ Absorption Properties of Nb-, Ta-, and Y-Doped Li ₂ ZrO ₃ Studied by Solid-State NMR, Thermogravimetry, and First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 21877-21886	3.8	12
28	Long-Term Solar Energy Storage under Ambient Conditions in a MOF-Based Solid-Solid Phase-Change Material. <i>Chemistry of Materials</i> , 2020 , 32, 9925-9936	9.6	11
27	A Picture of Disorder in Hydrated Wadsleyite-Under the Combined Microscope of Solid-State NMR Spectroscopy and Ab Initio Random Structure Searching. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3024-3036	16.4	9
26	Perspectives for next generation lithium-ion battery cathode materials. <i>APL Materials</i> , 2021 , 9, 109201	5.7	8
25	Octaselenocyclododecane. <i>Angewandte Chemie</i> , 2011 , 123, 4209-4212	3.6	7
24	NMR studies of adsorption and diffusion in porous carbonaceous materials. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2021 , 124-125, 57-84	10.4	7
23	Selective observation of charge storing ions in supercapacitor electrode materials. <i>Solid State Nuclear Magnetic Resonance</i> , 2018 , 89, 45-49	3.1	7
22	Surface Engineering Strategy Using Urea To Improve the Rate Performance of Na Ti O in Na-Ion Batteries. <i>Chemistry - A European Journal</i> , 2021 , 27, 3875-3886	4.8	6
21	Revealing Local Dynamics of the Protonic Conductor CsH(PO ₃ H) by Solid-State NMR Spectroscopy and First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 27830-27838	3.8	5
20	Solid-State Nuclear Magnetic Resonance Spectroscopy 2013 , 1-88		4
19	Drug orientations within statin-loaded lipoprotein nanoparticles by F solid-state NMR. <i>Chemical Communications</i> , 2019 , 55, 13287-13290	5.8	4
18	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> , 2020 , 64, 152-164	2.5	3
17	Chemically Prepared Li _{0.6} FePO ₄ Solid Solution as a Vehicle for Studying Phase Separation Kinetics in Li-Ion Battery Materials. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 7608-7614	3.8	2
16	A Combined Mg Solid-State NMR and Ab Initio DFT Approach to Probe the Local Structural Differences in Magnesium Acetate Phases Mg(CH ₃ COO) ₂ ·nH ₂ O (n=0, 1, 4). <i>ChemPhysChem</i> , 2018 , 19, 1722-1732	3.2	2
15	Theory and Practice: Bulk Synthesis of C ₃ B and its H ₂ - and Li-Storage Capacity. <i>Angewandte Chemie</i> , 2015 , 127, 6017-6021	3.6	2

14	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> , 2018 , 20, 18207-18215	3.6	2
13	Mesoscopic simulations of the NMR spectra of porous carbon based supercapacitors: electronic structure and adsorbent reorganisation effects. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 15925-15934	3.6	2
12	New Insight into Li+ Dynamics in Lithium Bimetal Phosphate. <i>Journal of the Electrochemical Society</i> , 2022 , 169, 010510	3.9	1
11	Improved Understanding of Atomic Ordering in Y ₄ Si ₆ Al ₂ O ₉ N _x Materials Using a Combined Solid-State NMR and Computational Approach. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 23976-23987	3.8	1
10	Solid-state nuclear magnetic resonance study of polymorphism in tris(8-hydroxyquinolate)aluminium. <i>Magnetic Resonance in Chemistry</i> , 2021 , 59, 1024-1037	2.1	1
9	Investigation of structure and dynamics in a photochromic molecular crystal by NMR crystallography. <i>Magnetic Resonance in Chemistry</i> , 2019 , 57, 230-242	2.1	1
8	Metal organic frameworks for hydrogen purification. <i>International Journal of Hydrogen Energy</i> , 2021 , ,	6.7	1
7	Effect of Transition Metal Substitution on the Flexibility and Thermal Properties of MOF-Based Solid-Solid Phase Change Materials. <i>Inorganic Chemistry</i> , 2021 , 60, 12950-12960	5.1	1
6	Crystalline azobenzene composites as photochemical phase-change materials. <i>New Journal of Chemistry</i> , 2022 , 46, 4057-4061	3.6	1
5	A gateway to understanding confined ions. <i>Nature Nanotechnology</i> , 2020 , 15, 628-629	28.7	0
4	Efficient solid-state photoswitching of methoxyazobenzene in a metal-organic framework for thermal energy storage.. <i>Chemical Science</i> , 2022 , 13, 3014-3019	9.4	0
3	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> , 2022 , 12, 12211-12218	3.7	0
2	F Solid-State NMR and Vibrational Raman Characterization of Corticosteroid Drug-Lipid Membrane Interactions. <i>ChemPlusChem</i> , 2021 , 86, 1517-1523	2.8	
1	Orientation of a Diagnostic Ligand Bound to Macroscopically Aligned Amyloid- β Fibrils Determined by Solid-State NMR. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6611-6615	6.4	