

# Alexander C Forse

## List of Publications by Citations

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41  
papers

3,187  
citations

25  
h-index

55  
g-index

55  
ext. papers

3,848  
ext. citations

12.1  
avg, IF

5.48  
L-index

#	Paper	IF	Citations
41	NMR reveals the surface functionalisation of Ti3C2 MXene. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 5099-102	3.6	491
40	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
39	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
38	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
37	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
36	Metal-Organic Nanosheets Formed via Defect-Mediated Transformation of a Hafnium Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 5397-5404	16.4	165
35	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
34	A Diaminopropane-Appended Metal-Organic Framework Enabling Efficient CO Capture from Coal Flue Gas via a Mixed Adsorption Mechanism. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 13541-13553	16.4	148
33	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
32	Cooperative carbon capture and steam regeneration with tetraamine-appended metal-organic frameworks. <i>Science</i> , <b>2020</b> , 369, 392-396	33.3	111
31	How Strong Is the Hydrogen Bond in Hybrid Perovskites?. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 6154-6159	6.4	110
30	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
29	Ion counting in supercapacitor electrodes using NMR spectroscopy. <i>Faraday Discussions</i> , <b>2014</b> , 176, 49-68	6.6	75
28	Selective nitrogen adsorption via backbonding in a metal-organic framework with exposed vanadium sites. <i>Nature Materials</i> , <b>2020</b> , 19, 517-521	27	70
27	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
26	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
25	Enantioselective Recognition of Ammonium Carbamates in a Chiral Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 16000-16012	16.4	61

24	Elucidating CO Chemisorption in Diamine-Appended Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 18016-18031	16.4	61
23	Water Enables Efficient CO Capture from Natural Gas Flue Emissions in an Oxidation-Resistant Diamine-Appended Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 13171-13186	16.4	55
22	Role of Amine-Cavity Interactions in Determining the Structure and Mechanical Properties of the Ferroelectric Hybrid Perovskite $[NH_3NH_2]Zn(HCOO)_3$ . <i>Chemistry of Materials</i> , <b>2016</b> , 28, 312-317	9.6	52
21	Unexpected Diffusion Anisotropy of Carbon Dioxide in the Metal-Organic Framework Zn(dobpdc). <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 1663-1673	16.4	42
20	Solid-state NMR studies of supercapacitors. <i>Solid State Nuclear Magnetic Resonance</i> , <b>2016</b> , 74-75, 16-35	3.1	38
19	Tunable mechanical and dynamical properties in the ferroelectric perovskite solid solution $[NHNH][NHOH]Zn(HCOO)$ . <i>Chemical Science</i> , <b>2016</b> , 7, 5108-5112	9.4	31
18	Cooperative Carbon Dioxide Adsorption in Alcoholamine- and Alkoxyalkylamine-Functionalized Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 19468-19477	16.4	30
17	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
16	NMR Spectroscopy Reveals Adsorbate Binding Sites in the Metal-Organic Framework UiO-66(Zr). <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 8295-8305	3.8	20
15	Influence of Pore Size on Carbon Dioxide Diffusion in Two Isoreticular Metal-Organic Frameworks. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 3570-3576	9.6	10
14	Amine Dynamics in Diamine-Appended Mg(dobpdc) Metal-Organic Frameworks. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 7044-7049	6.4	10
13	Carbon electrodes for energy storage: general discussion. <i>Faraday Discussions</i> , <b>2014</b> , 172, 239-60	3.6	9
12	Revisiting Anisotropic Diffusion of Carbon Dioxide in the Metal-Organic Framework Zn2(dobpdc). <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 15344-15351	3.8	8
11	Efficient prediction of nucleus independent chemical shifts for polycyclic aromatic hydrocarbons. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 13746-13755	3.6	7
10	Runaway Carbon Dioxide Conversion Leads to Enhanced Uptake in a Nanohybrid Form of Porous Magnesium Borohydride. <i>Advanced Materials</i> , <b>2019</b> , 31, e1904252	24	7
9	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
8	New chemistry for enhanced carbon capture: beyond ammonium carbamates. <i>Chemical Science</i> , <b>2020</b> , 12, 508-516	9.4	7
7	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

6	Insights into the electric double-layer capacitance of two-dimensional electrically conductive metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 16006-16015	13	6
5	Cooperative Carbon Dioxide Adsorption in Alcoholamine- and Alkoxyalkylamine-Functionalized MetalOrganic Frameworks. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 19636-19645	3.6	4
4	Conjugated Microporous Polymers via Solvent-Free Ionothermal Cyclotrimerization of Methyl Ketones. <i>Chemistry of Materials</i> ,	9.6	4
3	Overcoming Metastable CO Adsorption in a Bulky Diamine-Appended Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 15258-15270	16.4	4
2	Aromaticity as a Guide to Planarity in Conjugated Molecules and Polymers. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 5608-5612	3.8	3
1	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