

# Frédérique Pourpoint

## List of Publications by Year in descending order

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28  
papers

1,187  
citations

471509

17  
h-index

501196

28  
g-index

32  
all docs

32  
docs citations

32  
times ranked

1516  
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 5733-5779.	47.7	446
2	Recent developments in MAS DNP-NMR of materials. <i>Solid State Nuclear Magnetic Resonance</i> , 2019, 101, 116-143.	2.3	116
3	Insights into the Catalytic Activity of Nitridated Fibrous Silica (KCC-1) Nanocatalysts from <sup>15</sup> N and <sup>29</sup> Si NMR Spectroscopy Enhanced by Dynamic Nuclear Polarization. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2190-2193.	13.8	101
4	Probing <sup>27</sup> Al- <sup>13</sup> C proximities in metal-organic frameworks using dynamic nuclear polarization enhanced NMR spectroscopy. <i>Chemical Communications</i> , 2014, 50, 933-935.	4.1	67
5	Measurement of Aluminum-Carbon Distances Using RESPDOR NMR Experiments. <i>ChemPhysChem</i> , 2012, 13, 3605-3615.	2.1	59
6	The D-HMQC MAS-NMR Technique. <i>Annual Reports on NMR Spectroscopy</i> , 2014, , 145-184.	1.5	52
7	New perspectives in the PAW/GIPAW approach: JP-O-Si coupling constants, antisymmetric parts of shift tensors and NQR predictions. <i>Magnetic Resonance in Chemistry</i> , 2010, 48, S86-S102.	1.9	42
8	Host-Guest Interactions in Dealuminated HY Zeolite Probed by <sup>13</sup> C- <sup>27</sup> Al Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3068-3072.	4.6	31
9	Solid-state NMR indirect detection of nuclei experiencing large anisotropic interactions using spinning sideband-selective pulses. <i>Solid State Nuclear Magnetic Resonance</i> , 2015, 72, 104-117.	2.3	25
10	The Surprising Stability of Cu <sub>3</sub> (btc) <sub>2</sub> Metal-Organic Framework under Steam Flow at High Temperature. <i>Crystal Growth and Design</i> , 2018, 18, 6681-6693.	3.0	25
11	Advances in Structural Studies on Alkylaluminum Species in the Solid State via Challenging <sup>27</sup> Al- <sup>13</sup> C NMR Spectroscopy and X-ray Diffraction. <i>Journal of Physical Chemistry C</i> , 2013, 117, 18091-18099.	3.1	22
12	NMR crystallography to probe the breathing effect of the MIL-53(Al) metal-organic framework using solid-state NMR measurements of <sup>13</sup> C- <sup>27</sup> Al distances. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2017, 73, 176-183.	0.5	22
13	NMR Crystallography of an Oxovanadium(V) Complex by an Approach Combining Multinuclear Magic Angle Spinning NMR, DFT, and Spin Dynamics Simulations. <i>ChemPhysChem</i> , 2015, 16, 1619-1626.	2.1	21
14	Magnetization transfer from protons to quadrupolar nuclei in solid-state NMR using PRESTO or dipolar-mediated refocused INEPT methods. <i>Journal of Magnetic Resonance</i> , 2019, 299, 109-123.	2.1	21
15	Solid-State NMR Spectroscopy Proves the Presence of Penta-coordinated Sc Sites in MIL-100(Sc). <i>Chemistry - A European Journal</i> , 2017, 23, 9525-9534.	3.3	19
16	Study of Xenon Mobility in the Two Forms of MIL-53(Al) Using Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19262-19268.	3.1	19
17	Recent Developments in NMR Studies of Aluminophosphates. <i>Annual Reports on NMR Spectroscopy</i> , 2018, 94, 113-185.	1.5	14
18	Probing the aluminum complexation by Siberian riverine organic matter using solid-state DNP-NMR. <i>Chemical Geology</i> , 2017, 452, 1-8.	3.3	11

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19	Caveat on the Actual Robustness of Heteronuclear NMR Methods for Probing the Surface of $\gamma$ -Alumina and Related Catalysts. <i>Journal of Physical Chemistry C</i> , 2019, 123, 12919-12927.	3.1	11
20	Quantitative Analysis of the Proximities of OH Ligands and Vanadium Sites in a Polyoxovanadate Cluster Using Frequency-Selective $^1\text{H}$ - $^{51}\text{V}$ Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18580-18588.	3.1	10
21	Observation of $^1\text{H}$ - $^{13}\text{C}$ and $^1\text{H}$ - $^1\text{H}$ proximities in a paramagnetic solid by NMR at high magnetic field under ultra-fast MAS. <i>Journal of Magnetic Resonance</i> , 2015, 251, 36-42.	2.1	8
22	Grafting of a new bis-silylamido aluminum species on silica: insight from solid-state NMR into interactions with the surface. <i>Dalton Transactions</i> , 2019, 48, 5243-5252.	3.3	6
23	$^{71}\text{Ga}$ - $^{77}\text{Se}$ connectivities and proximities in gallium selenide crystal and glass probed by solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2017, 282, 71-82.	2.1	5
24	3D correlation NMR spectrum between three distinct heteronuclei for the characterization of inorganic samples: Application on sodium alumino-phosphate materials. <i>Solid State Nuclear Magnetic Resonance</i> , 2017, 84, 164-170.	2.3	4
25	Local measure of the electromagnetic field in magnetic resonance coils: How do simulations help to disentangle the contributions of the electric and magnetic fields?. <i>Solid State Nuclear Magnetic Resonance</i> , 2017, 82-83, 1-9.	2.3	4
26	Characterization of Functional Groups in Estuarine Dissolved Organic Matter by DNP-enhanced $^{15}\text{N}$ and $^{13}\text{C}$ Solid-State NMR. <i>ChemPhysChem</i> , 2021, 22, 1907-1913.	2.1	2
27	Probing $^{29}\text{Si}$ - $^{17}\text{O}$ connectivities and proximities by solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2021, 330, 107029.	2.1	2
28	An unusual $\text{O}^{2-}/\text{F}^{2-}$ distribution in the new pyrochlore oxyfluorides: $\text{Na}_2\text{B}_2\text{O}_5\text{F}_2$ (B = Nb, Ta). <i>Chemical Communications</i> , 2022, 58, 2391-2394.	4.1	1