

# Alexei F Privalov

## List of Publications by Year in descending order

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22  
papers

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840776

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h-index

713466

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22  
all docs

22  
docs citations

22  
times ranked

476  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solid state Field-Cycling NMR relaxometry: Instrumental improvements and new applications. Progress in Nuclear Magnetic Resonance Spectroscopy, 2014, 82, 39-69.	7.5	96
2	Magnet Design with High B0 Homogeneity for Fast-Field-Cycling NMR Applications. Journal of Magnetic Resonance, 2001, 149, 22-28.	2.1	58
3	New Nuclear Magnetic Moment of $^{209}\text{Bi}$ : Resolving the Dismuth Hyperfine Puzzle. Physical Review Letters, 2010, 120, 093001.	7.8	47
4	$^1\text{H}$ NMR at Larmor frequencies down to 3 Hz by means of Field-Cycling techniques. Journal of Magnetic Resonance, 2017, 277, 79-85.	2.1	29
5	NMR diffusion studies of proton-exchange membranes in wide temperature range. Journal of Membrane Science, 2020, 596, 117691.	8.2	21
6	The distribution of motional correlation times in superionic conductors: nuclear magnetic resonance of tysonite-like. Journal of Physics Condensed Matter, 1997, 9, 9275-9287.	1.8	20
7	NMR studies of Li mobility in NASICON-type glass-ceramic ionic conductors with optimized microstructure. Journal of Materials Chemistry A, 2019, 7, 13968-13977.	10.3	20
8	Low-cost high-temperature NMR probe head. Applied Magnetic Resonance, 2002, 22, 597-600.	1.2	19
9	Synthesis and NMR investigation of 2D nanocrystals of the $\text{LaF}_3$ doped by $\text{SrF}_2$ . Journal of Fluorine Chemistry, 2016, 188, 185-190.	1.7	16
10	Synthesis of $\text{LaF}_3$ nanosheets with high fluorine mobility investigated by NMR relaxometry and diffusometry. Journal of Chemical Physics, 2015, 143, 234702.	3.0	14
11	Ion-motion disorder in a tysonite superionic conductor from $^{19}\text{F}$ NMR data. Physics of the Solid State, 1999, 41, 1482-1485.	0.6	13
12	Magnetic moment of $^{207}\text{Pb}$ and the hyperfine splitting of $^{207}\text{Pb}$	3.6	11
13	One dimensional magnetic resonance microscopy with micrometer resolution in static field gradients. Journal of Magnetic Resonance, 2019, 307, 106566.	2.1	8
14	Preparation and Study of Sulfonated Co-Polynaphthoyleneimide Proton-Exchange Membrane for a $\text{H}_2$ /Air Fuel Cell. Materials, 2020, 13, 5297.	2.9	8
15	High temperature mechanical field-cycling setup. Journal of Magnetic Resonance, 2008, 192, 173-176.	2.1	7
16	Self-diffusion micromechanism in Nafion studied by $^2\text{H}$ NMR relaxation dispersion. Journal of Chemical Physics, 2021, 154, 034904.	3.0	7
17	Energy efficient iron based electronic field cycling magnet. Journal of Magnetic Resonance, 2009, 198, 183-187.	2.1	5
18	Influence of Morphology of $\text{LaF}_3$ Nano-crystals on Fluorine Dynamics Studied by NMR Diffusometry. Applied Magnetic Resonance, 2019, 50, 579-588.	1.2	5

#	ARTICLE	IF	CITATIONS
19	Isotope Effect on Diffusion in Nafion Studied by NMR Diffusometry. Applied Magnetic Resonance, 2020, 51, 145-153.	1.2	5
20	Superionic conductors with tysonite structure: evidence for a distribution of motional correlation times from $^{19}\text{F}$ -NMR data. Ionics, 1996, 2, 319-322.	2.4	2
21	Anomalously High Fluorine Mobility in Tysonite-Like $\text{LaF}_3\text{:ScF}_3$ Nanocrystals: NMR Diffusion Data. Applied Magnetic Resonance, 2020, 51, 1691-1699.	1.2	2
22	Evaporation of Sessile Binary Mixture Droplets: Time Dependence of Droplet Shape and Concentration Profile from One-Dimensional Magnetic Resonance Microscopy. Langmuir, 2021, 37, 13576-13583.	3.5	2