

Matthias Roos

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/987171/publications.pdf>

Version: 2024-02-01

15
papers

489
citations

687363

13
h-index

996975

15
g-index

15
all docs

15
docs citations

15
times ranked

645
citing authors

#	ARTICLE	IF	CITATIONS
1	Coupling and Decoupling of Rotational and Translational Diffusion of Proteins under Crowding Conditions. <i>Journal of the American Chemical Society</i> , 2016, 138, 10365-10372.	13.7	86
2	Basic principles of static proton low-resolution spin diffusion NMR in nanophase-separated materials with mobility contrast. <i>Solid State Nuclear Magnetic Resonance</i> , 2015, 72, 50-63.	2.3	80
3	Unexpected liquid crystalline behaviour of three-ring bent-core mesogens: bis(4-subst.-phenyl) 2-methyl-iso-phthalates. <i>Soft Matter</i> , 2012, 8, 2671.	2.7	56
4	Fast Magic-Angle-Spinning ^{19}F Spin Exchange NMR for Determining Nanometer ^{19}F Distances in Proteins and Pharmaceutical Compounds. <i>Journal of Physical Chemistry B</i> , 2018, 122, 2900-2911.	2.6	49
5	Determination of Long-Range Distances by Fast Magic-Angle-Spinning Radiofrequency-Driven ^{19}F Dipolar Recoupling NMR. <i>Journal of Physical Chemistry B</i> , 2018, 122, 9302-9313.	2.6	37
6	Complex Morphology of the Intermediate Phase in Block Copolymers and Semicrystalline Polymers As Revealed by ^1H NMR Spin Diffusion Experiments. <i>Macromolecules</i> , 2017, 50, 8598-8610.	4.8	24
7	Transient binding accounts for apparent violation of the generalized Stokes-Einstein relation in crowded protein solutions. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 18006-18014.	2.8	23
8	NMR study of interphase structure in layered polymer morphologies with mobility contrast: disorder and confinement effects vs. dynamic heterogeneities. <i>Colloid and Polymer Science</i> , 2014, 292, 1825-1839.	2.1	22
9	NMR-Detected Brownian Dynamics of β -Crystallin over a Wide Range of Concentrations. <i>Biophysical Journal</i> , 2015, 108, 98-106.	0.5	21
10	Two-dimensional ^{19}F - ^{13}C correlation NMR for ^{19}F resonance assignment of fluorinated proteins. <i>Journal of Biomolecular NMR</i> , 2020, 74, 193-204.	2.8	21
11	The ω tail of the protein tumbling correlation function: observation by ^1H NMR relaxometry in a wide frequency and concentration range. <i>Journal of Biomolecular NMR</i> , 2015, 63, 403-415.	2.8	19
12	Moderate MAS enhances local ^1H spin exchange and spin diffusion. <i>Journal of Magnetic Resonance</i> , 2015, 260, 28-37.	2.1	18
13	Elucidating Relayed Proton Transfer through a His-Trp-His Triad of a Transmembrane Proton Channel by Solid-State NMR. <i>Journal of Molecular Biology</i> , 2019, 431, 2554-2566.	4.2	16
14	Monitoring nuclear spin-flip processes and measuring spin-diffusion constants via hole burning into the magnetization. <i>Chemical Physics Letters</i> , 2012, 536, 147-154.	2.6	10
15	Dynamic Heterogeneity of Filler-Associated Interphases in Polymer Nanocomposites. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100061.	3.9	7