

Detlef Reichert

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5686536/publications.pdf>

Version: 2024-02-01

31
papers

754
citations

567281

15
h-index

526287

27
g-index

31
all docs

31
docs citations

31
times ranked

791
citing authors

#	ARTICLE	IF	CITATIONS
1	Solid-state NMR and protein dynamics. Progress in Nuclear Magnetic Resonance Spectroscopy, 2005, 47, 1-25.	7.5	98
2	Solid-State NMR Approaches to Internal Dynamics of Proteins: From Picoseconds to Microseconds and Seconds. Accounts of Chemical Research, 2013, 46, 2028-2036.	15.6	72
3	Microsecond Time Scale Mobility in a Solid Protein As Studied by the ^{15}N $\langle i \rangle \langle \substack{R \\ i} \rangle \langle \substack{17 \\ k} \rangle$ Site-Specific NMR Relaxation Rates. Journal of the American Chemical Society, 2010, 132, 11850-11853.	13.7	57
4	Molecular dynamics in solid polymers. Progress in Nuclear Magnetic Resonance Spectroscopy, 2005, 47, 137-164.	7.5	52
5	Direct Observation of Millisecond to Second Motions in Proteins by Dipolar CODEX NMR Spectroscopy. Journal of the American Chemical Society, 2009, 131, 12097-12099.	13.7	45
6	NMR Characterization of PEG Networks Synthesized by CuAAC Using Reactive Oligomers. Macromolecules, 2013, 46, 6922-6930.	4.8	42
7	Slow exchange involving equivalent sites in solids by one-dimensional MAS NMR techniques. Progress in Nuclear Magnetic Resonance Spectroscopy, 2002, 41, 83-113.	7.5	41
8	Crystallization in PEG networks: The importance of network topology and chain tilt in crystals. Polymer, 2019, 165, 72-82.	3.8	41
9	Crystallization of Poly(ethylene oxide) with a Well-Defined Point Defect in the Middle of the Polymer Chain. Macromolecules, 2016, 49, 6609-6620.	4.8	39
10	Identification of Slow Dynamic Processes in Poly(n-hexyl Methacrylate) by Solid-State 1D-MAS Exchange NMR. Macromolecules, 2003, 36, 3992-4003.	4.8	37
11	Helical Jump Motions of Poly(L-Lactic Acid) Chains in the $\hat{\alpha}$ Phase As Revealed by Solid-State NMR. Journal of Physical Chemistry B, 2015, 119, 4552-4563.	2.6	29
12	Dynamic Carbon-13 MAS NMR: Application to Benzene Ring Flips in Polyaryl Ethers. Solid State Nuclear Magnetic Resonance, 2000, 18, 17-36.	2.3	28
13	Proton conductivity and phase transitions in 1,2,3-triazole. Physical Chemistry Chemical Physics, 2016, 18, 6153-6163.	2.8	24
14	Simultaneous processing of solid-state NMR relaxation and 1D-MAS exchange data: the backbone dynamics of free vs. binase-bound barstar. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2003, 1650, 117-127.	2.3	17
15	The relation of the X-ray B-factor to protein dynamics: insights from recent dynamic solid-state NMR data. Journal of Biomolecular Structure and Dynamics, 2012, 30, 617-627.	3.5	16
16	Receiver imperfections and CYCLOPS: An alternative description. Concepts in Magnetic Resonance, 2002, 14, 130-139.	1.3	14
17	CONTRA: Improving the performance of dynamic investigations in natural abundance organic solids by mirror-symmetric constant-time CODEX. Journal of Magnetic Resonance, 2008, 191, 141-147.	2.1	13
18	Chain Tilt and Crystallization of Ethylene Oxide Oligomers with Midchain Defects. ACS Macro Letters, 2017, 6, 1207-1211.	4.8	12

#	ARTICLE	IF	CITATIONS
19	Signal loss in 1D magic-angle spinning exchange NMR (CODEX): radio-frequency limitations and intermediate motions. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 7022.	2.8	11
20	Network formation by Michael addition of primary amines to vinyl end groups of enzymatically synthesized poly(glycerol adipate). <i>Polymer International</i> , 2021, 70, 135-144.	3.1	11
21	Molecular Dynamics in the Crystalline Regions of Poly(ethylene oxide) Containing a Well-Defined Point Defect in the Middle of the Polymer Chain. <i>Journal of Physical Chemistry B</i> , 2017, 121, 4620-4630.	2.6	10
22	New insights into the interaction of proteins and disaccharides – The effect of pH and concentration. <i>Biopolymers</i> , 2017, 107, 39-45.	2.4	9
23	Polymer Networks Synthesized from Poly(Sorbitol Adipate) and Functionalized Poly(Ethylene Glycol). <i>Gels</i> , 2021, 7, 22.	4.5	8
24	Ion Transport Properties and Ionicity of 1,3-Dimethyl-1,2,3-Triazolium Salts with Fluorinated Anions. <i>Materials</i> , 2018, 11, 1723.	2.9	6
25	Solid State Phase Transitions in Poly(ethylene oxide) Crystals Induced by Designed Chain Defects. <i>Macromolecules</i> , 2018, 51, 4407-4414.	4.8	6
26	Investigation of slow dynamic processes in natural abundance polymeric systems by novel 1D-MAS exchange NMR methods. <i>Macromolecular Symposia</i> , 2002, 184, 175-182.	0.7	5
27	Slow dynamics in glassy methyl α -D-rhamnopyranoside studied by 1D NMR exchange experiments. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 542-549.	2.8	5
28	Miniaturized Measurement of Drug-Polymer Interactions via Viscosity Increase for Polymer Selection in Amorphous Solid Dispersions. <i>Molecular Pharmaceutics</i> , 2019, 16, 2214-2225.	4.6	4
29	Tailored Melting Temperatures and Crystallinity of Poly(ethylene oxide) Induced by Designed Chain Defects. <i>ACS Applied Polymer Materials</i> , 2019, 1, 3130-3136.	4.4	1
30	Trajectory-Based Approach for the Analysis of CODEX Solid-State Exchange Experiments in the Slow and Intermediate Motion Regime: Comparison of Experiment, Simulation, and Analytical Treatment. <i>Journal of Physical Chemistry C</i> , 2021, 125, 6839-6850.	3.1	1
31	Solid-state formation of centrosymmetric cage dimeric 4-aryl-1,4-dihydropyridines via non-symmetric syn-dimers studied by ^{13}C cross-polarization magic angle spinning NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 1999, 37, 376-381.	1.9	0