

Dennis Kurzbach

List of Publications by Year in descending order

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63
papers

1,443
citations

361413

20
h-index

377865

34
g-index

66
all docs

66
docs citations

66
times ranked

1427
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyperpolarized NMR Spectroscopy: ^{13}C -DNP, PHIP, and SABRE Techniques. Chemistry - an Asian Journal, 2018, 13, 1857-1871.	3.3	180
2	Cooperative Unfolding of Compact Conformations of the Intrinsically Disordered Protein Osteopontin. Biochemistry, 2013, 52, 5167-5175.	2.5	90
3	Application and methodology of dissolution dynamic nuclear polarization in physical, chemical and biological contexts. Journal of Magnetic Resonance, 2019, 305, 41-50.	2.1	76
4	Nanoscale Inhomogeneities in Thermoresponsive Polymers. Macromolecular Rapid Communications, 2013, 34, 119-134.	3.9	64
5	Compensatory Adaptations of Structural Dynamics in an Intrinsically Disordered Protein Complex. Angewandte Chemie - International Edition, 2014, 53, 3840-3843.	13.8	59
6	Investigation of Intrinsically Disordered Proteins through Exchange with Hyperpolarized Water. Angewandte Chemie - International Edition, 2017, 56, 389-392.	13.8	53
7	Hyperpolarized NMR Metabolomics at Natural ^{13}C Abundance. Analytical Chemistry, 2020, 92, 14867-14871.	6.5	44
8	Single-Scan ^{13}C Diffusion-Ordered NMR Spectroscopy of DNP-Hyperpolarised Substrates. Chemistry - A European Journal, 2017, 23, 16722-16727.	3.3	34
9	Hydration Layer Coupling and Cooperativity in Phase Behavior of Stimulus Responsive Peptide Polymers. Journal of the American Chemical Society, 2013, 135, 11299-11308.	13.7	33
10	Stimuli-Responsive Tertiary Amine Functional PEGs Based on N,N -Dialkylglycidylamines. Macromolecules, 2014, 47, 7679-7690.	4.8	33
11	Protonation-dependent conformational variability of intrinsically disordered proteins. Protein Science, 2013, 22, 1196-1205.	7.6	31
12	Filterable Agents for Hyperpolarization of Water, Metabolites, and Proteins. Chemistry - A European Journal, 2016, 22, 14696-14700.	3.3	31
13	EPR spectroscopic characterization of persistent germyl-substituted Pb(III)- and Sn(III)-radicals. Dalton Transactions, 2010, 39, 6449.	3.3	30
14	Characterizing Thermal Mixing Dynamic Nuclear Polarization via Cross-Talk between Spin Reservoirs. Journal of Physical Chemistry Letters, 2017, 8, 5531-5536.	4.6	29
15	Assessing the Solution Shape and Size of Charged Dendronized Polymers Using Double Electron-Electron Resonance. Journal of Physical Chemistry Letters, 2011, 2, 1583-1587.	4.6	28
16	Aggregation Behavior of Amphiphilic p(HPMA)- co -p(LMA) Copolymers Studied by FCS and EPR Spectroscopy. Biomacromolecules, 2012, 13, 4065-4074.	5.4	28
17	A Polyphenylene Dendrimer Drug Transporter with Precisely Positioned Amphiphilic Surface Patches. Advanced Healthcare Materials, 2015, 4, 377-384.	7.6	28
18	Detection of correlated conformational fluctuations in intrinsically disordered proteins through paramagnetic relaxation interference. Physical Chemistry Chemical Physics, 2016, 18, 5753-5758.	2.8	28

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19	Modulation of Correlated Segment Fluctuations in IDPs upon Complex Formation as an Allosteric Regulatory Mechanism. <i>Journal of Molecular Biology</i> , 2018, 430, 2439-2452.	4.2	26
20	Nanoparticle-Coupled Topical Methotrexate Can Normalize Immune Responses and Induce Tissue Remodeling in Psoriasis. <i>Journal of Investigative Dermatology</i> , 2020, 140, 1003-1014.e8.	0.7	25
21	NMR Spectroscopic Studies of the Conformational Ensembles of Intrinsically Disordered Proteins. <i>Advances in Experimental Medicine and Biology</i> , 2015, 870, 149-185.	1.6	22
22	Hyperpolarized water as universal sensitivity booster in biomolecular NMR. <i>Nature Protocols</i> , 2022, 17, 1621-1657.	12.0	22
23	High-Resolution NMR of Folded Proteins in Hyperpolarized Physiological Solvents. <i>Chemistry - A European Journal</i> , 2018, 24, 13418-13423.	3.3	20
24	Hyperpolarized Water Enhances Two-Dimensional Proton NMR Correlations: A New Approach for Molecular Interactions. <i>Journal of the American Chemical Society</i> , 2019, 141, 12448-12452.	13.7	19
25	Assessing the Onset of Calcium Phosphate Nucleation by Hyperpolarized Real-Time NMR. <i>Analytical Chemistry</i> , 2020, 92, 7666-7673.	6.5	19
26	Loading and release capabilities of charged dendronized polymers revealed by EPR spectroscopy. <i>Chemical Science</i> , 2012, 3, 2550.	7.4	18
27	How Structure-Related Collapse Mechanisms Determine Nanoscale Inhomogeneities in Thermoresponsive Polymers. <i>Macromolecules</i> , 2012, 45, 7535-7548.	4.8	18
28	NMR probing and visualization of correlated structural fluctuations in intrinsically disordered proteins. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 10651-10656.	2.8	18
29	Sensitivity-enhanced three-dimensional and carbon-detected two-dimensional NMR of proteins using hyperpolarized water. <i>Journal of Biomolecular NMR</i> , 2020, 74, 161-171.	2.8	17
30	Nanoscale Inhomogeneities in Thermoresponsive Triblock Copolymers. <i>ChemPhysChem</i> , 2011, 12, 3566-3572.	2.1	16
31	Communication: Dissolution DNP reveals a long-lived deuterium spin state imbalance in methyl groups. <i>Journal of Chemical Physics</i> , 2017, 146, 041101.	3.0	16
32	Transport of hyperpolarized samples in dissolution-DNP experiments. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 13696-13705.	2.8	16
33	Dinitrogen complexation with main group radicals. <i>Chemical Science</i> , 2011, 2, 473-479.	7.4	15
34	Long-Lived States in Hyperpolarized Deuterated Methyl Groups Reveal Weak Binding of Small Molecules to Proteins. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1523-1529.	4.6	15
35	Relaxation of long-lived modes in NMR of deuterated methyl groups. <i>Journal of Chemical Physics</i> , 2018, 149, 054202.	3.0	14
36	A DNP-hyperpolarized solid-state water NMR MASER: observation and qualitative analysis. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 21278-21286.	2.8	14

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37	Impact of Amino-Functionalization on the Response of Poly(ethylene glycol) (PEG) to External Stimuli. ACS Macro Letters, 2013, 2, 128-131.	4.8	13
38	Hydrophobic Collapse of the Intrinsically Disordered Transcription Factor Myc Associated Factor X. Biochemistry, 2017, 56, 5365-5372.	2.5	13
39	Sample Ripening through Nanophase Separation Influences the Performance of Dynamic Nuclear Polarization. Angewandte Chemie - International Edition, 2018, 57, 5171-5175.	13.8	13
40	Network representation of protein interactions: Theory of graph description and analysis. Protein Science, 2016, 25, 1617-1627.	7.6	12
41	Dissolution dynamic nuclear polarization of deuterated molecules enhanced by cross-polarization. Journal of Chemical Physics, 2016, 145, 194203.	3.0	12
42	Nature-inspired dimerization as a strategy to modulate neuropeptide pharmacology exemplified with vasopressin and oxytocin. Chemical Science, 2021, 12, 4057-4062.	7.4	12
43	Anisotropic longitudinal electronic relaxation affects DNP at cryogenic temperatures. Physical Chemistry Chemical Physics, 2017, 19, 16087-16094.	2.8	10
44	A Switch between Two Intrinsically Disordered Conformational Ensembles Modulates the Active Site of a Basic-Helix-Loop-Helix Transcription Factor. Journal of Physical Chemistry Letters, 2020, 11, 8944-8951.	4.6	10
45	Evaporation-Induced Self-Assembly of Small Peptide-Conjugated Silica Nanoparticles. Angewandte Chemie - International Edition, 2021, 60, 22700-22705.	13.8	10
46	Highly Defined, Colloid-Like Ionic Clusters in Solution. ChemistryOpen, 2012, 1, 211-214.	1.9	9
47	Rates of Chemical Reactions Embedded in a Metabolic Network by Dissolution Dynamic Nuclear Polarisation NMR. Chemistry - A European Journal, 2018, 24, 5456-5461.	3.3	9
48	Conformational tuning of a DNA-bound transcription factor. Nucleic Acids Research, 2019, 47, 5429-5435.	14.5	9
49	A novel sample handling system for dissolution dynamic nuclear polarization experiments. Magnetic Resonance, 2021, 2, 387-394.	1.9	9
50	Ingredient-Dependent Extent of Lipid Oxidation in Margarine. Antioxidants, 2021, 10, 105.	5.1	8
51	Load-Collapse-Release Cascades of Amphiphilic Guest Molecules in Charged Dendronized Polymers through Spatial Separation of Noncovalent Forces. Chemistry - A European Journal, 2013, 19, 5602-5608.	3.3	7
52	Residue-resolved monitoring of protein hyperpolarization at sub-second time resolution. Communications Chemistry, 2021, 4, .	4.5	7
53	Conformational selection of vasopressin upon V1a receptor binding. Computational and Structural Biotechnology Journal, 2021, 19, 5826-5833.	4.1	7
54	Magnetic Resonance Access to Transiently Formed Protein Complexes. ChemistryOpen, 2014, 3, 115-123.	1.9	6

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55	Untersuchung von intrinsisch unstrukturierten Proteinen mithilfe des Austausches mit hyperpolarisiertem Wasser. <i>Angewandte Chemie</i> , 2017, 129, 397-401.	2.0	6
56	Network representation of protein interactions – Experimental results. <i>Protein Science</i> , 2016, 25, 1628-1636.	7.6	5
57	Formation and Evolution of Nanoscale Calcium Phosphate Precursors under Biomimetic Conditions. <i>Analytical Chemistry</i> , 2021, 93, 10204-10211.	6.5	5
58	Reifung von Proben beeinflusst die Effizienz der Kernpolarisation. <i>Angewandte Chemie</i> , 2018, 130, 5267-5271.	2.0	4
59	Inversion of Hyperpolarized ¹³ C NMR Signals through Cross-Correlated Cross-Relaxation in Dissolution DNP Experiments. <i>Journal of Physical Chemistry B</i> , 2022, 126, 4599-4610.	2.6	4
60	How to assess the structural dynamics of transcription factors by integrating sparse NMR and EPR constraints with molecular dynamics simulations. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 2097-2105.	4.1	3
61	¹ H, ¹³ C and ¹⁵ N backbone resonance assignment of BRCA1 fragment 219–504. <i>Biomolecular NMR Assignments</i> , 2020, 14, 289-293.	0.8	1
62	Frontispiece: Single-Scan ¹³ C Diffusion-Ordered NMR Spectroscopy of DNP-Hyperpolarised Substrates. <i>Chemistry - A European Journal</i> , 2017, 23, .	3.3	0
63	Evaporation-Induced Self-Assembly of Small Peptide-Conjugated Silica Nanoparticles. <i>Angewandte Chemie</i> , 2021, 133, 22882.	2.0	0