Guangjin Hou

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/11450980/publications.pdf

Version: 2024-02-01

69	2,662	159585	206112
papers	citations	30 h-index	48 g-index

70	70	70	2154
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Homogeneous and Fast Ion Conduction of PEOâ€Based Solidâ€State Electrolyte at Low Temperature. Advanced Functional Materials, 2020, 30, 2007172.	14.9	246
2	Broadband homonuclear correlation spectroscopy driven by combined <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:mtext>R</mml:mtext><mml:msubsup><mml:mrow><mml:mn>2</mml:mn></mml:mrow><mml:mrow><mml:n sequences under fast magic angle spinning for NMR structural analysis of organic and biological solids. Journal of Magnetic Resonance, 2013, 232, 18-30.	2.1	132
3	Cyclophilin A stabilizes the HIV-1 capsid through a novel non-canonical binding site. Nature Communications, 2016, 7, 10714.	12.8	126
4	Enhanced Sensitivity by Nonuniform Sampling Enables Multidimensional MAS NMR Spectroscopy of Protein Assemblies. Journal of Physical Chemistry B, 2012, 116, 7416-7427.	2.6	89
5	Expanding the horizons for structural analysis of fully protonated protein assemblies by NMR spectroscopy at MAS frequencies above 100ÂkHz. Solid State Nuclear Magnetic Resonance, 2017, 87, 117-125.	2.3	88
6	¹Hâ€“¹³C/¹Hâ€“¹⁵N Heteronuclear Dipolar Recoupling by R-Symmetry Sequences Under Fast Magic Angle Spinning for Dynamics Analysis of Biological and Organic Solids. Journal of the American Chemical Society, 2011, 133, 18646-18655.	13.7	87
7	Motions on the Millisecond Time Scale and Multiple Conformations of HIV-1 Capsid Protein: Implications for Structural Polymorphism of CA Assemblies. Journal of the American Chemical Society, 2012, 134, 6455-6466.	13.7	83
8	Recoupling of chemical shift anisotropy by R-symmetry sequences in magic angle spinning NMR spectroscopy. Journal of Chemical Physics, 2012, 137, 134201.	3.0	78
9	Dynamic allostery governs cyclophilin Aâ€“HIV capsid interplay. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14617-14622.	7.1	76
10	Probing Structure and Dynamics of Protein Assemblies by Magic Angle Spinning NMR Spectroscopy. Accounts of Chemical Research, 2013, 46, 2047-2058.	15.6	75
11	Characterizing Phosphorus Speciation of Chesapeake Bay Sediments Using Chemical Extraction, ³¹P NMR, and X-ray Absorption Fine Structure Spectroscopy. Environmental Science & Technology, 2015, 49, 203-211.	10.0	69
12	Multidimensional Magic Angle Spinning NMR Spectroscopy for Site-Resolved Measurement of Proton Chemical Shift Anisotropy in Biological Solids. Journal of the American Chemical Society, 2013, 135, 1358-1368.	13.7	66
13	Magic Angle Spinning NMR Reveals Sequence-Dependent Structural Plasticity, Dynamics, and the Spacer Peptide 1 Conformation in HIV-1 Capsid Protein Assemblies. Journal of the American Chemical Society, 2013, 135, 17793-17803.	13.7	60
14	Spin Diffusion Driven by R-Symmetry Sequences: Applications to Homonuclear Correlation Spectroscopy in MAS NMR of Biological and Organic Solids. Journal of the American Chemical Society, 2011, 133, 3943-3953.	13.7	58
15	Atomic-resolution structure of HIV-1 capsid tubes by magic-angle spinning NMR. Nature Structural and Molecular Biology, 2020, 27, 863-869.	8.2	58
16	Role of 12-Ring Channels of Mordenite in DME Carbonylation Investigated by Solid-State NMR. Journal of Physical Chemistry C, 2016, 120, 22526-22531.	3.1	56
17	Quenching protein dynamics interferes with HIV capsid maturation. Nature Communications, 2017, 8, 1779.	12.8	56
18	Dynamic Nuclear Polarization Enhanced MAS NMR Spectroscopy for Structural Analysis of HIV-1 Protein Assemblies. Journal of Physical Chemistry B, 2016, 120, 329-339.	2.6	49

#	Article	IF	Citations
19	HIV-1 Capsid Function Is Regulated by Dynamics: Quantitative Atomic-Resolution Insights by Integrating Magic-Angle-Spinning NMR, QM/MM, and MD. Journal of the American Chemical Society, 2016, 138, 14066-14075.	13.7	48
20	Determination of relative tensor orientations by Î³-encoded chemical shift anisotropy/heteronuclear dipolar coupling 3D NMR spectroscopy in biological solids. Physical Chemistry Chemical Physics, 2010, 12, 14873.	2.8	47
21	Atomic-resolution structure of the CAP-Gly domain of dynactin on polymeric microtubules determined by magic angle spinning NMR spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14611-14616.	7.1	46
22	Heterogeneous Rh/CPOL-BP&P(OPh)3 catalysts for hydroformylation of 1-butene: The formation and evolution of the active species. Journal of Catalysis, 2018, 368, 197-206.	6.2	45
23	Characterization of Noninnocent Metal Complexes Using Solid-State NMR Spectroscopy: o-Dioxolene Vanadium Complexes. Inorganic Chemistry, 2011, 50, 9794-9803.	4.0	43
24	Accurate measurement of heteronuclear dipolar couplings by phase-alternating R-symmetry (PARS) sequences in magic angle spinning NMR spectroscopy. Journal of Chemical Physics, 2014, 141, 104202.	3.0	42
25	Effects of Proximity-Dependent Metal Migration on Bifunctional Composites Catalyzed Syngas to Olefins. ACS Catalysis, 2021, 11, 9729-9737.	11.2	41
26	Superior Na-storage performance of molten-state-blending-synthesized monoclinic NaVPO₄F nanoplates for Na-ion batteries. Journal of Materials Chemistry A, 2018, 6, 24201-24209.	10.3	39
27	CryoEM Structure Refinement by Integrating NMR Chemical Shifts with Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2017, 121, 3853-3863.	2.6	38
28	RF inhomogeneity and how it controls CPMAS. Solid State Nuclear Magnetic Resonance, 2015, 72, 17-26.	2.3	34
29	Câ^'C Bond Formation in Syngas Conversion over Zinc Sites Grafted on ZSMâ€5 Zeolite. Angewandte Chemie - International Edition, 2020, 59, 6529-6534.	13.8	34
30	Quantitative cross-polarization NMR spectroscopy in uniformly 13C-labeled solids. Chemical Physics Letters, 2006, 421, 356-360.	2.6	33
31	Sensitivity gains, linearity, and spectral reproducibility in nonuniformly sampled multidimensional MAS NMR spectra of high dynamic range. Journal of Biomolecular NMR, 2014, 59, 57-73.	2.8	31
32	Dynamic Nuclear Polarization Magic-Angle Spinning Nuclear Magnetic Resonance Combined with Molecular Dynamics Simulations Permits Detection of Order and Disorder in Viral Assemblies. Journal of Physical Chemistry B, 2019, 123, 5048-5058.	2.6	31
33	⁵¹V NMR Crystallography of Vanadium Chloroperoxidase and Its Directed Evolution P395D/L241V/T343A Mutant: Protonation Environments of the Active Site. Journal of the American Chemical Society, 2015, 137, 5618-5628.	13.7	30
34	Improving dipolar recoupling for site-specific structural and dynamics studies in biosolids NMR: windowed RN-symmetry sequences. Physical Chemistry Chemical Physics, 2016, 18, 4035-4044.	2.8	27
35	A Magicâ€Angleâ€Spinning NMR Spectroscopy Method for the Siteâ€Specific Measurement of Proton Chemicalâ€Shift Anisotropy in Biological and Organic Solids. Israel Journal of Chemistry, 2014, 54, 171-183.	2.3	25
36	Measurement of proton chemical shift anisotropy in solid-state NMR spectroscopy. Solid State Nuclear Magnetic Resonance, 2018, 93, 16-28.	2.3	25

#	Article	IF	Citations
37	Magic angle spinning NMR of viruses. Progress in Nuclear Magnetic Resonance Spectroscopy, 2015, 86-87, 21-40.	7.5	23
38	Combined zero-quantum and spin-diffusion mixing for efficient homonuclear correlation spectroscopy under fast MAS: broadband recoupling and detection of long-range correlations. Journal of Biomolecular NMR, 2015, 61, 7-20.	2.8	23
39	Solid-State NMR Dipolar and Chemical Shift Anisotropy Recoupling Techniques for Structural and Dynamical Studies in Biological Systems. Chemical Reviews, 2022, 122, 9880-9942.	47.7	23
40	Revisiting of Tetragonal NaVPO₄F: A High Energy Density Cathode for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 30510-30519.	8.0	22
41	Oxygenate-based routes regulate syngas conversion over oxideâ€“zeolite bifunctional catalysts. Nature Catalysis, 2022, 5, 594-604.	34.4	22
42	Breaking the T1 Constraint for Quantitative Measurement in Magic Angle Spinning Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2010, 132, 5538-5539.	13.7	20
43	Three-Dimensional Structure of CAP-Gly Domain of Mammalian Dynactin Determined by Magic Angle Spinning NMR Spectroscopy: Conformational Plasticity and Interactions with End-Binding Protein EB1. Journal of Molecular Biology, 2013, 425, 4249-4266.	4.2	20
44	Analysis of local molecular motions of aromatic sidechains in proteins by 2D and 3D fast MAS NMR spectroscopy and quantum mechanical calculations. Physical Chemistry Chemical Physics, 2015, 17, 28789-28801.	2.8	19
45	Towards uniform enhancement in solid-state cross polarization magnetic angle spinning NMR: A scheme incorporating cross polarization with rotational resonance. Journal of Chemical Physics, 2006, 124, 234512.	3.0	17
46	Effect of ancillary ligand on electronic structure as probed by 51V solid-state NMR spectroscopy for vanadiumâ€“o-dioxolene complexes. CrystEngComm, 2013, 15, 8776.	2.6	17
47	Highly selective methanol-to-olefin reaction on pyridine modified H-mordenite. Journal of Energy Chemistry, 2017, 26, 354-358.	12.9	17
48	Acidity and Local Confinement Effect in Mordenite Probed by Solid-State NMR Spectroscopy. Journal of Physical Chemistry Letters, 2021, 12, 2413-2422.	4.6	17
49	Recent progress in dipolar recoupling techniques under fast MAS in solid-state NMR spectroscopy. Solid State Nuclear Magnetic Resonance, 2021, 112, 101711.	2.3	17
50	The Role of Organic and Inorganic Structure-Directing Agents in Selective Al Substitution of Zeolite. Journal of Physical Chemistry Letters, 2021, 12, 9398-9406.	4.6	16
51	NMR Crystallography for Structural Characterization of Oxovanadium(V) Complexes: Deriving Coordination Geometry and Detecting Weakly Coordinated Ligands at Atomic Resolution in the Solid State. Inorganic Chemistry, 2015, 54, 1363-1374.	4.0	15
52	The effect of the position of cross-linkers on the structure and microenvironment of PPh₃ moiety in porous organic polymers. Journal of Materials Chemistry A, 2021, 9, 9165-9174.	10.3	15
53	MAS NMR of HIV-1 protein assemblies. Journal of Magnetic Resonance, 2015, 253, 10-22.	2.1	13
54	A mechanistic study of syngas conversion to light olefins over OXZEO bifunctional catalysts: insights into the initial carbonâ€“carbon bond formation on the oxide. Catalysis Science and Technology, 2022, 12, 1289-1295.	4.1	13

#	Article	IF	Citations
55	Nerve network-inspired solid polymer electrolytes (NN-SPE) for fast and single-ion lithium conduction. Energy Storage Materials, 2022, 49, 575-582.	18.0	13
56	Fast magic angle spinning NMR with heteronucleus detection for resonance assignments and structural characterization of fully protonated proteins. Journal of Biomolecular NMR, 2014, 60, 219-229.	2.8	12
57	Mapping proteinâ€“protein interactions by double-REDOR-filtered magic angle spinning NMR spectroscopy. Journal of Biomolecular NMR, 2017, 67, 95-108.	2.8	12
58	Accurate heteronuclear distance measurements at all magic-angle spinning frequencies in solid-state NMR spectroscopy. Chemical Science, 2021, 12, 11554-11564.	7.4	12
59	Internal Dynamics of Dynactin CAP-Gly Is Regulated by Microtubules and Plus End Tracking Protein EB1. Journal of Biological Chemistry, 2015, 290, 1607-1622.	3.4	11
60	Redox Activity in a Vanadium(V)â€“oâ€Dioxolene Complex Is Modulated by Protonation State As Indicated by ⁵¹V Solidâ€State NMR Spectroscopy and Density Functional Theory. European Journal of Inorganic Chemistry, 2012, 2012, 4644-4651.	2.0	9
61	Toward Closing the Gap: Quantum Mechanical Calculations and Experimentally Measured Chemical Shifts of a Microcrystalline Lectin. Journal of Physical Chemistry B, 2017, 121, 3574-3585.	2.6	9
62	Determination of accurate backbone chemical shift tensors in microcrystalline proteins by integrating MAS NMR and QM/MM. Physical Chemistry Chemical Physics, 2018, 20, 9543-9553.	2.8	9
63	Insights into the Site-Selective Adsorption of Methanol and Water in Mordenite Zeolite by ¹²⁹Xe NMR Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 17368-17374.	3.1	9
64	DNP NMR reveals the hidden surface Câ€“C bond growth mechanism over ZnAlO during syngas conversion. Journal of Energy Chemistry, 2022, 67, 640-644.	12.9	7
65	â€œX Factorâ€•in the Structure and Anion Exchange of Layered Yttrium Hydroxides. Journal of Physical Chemistry C, 2021, 125, 7251-7258.	3.1	6
66	Quantitatively Mapping the Distribution of Intrinsic Acid Sites in Mordenite Zeolite by High-Field ²³Na Solid-State Nuclear Magnetic Resonance. Journal of Physical Chemistry Letters, 2022, 13, 5186-5194.	4.6	6
67	Magic Angle Spinning NMR Studies of Protein Assemblies: Recent Advances in Methodology and Applications. Annual Reports on NMR Spectroscopy, 2013, , 293-357.	1.5	4
68	89Y chemical shift anisotropy: a sensitive structural probe of layered yttrium hydroxides revealed by solid-state NMR spectroscopy and DFT calculations. Physical Chemistry Chemical Physics, 2021, 23, 27244-27252.	2.8	3
69	77Se-13C based dipolar correlation experiments to map selenium sites in microcrystalline proteins. Journal of Biomolecular NMR, 2022, 76, 29.	2.8	0