Kaustubh R Mote

List of Publications by Year
in descending order

36	802	471509 17	526287 27
papers	citations	h-index	g-index

39	39	39	1011
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Allosteric regulation of SERCA by phosphorylation-mediated conformational shift of phospholamban. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17338-17343.	7.1	112
2	Cell-Membrane-Mimicking Lipid-Coated Nanoparticles Confer Raman Enhancement to Membrane Proteins and Reveal Membrane-Attached Amyloid-Î² Conformation. ACS Nano, 2015, 9, 9070-9077.	14.6	81
3	Five decades of homonuclear dipolar decoupling in solid-state NMR: Status and outlook. Progress in Nuclear Magnetic Resonance Spectroscopy, 2016, 97, 1-39.	7.5	55
4	Structural Dynamics and Topology of Phosphorylated Phospholamban Homopentamer Reveal Its Role in the Regulation of Calcium Transport. Structure, 2013, 21, 2119-2130.	3.3	41
5	Multidimensional oriented solid-state NMR experiments enable the sequential assignment of uniformly 15N labeled integral membrane proteins in magnetically aligned lipid bilayers. Journal of Biomolecular NMR, 2011, 51, 339-346.	2.8	36
6	Determination of structural topology of a membrane protein in lipid bilayers using polarization optimized experiments (POE) for static and MAS solid state NMR spectroscopy. Journal of Biomolecular NMR, 2013, 57, 91-102.	2.8	32
7	Major Reaction Coordinates Linking Transient Amyloid-Î² Oligomers to Fibrils Measured at Atomic Level. Biophysical Journal, 2017, 113, 805-816.	0.5	32
8	Solid-State NMR: Methods for Biological Solids. Chemical Reviews, 2022, 122, 9643-9737.	47.7	31
9	Simultaneous acquisition of 2D and 3D solid-state NMR experiments for sequential assignment of oriented membrane protein samples. Journal of Biomolecular NMR, 2015, 62, 53-61.	2.8	28
10	Reactivity enhancement of a diphosphene by reversible N-heterocyclic carbene coordination. Chemical Science, 2018, 9, 4235-4243.	7.4	26
11	Sensitivity and resolution enhancement of oriented solid-state NMR: Application to membrane proteins. Progress in Nuclear Magnetic Resonance Spectroscopy, 2013, 75, 50-68.	7.5	25
12	SBAâ€15â€Oxynitrides as a Solidâ€Base Catalyst: Effect of Nitridation Temperature on Catalytic Activity. Angewandte Chemie - International Edition, 2015, 54, 5985-5989.	13.8	25
13	A suite of pulse sequences based on multiple sequential acquisitions at one and two radiofrequency channels for solid-state magic-angle spinning NMR studies of proteins. Journal of Biomolecular NMR, 2016, 65, 127-141.	2.8	25
14	Sensitivity Enhanced Heteronuclear Correlation Spectroscopy in Multidimensional Solid-State NMR of Oriented Systems via Chemical Shift Coherences. Journal of the American Chemical Society, 2010, 132, 5357-5363.	13.7	23
15	Multiplexing experiments in NMR and multi-nuclear MRI. Progress in Nuclear Magnetic Resonance Spectroscopy, 2021, 124-125, 1-56.	7.5	22
16	Simultaneous recording of intra- and inter-residue linking experiments for backbone assignments in proteins at MAS frequencies higher than 60ÂkHz. Journal of Biomolecular NMR, 2020, 74, 229-237.	2.8	21
17	Structural Dynamics and Conformational Equilibria of SERCA Regulatory Proteins in Membranes by Solid-State NMR Restrained Simulations. Biophysical Journal, 2014, 106, 2566-2576.	0.5	20
18	Activation of Aromatic Câ^'F Bonds by a Nâ€Heterocyclic Olefin (NHO). Chemistry - A European Journal, 2020, 26, 5951-5955.	3.3	18

#	Article	IF	Citations
19	Experiments with direct detection of multiple FIDs. Journal of Magnetic Resonance, 2019, 304, 16-34.	2.1	16
20	Perturbation of the F19-L34 Contact in Amyloid Î² (1-40) Fibrils Induces Only Local Structural Changes but Abolishes Cytotoxicity. Journal of Physical Chemistry Letters, 2017, 8, 4740-4745.	4.6	14
21	Measuring strong one-bond dipolar couplings using REDOR in magic-angle spinning solid-state NMR. Journal of Chemical Physics, 2019, 150, 134201.	3.0	14
22	Proton evolved local field solid-state nuclear magnetic resonance using Hadamard encoding: Theory and application to membrane proteins. Journal of Chemical Physics, 2011, 135, 074503.	3.0	13
23	NMR Crystallography at Fast Magic-Angle Spinning Frequencies: Application of Novel Recoupling Methods. Crystals, 2019, 9, 231.	2.2	13
24	13Câ€¯â†'â€¯1H transfer of light-induced hyperpolarization allows for selective detection of protons in frozen photosynthetic reaction center. Journal of Magnetic Resonance, 2018, 293, 82-91.	2.1	11
25	Proton-detected solid-state NMR spectroscopy of fully protonated proteins at slow to moderate magic-angle spinning frequencies. Journal of Magnetic Resonance, 2015, 261, 149-156.	2.1	9
26	Positron annihilation and nuclear magnetic resonance study of the phase behavior of water confined in mesopores at different levels of hydration. Physical Chemistry Chemical Physics, 2016, 18, 12886-12895.	2.8	9
27	On the direct relation between REDOR and DIPSHIFT experiments in solid-state NMR. Journal of Magnetic Resonance, 2019, 308, 106563.	2.1	9
28	Structural basis for sarcolipinâ€™s regulation of muscle thermogenesis by the sarcoplasmic reticulum Ca ²⁺ -ATPase. Science Advances, 2021, 7, eabi7154.	10.3	9
29	Overcoming Prohibitively Large Radiofrequency Demands for the Measurement of Internuclear Distances with Solid-State NMR under Fast Magic-Angle Spinning. Journal of Physical Chemistry B, 2020, 124, 1444-1451.	2.6	7
30	Photoactive Anthraquinone-Based Hostâ€“Guest Assembly for Long-Lived Charge Separation. Journal of Physical Chemistry C, 2021, 125, 10891-10900.	3.1	6
31	A comparison between MBP- and NT* as N-terminal fusion partner for recombinant protein production in E. coli. Protein Expression and Purification, 2022, 189, 105991.	1.3	5
32	CURD: a Single-Shot Strategy to Obtain Assignments and Distance Restraints for Proteins Using Solid-State MAS NMR Spectroscopy. Journal of Physical Chemistry B, 2022, 126, 3269-3275.	2.6	4
33	Sine-squared shifted pulses for recoupling interactions in solid-state NMR. Journal of Chemical Physics, 2017, 146, 244201.	3.0	3
34	Probing the Influence of Single-Site Mutations in the Central Cross-Î² Region of Amyloid Î² (1â€“40) Peptides. Biomolecules, 2021, 11, 1848.	4.0	3
35	Mechanism of selective polarization exchange amongst chemically similar and distinct protons during weak rf irradiation at fast magic angle spinning. Journal of Magnetic Resonance, 2022, , 107236.	2.1	3
36	Simultaneous homonuclear and heteronuclear spin decoupling in magic-angle spinning solid-state NMR. Solid State Nuclear Magnetic Resonance, 2018, 90, 7-12.	2.3	1