Ayyalusamy Ramamoorthy

List of Publications by Year
in descending order

355 papers	25,282 citations	5268 83 h-index	10158 140 g-index
428 all docs	428 docs citations	428 times ranked	20517 citing authors

#	Article	IF	Citations
1	Molecular Music: A Modern Accompaniment to NMR Pedagogy. Journal of Chemical Education, 2022, 99, 810-818.	2.3	1
2	Conformational Tuning of Amylin by Charged Styrene-Maleic-Acid Copolymers. Journal of Molecular Biology, 2022, 434, 167385.	4.2	6
3	Detergent-free isolation of CYP450-reductase's FMN-binding domain in E. coli lipid-nanodiscs using a charge-free polymer. Chemical Communications, 2022, , .	4.1	8
4	Saponins Form Nonionic Lipid Nanodiscs for Protein Structural Studies by Nuclear Magnetic Resonance Spectroscopy. Journal of Physical Chemistry Letters, 2022, 13, 1705-1712.	4.6	11
5	Measurement of Residual Dipolar Couplings Using Magnetically Aligned and Flipped Nanodiscs. Langmuir, 2022, 38, 244-252.	3.5	7
6	Biophysical processes underlying cross-seeding in amyloid aggregation and implications in amyloid pathology. Biophysical Chemistry, 2021, 269, 106507.	2.8	101
7	Nanodisc reconstitution of flavin mononucleotide binding domain of cytochrome-P450-reductase enables high-resolution NMR probing. Chemical Communications, 2021, 57, 4819-4822.	4.1	5
8	Proteostasis of Islet Amyloid Polypeptide: A Molecular Perspective of Risk Factors and Protective Strategies for Type II Diabetes. Chemical Reviews, 2021, 121, 1845-1893.	47.7	129
9	Amyloid Oligomers: A Joint Experimental/Computational Perspective on Alzheimerâ€™s Disease, Parkinsonâ€™s Disease, Type II Diabetes, and Amyotrophic Lateral Sclerosis. Chemical Reviews, 2021, 121, 2545-2647.	47.7	406
10	Benchmarks of SMA-Copolymer Derivatives and Nanodisc Integrity. Langmuir, 2021, 37, 3113-3121.	3.5	11
11	Solid-state packing dictates the unexpected solubility of aromatic peptides. Cell Reports Physical Science, 2021, 2, 100391.	5.6	10
12	Solid-State NMR Study to Probe the Effects of Divalent Metal Ions (Ca²⁺ and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td 7780-7788.	3.5	4
13	Synthesis, Characterization, and Nanodisc Formation of Nonâ€ionic Polymers**. Angewandte Chemie - International Edition, 2021, 60, 16885-16888.	13.8	29
14	Synthesis, Characterization, and Nanodisc Formation of Nonâ€ionic Polymers**. Angewandte Chemie, 2021, 133, 17022-17025.	2.0	5
15	Degradation of Alzheimerâ€™s Amyloid-Î² by a Catalytically Inactive Insulin-Degrading Enzyme. Journal of Molecular Biology, 2021, 433, 166993.	4.2	27
16	Investigation of the effects of two major secretory granules components, insulin and zinc, on human-IAPP amyloid aggregation and membrane damage. Chemistry and Physics of Lipids, 2021, 237, 105083.	3.2	24
17	Lipids on the pathomechanisms of amyloid diseases. Chemistry and Physics of Lipids, 2021, 239, 105122.	3.2	0
18	Aggregation and the Intrinsic Structural Disorder of Dipeptide Repeat Peptides of C9orf72-Related Amyotrophic Lateral Sclerosis and Frontotemporal Dementia Characterized by NMR. Journal of Physical Chemistry B, 2021, 125, 12446-12456.	2.6	2

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19	Structural Interaction of Apolipoprotein A-I Mimetic Peptide with Amyloid-Î² Generates Toxic Hetero-oligomers. Journal of Molecular Biology, 2020, 432, 1020-1034.	4.2	25
20	Lipid-Chaperone Hypothesis: A Common Molecular Mechanism of Membrane Disruption by Intrinsically Disordered Proteins. ACS Chemical Neuroscience, 2020, 11, 4336-4350.	3.5	101
21	Natural-abundance ¹⁷O NMR spectroscopy of magnetically aligned lipid nanodiscs. Chemical Communications, 2020, 56, 9998-10001.	4.1	10
22	Small molecule induced toxic human-IAPP species characterized by NMR. Chemical Communications, 2020, 56, 13129-13132.	4.1	21
23	High-Throughput Screening at the Membrane Interface Reveals Inhibitors of Amyloid-Î². Biochemistry, 2020, 59, 2249-2258.	2.5	40
24	Detergent-free extraction, reconstitution and characterization of membrane-anchored cytochrome-b5 in native lipids. Chemical Communications, 2020, 56, 6511-6514.	4.1	26
25	Lipid-nanodiscs formed by paramagnetic metal chelated polymer for fast NMR data acquisition. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183332.	2.6	9
26	High-Speed Atomic Force Microscopy Reveals the Structural Dynamics of the Amyloid-Î² and Amylin Aggregation Pathways. International Journal of Molecular Sciences, 2020, 21, 4287.	4.1	27
27	High-resolution proton-detected MAS experiments on self-assembled diphenylalanine nanotubes enabled by fast MAS and high magnetic field. Journal of Magnetic Resonance, 2020, 313, 106717.	2.1	11
28	Symmetry-breaking transitions in the early steps of protein self-assembly. European Biophysics Journal, 2020, 49, 175-191.	2.2	28
29	Amylin and beta amyloid proteins interact to form amorphous heterocomplexes with enhanced toxicity in neuronal cells. Scientific Reports, 2020, 10, 10356.	3.3	44
30	Magnetic Alignment of Polymer Nanodiscs Probed by Solid-State NMR Spectroscopy. Langmuir, 2020, 36, 1258-1265.	3.5	21
31	Unusual Twoâ€Step Assembly of a Minimalistic Dipeptideâ€Based Functional Hypergelator. Advanced Materials, 2020, 32, e1906043.	21.0	73
32	Expression, purification, and functional reconstitution of 19F-labeled cytochrome b5 in peptide nanodiscs for NMR studies. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183194.	2.6	13
33	High-resolution probing of early events in amyloid-Î² aggregation related to Alzheimer's disease. Chemical Communications, 2020, 56, 4627-4639.	4.1	71
34	Diverse Structural Conversion and Aggregation Pathways of AlzheimerÊ¼s Amyloid-Î² (1â€“40). ACS Nano, 2019, 13, 8766-8783.	14.6	33
35	Magnetic Alignment of Polymer Macroâ€Nanodiscs Enables Residualâ€Dipolarâ€Couplingâ€Based Highâ€Resolution Structural Studies by NMR Spectroscopy. Angewandte Chemie, 2019, 131, 15067-15070.	2.0	7
36	Use of paramagnetic systems to speed-up NMR data acquisition and for structural and dynamic studies. Solid State Nuclear Magnetic Resonance, 2019, 102, 36-46.	2.3	20

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37	Magnetic Alignment of Polymer Macroâ€Nanodiscs Enables Residualâ€Dipolarâ€Couplingâ€Based Highâ€Resolution Structural Studies by NMR Spectroscopy. Angewandte Chemie - International Edition, 2019, 58, 14925-14928.	13.8	27
38	Exploiting heterogeneous time scale of dynamics to enhance 2D HETCOR solid-state NMR sensitivity. Journal of Magnetic Resonance, 2019, 309, 106615.	2.1	15
39	Berichtigung: Bioinspired, Sizeâ€Tunable Selfâ€Assembly of Polymerâ€”Lipid Bilayer Nanodiscs. Angewandte Chemie, 2019, 131, 13318-13318.	2.0	2
40	Metalâ€Chelated Polymer Nanodiscs for NMR Studies. Angewandte Chemie, 2019, 131, 17406-17410.	2.0	2
41	Metalâ€Chelated Polymer Nanodiscs for NMR Studies. Angewandte Chemie - International Edition, 2019, 58, 17246-17250.	13.8	16
42	Berichtigung: Formation of pHâ€Resistant Monodispersed Polymerâ€”Lipid Bilayer Nanodiscs. Angewandte Chemie, 2019, 131, 13319-13319.	2.0	2
43	Polymer nanodiscs: Advantages and limitations. Chemistry and Physics of Lipids, 2019, 219, 45-49.	3.2	77
44	Hydrophobic Functionalization of Polyacrylic Acid as a Versatile Platform for the Development of Polymer Lipid Nanodisks. Small, 2019, 15, e1804813.	10.0	43
45	NMR-Based Metabolomic Profiling of Urine: Evaluation for Application in Prostate Cancer Detection. Natural Product Communications, 2019, 14, 1934578X1984997.	0.5	7
46	Self-Assembly of Polymer-Encased Lipid Nanodiscs and Membrane Protein Reconstitution. Journal of Physical Chemistry B, 2019, 123, 4562-4570.	2.6	22
47	Probing membrane enhanced proteinâ€“protein interactions in a minimal redox complex of cytochrome-P450 and P450-reductase. Chemical Communications, 2019, 55, 5777-5780.	4.1	15
48	Probing transient non-native states in amyloid beta fiber elongation by NMR. Chemical Communications, 2019, 55, 4483-4486.	4.1	46
49	A cationic polymethacrylate-copolymer acts as an agonist for Î²-amyloid and an antagonist for amylin fibrillation. Chemical Science, 2019, 10, 3976-3986.	7.4	52
50	Probing proteinâ€“protein and proteinâ€“substrate interactions in the dynamic membrane-associated ternary complex of cytochromes P450, b₅, and reductase. Chemical Communications, 2019, 55, 13422-13425.	4.1	17
51	Proton-detected 3D 1H anisotropic/14N/1H isotropic chemical shifts correlation NMR under fast magic angle spinning on solid samples withoutÂisotopic enrichment. Solid State Nuclear Magnetic Resonance, 2019, 97, 40-45.	2.3	9
52	Zinc boosts EGCG's hIAPP amyloid Inhibition both in solution and membrane. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2019, 1867, 529-536.	2.3	32
53	Semenâ€derived amyloidogenic peptidesâ€”Key players of HIV infection. Protein Science, 2018, 27, 1151-1165.	7.6	15
54	Cytochromeâ€P450â€Induced Ordering of Microsomal Membranes Modulates Affinity for Drugs. Angewandte Chemie, 2018, 130, 3449-3453.	2.0	5

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55	Cytochromeâ€P450â€Induced Ordering of Microsomal Membranes Modulates Affinity for Drugs. Angewandte Chemie - International Edition, 2018, 57, 3391-3395.	13.8	44
56	Real-time monitoring of the aggregation of Alzheimer's amyloid-Î² via¹H magic angle spinning NMR spectroscopy. Chemical Communications, 2018, 54, 2000-2003.	4.1	28
57	Unusual multiscale mechanics of biomimetic nanoparticle hydrogels. Nature Communications, 2018, 9, 181.	12.8	28
58	A Minimal Functional Complex of Cytochrome P450 and FBD of Cytochrome P450 Reductase in Nanodiscs. Angewandte Chemie - International Edition, 2018, 57, 8458-8462.	13.8	36
59	Impact of membrane curvature on amyloid aggregation. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1741-1764.	2.6	88
60	Real-Time Monitoring of Lipid Exchange via Fusion of Peptide Based Lipid-Nanodiscs. Chemistry of Materials, 2018, 30, 3204-3207.	6.7	23
61	Engineering <scp>l</scp>-asparaginase for spontaneous formation of calcium phosphate bioinspired microreactors. Physical Chemistry Chemical Physics, 2018, 20, 12719-12726.	2.8	9
62	hIAPP forms toxic oligomers in plasma. Chemical Communications, 2018, 54, 5426-5429.	4.1	28
63	A blend of two resveratrol derivatives abolishes hIAPP amyloid growth and membrane damage. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1793-1802.	2.6	36
64	Dynamic membrane interactions of antibacterial and antifungal biomolecules, and amyloid peptides, revealed by solid-state NMR spectroscopy. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 307-323.	2.4	37
65	Formation of pHâ€Resistant Monodispersed Polymerâ€“Lipid Nanodiscs. Angewandte Chemie - International Edition, 2018, 57, 1342-1345.	13.8	106
66	Formation of pHâ€Resistant Monodispersed Polymerâ€“Lipid Nanodiscs. Angewandte Chemie, 2018, 130, 1356-1359.	2.0	7
67	Alzheimer's amyloid-beta intermediates generated using polymer-nanodiscs. Chemical Communications, 2018, 54, 12883-12886.	4.1	69
68	Cytochrome P450 Prefers to be in Liquid-Ordered Domains in the Endoplasmic Reticulum. Biophysical Journal, 2018, 114, 71a.	0.5	0
69	Styrene maleic acid derivates to enhance the applications of bio-inspired polymer based lipid-nanodiscs. European Polymer Journal, 2018, 108, 597-602.	5.4	22
70	Nanodisc-Forming Scaffold Protein Promoted Retardation of Amyloid-Beta Aggregation. Journal of Molecular Biology, 2018, 430, 4230-4244.	4.2	49
71	The Influence of Chemical Modification on Linker Rotational Dynamics in Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2018, 57, 8678-8681.	13.8	33
72	The Influence of Chemical Modification on Linker Rotational Dynamics in Metalâ€“Organic Frameworks. Angewandte Chemie, 2018, 130, 8814-8817.	2.0	11

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73	Lipid-exchange in nanodiscs discloses membrane boundaries of cytochrome-P450 reductase. Chemical Communications, 2018, 54, 6336-6339.	4.1	15
74	High-Resolution Proton NMR Spectroscopy of Polymers and Biological Solids. , 2018, , 521-536.		2
75	Effect of polymer charge on functional reconstitution of membrane proteins in polymer nanodiscs. Chemical Communications, 2018, 54, 9615-9618.	4.1	52
76	Picturing the Membraneâ€assisted Choreography of Cytochrome P450 with Lipid Nanodiscs. ChemPhysChem, 2018, 19, 2603-2613.	2.1	28
77	Substrate mediated redox partner selectivity of cytochrome P450. Chemical Communications, 2018, 54, 5780-5783.	4.1	11
78	Preparation of Stable Amyloid-Î² Oligomers Without Perturbative Methods. Methods in Molecular Biology, 2018, 1777, 331-338.	0.9	6
79	A Minimal Functional Complex of Cytochrome P450 and FBD of Cytochrome P450 Reductase in Nanodiscs. Angewandte Chemie, 2018, 130, 8594-8598.	2.0	6
80	Reduced Lipid Bilayer Thickness Regulates the Aggregation and Cytotoxicity of Amyloid-Î². Journal of Biological Chemistry, 2017, 292, 4638-4650.	3.4	145
81	Conformations and Intermolecular Interactions in Cellulose/Silk Fibroin Blend Films: A Solid-State NMR Perspective. Journal of Physical Chemistry B, 2017, 121, 6108-6116.	2.6	47
82	3D Double-Quantum/Double-Quantum Exchange Spectroscopy of Protons under 100 kHz Magic Angle Spinning. Journal of Physical Chemistry B, 2017, 121, 5944-5952.	2.6	16
83	Model membrane size-dependent amyloidogenesis of Alzheimer's amyloid-Î² peptides. Physical Chemistry Chemical Physics, 2017, 19, 16257-16266.	2.8	42
84	Proton-Based Ultrafast Magic Angle Spinning Solid-State NMR Spectroscopy. Accounts of Chemical Research, 2017, 50, 1105-1113.	15.6	111
85	Structural and Mechanistic Insights into Development of Chemical Tools to Control Individual and Interâ€Related Pathological Features in Alzheimer's Disease. Chemistry - A European Journal, 2017, 23, 2706-2715.	3.3	25
86	Electrostatic Constraints Assessed by ¹H MAS NMR Illuminate Differences in Crystalline Polymorphs. Journal of Physical Chemistry Letters, 2017, 8, 4253-4257.	4.6	15
87	pH Tunable and Divalent Metal Ion Tolerant Polymer Lipid Nanodiscs. Langmuir, 2017, 33, 10655-10662.	3.5	75
88	Kinetic and Structural Characterization of the Effects of Membrane on the Complex of Cytochrome b 5 and Cytochrome c. Scientific Reports, 2017, 7, 7793.	3.3	15
89	Bioinspired, Sizeâ€Tunable Selfâ€Assembly of Polymerâ€“Lipid Bilayer Nanodiscs. Angewandte Chemie, 2017, 129, 11624-11628.	2.0	25
90	Bioinspired, Sizeâ€Tunable Selfâ€Assembly of Polymerâ€“Lipid Bilayer Nanodiscs. Angewandte Chemie - International Edition, 2017, 56, 11466-11470.	13.8	120

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91	Growth-incompetent monomers of human calcitonin lead to a noncanonical direct relationship between peptide concentration and aggregation lag time. Journal of Biological Chemistry, 2017, 292, 14963-14976.	3.4	16
92	Role of Anomalous Water Constraints in the Efficacy of Pharmaceuticals Probed by 1 H Solidâ€State NMR. ChemistrySelect, 2017, 2, 6797-6800.	1.5	12
93	Spontaneous Lipid Nanodisc Fomation by Amphiphilic Polymethacrylate Copolymers. Journal of the American Chemical Society, 2017, 139, 18657-18663.	13.7	101
94	Membrane environment drives cytochrome P450's spin transition and its interaction with cytochromeb₅. Chemical Communications, 2017, 53, 12798-12801.	4.1	40
95	Solid-State NMR Spectroscopy: The Magic Wand to View Bone at Nanoscopic Resolution. Annual Reports on NMR Spectroscopy, 2017, 92, 365-413.	1.5	17
96	Minor Structural Variations of Small Molecules Tune Regulatory Activities toward Pathological Factors in Alzheimer's Disease. ChemMedChem, 2017, 12, 1828-1838.	3.2	13
97	Transmembrane Interactions of Full-length Mammalian Bitopic Cytochrome-P450-Cytochrome-b5 Complex in Lipid Bilayers Revealed by Sensitivity-Enhanced Dynamic Nuclear Polarization Solid-state NMR Spectroscopy. Scientific Reports, 2017, 7, 4116.	3.3	32
98	Accelerated molecular dynamics simulation analysis of MSI-594 in a lipid bilayer. Physical Chemistry Chemical Physics, 2017, 19, 19289-19299.	2.8	46
99	Structural Biology of Calcitonin: From Aqueous Therapeutic Properties to Amyloid Aggregation. Israel Journal of Chemistry, 2017, 57, 634-650.	2.3	15
100	An Iridium(III) Complex as a Photoactivatable Tool for Oxidation of Amyloidogenic Peptides with Subsequent Modulation of Peptide Aggregation. Chemistry - A European Journal, 2017, 23, 1645-1653.	3.3	33
101	Stabilization and structural analysis of a membrane-associated hIAPP aggregation intermediate. ELife, 2017, 6, .	6.0	61
102	Multi-target-directed phenolâ€“triazole ligands as therapeutic agents for Alzheimer's disease. Chemical Science, 2017, 8, 5636-5643.	7.4	79
103	The catalytic function of cytochrome P450 is entwined with its membrane-bound nature. F1000Research, 2017, 6, 662.	1.6	51
104	High-Resolution Proton NMR Spectroscopy of Polymers and Biological Solids. , 2017, , 1-16.		0
105	Inhibition of IAPP Aggregation and Toxicity by Natural Products and Derivatives. Journal of Diabetes Research, 2016, 2016, 1-12.	2.3	109
106	The Role of Cholesterol in Driving IAPP-Membrane Interactions. Biophysical Journal, 2016, 111, 140-151.	0.5	74
107	Enhancing NMR Sensitivity of Naturalâ€Abundance Lowâ€Î³ Nuclei by Ultrafast Magicâ€Angleâ€Spinning Solidâ€State NMR Spectroscopy. ChemPhysChem, 2016, 17, 2962-2966.	2.1	30
108	Constant-time 2D and 3D through-bond correlation NMR spectroscopy of solids under 60 kHz MAS. Journal of Chemical Physics, 2016, 144, 034202.	3.0	11

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109	Proton-detected 3D 15N/1H/1H isotropic/anisotropic/isotropic chemical shift correlation solid-state NMR at 70kHz MAS. Solid State Nuclear Magnetic Resonance, 2016, 76-77, 1-6.	2.3	16
110	Multifunctional quinoline-triazole derivatives as potential modulators of amyloid-Î² peptide aggregation. Journal of Inorganic Biochemistry, 2016, 158, 131-138.	3.5	25
111	Hybridizing cross-polarization with NOE or refocused-INEPT enhances the sensitivity of MAS NMR spectroscopy. Journal of Magnetic Resonance, 2016, 266, 59-66.	2.1	33
112	Importance of the Dimethylamino Functionality on a Multifunctional Framework for Regulating Metals, Amyloid-Î², and Oxidative Stress in Alzheimerâ€™s Disease. Inorganic Chemistry, 2016, 55, 5000-5013.	4.0	19
113	Spontaneous structural transition and crystal formation in minimal supramolecular polymer model. Science Advances, 2016, 2, e1500827.	10.3	62
114	Mode of Action of a Designed Antimicrobial Peptide: High Potency against Cryptococcus neoformans. Biophysical Journal, 2016, 111, 1724-1737.	0.5	37
115	Selective detection and complete identification of triglycerides in cortical bone by high-resolution ¹H MAS NMR spectroscopy. Physical Chemistry Chemical Physics, 2016, 18, 18687-18691.	2.8	22
116	Reconstitution of the Cytb₅â€“CytP450 Complex in Nanodiscs for Structural Studies using NMR Spectroscopy. Angewandte Chemie, 2016, 128, 4573-4575.	2.0	13
117	Biophysical insights into the membrane interaction of the core amyloid-forming AÎ²₄₀fragment K16â€“K28 and its role in the pathogenesis of Alzheimer's disease. Physical Chemistry Chemical Physics, 2016, 18, 16890-16901.	2.8	16
118	Reconstitution of the Cytb5-CytP450 Complex in Nanodiscs for Structural Studies using NMR Spectroscopy. Angewandte Chemie - International Edition, 2016, 55, 4497-4499.	13.8	80
119	Effects of hydroxyl group variations on a flavonoid backbone toward modulation of metal-free and metal-induced amyloid-Î² aggregation. Inorganic Chemistry Frontiers, 2016, 3, 381-392.	6.0	28
120	Amyloid-Î² adopts a conserved, partially folded structure upon binding to zwitterionic lipid bilayers prior to amyloid formation. Chemical Communications, 2016, 52, 882-885.	4.1	66
121	Influence of a curcumin derivative on hIAPP aggregation in the absence and presence of lipid membranes. Chemical Communications, 2016, 52, 942-945.	4.1	63
122	Proton chemical shift tensors determined by 3D ultrafast MAS double-quantum NMR spectroscopy. Journal of Chemical Physics, 2015, 143, 144201.	3.0	28
123	Reactivity of Metal-Free and Metal-Associated Amyloid-Î² with Glycosylated Polyphenols and Their Esterified Derivatives. Scientific Reports, 2015, 5, 17842.	3.3	44
124	Proton-detected 3D 1H/13C/1H correlation experiment for structural analysis in rigid solids under ultrafast-MAS above 60 kHz. Journal of Chemical Physics, 2015, 143, 164201.	3.0	16
125	Effects of Membrane Mimetics on Cytochrome P450-Cytochrome b5 Interactions Characterized by NMR Spectroscopy. Journal of Biological Chemistry, 2015, 290, 12705-12718.	3.4	30
126	Insights into the Role of Substrates on the Interaction between Cytochrome b5 and Cytochrome P450 2B4 by NMR. Scientific Reports, 2015, 5, 8392.	3.3	24

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127	Probing the Sources of the Apparent Irreproducibility of Amyloid Formation: Drastic Changes in Kinetics and a Switch in Mechanism Due to Micellelike Oligomer Formation at Critical Concentrations of IAPP. Journal of Physical Chemistry B, 2015, 119, 2886-2896.	2.6	85
128	Phase cycling schemes for finite-pulse-RFDR MAS solid state NMR experiments. Journal of Magnetic Resonance, 2015, 252, 55-66.	2.1	43
129	Temperature-Resistant Bicelles for Structural Studies by Solid-State NMR Spectroscopy. Langmuir, 2015, 31, 1496-1504.	3.5	16
130	Investigating Albendazole Desmotropes by Solid-State NMR Spectroscopy. Molecular Pharmaceutics, 2015, 12, 731-741.	4.6	42
131	Membrane interaction of antimicrobial peptides using E. coli lipid extract as model bacterial cell membranes and SFG spectroscopy. Chemistry and Physics of Lipids, 2015, 187, 20-33.	3.2	28
132	Bioanalytical methods for metabolomic profiling: Detection of head and neck cancer, including oral cancer. Chinese Chemical Letters, 2015, 26, 407-415.	9.0	24
133	Antimicrobial Peptides: Insights into Membrane Permeabilization, Lipopolysaccharide Fragmentation and Application in Plant Disease Control. Scientific Reports, 2015, 5, 11951.	3.3	70
134	Proton-Detected Solid-State NMR Spectroscopy of Bone with Ultrafast Magic Angle Spinning. Scientific Reports, 2015, 5, 11991.	3.3	81
135	A Novel High-Resolution and Sensitivity-Enhanced Three-Dimensional Solid-State NMR Experiment Under Ultrafast Magic Angle Spinning Conditions. Scientific Reports, 2015, 5, 11810.	3.3	44
136	High-resolution NMR characterization of low abundance oligomers of amyloid-Î² without purification. Scientific Reports, 2015, 5, 11811.	3.3	101
137	Self-Assembly of a Nine-Residue Amyloid-Forming Peptide Fragment of SARS Corona Virus E-Protein: Mechanism of Self Aggregation and Amyloid-Inhibition of hIAPP. Biochemistry, 2015, 54, 2249-2261.	2.5	50
138	Detergent-Type Membrane Fragmentation by MSI-78, MSI-367, MSI-594, and MSI-843 Antimicrobial Peptides and Inhibition by Cholesterol: A Solid-State Nuclear Magnetic Resonance Study. Biochemistry, 2015, 54, 1897-1907.	2.5	55
139	1020 MHz single-channel proton fast magic angle spinning solid-state NMR spectroscopy. Journal of Magnetic Resonance, 2015, 261, 1-5.	2.1	38
140	Dynamics-based selective 2D 1H/1H chemical shift correlation spectroscopy under ultrafast MAS conditions. Journal of Chemical Physics, 2015, 142, 204201.	3.0	16
141	Selective excitation enables assignment of proton resonances and 1H-1H distance measurement in ultrafast magic angle spinning solid state NMR spectroscopy. Journal of Chemical Physics, 2015, 143, 034201.	3.0	21
142	A Redox-Active, Compact Molecule for Cross-Linking Amyloidogenic Peptides into Nontoxic, Off-Pathway Aggregates: In Vitro and In Vivo Efficacy and Molecular Mechanisms. Journal of the American Chemical Society, 2015, 137, 14785-14797.	13.7	65
143	Kinetic and Structural Characterization of the Interaction between the FMN Binding Domain of Cytochrome P450 Reductase and Cytochrome c. Journal of Biological Chemistry, 2015, 290, 4843-4855.	3.4	20
144	A cross-polarization based rotating-frame separated-local-field NMR experiment under ultrafast MAS conditions. Journal of Magnetic Resonance, 2015, 250, 37-44.	2.1	32

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145	Composite-180Â° pulse-based symmetry sequences to recouple proton chemical shift anisotropy tensors under ultrafast MAS solid-state NMR spectroscopy. Journal of Magnetic Resonance, 2015, 250, 45-54.	2.1	53
146	Membrane disruptive antimicrobial activities of human Î²-defensin-3 analogs. European Journal of Medicinal Chemistry, 2015, 91, 91-99.	5.5	44
147	Cellular solid-state NMR investigation of a membrane protein using dynamic nuclear polarization. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 342-349.	2.6	72
148	Nisin ZP, a Bacteriocin and Food Preservative, Inhibits Head and Neck Cancer Tumorigenesis and Prolongs Survival. PLoS ONE, 2015, 10, e0131008.	2.5	143
149	Modulation of raft domains in a lipid bilayer by boundary-active curcumin. Chemical Communications, 2014, 50, 3427.	4.1	44
150	1H, 13C and 15N resonance assignments for the full-length mammalian cytochrome b5 in a membrane environment. Biomolecular NMR Assignments, 2014, 8, 409-413.	0.8	6
151	Potent Î³-secretase inhibitors/modulators interact with amyloid-Î² fibrils but do not inhibit fibrillation: A high-resolution NMR study. Biochemical and Biophysical Research Communications, 2014, 447, 590-595.	2.1	17
152	Acceleration of natural-abundance solid-state MAS NMR measurements on bone by paramagnetic relaxation from gadolinium-DTPA. Journal of Magnetic Resonance, 2014, 244, 90-97.	2.1	21
153	A small molecule that displays marked reactivity toward copperâ€“ versus zincâ€“amyloid-Î² implicated in Alzheimer's disease. Chemical Communications, 2014, 50, 5301-5303.	4.1	49
154	Differences between amyloid-Î² aggregation in solution and on the membrane: insights into elucidation of the mechanistic details of Alzheimer's disease. Chemical Society Reviews, 2014, 43, 6692-6700.	38.1	341
155	Rational Design of a Structural Framework with Potential Use to Develop Chemical Reagents That Target and Modulate Multiple Facets of Alzheimerâ€™s Disease. Journal of the American Chemical Society, 2014, 136, 299-310.	13.7	166
156	Interaction and reactivity of synthetic aminoisoflavones with metal-free and metal-associated amyloid-Î². Chemical Science, 2014, 5, 4851-4862.	7.4	50
157	Non-selective ion channel activity of polymorphic human islet amyloid polypeptide (amylin) double channels. Physical Chemistry Chemical Physics, 2014, 16, 2368-2377.	2.8	36
158	Insights into Atomic-Level Interaction between Mefenamic Acid and Eudragit EPO in a Supersaturated Solution by High-Resolution Magic-Angle Spinning NMR Spectroscopy. Molecular Pharmaceutics, 2014, 11, 351-357.	4.6	48
159	Finite-pulse radio frequency driven recoupling with phase cycling for 2D 1H/1H correlation at ultrafast MAS frequencies. Journal of Magnetic Resonance, 2014, 243, 25-32.	2.1	53
160	Bicelles Exhibiting Magnetic Alignment for a Broader Range of Temperatures: A Solid-State NMR Study. Langmuir, 2014, 30, 1622-1629.	3.5	22
161	In Search of Aggregation Pathways of IAPP and Other Amyloidogenic Proteins: Finding Answers through NMR Spectroscopy. Journal of Physical Chemistry Letters, 2014, 5, 1864-1870.	4.6	77
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