

Cong Liu

List of Publications by Year in descending order

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88
papers

6,306
citations

81900

39
h-index

74163

75
g-index

105
all docs

105
docs citations

105
times ranked

7565
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic View of a Toxic Amyloid Small Oligomer. <i>Science</i> , 2012, 335, 1228-1231.	12.6	518
2	Amyloid fibril structure of β -synuclein determined by cryo-electron microscopy. <i>Cell Research</i> , 2018, 28, 897-903.	12.0	339
3	Selective Surface Enhanced Raman Scattering for Quantitative Detection of Lung Cancer Biomarkers in Superparticle@MOF Structure. <i>Advanced Materials</i> , 2018, 30, 1702275.	21.0	301
4	Toxic fibrillar oligomers of amyloid- β have cross- β structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 7717-7722.	7.1	286
5	Amyloid β -sheet mimics that antagonize protein aggregation and reduce amyloid toxicity. <i>Nature Chemistry</i> , 2012, 4, 927-933.	13.6	213
6	Atomic structures of FUS LC domain segments reveal bases for reversible amyloid fibril formation. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 341-346.	8.2	185
7	Out-of-register β -sheets suggest a pathway to toxic amyloid aggregates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20913-20918.	7.1	184
8	The structured core domain of β -crystallin can prevent amyloid fibrillation and associated toxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E1562-70.	7.1	181
9	PARylation regulates stress granule dynamics, phase separation, and neurotoxicity of disease-related RNA-binding proteins. <i>Cell Research</i> , 2019, 29, 233-247.	12.0	175
10	Liquid-liquid phase separation in biology: mechanisms, physiological functions and human diseases. <i>Science China Life Sciences</i> , 2020, 63, 953-985.	4.9	164
11	Structural basis for reversible amyloids of hnRNPA1 elucidates their role in stress granule assembly. <i>Nature Communications</i> , 2019, 10, 2006.	12.8	157
12	Understanding the Selective Detection of Fe ³⁺ Based on Graphene Quantum Dots as Fluorescent Probes: The β of a Metal Hydroxide-Assisted Mechanism. <i>Analytical Chemistry</i> , 2017, 89, 12054-12058.	6.5	143
13	Tunable assembly of amyloid-forming peptides into nanosheets as a retrovirus carrier. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2996-3001.	7.1	123
14	Phase Separation of Disease-Associated SHP2 Mutants Underlies MAPK Hyperactivation. <i>Cell</i> , 2020, 183, 490-502.e18.	28.9	123
15	Stress Induces Dynamic, Cytotoxicity-Antagonizing TDP-43 Nuclear Bodies via Paraspeckle LncRNA NEAT1-Mediated Liquid-Liquid Phase Separation. <i>Molecular Cell</i> , 2020, 79, 443-458.e7.	9.7	118
16	Hsp27 chaperones FUS phase separation under the modulation of stress-induced phosphorylation. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 363-372.	8.2	117
17	Macrocyclic β -Sheet Peptides That Inhibit the Aggregation of a Tau-Protein-Derived Hexapeptide. <i>Journal of the American Chemical Society</i> , 2011, 133, 3144-3157.	13.7	114
18	Parkinson's disease-related phosphorylation at Tyr39 rearranges β -synuclein amyloid fibril structure revealed by cryo-EM. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 20305-20315.	7.1	113

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19	Cryo-EM structure of an amyloid fibril formed by full-length human prion protein. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 598-602.	8.2	112
20	β 2-microglobulin forms three-dimensional domain-swapped amyloid fibrils with disulfide linkages. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 49-55.	8.2	105
21	Structure-Based Design of Functional Amyloid Materials. <i>Journal of the American Chemical Society</i> , 2014, 136, 18044-18051.	13.7	102
22	Cryo-EM structure of full-length β -synuclein amyloid fibril with Parkinson's disease familial A53T mutation. <i>Cell Research</i> , 2020, 30, 360-362.	12.0	94
23	Structure-based discovery of fiber-binding compounds that reduce the cytotoxicity of amyloid beta. <i>ELife</i> , 2013, 2, e00857.	6.0	94
24	Designed amyloid fibers as materials for selective carbon dioxide capture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 191-196.	7.1	93
25	General Strategy to Optimize Gas Evolution Reaction via Assembled Striped-Pattern Superlattices. <i>Journal of the American Chemical Society</i> , 2020, 142, 1857-1863.	13.7	93
26	Versatile Structures of β -Synuclein. <i>Frontiers in Molecular Neuroscience</i> , 2016, 9, 48.	2.9	92
27	Coordination mode engineering in stacked-nanosheet metal-organic frameworks to enhance catalytic reactivity and structural robustness. <i>Nature Communications</i> , 2019, 10, 2779.	12.8	89
28	Precise and Reversible Protein-Microtubule-Like Structure with Helicity Driven by Dual Supramolecular Interactions. <i>Journal of the American Chemical Society</i> , 2016, 138, 1932-1937.	13.7	85
29	Allosteric Inhibitors of SHP2 with Therapeutic Potential for Cancer Treatment. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 10205-10219.	6.4	85
30	Characteristics of Amyloid-Related Oligomers Revealed by Crystal Structures of Macrocyclic β -Sheet Mimics. <i>Journal of the American Chemical Society</i> , 2011, 133, 6736-6744.	13.7	84
31	Parkinson's disease associated mutation E46K of β -synuclein triggers the formation of a distinct fibril structure. <i>Nature Communications</i> , 2020, 11, 2643.	12.8	76
32	Structural Insights into A β 42 Oligomers Using Site-directed Spin Labeling. <i>Journal of Biological Chemistry</i> , 2013, 288, 18673-18683.	3.4	70
33	Hsp40 proteins phase separate to chaperone the assembly and maintenance of membraneless organelles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 31123-31133.	7.1	66
34	Hierarchical chemical determination of amyloid polymorphs in neurodegenerative disease. <i>Nature Chemical Biology</i> , 2021, 17, 237-245.	8.0	66
35	Exploiting mammalian low-complexity domains for liquid-liquid phase separation-driven underwater adhesive coatings. <i>Science Advances</i> , 2019, 5, eaax3155.	10.3	62
36	Antiparallel Triple-strand Architecture for Prefibrillar A β 42 Oligomers. <i>Journal of Biological Chemistry</i> , 2014, 289, 27300-27313.	3.4	60

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37	Mechanistic basis for receptor-mediated pathological α -synuclein fibril cell-to-cell transmission in Parkinson's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	59
38	A stable lead halide perovskite nanocrystals protected by PMMA. <i>Science China Materials</i> , 2018, 61, 363-370.	6.3	55
39	N-Terminal Acetylation Preserves α -Synuclein from Oligomerization by Blocking Intermolecular Hydrogen Bonds. <i>ACS Chemical Neuroscience</i> , 2017, 8, 2145-2151.	3.5	52
40	Liquid-liquid phase separation of RBGD2/4 is required for heat stress resistance in Arabidopsis. <i>Developmental Cell</i> , 2022, 57, 583-597.e6.	7.0	45
41	Conformational strains of pathogenic amyloid proteins in neurodegenerative diseases. <i>Nature Reviews Neuroscience</i> , 2022, 23, 523-534.	10.2	43
42	Diverse Supramolecular Nanofiber Networks Assembled by Functional Low-Complexity Domains. <i>ACS Nano</i> , 2017, 11, 6985-6995.	14.6	41
43	Mechanistic insights into the switch of α -crystallin chaperone activity and self-multimerization. <i>Journal of Biological Chemistry</i> , 2018, 293, 14880-14890.	3.4	41
44	Sc(OTf) ₃ -Catalyzed Transfer Diazenylation of 1,3-Dicarbonyls with Triazenes via N=N Bond Cleavage. <i>Organic Letters</i> , 2014, 16, 5458-5461.	4.6	37
45	Structural basis of the interplay between α -synuclein and Tau in regulating pathological amyloid aggregation. <i>Journal of Biological Chemistry</i> , 2020, 295, 7470-7480.	3.4	34
46	The nuclear localization sequence mediates hnRNPA1 amyloid fibril formation revealed by cryoEM structure. <i>Nature Communications</i> , 2020, 11, 6349.	12.8	33
47	The hereditary mutation G51D unlocks a distinct fibril strain transmissible to wild-type α -synuclein. <i>Nature Communications</i> , 2021, 12, 6252.	12.8	33
48	Ordered Superparticles with an Enhanced Photoelectric Effect by Sub-Nanometer Interparticle Distance. <i>Advanced Functional Materials</i> , 2017, 27, 1701982.	14.9	32
49	New insights of poly(ADP-ribosylation) in neurodegenerative diseases: A focus on protein phase separation and pathologic aggregation. <i>Biochemical Pharmacology</i> , 2019, 167, 58-63.	4.4	32
50	Structural Diversity of Amyloid Fibrils and Advances in Their Structure Determination. <i>Biochemistry</i> , 2020, 59, 639-646.	2.5	32
51	Different regions of synaptic vesicle membrane regulate VAMP2 conformation for the SNARE assembly. <i>Nature Communications</i> , 2020, 11, 1531.	12.8	30
52	Hsp70 chaperones TDP-43 in dynamic, liquid-like phase and prevents it from amyloid aggregation. <i>Cell Research</i> , 2021, 31, 1024-1027.	12.0	30
53	Heat shock protein 104 (HSP104) chaperones soluble Tau via a mechanism distinct from its disaggregase activity. <i>Journal of Biological Chemistry</i> , 2019, 294, 4956-4965.	3.4	28
54	Genetic prion disease-related mutation E196K displays a novel amyloid fibril structure revealed by cryo-EM. <i>Science Advances</i> , 2021, 7, eabg9676.	10.3	28

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55	The structure of a minimum amyloid fibril core formed by necroptosis-mediating RHIM of human RIPK3. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	27
56	Fibril Self-Assembly of Amyloid- β Spider Silk Block Polypeptides. Biomacromolecules, 2019, 20, 2015-2023.	5.4	24
57	Wild-type β -synuclein inherits the structure and exacerbated neuropathology of E46K mutant fibril strain by cross-seeding. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	24
58	Programming Conventional Electron Microscopes for Solving Ultrahigh-Resolution Structures of Small and Macro-Molecules. Analytical Chemistry, 2019, 91, 10996-11003.	6.5	23
59	Mechanical penetration of β -lactam- β resistant Gram-negative bacteria by programmable nanowires. Science Advances, 2020, 6, .	10.3	23
60	Generic amyloid fibrillation of TMEM106B in patient with Parkinson's disease dementia and normal elders. Cell Research, 2022, 32, 585-588.	12.0	23
61	In-Cell NMR Study of Tau and MARK2 Phosphorylated Tau. International Journal of Molecular Sciences, 2019, 20, 90.	4.1	22
62	O-Glycosylation Induces Amyloid- β To Form New Fibril Polymorphs Vulnerable for Degradation. Journal of the American Chemical Society, 2021, 143, 20216-20223.	13.7	22
63	Second messenger Ap4A polymerizes target protein HINT1 to transduce signals in Fc μ RI-activated mast cells. Nature Communications, 2019, 10, 4664.	12.8	19
64	A Metastable Crystalline Phase in Two-Dimensional Metallic Oxide Nanoplates. Angewandte Chemie - International Edition, 2019, 58, 2055-2059.	13.8	19
65	Molecular structure of an amyloid fibril formed by FUS low-complexity domain. Science, 2022, 25, 103701.	4.1	19
66	Modular genetic design of multi-domain functional amyloids: insights into self-assembly and functional properties. Chemical Science, 2019, 10, 4004-4014.	7.4	18
67	Detecting Single-Molecule Dynamics on Lipid Membranes with Quenchers in Liposome FRET. Angewandte Chemie - International Edition, 2019, 58, 5577-5581.	13.8	18
68	A novel partially open state of SHP2 points to a "multiple gear" regulation mechanism. Journal of Biological Chemistry, 2021, 296, 100538.	3.4	18
69	Nicotinamide mononucleotide adenylyltransferase uses its NAD ⁺ substrate-binding site to chaperone phosphorylated Tau. ELife, 2020, 9, .	6.0	18
70	Continuous in situ portable SERS analysis of pollutants in water and air by a highly sensitive gold nanoparticle-decorated PVDF substrate. Analytical and Bioanalytical Chemistry, 2021, 413, 5469-5482.	3.7	17
71	Ultrasensitive SERS Analysis of Liquid and Gaseous Putrescine and Cadaverine by a 3D-Rosettelike Nanostructure-Decorated Flexible Porous Substrate. Analytical Chemistry, 2022, 94, 5273-5283.	6.5	17
72	Unraveling the Potential-Dependent Volcanic Selectivity Changes of an Atomically Dispersed Ni Catalyst During CO ₂ Reduction. ACS Catalysis, 2022, 12, 8676-8686.	11.2	16

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73	Spatiotemporal dynamic regulation of membraneless organelles by chaperone networks. Trends in Cell Biology, 2022, 32, 1-3.	7.9	15
74	A Structural View of β -crystallin Assembly and Amyloid Aggregation. Protein and Peptide Letters, 2017, 24, 315-321.	0.9	15
75	SARS-CoV-2 impairs the disassembly of stress granules and promotes ALS-associated amyloid aggregation. Protein and Cell, 2022, 13, 602-614.	11.0	15
76	Hsp70 exhibits a liquid-liquid phase separation ability and chaperones condensed FUS against amyloid aggregation. IScience, 2022, 25, 104356.	4.1	14
77	Cryo-EM structure of an amyloid fibril formed by full-length human SOD1 reveals its conformational conversion. Nature Communications, 2022, 13, .	12.8	12
78	Proximal Single-Stranded RNA Destabilizes Human Telomerase RNA G-Quadruplex and Induces Its Distinct Conformers. Journal of Physical Chemistry Letters, 2021, 12, 3361-3366.	4.6	9
79	Detecting Single-Molecule Dynamics on Lipid Membranes with Quenchers in Liposome FRET. Angewandte Chemie, 2019, 131, 5633-5637.	2.0	8
80	One-Step Generation and Purification of Cell-Encapsulated Hydrogel Microsphere With an Easily Assembled Microfluidic Device. Frontiers in Bioengineering and Biotechnology, 2021, 9, 816089.	4.1	8
81	Identifying Heterozyper β -Sheet in Twisted Amyloid Aggregation. Nano Letters, 2022, 22, 3707-3712.	9.1	8
82	Better Together: A Hybrid Amyloid Signals Necroptosis. Cell, 2018, 173, 1068-1070.	28.9	7
83	A Metastable Crystalline Phase in Two-Dimensional Metallic Oxide Nanoplates. Angewandte Chemie, 2019, 131, 2077-2081.	2.0	7
84	Structural Insights of Fe ³⁺ Induced β -synuclein Fibrillation in Parkinson's Disease. Journal of Molecular Biology, 2023, 435, 167680.	4.2	7
85	A high-throughput method for exploring the parameter space of protein liquid-liquid phase separation. Cell Reports Physical Science, 2022, 3, 100764.	5.6	5
86	Microfluidic disk for the determination of human blood types. Microsystems Technologies, 2017, 23, 5645-5651.	2.0	4
87	Low Cost, Easily-Assembled Centrifugal Buoyancy-Based Emulsification and Digital PCR. Micromachines, 2022, 13, 171.	2.9	3
88	The mouse nicotinamide mononucleotide adenylyltransferase chaperones diverse pathological amyloid client proteins. Journal of Biological Chemistry, 2022, 298, 101912.	3.4	1