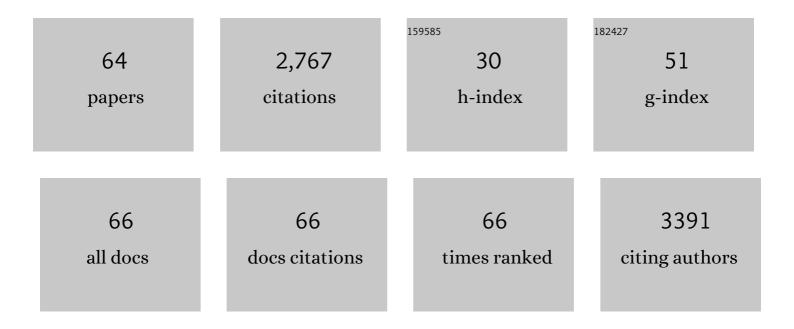
## List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Stretchable and self-healable hydrogel artificial skin. National Science Review, 2022, 9, .	9.5	40
2	Quantifying cation-ï€ interactions in marine adhesive proteins using single-molecule force spectroscopy. , 2022, 1, 100005.		12
3	A bottom-up design strategy for controllable self-assembly based on the isotropic double-well potential. Physical Chemistry Chemical Physics, 2022, , .	2.8	0
4	Fluorination Increases Hydrophobicity at the Macroscopic Level but not at the Microscopic Level. Chinese Physics Letters, 2022, 39, 038701.	3.3	8
5	Tuning Strain Stiffening of Protein Hydrogels by Charge Modification. International Journal of Molecular Sciences, 2022, 23, 3032.	4.1	5
6	Strong and Reversible Covalent Double Network Hydrogel Based on Forceâ€Coupled Enzymatic Reactions. Angewandte Chemie - International Edition, 2022, 61, .	13.8	20
7	Strong and Reversible Covalent Double Network Hydrogel Based on Forceâ€Coupled Enzymatic Reactions. Angewandte Chemie, 2022, 134, .	2.0	1
8	Mechanochemical Lithography. Journal of the American Chemical Society, 2022, 144, 9949-9958.	13.7	8
9	Temperature Dependence of Internal Friction of Peptides. Journal of Physical Chemistry B, 2021, 125, 2821-2832.	2.6	2
10	Enhanced sampling method with coarse graining of conformational space. Physical Review E, 2021, 103, 032404.	2.1	2
11	An ester bond underlies the mechanical strength of a pathogen surface protein. Nature Communications, 2021, 12, 5082.	12.8	20
12	Regulating Mechanical Properties of <scp>Polymerâ€Supramolecular Doubleâ€Network</scp> Hydrogel by Supramolecular Selfâ€assembling Structures. Chinese Journal of Chemistry, 2021, 39, 2711-2717.	4.9	21
13	Stable, active CO2 reduction to formate via redox-modulated stabilization of active sites. Nature Communications, 2021, 12, 5223.	12.8	145
14	Activation Pathways and Free Energy Landscapes of the SARS-CoV-2 Spike Protein. ACS Omega, 2021, 6, 23432-23441.	3.5	8
15	Temperature and Guanidine Hydrochloride Effects on the Folding Thermodynamics of WW Domain and Variants. Journal of Physical Chemistry B, 2021, 125, 11386-11391.	2.6	2
16	Hydrogel tapes for fault-tolerant strong wet adhesion. Nature Communications, 2021, 12, 7156.	12.8	122
17	Hidden Intermediate State and Second Pathway Determining Folding and Unfolding Dynamics of GB1 Protein at Low Forces. Physical Review Letters, 2020, 125, 198101.	7.8	24
18	Tunable Mechanical and Optoelectronic Properties of Organic Cocrystals by Unexpected Stacking Transformation from H- to J- and X-Aggregation. ACS Nano, 2020, 14, 10704-10715.	14.6	61

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19	Stretchable hydrogels with low hysteresis and anti-fatigue fracture based on polyprotein cross-linkers. Nature Communications, 2020, 11, 4032.	12.8	129
20	Structure and sequence features of mussel adhesive protein lead to its salt-tolerant adhesion ability. Science Advances, 2020, 6, .	10.3	47
21	Insights into the Kinetic Partitioning Folding Dynamics of the Human Telomeric G-Quadruplex from Molecular Simulations and Machine Learning. Journal of Chemical Theory and Computation, 2020, 16, 5936-5947.	5.3	8
22	Bioinspired Suprahelical Frameworks as Scaffolds for Artificial Photosynthesis. ACS Applied Materials & amp; Interfaces, 2020, 12, 45192-45201.	8.0	7
23	Smart Adhesive Peptide Nanofibers for Cell Capture and Release. ACS Biomaterials Science and Engineering, 2020, 6, 6800-6807.	5.2	6
24	Strong and Injectable Hydrogels Based on Multivalent Metal Ion-Peptide Cross-linking. Chemical Research in Chinese Universities, 2020, 36, 962-969.	2.6	6
25	H <sub>2</sub> Activation by Heterobimetallic Gold(I)/Platinum(0) Complex: Theoretical Understanding of Electronic Processes and Prediction on More Active Species. Journal of Physical Chemistry C, 2020, 124, 4525-4533.	3.1	5
26	Molecular engineering of metal coordination interactions for strong, tough, and fast-recovery hydrogels. Science Advances, 2020, 6, eaaz9531.	10.3	111
27	Origin of subdiffusions in proteins: Insight from peptide systems. Physical Review E, 2020, 102, 062424.	2.1	5
28	Consequences of Hydrophobic Nanotube Binding on the Functional Dynamics of Signaling Protein Calmodulin. ACS Omega, 2019, 4, 10494-10501.	3.5	3
29	Bioinspired Ice Growth Inhibitors Based on Self-Assembling Peptides. ACS Macro Letters, 2019, 8, 1383-1390.	4.8	27
30	Chirality-Dependent Adsorption between Amphipathic Peptide and POPC Membrane. International Journal of Molecular Sciences, 2019, 20, 4760.	4.1	11
31	Direct Measurement of Length Scale Dependence of the Hydrophobic Free Energy of a Single Collapsed Polymer Nanosphere. Physical Review Letters, 2019, 122, 047801.	7.8	21
32	Surface-assisted assembly of a histidine-rich lipidated peptide for simultaneous exfoliation of graphite and functionalization of graphene nanosheets. Nanoscale, 2019, 11, 2999-3012.	5.6	39
33	Binding of Copper Ions with Octapeptide Region in Prion Protein: Simulations with Charge Transfer Model. Journal of Physical Chemistry B, 2019, 123, 5216-5228.	2.6	2
34	Tuning of the dynamics of metal ion crosslinked hydrogels by network structures. Soft Matter, 2019, 15, 4423-4427.	2.7	14
35	Role of substrate-product frustration on enzyme functional dynamics. Physical Review E, 2019, 100, 052409.	2.1	9
36	Strong dual-crosslinked hydrogels for ultrasound-triggered drug delivery. Nano Research, 2019, 12, 115-119.	10.4	54

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37	Principles Governing Catalytic Activity of Self-Assembled Short Peptides. Journal of the American Chemical Society, 2019, 141, 223-231.	13.7	47
38	Maleimide–thiol adducts stabilized through stretching. Nature Chemistry, 2019, 11, 310-319.	13.6	154
39	Singleâ€Molecule Force Spectroscopy Reveals Selfâ€Assembly Enhanced Surface Binding of Hydrophobins. Chemistry - A European Journal, 2018, 24, 9224-9228.	3.3	16
40	Rationally designed synthetic protein hydrogels with predictable mechanical properties. Nature Communications, 2018, 9, 620.	12.8	145
41	Mesoscale Graphene-like Honeycomb Mono- and Multilayers Constructed via Self-Assembly of Coclusters. Journal of the American Chemical Society, 2018, 140, 1805-1811.	13.7	69
42	Singleâ€Molecule Force Spectroscopy Reveals Multiple Binding Modes between DOPA and Different Rutile Surfaces. ChemPhysChem, 2017, 18, 1466-1469.	2.1	29
43	Single-molecule study of the synergistic effects of positive charges and Dopa for wet adhesion. Journal of Materials Chemistry B, 2017, 5, 4416-4420.	5.8	57
44	Single-Molecule Mechanics of Catechol-Iron Coordination Bonds. ACS Biomaterials Science and Engineering, 2017, 3, 979-989.	5.2	67
45	Multiporous Supramolecular Microspheres for Artificial Photosynthesis. Chemistry of Materials, 2017, 29, 4454-4460.	6.7	32
46	Mg <sup>2+</sup> â€Dependent High Mechanical Anisotropy of Threeâ€Wayâ€Junction pRNA as Revealed by Singleâ€Molecule Force Spectroscopy. Angewandte Chemie - International Edition, 2017, 56, 9376-9380.	13.8	20
47	Consequences of Energetic Frustration on the Ligand-Coupled Folding/Dimerization Dynamics of Allosteric Protein S100A12. Journal of Physical Chemistry B, 2017, 121, 9799-9806.	2.6	5
48	Single Molecule Study of Force-Induced Rotation of Carbon–Carbon Double Bonds in Polymers. ACS Nano, 2017, 11, 194-203.	14.6	34
49	Electrically Controllable Actuators Based on Supramolecular Peptide Hydrogels. Advanced Functional Materials, 2016, 26, 9053-9062.	14.9	102
50	Polymerâ€ <b>S</b> upramolecular Polymer Doubleâ€Network Hydrogel. Advanced Functional Materials, 2016, 26, 9044-9052.	14.9	106
51	Molecular simulations of metal-coupled protein folding. Current Opinion in Structural Biology, 2015, 30, 25-31.	5.7	45
52	Energy landscape views for interplays among folding, binding, and allostery of calmodulin domains. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10550-10555.	7.1	150
53	Atomistic Picture for the Folding Pathway of a Hybrid-1 Type Human Telomeric DNA G-quadruplex. PLoS Computational Biology, 2014, 10, e1003562.	3.2	55
54	Single-molecule force spectroscopy reveals force-enhanced binding of calcium ions by gelsolin. Nature Communications, 2014, 5, 4623.	12.8	36

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55	Single Molecule Evidence for the Adaptive Binding of DOPA to Different Wet Surfaces. Langmuir, 2014, 30, 4358-4366.	3.5	116
56	Designing the mechanical properties of peptide-based supramolecular hydrogels for biomedical applications. Science China: Physics, Mechanics and Astronomy, 2014, 57, 849-858.	5.1	36
57	An enzyme-assisted nanoparticle crosslinking approach to enhance the mechanical strength of peptide-based supramolecular hydrogels. Chemical Communications, 2013, 49, 8653.	4.1	40
58	Energy landscape and multiroute folding of topologically complex proteins adenylate kinase and 2ouf-knot. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17789-17794.	7.1	134
59	Low Folding Cooperativity of Hp35 Revealed by Single-Molecule Force Spectroscopy and Molecular Dynamics Simulation. Biophysical Journal, 2012, 102, 1944-1951.	0.5	14
60	Single-Molecule Experiments Reveal the Flexibility of a Per-ARNT-Sim Domain and the Kinetic Partitioning in the Unfolding Pathway under Force. Biophysical Journal, 2012, 102, 2149-2157.	0.5	25
61	Mechanistic insight of photoâ€induced aggregation of chicken egg white lysozyme: The interplay between hydrophobic interactions and formation of intermolecular disulfide bonds. Proteins: Structure, Function and Bioinformatics, 2011, 79, 2505-2516.	2.6	41
62	Confinement effects on the kinetics and thermodynamics of protein dimerization. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5517-5522.	7.1	69
63	Metal-Coupled Folding of Cys <sub>2</sub> His <sub>2</sub> Zinc-Finger. Journal of the American Chemical Society, 2008, 130, 892-900.	13.7	115
64	Modeling hydrogen exchange of proteins by a multiscale method. Chinese Physics B, O, , .	1.4	3