

# Peng Zheng

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

2,731  
citations

394286

19  
h-index

243529

44  
g-index

51  
all docs

51  
docs citations

51  
times ranked

3865  
citing authors

#	ARTICLE	IF	CITATIONS
1	A highly stretchable autonomous self-healing elastomer. <i>Nature Chemistry</i> , 2016, 8, 618-624.	6.6	1,133
2	N501Y mutation of spike protein in SARS-CoV-2 strengthens its binding to receptor ACE2. <i>ELife</i> , 2021, 10, .	2.8	262
3	Thermodynamically stable whilst kinetically labile coordination bonds lead to strong and tough self-healing polymers. <i>Nature Communications</i> , 2019, 10, 1164.	5.8	258
4	Dissipative Supramolecular Polymerization Powered by Light. <i>CCS Chemistry</i> , 2019, 1, 335-342.	4.6	93
5	Matrix-Independent Highly Conductive Composites for Electrodes and Interconnects in Stretchable Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 8567-8575.	4.0	89
6	Autonomous self-healing, self-adhesive, highly conductive composites based on a silver-filled polyborosiloxane/polydimethylsiloxane double-network elastomer. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27278-27288.	5.2	79
7	Enzymatic biosynthesis and immobilization of polyprotein verified at the single-molecule level. <i>Nature Communications</i> , 2019, 10, 2775.	5.8	77
8	Highly Covalent Ferric-Thiolate Bonds Exhibit Surprisingly Low Mechanical Stability. <i>Journal of the American Chemical Society</i> , 2011, 133, 6791-6798.	6.6	68
9	Hydrogen Bond Strength Modulates the Mechanical Strength of Ferric-Thiolate Bonds in Rubredoxin. <i>Journal of the American Chemical Society</i> , 2012, 134, 4124-4131.	6.6	63
10	Combination of Click Chemistry and Enzymatic Ligation for Stable and Efficient Protein Immobilization for Single-Molecule Force Spectroscopy. <i>CCS Chemistry</i> , 2022, 4, 598-604.	4.6	44
11	Force-induced chemical reactions on the metal centre in a single metalloprotein molecule. <i>Nature Communications</i> , 2015, 6, 7569.	5.8	33
12	The Molecular Mechanism Underlying Mechanical Anisotropy of the Protein GB1. <i>Biophysical Journal</i> , 2012, 103, 2361-2368.	0.2	32
13	Single Molecule Force Spectroscopy Reveals that Electrostatic Interactions Affect the Mechanical Stability of Proteins. <i>Biophysical Journal</i> , 2011, 100, 1534-1541.	0.2	31
14	Single Molecule Force Spectroscopy Reveals the Molecular Mechanical Anisotropy of the Fe <sub>4</sub> Metal Center in Rubredoxin. <i>Journal of the American Chemical Society</i> , 2013, 135, 17783-17792.	6.6	31
15	Facile Method of Constructing Polyproteins for Single-Molecule Force Spectroscopy Studies. <i>Langmuir</i> , 2011, 27, 5713-5718.	1.6	30
16	Single Molecule Force Spectroscopy Reveals That Iron Is Released from the Active Site of Rubredoxin by a Stochastic Mechanism. <i>Journal of the American Chemical Society</i> , 2013, 135, 7992-8000.	6.6	28
17	Direct Measurements of the Mechanical Stability of Zinc-Thiolate Bonds in Rubredoxin by Single-Molecule Atomic Force Microscopy. <i>Biophysical Journal</i> , 2011, 101, 1467-1473.	0.2	27
18	Reversible Unfolding/Refolding of Rubredoxin: A Single-Molecule Force Spectroscopy Study. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14060-14063.	7.2	23

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19	Single molecule force spectroscopy: a new tool for bioinorganic chemistry. <i>Current Opinion in Chemical Biology</i> , 2018, 43, 58-67.	2.8	23
20	Verification of sortase for protein conjugation by single-molecule force spectroscopy and molecular dynamics simulations. <i>Chemical Communications</i> , 2020, 56, 3943-3946.	2.2	22
21	A Fast and Room-temperature Self-healing Thermal Conductive Polymer Composite. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021, 39, 1328-1336.	2.0	20
22	Single-Molecule Force Spectroscopy Reveals that the Fe-N Bond Enables Multiple Rupture Pathways of the 2Fe2S Cluster in a MitoNEET Monomer. <i>Analytical Chemistry</i> , 2020, 92, 14783-14789.	3.2	19
23	Single-Molecule Force Spectroscopy Reveals that Iron-Ligand Bonds Modulate Proteins in Different Modes. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5428-5433.	2.1	18
24	The unique trimeric assembly of the virulence factor HtrA from <i>Helicobacter pylori</i> occurs via N-terminal domain swapping. <i>Journal of Biological Chemistry</i> , 2019, 294, 7990-8000.	1.6	16
25	Pioglitazone Inhibits Metal Cluster Transfer of mitoNEET by Stabilizing the Labile Fe-N Bond Revealed at Single-Bond Level. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3860-3867.	2.1	16
26	Multistep Protein Unfolding Scenarios from the Rupture of a Complex Metal Cluster Cd3S9. <i>Scientific Reports</i> , 2019, 9, 10518.	1.6	14
27	Silver dendrites based electrically conductive composites, towards the application of stretchable conductors. <i>Composites Communications</i> , 2020, 19, 121-126.	3.3	13
28	Modeling the Hydrolysis of Iron-Sulfur Clusters. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 653-660.	2.5	12
29	Self-sorting double network hydrogels with photo-definable biochemical cues as artificial synthetic extracellular matrix. <i>Nano Research</i> , 2022, 15, 4294-4301.	5.8	11
30	Highly Dynamic Polynuclear Metal Cluster Revealed in a Single Metallothionein Molecule. <i>Research</i> , 2021, 2021, 9756945.	2.8	9
31	Enzymatic Protein-Protein Conjugation through Internal Site Verified at the Single-Molecule Level. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10914-10919.	2.1	9
32	Exploration of Metal-Ligand Coordination Bonds in Proteins by Single-molecule Force Spectroscopy. <i>Chemistry Letters</i> , 2021, 50, 1667-1675.	0.7	8
33	Syntheses, crystal structures, and electrochemical properties of transition metal complexes with new tetrathiafulvalene-derivatized acetylacetonate ligands. <i>Transition Metal Chemistry</i> , 2008, 33, 767-773.	0.7	7
34	OaAEP1-Mediated Enzymatic Synthesis and Immobilization of Polymerized Protein for Single-Molecule Force Spectroscopy. <i>Journal of Visualized Experiments</i> , 2020, .	0.2	7
35	Transforming <i>de novo</i> protein $\Gamma_{3D}$ into a mechanically stable protein by zinc binding. <i>Chemical Communications</i> , 2021, 57, 11489-11492.	2.2	7
36	Detection of weak non-covalent cation- $\pi$ interactions in NGAL by single-molecule force spectroscopy. <i>Nano Research</i> , 2022, 15, 4251-4257.	5.8	6

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37	<i>Oa</i> -mediated PNA-protein conjugation enables erasable imaging of membrane proteins. <i>Chemical Communications</i> , 2022, 58, 8448-8451.	2.2	6
38	Single-Molecule Force Spectroscopy Reveals the Dynamic HgS Coordination Site in the <i>De Novo</i> -Designed Metalloprotein I <sub>3</sub> DIV. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5372-5378.	2.1	5
39	Facile Synthesis of Peptide-Conjugated Gold Nanoclusters with Different Lengths. <i>Nanomaterials</i> , 2021, 11, 2932.	1.9	4
40	Direct Measurements of the Cobalt-Thiolate Bonds Strength in Rubredoxin by Single-Molecule Force Spectroscopy. <i>ChemBioChem</i> , 2022, , .	1.3	3
41	Mechanical properties of elastomeric proteins studied by single molecule force spectroscopy. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2016, 65, 188703.	0.2	2
42	The investigation of interface effect on the properties of nanosilica-based underfill. , 2017, , .		1
43	A versatile platform for single-molecule enzymology of restriction endonuclease. <i>Journal of Innovative Optical Health Sciences</i> , 2019, 12, 1841002.	0.5	1
44	Single-Molecule Force Spectroscopy Reveals Stability of mitoNEET and its [2Fe2Se] Cluster in Weakly Acidic and Basic Solutions. <i>ChemistryOpen</i> , 2022, 11, .	0.9	1
45	Enzymatic Construction of Protein Polymer/Polyprotein Using <i>Oa</i> AEP1 and TEV Protease. <i>Bio-protocol</i> , 2020, 10, e3596.	0.2	0
46	Cover Feature: Direct Measurements of the Cobalt-Thiolate Bonds Strength in Rubredoxin by Single-Molecule Force Spectroscopy ( <i>ChemBioChem</i> 12/2022). <i>ChemBioChem</i> , 2022, 23, .	1.3	0