Fei Sun

List of Publications by Year
in descending order

48	2,244	218677	223800
papers	citations	26 h-index	46 g-index

48	48	48	2878
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Genetically engineered materials: Proteins and beyond. Science China Chemistry, 2022, 65, 486-496.	8.2	10
2	B12-dependent photoreceptor protein as an emerging tool for materials synthetic biology. Smart Materials in Medicine, 2022, 3, 297-303.	6.7	2
3	B ₁₂ -induced reassembly of split photoreceptor protein enables photoresponsive hydrogels with tunable mechanics. Science Advances, 2022, 8, eabm5482.	10.3	7
4	Controlling synthetic membraneless organelles by a red-light-dependent singlet oxygen-generating protein. Nature Communications, 2022, 13, .	12.8	7
5	Self-Assembly and Genetically Engineered Hydrogels. Advances in Biochemical Engineering/Biotechnology, 2021, 178, 169-196.	1.1	1
6	The Spy that links: Creation of nonlinear protein architectures and materials using SpyTag/SpyCatcher chemistry. Methods in Enzymology, 2021, 647, 283-301.	1.0	1
7	Reaction: Engineer Biology for Uranium. CheM, 2021, 7, 274-275.	11.7	6
8	Harnessing proteins for engineered living materials. Current Opinion in Solid State and Materials Science, 2021, 25, 100896.	11.5	7
9	Cu3PdxN nanocrystals for efficient CO2 electrochemical reduction to methane. Electrochimica Acta, 2021, 371, 137793.	5.2	6
10	Synthesis of bio-inspired viscoelastic molecular networks by metal-induced protein assembly. Molecular Systems Design and Engineering, 2020, 5, 117-124.	3.4	4
11	Dynamically Tunable, Macroscopic Molecular Networks Enabled by Cellular Synthesis of 4-Arm Star-like Proteins. Matter, 2020, 2, 233-249.	10.0	24
12	Injectable, photoresponsive hydrogels for delivering neuroprotective proteins enabled by metal-directed protein assembly. Science Advances, 2020, 6, .	10.3	40
13	Calcium-responsive hydrogels enabled by inducible proteinâ€“protein interactions. Polymer Chemistry, 2020, 11, 4973-4977.	3.9	7
14	Genetically Encoded Click Chemistry^{â€}. Chinese Journal of Chemistry, 2020, 38, 894-896.	4.9	21
15	Editorial: Synthesis of Novel Hydrogels With Unique Mechanical Properties. Frontiers in Chemistry, 2020, 8, 595392.	3.6	2
16	Synthetic Multienzyme Complexes, Catalytic Nanomachineries for Cascade Biosynthesis In Vivo. ACS Nano, 2019, 13, 9895-9906.	14.6	65
17	Enzymatic assembly of adhesive molecular networks with sequence-dependent mechanical properties inspired by mussel foot proteins. Polymer Chemistry, 2019, 10, 823-826.	3.9	7
18	Cobalt-Cross-Linked, Redox-Responsive Spy Network Protein Hydrogels. ACS Macro Letters, 2019, 8, 773-778.	4.8	20

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19	A Versatile and Robust Approach to Stimuli-Responsive Protein Multilayers with Biologically Enabled Unique Functions. Biomacromolecules, 2018, 19, 1065-1073.	5.4	18
20	B₁₂-Dependent Protein Oligomerization Facilitates Layer-by-Layer Growth of Photo/Thermal Responsive Nanofilms. ACS Macro Letters, 2018, 7, 514-518.	4.8	9
21	Versatile Engineered Protein Hydrogels Enabling Decoupled Mechanical and Biochemical Tuning for Cell Adhesion and Neurite Growth. ACS Applied Nano Materials, 2018, 1, 1579-1585.	5.0	24
22	Reversible hydrogels with tunable mechanical properties for optically controlling cell migration. Nano Research, 2018, 11, 5556-5565.	10.4	91
23	Modular functionalization of crystalline graphene by recombinant proteins: a nanoplatform for probing biomolecules. Nanoscale, 2018, 10, 22572-22582.	5.6	12
24	An Intrinsically Disordered Peptide-Peptide Stapler for Highly Efficient Protein Ligation Both in Vivo and in Vitro. Journal of the American Chemical Society, 2018, 140, 17474-17483.	13.7	36
25	Synthesis of Entirely Protein-Based Hydrogels by Enzymatic Oxidation Enabling Water-Resistant Bioadhesion and Stem Cell Encapsulation. ACS Applied Bio Materials, 2018, 1, 1735-1740.	4.6	11
26	Genetically Programming Stress-Relaxation Behavior in Entirely Protein-Based Molecular Networks. ACS Macro Letters, 2018, 7, 1468-1474.	4.8	28
27	Protein Hydrogel Microbeads for Selective Uranium Mining from Seawater. ACS Applied Materials & Interfaces, 2017, 9, 2035-2039.	8.0	92
28	B ₁₂ -dependent photoresponsive protein hydrogels for controlled stem cell/protein release. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5912-5917.	7.1	131
29	Entirely recombinant protein-based hydrogels for selective heavy metal sequestration. Polymer Chemistry, 2017, 8, 6158-6164.	3.9	28
30	Unleashing chemical power from protein sequence space toward genetically encoded â€œclickâ€• chemistry. Chinese Chemical Letters, 2017, 28, 2078-2084.	9.0	40
31	Microfluidics and microbial engineering. Lab on A Chip, 2016, 16, 432-446.	6.0	62
32	Genetically Encoded Spy Peptide Fusion System to Detect Plasma Membrane-Localized Proteins InÂVivo. Chemistry and Biology, 2015, 22, 1108-1121.	6.0	56
33	Steady-State Hydrogen Peroxide Induces Glycolysis in Staphylococcus aureus and Pseudomonas aeruginosa. Journal of Bacteriology, 2014, 196, 2499-2513.	2.2	35
34	Synthesis of bioactive protein hydrogels by genetically encoded SpyTag-SpyCatcher chemistry. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11269-11274.	7.1	221
35	Controlling Macromolecular Topology with Genetically Encoded SpyTagâ€“SpyCatcher Chemistry. Journal of the American Chemical Society, 2013, 135, 13988-13997.	13.7	188
36	Proteome-wide Quantification and Characterization of Oxidation-Sensitive Cysteines in Pathogenic Bacteria. Cell Host and Microbe, 2013, 13, 358-370.	11.0	111

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37	Molecular mechanism of quinone signaling mediated through S-quinonization of a YodB family repressor QsrR. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5010-5015.	7.1	40
38	Expression of Multidrug Resistance Efflux Pump Gene norA Is Iron Responsive in Staphylococcus aureus. Journal of Bacteriology, 2012, 194, 1753-1762.	2.2	69
39	Quorum-sensing agr mediates bacterial oxidation response via an intramolecular disulfide redox switch in the response regulator AgrA. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9095-9100.	7.1	92
40	Protein cysteine phosphorylation of SarA/MgrA family transcriptional regulators mediates bacterial virulence and antibiotic resistance. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15461-15466.	7.1	151
41	The auxiliary protein complex <scp>SaePQ</scp> activates the phosphatase activity of sensor kinase <scp>SaeS</scp> in the <scp>SaeRS</scp> twoâ€component system of <scp>S</scp>taphylococcus aureus. Molecular Microbiology, 2012, 86, 331-348.	2.5	74
42	AirSR, a [2Fe-2S] Cluster-Containing Two-Component System, Mediates Global Oxygen Sensing and Redox Signaling in Staphylococcus aureus. Journal of the American Chemical Society, 2012, 134, 305-314.	13.7	78
43	Staphylococcus aureus CymR Is a New Thiol-based Oxidation-sensing Regulator of Stress Resistance and Oxidative Response. Journal of Biological Chemistry, 2012, 287, 21102-21109.	3.4	38
44	Targeting MgrA-Mediated Virulence Regulation in Staphylococcus aureus. Chemistry and Biology, 2011, 18, 1032-1041.	6.0	55
45	In theStaphylococcus aureusTwo-Component Systemsae, the Response Regulator SaeR Binds to a Direct Repeat Sequence and DNA Binding Requires Phosphorylation by the Sensor Kinase SaeS. Journal of Bacteriology, 2010, 192, 2111-2127.	2.2	104
46	CcpA Mediates Proline Auxotrophy and Is Required forStaphylococcus aureusPathogenesis. Journal of Bacteriology, 2010, 192, 3883-3892.	2.2	72
47	Aureusimines in Staphylococcus aureus Are Not Involved in Virulence. PLoS ONE, 2010, 5, e15703.	2.5	40
48	From 4-arm star proteins to diverse stimuli-responsive molecular networks enabled by orthogonal genetically encoded click chemistries. Polymer Chemistry, 0, , .	3.9	1