

Yinan Wei

List of Publications by Year in descending order

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72
papers

1,915
citations

361388

20
h-index

276858

41
g-index

76
all docs

76
docs citations

76
times ranked

2476
citing authors

#	ARTICLE	IF	CITATIONS
1	Inflammasome Activation Triggers Blood Clotting and Host Death through Pyroptosis. <i>Immunity</i> , 2019, 50, 1401-1411.e4.	14.3	246
2	De novo proteins from designed combinatorial libraries. <i>Protein Science</i> , 2004, 13, 1711-1723.	7.6	237
3	Solution structure of a de novo protein from a designed combinatorial library. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 13270-13273.	7.1	107
4	Coplanar Polychlorinated Biphenyls Impair Glucose Homeostasis in Lean C57BL/6 Mice and Mitigate Beneficial Effects of Weight Loss on Glucose Homeostasis in Obese Mice. <i>Environmental Health Perspectives</i> , 2013, 121, 105-110.	6.0	105
5	Stably folded de novo proteins from a designed combinatorial library. <i>Protein Science</i> , 2003, 12, 92-102.	7.6	101
6	Selective Metal Binding to a Membrane-embedded Aspartate in the Escherichia coli Metal Transporter YiiP (FieF). <i>Journal of Biological Chemistry</i> , 2005, 280, 33716-33724.	3.4	96
7	Enzyme-like proteins from an unselected library of designed amino acid sequences. <i>Protein Engineering, Design and Selection</i> , 2004, 17, 67-75.	2.1	77
8	Binding and Transport of Metal Ions at the Dimer Interface of the Escherichia coli Metal Transporter YiiP. <i>Journal of Biological Chemistry</i> , 2006, 281, 23492-23502.	3.4	76
9	Glucose Responsive Hydrogel Networks Based on Protein Recognition. <i>Macromolecular Bioscience</i> , 2009, 9, 864-868.	4.1	61
10	Ab initio prediction of the three-dimensional structure of a de novo designed protein: A double-blind case study. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 58, 560-570.	2.6	59
11	Oligomeric State of the Escherichia coli Metal Transporter YiiP. <i>Journal of Biological Chemistry</i> , 2004, 279, 39251-39259.	3.4	58
12	Pyroptosis-Induced Inflammation and Tissue Damage. <i>Journal of Molecular Biology</i> , 2022, 434, 167301.	4.2	44
13	Nanoparticle-Mediated Remote Control of Enzymatic Activity. <i>ACS Nano</i> , 2012, 6, 9079-9086.	14.6	43
14	Gasdermin D (GSDMD) as a new target for the treatment of infection. <i>MedChemComm</i> , 2019, 10, 660-667.	3.4	41
15	Inflammasome activation promotes venous thrombosis through pyroptosis. <i>Blood Advances</i> , 2021, 5, 2619-2623.	5.2	38
16	Oriented Immobilization of Proteins on Hydroxyapatite Surface Using Bifunctional Bisphosphonates as Linkers. <i>Biomacromolecules</i> , 2012, 13, 1742-1749.	5.4	31
17	Folding of AcrB Subunit Precedes Trimerization. <i>Journal of Molecular Biology</i> , 2011, 411, 264-274.	4.2	25
18	AcrB Trimer Stability and Efflux Activity, Insight from Mutagenesis Studies. <i>PLoS ONE</i> , 2011, 6, e28390.	2.5	25

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19	Periplasmic Targets for the Development of Effective Antimicrobials against Gram-Negative Bacteria. <i>ACS Infectious Diseases</i> , 2020, 6, 2337-2354.	3.8	25
20	Direct Fluorescence Polarization Assay for the Detection of Glycopeptide Antibiotics. <i>Analytical Chemistry</i> , 2010, 82, 7044-7048.	6.5	20
21	Characterization of an acetohydroxy acid synthase mutant conferring tolerance to imidazolinone herbicides in rice (<i>Oryza sativa</i>). <i>Planta</i> , 2018, 247, 693-703.	3.2	20
22	Using U-Shaped Localized Surface Plasmon Resonance Sensors to Compensate for Nonspecific Interactions. <i>IEEE Nanotechnology Magazine</i> , 2014, 13, 55-61.	2.0	18
23	Detection of proteinâ€“DNA interaction and regulation using gold nanoparticles. <i>Analytical Biochemistry</i> , 2010, 399, 262-267.	2.4	16
24	Structure of inorganic pyrophosphatase from <i>Staphylococcus aureus</i> reveals conformational flexibility of the active site. <i>Journal of Structural Biology</i> , 2015, 189, 81-86.	2.8	16
25	Site Specific and Reversible Protein Immobilization Facilitated by A DNA Binding Fusion Tag. <i>Bioconjugate Chemistry</i> , 2010, 21, 1177-1182.	3.6	15
26	Differentiating surface and bulk interactions using localized surface plasmon resonances of gold nanorods. <i>Optics Express</i> , 2012, 20, 6905.	3.4	15
27	Insights into the Function and Structural Flexibility of the Periplasmic Molecular Chaperone SurA. <i>Journal of Bacteriology</i> , 2013, 195, 1061-1067.	2.2	15
28	Cysteine residue is not essential for CPM protein thermal-stability assay. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 3683-3691.	3.7	15
29	Donnan Potential across the Outer Membrane of Gram-Negative Bacteria and Its Effect on the Permeability of Antibiotics. <i>Antibiotics</i> , 2021, 10, 701.	3.7	15
30	Detection of halogenated organic compounds using immobilized thermophilic dehalogenase. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 1173-1178.	3.7	14
31	Small Globular Protein Motif Forms Particulate Hydrogel under Various pH Conditions. <i>Biomacromolecules</i> , 2011, 12, 1578-1584.	5.4	14
32	Assembling of AcrB Trimer in Cell Membrane. <i>Journal of Molecular Biology</i> , 2012, 423, 123-134.	4.2	14
33	Expression, Purification and Characterization of the <i>Escherichia coli</i> Integral Membrane Protein YajC. <i>Protein and Peptide Letters</i> , 2011, 18, 601-608.	0.9	13
34	Increasing Salt Rejection of Polybenzimidazole Nanofiltration Membranes via the Addition of Immobilized and Aligned Aquaporins. <i>Processes</i> , 2019, 7, 76.	2.8	13
35	A Reporter Platform for the Monitoring of In Vivo Conformational Changes in AcrB. <i>Protein and Peptide Letters</i> , 2011, 18, 863-871.	0.9	12
36	Layer-by-layer assembled membranes with immobilized porins. <i>RSC Advances</i> , 2017, 7, 56123-56136.	3.6	11

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37	Repressive mutations restore function-loss caused by the disruption of trimerization in Escherichia coli multidrug transporter AcrB. <i>Frontiers in Microbiology</i> , 2015, 6, 4.	3.5	10
38	Study of the degradation of a multidrug transporter using a non-radioactive pulse chase method. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 7745-7751.	3.7	10
39	Binding of small molecules to cavity forming mutants of a <i>de novo</i> designed protein. <i>Protein Science</i> , 2011, 20, 702-711.	7.6	9
40	The ssrA-Tag Facilitated Degradation of an Integral Membrane Protein. <i>Biochemistry</i> , 2016, 55, 2301-2304.	2.5	9
41	Effect of crowding by Ficolls on OmpA and OmpT refolding and membrane insertion. <i>Protein Science</i> , 2013, 22, 239-245.	7.6	8
42	Insight into the AcrAB-TolC Complex Assembly Process Learned from Competition Studies. <i>Antibiotics</i> , 2021, 10, 830.	3.7	8
43	Characterization of a Recombinant Thermostable Dehalogenase Isolated from the Hot Spring Thermophile <i>Sulfolobus tokodaii</i> . <i>Applied Biochemistry and Biotechnology</i> , 2009, 159, 382-393.	2.9	7
44	Dissecting the function of a protruding loop in AcrB trimerization. <i>Journal of Biomolecular Structure and Dynamics</i> , 2013, 31, 385-392.	3.5	7
45	Role of Protein Charge Density on Hepatitis B Virus Capsid Formation. <i>ACS Omega</i> , 2018, 3, 4384-4391.	3.5	7
46	Extracellular Histones Trigger Disseminated Intravascular Coagulation by Lytic Cell Death. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6800.	4.1	7
47	Functional Relevance of AcrB Trimerization in Pump Assembly and Substrate Binding. <i>PLoS ONE</i> , 2014, 9, e89143.	2.5	6
48	Comparison of in vitro and in vivo oligomeric states of a wild type and mutant trimeric inner membrane multidrug transporter. <i>Biochemistry and Biophysics Reports</i> , 2018, 16, 122-129.	1.3	6
49	A dimorphism shift of hepatitis B virus capsids in response to ionic conditions. <i>Nanoscale</i> , 2018, 10, 16984-16989.	5.6	6
50	Aerosol capture and coronavirus spike protein deactivation by enzyme functionalized antiviral membranes. <i>Communications Materials</i> , 2022, 3, .	6.9	6
51	¹ H, ¹³ C and ¹⁵ N resonance assignments of S-824, a <i>de novo</i> four-helix bundle from a designed combinatorial library. <i>Journal of Biomolecular NMR</i> , 2003, 27, 395-396.	2.8	5
52	Unfolding study of a trimeric membrane protein AcrB. <i>Protein Science</i> , 2014, 23, 897-905.	7.6	5
53	Emergence of Two AcrB Substitutions Conferring Multidrug Resistance to <i>Salmonella</i> spp.. <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, .	3.2	5
54	Accumulation and efflux of polychlorinated biphenyls in Escherichia coli. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 2403-2409.	3.7	4

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55	Dual-Functional-Tag-Facilitated Protein Labeling and Immobilization. ACS Omega, 2017, 2, 522-528.	3.5	4
56	Accessibility from the Cytoplasm Is Critical for <i>ssrA</i> Tag-Mediated Degradation of Integral Membrane Proteins by ClpXP Protease. Biochemistry, 2018, 57, 5602-5608.	2.5	4
57	Probing the Dynamics of AcrB Through Disulfide Bond Formation. ACS Omega, 2020, 5, 21844-21852.	3.5	4
58	Distribution of fluoroquinolones in the two aqueous compartments of Escherichia coli. Biochemistry and Biophysics Reports, 2020, 24, 100849.	1.3	4
59	Biotinylation as a tool to enhance the uptake of small molecules in Gram-negative bacteria. PLoS ONE, 2021, 16, e0260023.	2.5	4
60	Probing a myth: does the younger generation of scientists have it easier?. Analytical and Bioanalytical Chemistry, 2012, 403, 2065-2067.	3.7	3
61	Synthesis and biological evaluation of <i>stilbene</i> -based peptoid mimics against the phytopathogenic bacterium <i>Xanthomonas citri</i> pv. <i>citri</i> . Pest Management Science, 2021, 77, 343-353.	3.4	3
62	Application of Fluorescence in Studying Therapeutic Enzymes. Advances in Experimental Medicine and Biology, 2019, 1148, 105-114.	1.6	3
63	Multi-mode localized surface plasmon resonance sensors for compensation of interfering effects. , 2012, , .		1
64	Data on spectrum-based fluorescence resonance energy transfer measurement of E. coli multidrug transporter AcrB. Data in Brief, 2018, 21, 1649-1653.	1.0	1
65	Functional Relevance of Unstructured Regions of AcrA, the Periplasmic Adaptor of the Major Multidrug Efflux System in E. coli. FASEB Journal, 2019, 33, 483.12.	0.5	1
66	Enabling technologies in discovery: the 2009 Nobel Prize and its implications in antibiotic design. Analytical and Bioanalytical Chemistry, 2010, 396, 1623-1626.	3.7	0
67	Probing the Dynamic Aspects of AcrB Function through Disulfide Bond Formation. Biophysical Journal, 2020, 118, 528a-529a.	0.5	0
68	Biotinylation as a Tool to Enhance Uptake of Compounds in Gram-negative Bacteria. FASEB Journal, 2021, 35, .	0.5	0
69	Insight into the Multidrug Efflux Pump AcrB Oligomerization Process. FASEB Journal, 2011, 25, 932.9.	0.5	0
70	Folding of individual subunits of AcrB before trimerization. FASEB Journal, 2011, 25, .	0.5	0
71	Study of Multidrug Efflux System Protein Degradation in E. coli Using Transposons Library. FASEB Journal, 2019, 33, 463.9.	0.5	0
72	Transport Across Two Membrane Bilayers in E. coli by Efflux Pumps of Different Dimensions. Journal of Molecular Biology, 2022, 434, 167376.	4.2	0