

Shaorong Chong

List of Publications by Year in descending order

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38
papers

2,803
citations

257450

24
h-index

345221

36
g-index

39
all docs

39
docs citations

39
times ranked

2708
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-column purification of free recombinant proteins using a self-cleavable affinity tag derived from a protein splicing element. <i>Gene</i> , 1997, 192, 271-281.	2.2	579
2	Cas13d Is a Compact RNA-Targeting Type VI CRISPR Effector Positively Modulated by a WYL-Domain-Containing Accessory Protein. <i>Molecular Cell</i> , 2018, 70, 327-339.e5.	9.7	356
3	Functionally diverse type V CRISPR-Cas systems. <i>Science</i> , 2019, 363, 88-91.	12.6	342
4	Protein Splicing Involving the <i>Saccharomyces cerevisiae</i> VMA Intein. <i>Journal of Biological Chemistry</i> , 1996, 271, 22159-22168.	3.4	233
5	Characterization of a self-splicing mini-intein and its conversion into autocatalytic N- and C-terminal cleavage elements: facile production of protein building blocks for protein ligation. <i>Gene</i> , 1999, 231, 1-13.	2.2	204
6	Modulation of Protein Splicing of the <i>Saccharomyces cerevisiae</i> Vacuolar Membrane ATPase Intein. <i>Journal of Biological Chemistry</i> , 1998, 273, 10567-10577.	3.4	158
7	Protein Splicing of the <i>Saccharomyces cerevisiae</i> VMA Intein without the Endonuclease Motifs. <i>Journal of Biological Chemistry</i> , 1997, 272, 15587-15590.	3.4	108
8	[24] Fusions to self-splicing inteins for protein purification. <i>Methods in Enzymology</i> , 2000, 326, 376-418.	1.0	74
9	Overview of Cell-Free Protein Synthesis: Historic Landmarks, Commercial Systems, and Expanding Applications. <i>Current Protocols in Molecular Biology</i> , 2014, 108, 16.30.1-11.	2.9	63
10	A comparative study of protein synthesis in in vitro systems: from the prokaryotic reconstituted to the eukaryotic extract-based. <i>BMC Biotechnology</i> , 2008, 8, 58.	3.3	53
11	In vitro genetic reconstruction of bacterial transcription initiation by coupled synthesis and detection of RNA polymerase holoenzyme. <i>Nucleic Acids Research</i> , 2010, 38, e141-e141.	14.5	47
12	Reconstitution of translation from <i>Thermus thermophilus</i> reveals a minimal set of components sufficient for protein synthesis at high temperatures and functional conservation of modern and ancient translation components. <i>Nucleic Acids Research</i> , 2012, 40, 7932-7945.	14.5	45
13	tRNA-Guanine Transglycosylase from <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 1993, 231, 489-497.	4.2	43
14	Intein-Mediated Rapid Purification of Cre Recombinase. <i>Protein Expression and Purification</i> , 2001, 22, 135-140.	1.3	43
15	Intein-mediated protein purification of fusion proteins expressed under high-cell density conditions in <i>E. coli</i> . <i>Journal of Biotechnology</i> , 2006, 125, 48-56.	3.8	38
16	Visualization of coupled protein folding and binding in bacteria and purification of the heterodimeric complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 478-483.	7.1	37
17	Protein Synthesis Using a Reconstituted Cell-Free System. <i>Current Protocols in Molecular Biology</i> , 2014, 108, 16.31.1-22.	2.9	37
18	Construction of a mini-intein fusion system to allow both direct monitoring of soluble protein expression and rapid purification of target proteins. <i>Gene</i> , 2001, 275, 241-252.	2.2	36

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19	Site-directed mutagenesis of Escherichia coli tRNA-Guanine Transglycosylase zinc metalloprotein to identify zinc ligands. <i>Biochemistry</i> , 1995, 34, 3694-3701.	2.5	33
20	Reconstitution of Protein Translation of Mycobacterium Reveals Functional Conservation and Divergence with the Gram-Negative Bacterium Escherichia coli. <i>PLoS ONE</i> , 2016, 11, e0162020.	2.5	33
21	Rapid isolation of antigen-specific B-cells using droplet microfluidics. <i>RSC Advances</i> , 2020, 10, 27006-27013.	3.6	30
22	Serine 90 Is Required for Enzymic Activity by tRNA-Guanine Transglycosylase from Escherichia coli. <i>Biochemistry</i> , 1994, 33, 7041-7046.	2.5	29
23	Quantifying Elongation Rhythm during Full-Length Protein Synthesis. <i>Journal of the American Chemical Society</i> , 2013, 135, 11322-11329.	13.7	26
24	Label-free single-cell protein quantification using a drop-based mix-and-read system. <i>Scientific Reports</i> , 2015, 5, 12756.	3.3	26
25	Engineered Cas12i2 is a versatile high-efficiency platform for therapeutic genome editing. <i>Nature Communications</i> , 2022, 13, .	12.8	18
26	X-ray Absorption Spectroscopy of the Zinc Site in tRNA-Guanine Transglycosylase from Escherichia coli. <i>Biochemistry</i> , 1996, 35, 3133-3139.	2.5	16
27	Engineering Bacterial Transcription Regulation To Create a Synthetic <i>in Vitro</i> Two-Hybrid System for Protein Interaction Assays. <i>Journal of the American Chemical Society</i> , 2014, 136, 14031-14038.	13.7	16
28	Bottom-up single-molecule strategy for understanding subunit function of tetrameric β -galactosidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8346-8351.	7.1	14
29	A mix-and-read drop-based <i>in vitro</i> two-hybrid method for screening high-affinity peptide binders. <i>Scientific Reports</i> , 2016, 6, 22575.	3.3	12
30	Simulation of Large-Scale Production of a Soluble Recombinant Protein Expressed in Escherichia coli Using an Intein-Mediated Purification System. <i>Applied Biochemistry and Biotechnology</i> , 2005, 126, 093-118.	2.9	11
31	Study of Protein Splicing and Intein-Mediated Peptide Bond Cleavage under High-Cell-Density Conditions. <i>Biotechnology Progress</i> , 2003, 19, 1085-1090.	2.6	10
32	Productive interaction of chaperones with substrate protein domains allows correct folding of the downstream GFP domain. <i>Gene</i> , 2005, 350, 25-31.	2.2	9
33	One-pot system for synthesis, assembly, and display of functional single-span membrane proteins on oil-water interfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 608-613.	7.1	8
34	Cysteine 265 is in the active site of, but is not essential for catalysis by tRNA-guanine transglycosylase (TGT) from Escherichia coli. <i>The Protein Journal</i> , 1997, 16, 11-17.	1.1	5
35	Harnessing Inteins for Protein Purification and Characterization. , 2005, , 273-292.		5
36	Single-process expression and purification of multiple recombinant proteins through cocultivation and affinity purification. <i>Analytical Biochemistry</i> , 2008, 381, 175-177.	2.4	2

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37	Intein-mediated Protein Purification. , 2003, , 172-193.		2
38	Cell-free protein synthesis of CRISPR ribonucleoproteins (RNP). Methods in Enzymology, 2021, 659, 371-389.	1.0	2