Jiantao Guo

List of Publications by Year in descending order

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57	2,336	218677	223800
papers	citations	26 h-index	46 g-index

66	66	66	2502
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Facile System for Encoding Unnatural Amino Acids in Mammalian Cells. Angewandte Chemie - International Edition, 2009, 48, 4052-4055.	13.8	241
2	Genetic Incorporation of a Small, Environmentally Sensitive, Fluorescent Probe into Proteins in Saccharomyces cerevisiae. Journal of the American Chemical Society, 2009, 131, 12921-12923.	13.7	183
3	A Genetically Encoded Fluorescent Probe in Mammalian Cells. Journal of the American Chemical Society, 2013, 135, 12540-12543.	13.7	169
4	Evolution of Amber Suppressor tRNAs for Efficient Bacterial Production of Proteins Containing Nonnatural Amino Acids. Angewandte Chemie - International Edition, 2009, 48, 9148-9151.	13.8	140
5	Siteâ€Specific Incorporation of Methylâ€and Acetylâ€Lysine Analogues into Recombinant Proteins. Angewandte Chemie - International Edition, 2008, 47, 6399-6401.	13.8	113
6	An Expanded Genetic Code in Mammalian Cells with a Functional Quadruplet Codon. ACS Chemical Biology, 2013, 8, 1640-1645.	3.4	94
7	Unnatural Amino Acid Mutagenesis of Fluorescent Proteins. Angewandte Chemie - International Edition, 2012, 51, 10132-10135.	13.8	67
8	Kanosamine Biosynthesis:â€‰ A Likely Source of the Aminoshikimate Pathway's Nitrogen Atom. Journal of the American Chemical Society, 2002, 124, 10642-10643.	13.7	63
9	Expanding the chemistry of fluorescent protein biosensors through genetic incorporation of unnatural amino acids. Molecular BioSystems, 2013, 9, 2961.	2.9	62
10	Engineering Escherichia coli for high-yield geraniol production with biotransformation of geranyl acetate to geraniol under fed-batch culture. Biotechnology for Biofuels, 2016, 9, 58.	6.2	61
11	Addition of an Î±â€Hydroxy Acid to the Genetic Code of Bacteria. Angewandte Chemie - International Edition, 2008, 47, 722-725.	13.8	56
12	Genetic Incorporation of Unnatural Amino Acids into Proteins in Mycobacterium tuberculosis. PLoS ONE, 2010, 5, e9354.	2.5	55
13	Biotechnological production of 1,2,4-butanetriol: An efficient process to synthesize energetic material precursor from renewable biomass. Scientific Reports, 2016, 5, 18149.	3.3	51
14	Construction of a Liveâ€Attenuated HIVâ€1 Vaccine through Genetic Code Expansion. Angewandte Chemie - International Edition, 2014, 53, 4867-4871.	13.8	49
15	Direct biosynthesis of adipic acid from lignin-derived aromatics using engineered Pseudomonas putida KT2440. Metabolic Engineering, 2020, 59, 151-161.	7.0	44
16	Fluorogenic protein labeling using a genetically encoded unstrained alkene. Chemical Science, 2017, 8, 1141-1145.	7.4	42
17	Biosynthesis of 1-Deoxy-1-imino-d-erythrose 4-Phosphate:â€‰ A Defining Metabolite in the Aminoshikimate Pathway. Journal of the American Chemical Society, 2002, 124, 528-529.	13.7	40
18	Synthesis of Aminoshikimic Acid. Organic Letters, 2004, 6, 1585-1588.	4.6	39

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19	Characterization of Carboxylic Acid Reductases for Biocatalytic Synthesis of Industrial Chemicals. ChemBioChem, 2018, 19, 1452-1460.	2.6	39
20	Controlling Multicycle Replication of Live-Attenuated HIV-1 Using an Unnatural Genetic Switch. ACS Synthetic Biology, 2017, 6, 721-731.	3.8	35
21	Metabolic engineering of Escherichia coli for the production of hydroxy fatty acids from glucose. BMC Biotechnology, 2016, 16, 26.	3.3	33
22	Systematic Evolution and Study of UAGN Decoding tRNAs in a Genomically Recoded Bacteria. Scientific Reports, 2016, 6, 21898.	3.3	30
23	Genetic Incorporation of Noncanonical Amino Acids Using Two Mutually Orthogonal Quadruplet Codons. ACS Synthetic Biology, 2019, 8, 1168-1174.	3.8	30
24	Metabolic engineering of Escherichia coli for the de novo stereospecific biosynthesis of 1,2-propanediol through lactic acid. Metabolic Engineering Communications, 2019, 8, e00082.	3.6	30
25	Fluorescent Protein-Based Turn-On Probe through a General Protectionâ€“Deprotection Design Strategy. ACS Sensors, 2017, 2, 961-966.	7.8	29
26	Fine-tuning Interaction between Aminoacyl-tRNA Synthetase and tRNA for Efficient Synthesis of Proteins Containing Unnatural Amino Acids. ACS Synthetic Biology, 2015, 4, 207-212.	3.8	28
27	Stereospecific Microbial Conversion of Lactic Acid into 1,2-Propanediol. ACS Synthetic Biology, 2015, 4, 378-382.	3.8	27
28	Characterization of thermal diffusivity of micro/nanoscale wires by transient photo-electro-thermal technique. Applied Physics A: Materials Science and Processing, 2007, 87, 599-605.	2.3	26
29	Functional genetic encoding of sulfotyrosine in mammalian cells. Nature Communications, 2020, 11, 4820.	12.8	24
30	Improved Photoinduced Fluorogenic Alkeneâ€“Tetrazole Reaction for Protein Labeling. Bioconjugate Chemistry, 2017, 28, 2859-2864.	3.6	23
31	Manipulation of the precursor supply for high-level production of longifolene by metabolically engineered Escherichia coli. Scientific Reports, 2019, 9, 95.	3.3	23
32	Engineering Carboxylic Acid Reductase (CAR) through a Whole-Cell Growth-Coupled NADPH Recycling Strategy. ACS Synthetic Biology, 2020, 9, 1632-1637.	3.8	23
33	Controlling the Replication of a Genomically Recoded HIV-1 with a Functional Quadruplet Codon in Mammalian Cells. ACS Synthetic Biology, 2018, 7, 1612-1617.	3.8	20
34	A genetically encoded cyclobutene probe for labelling of live cells. Chemical Communications, 2017, 53, 10604-10607.	4.1	17
35	Deciphering molecular details in the assembly of alpha-type carboxysome. Scientific Reports, 2018, 8, 15062.	3.3	17
36	Molecular recognition of sulfotyrosine and phosphotyrosine by the Src homology 2 domain. Molecular BioSystems, 2013, 9, 1829.	2.9	14

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37	Evolution of Src Homology 2 (SH2) Domain to Recognize Sulfotyrosine. ACS Chemical Biology, 2016, 11, 2551-2557.	3.4	13
38	Biosynthetic pathway for acrylic acid from glycerol in recombinant Escherichia coli. Applied Microbiology and Biotechnology, 2016, 100, 4901-4907.	3.6	13
39	Analysis of a Sector Crack in a Three-Dimensional Voronoi Polycrystal With Microstructural Stresses. Journal of Applied Mechanics, Transactions ASME, 2000, 67, 50-58.	2.2	12
40	A Proline-Based Phosphine Template for Staudinger Ligation. Organic Letters, 2012, 14, 4694-4697.	4.6	12
41	Sequential binding of large molecules to hairy MOFs. Chemical Communications, 2013, 49, 6641.	4.1	12
42	Genetic Code Expansion Through Quadruplet Codon Decoding. Journal of Molecular Biology, 2022, 434, 167346.	4.2	12
43	Novel Fluorescence-Based Biosensors Incorporating Unnatural Amino Acids. Methods in Enzymology, 2017, 589, 191-219.	1.0	11
44	Engineering and characterization of hybrid carboxylic acid reductases. Journal of Biotechnology, 2019, 304, 52-56.	3.8	11
45	Engineering of a Small Protein Scaffold To Recognize Sulfotyrosine with High Specificity. ACS Chemical Biology, 2021, 16, 1508-1517.	3.4	9
46	Inhibiting Hexamer Disassembly of Human UDP-Glucose Dehydrogenase by Photoactivated Amino Acid Cross-Linking. Biochemistry, 2016, 55, 3157-3164.	2.5	7
47	Genetic encoding of a nonhydrolyzable phosphotyrosine analog in mammalian cells. Chemical Communications, 2022, 58, 5897-5900.	4.1	7
48	Noncanonical amino acid mutagenesis in response to recoding signal-enhanced quadruplet codons. Nucleic Acids Research, 2022, 50, e94-e94.	14.5	7
49	Oxidation-induced generation of a mild electrophile for proximity-enhanced proteinâ€“protein crosslinking. Chemical Communications, 2018, 54, 4172-4175.	4.1	6
50	A photoactivatable Src homology 2 (SH2) domain. RSC Advances, 2016, 6, 51120-51124.	3.6	4
51	Sulfotyrosine dipeptide: Synthesis and evaluation as HIV-entry inhibitor. Bioorganic Chemistry, 2016, 68, 105-111.	4.1	4
52	Synthetic biology approach for the development of conditionally replicating HIV-1 vaccine. Journal of Chemical Technology and Biotechnology, 2017, 92, 455-462.	3.2	4
53	Engineering of a sulfotyrosine-recognizing small protein scaffold for the study of protein tyrosine O-sulfation. Methods in Enzymology, 2019, 622, 67-89.	1.0	4
54	Heterologous Pathway Engineering. , 2016, , 31-52.		4

#	Article	IF	Citations
55	A high throughput approach for the generation of orthogonally interacting protein pairs. Scientific Reports, 2018, 8, 867.	3.3	2
56	Design of fluorescent protein-based sensors through a general protection-deprotection strategy. Methods in Enzymology, 2020, 640, 63-82.	1.0	1
57	Studying Protein Tyrosine O â€Sulfation in Mammalian Cells with Genetically Encoded Sulfotyrosine. Current Protocols, 2021, 1, e301.	2.9	0