Yongzhen Xia

List of Publications by Year in descending order

28 papers	893 citations	567144 15 h-index	501076 28 g-index
28 all docs	28 docs citations	28 times ranked	756 citing authors

#	Article	IF	Citations
1	T5 exonuclease-dependent assembly offers a low-cost method for efficient cloning and site-directed mutagenesis. Nucleic Acids Research, 2019, 47, e15-e15.	6.5	167
2	New insights into the QuikChangeTM process guide the use of Phusion DNA polymerase for site-directed mutagenesis. Nucleic Acids Research, 2015, 43, e12-e12.	6.5	126
3	Sulfide production and oxidation by heterotrophic bacteria under aerobic conditions. ISME Journal, 2017, 11, 2754-2766.	4.4	124
4	<scp>F</scp>is<scp>R</scp> activates Ïƒ⁵⁴â€dependent transcription of sulfideâ€oxidizing genes in <scp>C</scp>upriavidus pinatubonensis<scp>JMP</scp>134. Molecular Microbiology, 2017, 105, 373-384.	1.2	45
5	Escherichia coli Uses Separate Enzymes to Produce H2S and Reactive Sulfane Sulfur From L-cysteine. Frontiers in Microbiology, 2019, 10, 298.	1.5	43
6	OxyR senses sulfane sulfur and activates the genes for its removal in Escherichia coli. Redox Biology, 2019, 26, 101293.	3.9	40
7	Cupriavidus necator H16 Uses Flavocytochrome c Sulfide Dehydrogenase To Oxidize Self-Produced and Added Sulfide. Applied and Environmental Microbiology, 2017, 83, .	1.4	31
8	Sensitive Method for Reliable Quantification of Sulfane Sulfur in Biological Samples. Analytical Chemistry, 2019, 91, 11981-11986.	3.2	29
9	Sulfane Sulfur is an intrinsic signal activating MexRâ€regulated antibiotic resistance in Pseudomonas aeruginosa. Molecular Microbiology, 2020, 114, 1038-1048.	1.2	29
10	Using resonance synchronous spectroscopy to characterize the reactivity and electrophilicity of biologically relevant sulfane sulfur. Redox Biology, 2019, 24, 101179.	3.9	27
11	The Heterotrophic Bacterium Cupriavidus pinatubonensis JMP134 Oxidizes Sulfide to Sulfate with Thiosulfate as a Key Intermediate. Applied and Environmental Microbiology, 2020, 86, .	1.4	26
12	The Complete Pathway for Thiosulfate Utilization in Saccharomyces cerevisiae. Applied and Environmental Microbiology, 2018, 84, .	1.4	21
13	Sulfane sulfurâ€activated actinorhodin production and sporulation is maintained by a natural gene circuit in Streptomyces coelicolor. Microbial Biotechnology, 2020, 13, 1917-1932.	2.0	21
14	Engineered Escherichia coli Nissle 1917 with urate oxidase and an oxygen-recycling system for hyperuricemia treatment. Gut Microbes, 2022, 14, 2070391.	4.3	21
15	Sulfane Sulfur Regulates LasR-Mediated Quorum Sensing and Virulence in Pseudomonas aeruginosa PAO1. Antioxidants, 2021, 10, 1498.	2.2	19
16	Sulfide-quinone oxidoreductase is required for cysteine synthesis and indispensable to mitochondrial health. Redox Biology, 2021, 47, 102169.	3.9	19
17	Synthetic Gene Circuits EnableEscherichia coliTo Use Endogenous H2S as a Signaling Molecule for Quorum Sensing. ACS Synthetic Biology, 2019, 8, 2113-2120.	1.9	17
18	Rhodanese Rdl2 produces reactive sulfur species to protect mitochondria from reactive oxygen species. Free Radical Biology and Medicine, 2021, 177, 287-298.	1.3	17

#	Article	IF	Citations
19	The Mechanisms of Thiosulfate Toxicity against Saccharomyces cerevisiae. Antioxidants, 2021, 10, 646.	2.2	14
20	Elemental Sulfur Inhibits Yeast Growth via Producing Toxic Sulfide and Causing Disulfide Stress. Antioxidants, 2022, 11, 576.	2.2	12
21	Sulfane Sulfur Is a Strong Inducer of the Multiple Antibiotic Resistance Regulator MarR in Escherichia coli. Antioxidants, 2021, 10, 1778.	2.2	9
22	Rhodaneses minimize the accumulation of cellular sulfane sulfur to avoid disulfide stress during sulfide oxidation in bacteria. Redox Biology, 2022, 53, 102345.	3.9	9
23	The pathway of recombining short homologous ends in Escherichia coli revealed by the genetic study. Molecular Microbiology, 2021, 115, 1309-1322.	1.2	7
24	A Red Fluorescent Protein-Based Probe for Detection of Intracellular Reactive Sulfane Sulfur. Antioxidants, 2020, 9, 985.	2.2	5
25	Escherichia coli BW25113 Competent Cells Prepared Using a Simple Chemical Method Have Unmatched Transformation and Cloning Efficiencies. Frontiers in Microbiology, 2022, 13, 838698.	1.5	5
26	Sulfane Sulfur Posttranslationally Modifies the Global Regulator AdpA to Influence Actinorhodin Production and Morphological Differentiation of Streptomyces coelicolor. MBio, 2022, 13, e0386221.	1.8	5
27	Optimization of a Method for Detecting Intracellular Sulfane Sulfur Levels and Evaluation of Reagents That Affect the Levels in Escherichia coli. Antioxidants, 2022, 11, 1292.	2.2	3
28	Saccharomyces cerevisiae Rhodanese RDL2 Uses the Arg Residue of the Active-Site Loop for Thiosulfate Decomposition. Antioxidants, 2021, 10, 1525.	2.2	2