Yizhi Song

List of Publications by Year
in descending order

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29 papers	996 citations	394421 19 h-index	552781 26 g-index
30 all docs	30 docs citations	30 times ranked	1067 citing authors

#	Article	IF	Citations
1	Optimization of Bacterial Whole Cell Bioreporters for Toxicity Assay of Environmental Samples. Environmental Science & Technology, 2009, 43, 7931-7938.	10.0	84
2	Raman activated cell sorting. Current Opinion in Chemical Biology, 2016, 33, 1-8.	6.1	83
3	Reverse and Multiple Stable Isotope Probing to Study Bacterial Metabolism and Interactions at the Single Cell Level. Analytical Chemistry, 2016, 88, 9443-9450.	6.5	72
4	Singleâ€cell genomics based on Raman sorting reveals novel carotenoidâ€containing bacteria in the Red Sea. Microbial Biotechnology, 2017, 10, 125-137.	4.2	72
5	Raman-Deuterium Isotope Probing for in-situ identification of antimicrobial resistant bacteria in Thames River. Scientific Reports, 2017, 7, 16648.	3.3	69
6	Ramanâ€activated cell sorting and metagenomic sequencing revealing carbonâ€fixing bacteria in the ocean. Environmental Microbiology, 2018, 20, 2241-2255.	3.8	62
7	Ultrasound-mediated DNA transfer for bacteria. Nucleic Acids Research, 2007, 35, e129-e129.	14.5	60
8	Raman Deuterium Isotope Probing Reveals Microbial Metabolism at the Single-Cell Level. Analytical Chemistry, 2017, 89, 13305-13312.	6.5	51
9	Development of a Fast Raman-Assisted Antibiotic Susceptibility Test (FRAST) for the Antibiotic Resistance Analysis of Clinical Urine and Blood Samples. Analytical Chemistry, 2021, 93, 5098-5106.	6.5	45
10	Application of a bacterial whole cell biosensor for the rapid detection of cytotoxicity in heavy metal contaminated seawater. Chemosphere, 2018, 200, 322-329.	8.2	44
11	Microbial degradation of organophosphorus pesticides: novel degraders, kinetics, functional genes, and genotoxicity assessment. Environmental Science and Pollution Research, 2019, 26, 21668-21681.	5.3	41
12	A whole-cell bioreporter approach for the genotoxicity assessment of bioavailability of toxic compounds in contaminated soil in China. Environmental Pollution, 2014, 195, 178-184.	7.5	40
13	Effect of Laser Irradiation on Cell Function and Its Implications in Raman Spectroscopy. Applied and Environmental Microbiology, 2018, 84, .	3.1	40
14	Characterization and identification of microplastics using Raman spectroscopy coupled with multivariate analysis. Analytica Chimica Acta, 2022, 1197, 339519.	5.4	39
15	Raman profiling of embryo culture medium to identify aneuploid and euploid embryos. Fertility and Sterility, 2019, 111, 753-762.e1.	1.0	33
16	Use of a whole-cell bioreporter, Acinetobacter baylyi, to estimate the genotoxicity and bioavailability of chromium(VI)-contaminated soils. Biotechnology Letters, 2015, 37, 343-348.	2.2	29
17	Whole-cell bioreporters for evaluating petroleum hydrocarbon contamination. Critical Reviews in Environmental Science and Technology, 2021, 51, 272-322.	12.8	29
18	Single cell biotechnology to shed a light on biological â€˜dark matterâ€™ in nature. Microbial Biotechnology, 2015, 8, 15-16.	4.2	20

#	Article	IF	Citations
19	Monitoring Cr toxicity and remediation processes - combining a whole-cell bioreporter and Cr isotope techniques. Water Research, 2019, 153, 295-303.	11.3	20
20	Ultrasensitive SERS Analysis of Liquid and Gaseous Putrescine and Cadaverine by a 3D-Rosettelike Nanostructure-Decorated Flexible Porous Substrate. Analytical Chemistry, 2022, 94, 5273-5283.	6.5	17
21	Proteorhodopsin Overproduction Enhances the Long-Term Viability of Escherichia coli. Applied and Environmental Microbiology, 2019, 86, .	3.1	12
22	In Vitro Anticancer Drug Sensitivity Sensing through Single-Cell Raman Spectroscopy. Biosensors, 2021, 11, 286.	4.7	9
23	The influence of carbon sources on the expression of the recA gene and genotoxicity detection by an Acinetobacter bioreporter. Environmental Sciences: Processes and Impacts, 2015, 17, 835-843.	3.5	7
24	Single Cell Raman Spectroscopy Deuterium Isotope Probing for Rapid Antimicrobial Susceptibility Test of Elizabethkingia spp.. Frontiers in Microbiology, 2022, 13, 876925.	3.5	5
25	Application of Bacterial Whole-Cell Biosensors in Health. , 2022, , 945-961.		4
26	Lysophosphatidic Acid Receptor 6 (LPAR6) Is a Potential Biomarker Associated with Lung Adenocarcinoma. International Journal of Environmental Research and Public Health, 2021, 18, 11038.	2.6	3
27	TRPV1, a novel biomarker associated with lung cancer via excluding immune infiltration. MedComm, 2022, 3, .	7.2	3
28	Redesign of ultrasensitive and robust RecA gene circuit to sense DNA damage. Microbial Biotechnology, 2021, 14, 2481-2496.	4.2	2
29	Application of Bacterial Whole-Cell Biosensors in Health. , 2019, , 1-17.		1