

Lei Cheng

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Enhancing Extracellular Electron Transfer of <i>Shewanella oneidensis</i> MR-1 through Coupling Improved Flavin Synthesis and Metal-Reducing Conduit for Pollutant Degradation. <i>Environmental Science & Technology</i> , 2017, 51, 5082-5089.	10.0	141
2	Formation mechanism of organo-chromium (III) complexes from bioreduction of chromium (VI) by <i>Aeromonas hydrophila</i> . <i>Environment International</i> , 2019, 129, 86-94.	10.0	81
3	Rapid Release of Arsenite from Roxarsone Bioreduction by Exoelectrogenic Bacteria. <i>Environmental Science and Technology Letters</i> , 2017, 4, 350-355.	8.7	58
4	Promoting bidirectional extracellular electron transfer of <i>Shewanella oneidensis</i> MR-1 for hexavalent chromium reduction via elevating intracellular cAMP level. <i>Biotechnology and Bioengineering</i> , 2020, 117, 1294-1303.	3.3	48
5	Anaerobic reduction of 2,6-dinitrotoluene by <i>Shewanella oneidensis</i> MR-1: Roles of Mtr respiratory pathway and NfnB. <i>Biotechnology and Bioengineering</i> , 2017, 114, 761-768.	3.3	35
6	Transgenerational effects of diesel particulate matter on <i>Caenorhabditis elegans</i> through maternal and multigenerational exposure. <i>Ecotoxicology and Environmental Safety</i> , 2019, 170, 635-643.	6.0	33
7	TiO ₂ nanoparticles enhance bioaccumulation and toxicity of heavy metals in <i>Caenorhabditis elegans</i> via modification of local concentrations during the sedimentation process. <i>Ecotoxicology and Environmental Safety</i> , 2018, 162, 160-169.	6.0	29
8	Developing a base editing system to expand the carbon source utilization spectra of <i>Shewanella oneidensis</i> MR-1 for enhanced pollutant degradation. <i>Biotechnology and Bioengineering</i> , 2020, 117, 2389-2400.	3.3	29
9	Biogenic Synthesis of Pd-Based Nanoparticles with Enhanced Catalytic Activity. <i>ACS Applied Nano Materials</i> , 2018, 1, 1467-1475.	5.0	25
10	Continuous degradation of ciprofloxacin in a manganese redox cycling system driven by <i>Pseudomonas putida</i> MnB-1. <i>Chemosphere</i> , 2018, 211, 345-351.	8.2	24
11	Framework of Cytochrome/Vitamin B ₂ Linker/Graphene for Robust Microbial Electricity Generation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 35090-35098.	8.0	22
12	CRISPRi System as an Efficient, Simple Platform for Rapid Identification of Genes Involved in Pollutant Transformation by <i>Aeromonas hydrophila</i> . <i>Environmental Science & Technology</i> , 2020, 54, 3306-3315.	10.0	21
13	Dependence of arsenic resistance and reduction capacity of <i>Aeromonas hydrophila</i> on carbon substrate. <i>Journal of Hazardous Materials</i> , 2021, 403, 123611.	12.4	19
14	Potential regulates metabolism and extracellular respiration of electroactive <i>Geobacter</i> biofilm. <i>Biotechnology and Bioengineering</i> , 2019, 116, 961-971.	3.3	17
15	Graphene oxide antagonizes the toxic response to arsenic via activation of protective autophagy and suppression of the arsenic-binding protein LEC-1 in <i>Caenorhabditis elegans</i> . <i>Environmental Science: Nano</i> , 2018, 5, 1711-1728.	4.3	16
16	Parental exposure to TiO ₂ NPs promotes the multigenerational reproductive toxicity of Cd in <i>Caenorhabditis elegans</i> via bioaccumulation of Cd in germ cells. <i>Environmental Science: Nano</i> , 2019, 6, 1332-1342.	4.3	16
17	Engineering a Rhamnose-Inducible System to Enhance the Extracellular Electron Transfer Ability of <i>Shewanella</i> Genus for Improved Cr(VI) Reduction. <i>ACS ES&T Engineering</i> , 2021, 1, 842-850.	7.6	14
18	Nest site selection and its implications for conservation of the endangered Oriental Stork <i>Ciconia boyciana</i> in Yellow River Delta, China. <i>Bird Conservation International</i> , 2020, 30, 323-334.	1.3	13

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19	Ligand-Assisted Formation of Soluble Mn(III) and Bixbyite-like Mn ₂ O ₃ by <i>Shewanella putrefaciens</i> CN32. <i>Environmental Science & Technology</i> , 2022, 56, 3812-3820.	10.0	13
20	Sensing and Approaching Toxic Arsenate by <i>Shewanella putrefaciens</i> CN-32. <i>Environmental Science & Technology</i> , 2019, 53, 14604-14611.	10.0	12
21	Extracellular electron transfer via multiple electron shuttles in waterborne <i>Aeromonas hydrophila</i> for bioreduction of pollutants. <i>Biotechnology and Bioengineering</i> , 2021, 118, 4760-4770.	3.3	7
22	Electron transfer via the non-Mtr respiratory pathway from <i>Shewanella putrefaciens</i> CN-32 for methyl orange bioreduction. <i>Process Biochemistry</i> , 2020, 95, 108-114.	3.7	6
23	Deteriorated biofilm-forming capacity and electroactivity of <i>Shewanella oneidensis</i> MR-1 induced by insertion sequence (IS) elements. <i>Biosensors and Bioelectronics</i> , 2020, 156, 112136.	10.1	6
24	Modulation of the lifespan of <i>C. elegans</i> by the controlled release of nitric oxide. <i>Chemical Science</i> , 2020, 11, 8785-8792.	7.4	5
25	Do Geese Facilitate or Compete with Wintering Hooded Cranes (<i>Grus monacha</i>) for Forage Resources?. <i>Diversity</i> , 2020, 12, 105.	1.7	5
26	Unveiling the chemotactic response and mechanism of <i>Shewanella oneidensis</i> MR-1 to nitrobenzene. <i>Journal of Hazardous Materials</i> , 2022, 431, 128629.	12.4	5
27	Anaerobic Respiration on Nitarsone in Aquatic Environments by <i>Shewanella oneidensis</i> MR-1 Lacking Known C ₄ As lyases. <i>ACS ES&T Water</i> , 2021, 1, 603-612.	4.6	2