Simultaneous bioprecipitation of cadmium to cadmium sulfide nanoparticles and nitrogen fixation by Rhodopseudomonas palustris TN110

DOI: 10.1016/j.chemosphere.2019.02.051
Chemosphere, 2019, 223, 455-464.

#	Paper	IF	Citations
30	Extracellular biosynthesis of cadmium sulphide quantum dot using cell-free extract of Pseudomonas chlororaphis CHR05 and its antibacterial activity. *Process Biochemistry*, **2020**, 89, 63-70	4.8	6
29	Potential of Mn2+-Resistant Purple Nonsulfur Bacteria Isolated from Acid Sulfate Soils to Act as Bioremediators and Plant Growth Promoters via Mechanisms of Resistance. *Journal of Soil Science and Plant Nutrition*, **2020**, 20, 2364-2378	3.2	5
28	Highly efficient nitrate and phosphorus removal and adsorption of tetracycline by precipitation in a chitosan/polyvinyl alcohol immobilized bioreactor. *Bioprocess and Biosystems Engineering*, **2020**, 43, 1761-1771	3.7	7
27	Cadmium sulfide nanoparticles-assisted intimate coupling of microbial and photoelectrochemical processes: Mechanisms and environmental applications. *Science of the Total Environment*, **2020**, 740, 140080	10.2	20
26	Marine Microbial Response to Heavy Metals: Mechanism, Implications and Future Prospect. *Bulletin of Environmental Contamination and Toxicology*, **2020**, 105, 182-197	2.7	3
25	Bacterially-assisted recovery of cadmium and nickel as their metal sulfide nanoparticles from spent Ni-Cd battery via hydrometallurgical route. *Journal of Environmental Management*, **2020**, 261, 110113	7.9	10
24	A newly isolated bacterium Comamonas sp. XL8 alleviates the toxicity of cadmium exposure in rice seedlings by accumulating cadmium. *Journal of Hazardous Materials*, **2021**, 403, 123824	12.8	8
23	Heavy metal removal using microbial bioremediation techniques. **2021**, 649-673		
22	Bioelectrochemical systems for managing the metals issues. **2021**, 41-82		
21	Genome Assessment. **2021**, 51-86		1
20	Biophotoelectrochemistry for renewable energy and environmental applications. *IScience*, **2021**, 24, 102828	5.8	5
19	Role of nanoparticles in crop improvement and abiotic stress management. *Journal of Biotechnology*, **2021**, 337, 57-70	3.7	17
18	Facet-Dependent Photoinduced Transformation of Cadmium Sulfide (CdS) Nanoparticles. *Environmental Science & Technology*, **2021**, 55, 13132-13141	10.3	1
17	The Microbiology of Metal Mine Waste: Bioremediation Applications and Implications for Planetary Health. *GeoHealth*, **2021**, 5, e2020GH000380	5	5
16	Two strains of Luteovulum sphaeroides (purple nonsulfur bacteria) promote rice cultivation in saline soils by increasing available phosphorus. *Rhizosphere*, **2021**, 20, 100456	3.5	1
15	Sustainable and efficient technologies for removal and recovery of toxic and valuable metals from wastewater: Recent progress, challenges, and future perspectives.. *Chemosphere*, **2021**, 292, 133102	8.4	6
14	Lignin-Based CdS Dots as Multifunctional Platforms for Sensing and Wearable Photodynamic Coatings. *ACS Applied Nano Materials*,	5.6	2

13	Ultrafine multi-metal (Zn, Cd, Pb) sulfide aggregates formation in periodically water-logged organic soil.. *Science of the Total Environment*, **2022**, 153308	10.2	0
12	Microbe-mediated transformation of metal sulfides: Mechanisms and environmental significance.. *Science of the Total Environment*, **2022**, 153767	10.2	3
11	Photobiocatalytic Solar Fuel and Solar Chemical Conversion: Sufficient Activity and Better Selectivity. *ACS ES&T Engineering*,		1
10	The Critical Role of Environmental Synergies in the Creation of Bionanohybrid Microbes.. *Applied and Environmental Microbiology*, **2022**, e0232121	4.8	
9	Potential of Phototrophic Purple Nonsulfur Bacteria to Fix Nitrogen in Rice Fields.. *Microorganisms*, **2021**, 10,	4.9	3
8	Characteristics and Application of Rhodopseudomonas palustris as a Microbial Cell Factory. *Frontiers in Bioengineering and Biotechnology*, **2022**, 10,	5.8	1
7	Valorization of wastewater to recover value-added products: A comprehensive insight and perspective on different technologies. **2022**, 214, 113957		0
6	A recent development on iron-oxidising bacteria (IOB) applications in water and wastewater treatment. **2022**, 49, 103109		0
5	Facet-specific cation exchange and heterogeneous transformation of cadmium sulfide nanoparticles induced by Cu(II).		0
4	Characterization of CdSe QDs biosynthesized by a recombinant Rhodopseudomonas palustris. **2023** , 191, 108771		0
3	The Effect of Inorganic Fertilizer and Biofertilizer Applications on Some Quality and Biochemical Properties of Safflower (Carthamus tinctorius L.). 740-753		0
2	Scalable Solar-Driven Chemical Production by Semiconductor Biohybrids Synthesized from Wastewater Pollutants.		0
1	Semiconductor augumented valuable chemical photosynthesis fromRhodospirillum rubrumand mechanism study.		0