Tom Eng Hennebel

List of Publications by Year
in descending order

50 papers	3,586 citations	147801 31 h-index	182427 51 g-index
52 all docs	52 docs citations	52 times ranked	4313 citing authors

#	Article	IF	Citations
1	Selective copper recovery from ammoniacal waste streams using a systematic biosorption process. Chemosphere, 2022, 286, 131935.	8.2	1
2	Electrified bioreactors: the next powerâ€up for biometallurgical wastewater treatment. Microbial Biotechnology, 2022, 15, 755-772.	4.2	7
3	Sustainable Metal Recovery from Secondary Resources: Screening and Kinetic Studies Using Analogue Heterotrophic Metabolites. Waste and Biomass Valorization, 2021, 12, 2703-2721.	3.4	2
4	Selective leaching of copper and zinc from primary ores and secondary mineral residues using biogenic ammonia. Journal of Hazardous Materials, 2021, 403, 123842.	12.4	28
5	Stainless steel substrate pretreatment effects on copper nucleation and stripping during copper electrowinning. Journal of Applied Electrochemistry, 2021, 51, 219-233.	2.9	9
6	Effect of speciation and composition on the kinetics and precipitation of arsenic sulfide from industrial metallurgical wastewater. Journal of Hazardous Materials, 2021, 409, 124418.	12.4	49
7	Bioleaching of metals from secondary materials using glycolipid biosurfactants. Minerals Engineering, 2021, 163, 106665.	4.3	14
8	Citrate-Mediated Hydrometallurgical Lead Extraction and Integrated Electrochemical Recovery from Zinc Leaching Residue. ACS Sustainable Chemistry and Engineering, 2021, 9, 9282-9288.	6.7	7
9	Conjoint bioleaching and zinc recovery from an iron oxide mineral residue by a continuous electrodialysis system. Hydrometallurgy, 2020, 195, 105409.	4.3	10
10	Microalgae: a sustainable adsorbent with high potential for upconcentration of indium(<scp>iii</scp>) from liquid process and waste streams. Green Chemistry, 2020, 22, 1985-1995.	9.0	14
11	Selective electrochemical extraction of REEs from NdFeB magnet waste at room temperature. Green Chemistry, 2018, 20, 1065-1073.	9.0	50
12	Concomitant Leaching and Electrochemical Extraction of Rare Earth Elements from Monazite. Environmental Science & Technology, 2017, 51, 1654-1661.	10.0	98
13	Biological Recovery of Platinum Complexes from Diluted Aqueous Streams by Axenic Cultures. PLoS ONE, 2017, 12, e0169093.	2.5	29
14	Platinum recovery from industrial process streams by halophilic bacteria: Influence of salt species and platinum speciation. Water Research, 2016, 105, 436-443.	11.3	17
15	Effect of oxidation and catalytic reduction of trace organic contaminants on their activated carbon adsorption. Chemosphere, 2016, 165, 191-201.	8.2	17
16	Platinum Recovery from Synthetic Extreme Environments by Halophilic Bacteria. Environmental Science & Technology, 2016, 50, 2619-2626.	10.0	28
17	Modular Advanced Oxidation Process Enabled by Cathodic Hydrogen Peroxide Production. Environmental Science & Technology, 2015, 49, 7391-7399.	10.0	114
18	Recovery of critical metals using biometallurgy. Current Opinion in Biotechnology, 2015, 33, 327-335.	6.6	160

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19	Biotechnologies for critical raw material recovery from primary and secondary sources: R&D priorities and future perspectives. New Biotechnology, 2015, 32, 121-127.	4.4	111
20	Potential of biogenic hydrogen production for hydrogen driven remediation strategies in marine environments. New Biotechnology, 2014, 31, 445-450.	4.4	7
21	Biogenic Nanopalladium Based Remediation of Chlorinated Hydrocarbons in Marine Environments. Environmental Science & Technology, 2014, 48, 550-557.	10.0	35
22	Anaerobic digestion of molasses by means of a vibrating and non-vibrating submerged anaerobic membrane bioreactor. Biomass and Bioenergy, 2014, 68, 95-105.	5.7	40
23	Biomass retention on electrodes rather than electrical current enhances stability in anaerobic digestion. Water Research, 2014, 54, 211-221.	11.3	133
24	Doping of biogenic Pd catalysts with Au enables dechlorination of diclofenac at environmental conditions. Water Research, 2012, 46, 2718-2726.	11.3	73
25	Transparent exopolymer particle removal in different drinking water production centers. Water Research, 2012, 46, 3603-3611.	11.3	25
26	Operational and technical considerations for microbial electrosynthesis. Biochemical Society Transactions, 2012, 40, 1233-1238.	3.4	76
27	Microbial production and environmental applications of Pd nanoparticles for treatment of halogenated compounds. Current Opinion in Biotechnology, 2012, 23, 555-561.	6.6	68
28	Methanosarcina: The rediscovered methanogen for heavy duty biomethanation. Bioresource Technology, 2012, 112, 1-9.	9.6	661
29	Bioâ€palladium: from metal recovery to catalytic applications. Microbial Biotechnology, 2012, 5, 5-17.	4.2	131
30	Diclofenac and 2â€anilinophenylacetate degradation by combined activity of biogenic manganese oxides and silver. Microbial Biotechnology, 2012, 5, 388-395.	4.2	46
31	Catalytic dechlorination of diclofenac by biogenic palladium in a microbial electrolysis cell. Microbial Biotechnology, 2012, 5, 396-402.	4.2	28
32	Biodeposited Pd/Au bimetallic nanoparticles as novel Suzuki catalysts. Tetrahedron Letters, 2012, 53, 1410-1412.	1.4	62
33	Biogenic Palladium Enhances Diatrizoate Removal from Hospital Wastewater in a Microbial Electrolysis Cell. Environmental Science & Technology, 2011, 45, 5737-5745.	10.0	60
34	Biogenic metals for the oxidative and reductive removal ofÂpharmaceuticals, biocides and iodinated contrast media inÂaÂpolishing membrane bioreactor. Water Research, 2011, 45, 1763-1773.	11.3	99
35	Virus disinfection in water by biogenic silver immobilized in polyvinylidene fluoride membranes. Water Research, 2011, 45, 1856-1864.	11.3	107
36	Biosupported Bimetallic Pdâ€“Au Nanocatalysts for Dechlorination of Environmental Contaminants. Environmental Science & Technology, 2011, 45, 8506-8513.	10.0	99

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37	Dehalogenation of environmental pollutants in microbial electrolysis cells with biogenic palladium nanoparticles. Biotechnology Letters, 2011, 33, 89-95.	2.2	39
38	Biocatalytic dechlorination of hexachlorocyclohexane by immobilized bio-Pd in a pilot scale fluidized bed reactor. Environmental Chemistry Letters, 2011, 9, 417-422.	16.2	23
39	Palladium nanoparticles produced by fermentatively cultivated bacteria as catalyst for diatrizoate removal with biogenic hydrogen. Applied Microbiology and Biotechnology, 2011, 91, 1435-1445.	3.6	79
40	Gold nanoparticle formation using Shewanella oneidensis: a fast biosorption and slow reduction process. Journal of Chemical Technology and Biotechnology, 2011, 86, 547-553.	3.2	43
41	Inactivation of Viruses in Water by Biogenic Silver: Innovative and Environmentally Friendly Disinfection Technique. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	4
42	Biogenic Silver for Disinfection of Water Contaminated with Viruses. Applied and Environmental Microbiology, 2010, 76, 1082-1087.	3.1	142
43	Virus Removal by Biogenic Cerium. Environmental Science & Technology, 2010, 44, 6350-6356.	10.0	30
44	Removal of diatrizoate with catalytically active membranes incorporating microbially produced palladium nanoparticles. Water Research, 2010, 44, 1498-1506.	11.3	61
45	Concomitant Microbial Generation of Palladium Nanoparticles and Hydrogen To Immobilize Chromate. Environmental Science & Technology, 2010, 44, 7635-7640.	10.0	82
46	Biogenic metals in advanced water treatment. Trends in Biotechnology, 2009, 27, 90-98.	9.3	203
47	Biocatalytic dechlorination of trichloroethylene with bioâ€palladium in a pilotâ€scale membrane reactor. Biotechnology and Bioengineering, 2009, 102, 995-1002.	3.3	86
48	Remediation of trichloroethylene by bio-precipitated and encapsulated palladium nanoparticles in a fixed bed reactor. Chemosphere, 2009, 76, 1221-1225.	8.2	60
49	Biological removal of 17Î±-ethinylestradiol by a nitrifier enrichment culture in a membrane bioreactor. Water Research, 2009, 43, 2493-2503.	11.3	97
50	Biological control of the size and reactivity of catalytic Pd(0) produced by Shewanella oneidensis. Antonie Van Leeuwenhoek, 2006, 90, 377-389.	1.7	121