

# Tom Eng Hennebel

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Methanosarcina: The rediscovered methanogen for heavy duty biomethanation. <i>Bioresource Technology</i> , 2012, 112, 1-9.	9.6	661
2	Biogenic metals in advanced water treatment. <i>Trends in Biotechnology</i> , 2009, 27, 90-98.	9.3	203
3	Recovery of critical metals using biometallurgy. <i>Current Opinion in Biotechnology</i> , 2015, 33, 327-335.	6.6	160
4	Biogenic Silver for Disinfection of Water Contaminated with Viruses. <i>Applied and Environmental Microbiology</i> , 2010, 76, 1082-1087.	3.1	142
5	Biomass retention on electrodes rather than electrical current enhances stability in anaerobic digestion. <i>Water Research</i> , 2014, 54, 211-221.	11.3	133
6	Bioâ€palladium: from metal recovery to catalytic applications. <i>Microbial Biotechnology</i> , 2012, 5, 5-17.	4.2	131
7	Biological control of the size and reactivity of catalytic Pd(0) produced by <i>Shewanella oneidensis</i> . <i>Antonie Van Leeuwenhoek</i> , 2006, 90, 377-389.	1.7	121
8	Modular Advanced Oxidation Process Enabled by Cathodic Hydrogen Peroxide Production. <i>Environmental Science &amp; Technology</i> , 2015, 49, 7391-7399.	10.0	114
9	Biotechnologies for critical raw material recovery from primary and secondary sources: R&D priorities and future perspectives. <i>New Biotechnology</i> , 2015, 32, 121-127.	4.4	111
10	Virus disinfection in water by biogenic silver immobilized in polyvinylidene fluoride membranes. <i>Water Research</i> , 2011, 45, 1856-1864.	11.3	107
11	Biogenic metals for the oxidative and reductive removal of pharmaceuticals, biocides and iodinated contrast media in a polishing membrane bioreactor. <i>Water Research</i> , 2011, 45, 1763-1773.	11.3	99
12	Biosupported Bimetallic Pdâ€Au Nanocatalysts for Dechlorination of Environmental Contaminants. <i>Environmental Science &amp; Technology</i> , 2011, 45, 8506-8513.	10.0	99
13	Concomitant Leaching and Electrochemical Extraction of Rare Earth Elements from Monazite. <i>Environmental Science &amp; Technology</i> , 2017, 51, 1654-1661.	10.0	98
14	Biological removal of 17Î±-ethinylestradiol by a nitrifier enrichment culture in a membrane bioreactor. <i>Water Research</i> , 2009, 43, 2493-2503.	11.3	97
15	Biocatalytic dechlorination of trichloroethylene with bioâ€palladium in a pilotâ€scale membrane reactor. <i>Biotechnology and Bioengineering</i> , 2009, 102, 995-1002.	3.3	86
16	Concomitant Microbial Generation of Palladium Nanoparticles and Hydrogen To Immobilize Chromate. <i>Environmental Science &amp; Technology</i> , 2010, 44, 7635-7640.	10.0	82
17	Palladium nanoparticles produced by fermentatively cultivated bacteria as catalyst for diatrizoate removal with biogenic hydrogen. <i>Applied Microbiology and Biotechnology</i> , 2011, 91, 1435-1445.	3.6	79
18	Operational and technical considerations for microbial electrosynthesis. <i>Biochemical Society Transactions</i> , 2012, 40, 1233-1238.	3.4	76

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19	Doping of biogenic Pd catalysts with Au enables dechlorination of diclofenac at environmental conditions. <i>Water Research</i> , 2012, 46, 2718-2726.	11.3	73
20	Microbial production and environmental applications of Pd nanoparticles for treatment of halogenated compounds. <i>Current Opinion in Biotechnology</i> , 2012, 23, 555-561.	6.6	68
21	Biodeposited Pd/Au bimetallic nanoparticles as novel Suzuki catalysts. <i>Tetrahedron Letters</i> , 2012, 53, 1410-1412.	1.4	62
22	Removal of diatrizoate with catalytically active membranes incorporating microbially produced palladium nanoparticles. <i>Water Research</i> , 2010, 44, 1498-1506.	11.3	61
23	Remediation of trichloroethylene by bio-precipitated and encapsulated palladium nanoparticles in a fixed bed reactor. <i>Chemosphere</i> , 2009, 76, 1221-1225.	8.2	60
24	Biogenic Palladium Enhances Diatrizoate Removal from Hospital Wastewater in a Microbial Electrolysis Cell. <i>Environmental Science &amp; Technology</i> , 2011, 45, 5737-5745.	10.0	60
25	Selective electrochemical extraction of REEs from NdFeB magnet waste at room temperature. <i>Green Chemistry</i> , 2018, 20, 1065-1073.	9.0	50
26	Effect of speciation and composition on the kinetics and precipitation of arsenic sulfide from industrial metallurgical wastewater. <i>Journal of Hazardous Materials</i> , 2021, 409, 124418.	12.4	49
27	Diclofenac and 2-aminophenylacetate degradation by combined activity of biogenic manganese oxides and silver. <i>Microbial Biotechnology</i> , 2012, 5, 388-395.	4.2	46
28	Gold nanoparticle formation using <i>Shewanella oneidensis</i> : a fast biosorption and slow reduction process. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 547-553.	3.2	43
29	Anaerobic digestion of molasses by means of a vibrating and non-vibrating submerged anaerobic membrane bioreactor. <i>Biomass and Bioenergy</i> , 2014, 68, 95-105.	5.7	40
30	Dehalogenation of environmental pollutants in microbial electrolysis cells with biogenic palladium nanoparticles. <i>Biotechnology Letters</i> , 2011, 33, 89-95.	2.2	39
31	Biogenic Nanopalladium Based Remediation of Chlorinated Hydrocarbons in Marine Environments. <i>Environmental Science &amp; Technology</i> , 2014, 48, 550-557.	10.0	35
32	Virus Removal by Biogenic Cerium. <i>Environmental Science &amp; Technology</i> , 2010, 44, 6350-6356.	10.0	30
33	Biological Recovery of Platinum Complexes from Diluted Aqueous Streams by Axenic Cultures. <i>PLoS ONE</i> , 2017, 12, e0169093.	2.5	29
34	Catalytic dechlorination of diclofenac by biogenic palladium in a microbial electrolysis cell. <i>Microbial Biotechnology</i> , 2012, 5, 396-402.	4.2	28
35	Platinum Recovery from Synthetic Extreme Environments by Halophilic Bacteria. <i>Environmental Science &amp; Technology</i> , 2016, 50, 2619-2626.	10.0	28
36	Selective leaching of copper and zinc from primary ores and secondary mineral residues using biogenic ammonia. <i>Journal of Hazardous Materials</i> , 2021, 403, 123842.	12.4	28

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37	Transparent exopolymer particle removal in different drinking water production centers. <i>Water Research</i> , 2012, 46, 3603-3611.	11.3	25
38	Biocatalytic dechlorination of hexachlorocyclohexane by immobilized bio-Pd in a pilot scale fluidized bed reactor. <i>Environmental Chemistry Letters</i> , 2011, 9, 417-422.	16.2	23
39	Platinum recovery from industrial process streams by halophilic bacteria: Influence of salt species and platinum speciation. <i>Water Research</i> , 2016, 105, 436-443.	11.3	17
40	Effect of oxidation and catalytic reduction of trace organic contaminants on their activated carbon adsorption. <i>Chemosphere</i> , 2016, 165, 191-201.	8.2	17
41	Microalgae: a sustainable adsorbent with high potential for upconcentration of indium( $\text{In}^{3+}$ ) from liquid process and waste streams. <i>Green Chemistry</i> , 2020, 22, 1985-1995.	9.0	14
42	Bioleaching of metals from secondary materials using glycolipid biosurfactants. <i>Minerals Engineering</i> , 2021, 163, 106665.	4.3	14
43	Conjoint bioleaching and zinc recovery from an iron oxide mineral residue by a continuous electro dialysis system. <i>Hydrometallurgy</i> , 2020, 195, 105409.	4.3	10
44	Stainless steel substrate pretreatment effects on copper nucleation and stripping during copper electrowinning. <i>Journal of Applied Electrochemistry</i> , 2021, 51, 219-233.	2.9	9
45	Potential of biogenic hydrogen production for hydrogen driven remediation strategies in marine environments. <i>New Biotechnology</i> , 2014, 31, 445-450.	4.4	7
46	Citrate-Mediated Hydrometallurgical Lead Extraction and Integrated Electrochemical Recovery from Zinc Leaching Residue. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 9282-9288.	6.7	7
47	Electrified bioreactors: the next powerâ€”up for biometallurgical wastewater treatment. <i>Microbial Biotechnology</i> , 2022, 15, 755-772.	4.2	7
48	Inactivation of Viruses in Water by Biogenic Silver: Innovative and Environmentally Friendly Disinfection Technique. <i>International Conference on Bioinformatics and Biomedical Engineering: [proceedings]</i> International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	4
49	Sustainable Metal Recovery from Secondary Resources: Screening and Kinetic Studies Using Analogue Heterotrophic Metabolites. <i>Waste and Biomass Valorization</i> , 2021, 12, 2703-2721.	3.4	2
50	Selective copper recovery from ammoniacal waste streams using a systematic biosorption process. <i>Chemosphere</i> , 2022, 286, 131935.	8.2	1