

# Phosphorous removal and high-purity struvite recovery spontaneous electricity production in Mg-air fuel cell

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Overview of recent developments of resource recovery from wastewater via electrochemistry-based technologies. <i>Science of the Total Environment</i> , 2021, 757, 143901.	3.9	55
2	The role of resource recovery technologies in reducing the demand of fossil fuels and conventional fossil-based mineral fertilizers. , 2021, , 3-24.		8
3	One water “evolving roles of our precious resource and critical challenges. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2021, 70, 467-482.	0.6	1
4	Recovery of phosphate, magnesium and ammonium from eutrophic water by struvite biomineralization through free and immobilized <i>Bacillus cereus</i> MRR2. <i>Journal of Cleaner Production</i> , 2021, 320, 128796.	4.6	20
5	Enhanced struvite generation and separation by magnesium anode electrolysis coupled with cathode electrodeposition. <i>Science of the Total Environment</i> , 2022, 804, 150101.	3.9	12
6	Recovery of resources from industrial wastewater employing electrochemical technologies: status, advancements and perspectives. <i>Bioengineered</i> , 2021, 12, 4697-4718.	1.4	43
7	AS61 Magnesium Alloy with Nano-Scale Mg <sub>2</sub> Sn Phase as a Novel Anode for Primary Aqueous Magnesium Battery. <i>Journal of the Electrochemical Society</i> , 2021, 168, 100537.	1.3	7
8	The effect of anode degradation on energy demand and production efficiency of electrochemically precipitated struvite. <i>Journal of Applied Electrochemistry</i> , 2022, 52, 205-215.	1.5	6
9	Recovery of phosphate and ammonium nitrogen as struvite from aqueous solutions using a magnesium-air cell system. <i>Science of the Total Environment</i> , 2022, 819, 152006.	3.9	11
10	The discharge performance of an as-extruded Mg-Zn-La-Ce anode for the primary Mg-air battery. <i>Electrochimica Acta</i> , 2022, 404, 139763.	2.6	18
11	Electrochemical nutrient removal from natural wastewater sources and its impact on water quality. <i>Water Research</i> , 2022, 210, 118001.	5.3	11
12	Electrochemically-driven struvite recovery: Prospect and challenges for the application of magnesium sacrificial anode. <i>Separation and Purification Technology</i> , 2022, 288, 120653.	3.9	23
13	Recent progress on the recovery of valuable resources from source-separated urine on-site using electrochemical technologies: A review. <i>Chemical Engineering Journal</i> , 2022, 442, 136200.	6.6	17
14	A novel approach using protein-rich biomass as co-fermentation substrates to enhance phosphorus recovery from FePs-bearing sludge. <i>Water Research</i> , 2022, 218, 118479.	5.3	14
15	Start-up and performance of a downflow fluidised bed reactor for biological treatment of yellow wastewater and nutrient recovery. <i>Water Science and Technology</i> , 2022, 85, 3208-3224.	1.2	1
16	Struvite crystallization by using active serpentine: An innovative application for the economical and efficient recovery of phosphorus from black water. <i>Water Research</i> , 2022, 221, 118678.	5.3	16
17	Integrated electrocoagulation-flotation of microalgae to produce Mg-laden microalgal biochar for seeding struvite crystallization. <i>Scientific Reports</i> , 2022, 12, .	1.6	7
18	Production of struvite by magnesium anode constant voltage electrolytic crystallisation from anaerobically digested chicken manure slurry. <i>Environmental Research</i> , 2022, 214, 113991.	3.7	5

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19	Valorization of wastewater to recover value-added products: A comprehensive insight and perspective on different technologies. <i>Environmental Research</i> , 2022, 214, 113957.	3.7	10
20	Catalytic performance of rGO-Zeolite modified anode in clay biophotovoltaics system for effective urine treatment. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 1160-1174.	3.8	2
21	Development of an effective operation system in a magnesium-air desalination cell for electricity production with nitrogen and phosphorus removal. <i>Desalination</i> , 2023, 545, 116164.	4.0	3
22	An integrated process for struvite recovery and nutrient removal from ship domestic sewage. <i>Water Research</i> , 2023, 228, 119381.	5.3	10
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24	Insights into the promotion of urine-diverting toilets based on the fertilizer efficiency of artificial phosphate ore recovered from source-separated urine. <i>Resources, Conservation and Recycling</i> , 2023, 190, 106807.	5.3	3
25	Revealing and quantifying the effect of cattite coprecipitation on the purity of K-struvite in aqueous solution. <i>Journal of Environmental Chemical Engineering</i> , 2023, 11, 109764.	3.3	1
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28	Self-powered wastewater purification and phosphorus recovery systems with novel self-filtering Al-air batteries. <i>Chemical Engineering Journal</i> , 2023, 460, 141570.	6.6	2
29	Optimization of phosphorus recovery using electrochemical struvite precipitation and comparison with iron electrocoagulation system. <i>Water Environment Research</i> , 2023, 95, .	1.3	1
30	Low-carbon nitrogen removal from power plants circulating cooling water and municipal wastewater by partial denitrification-anammox. <i>Bioresource Technology</i> , 2023, 380, 129071.	4.8	12