Recovery of struvite from hydrothermally processed algal biomass cultivated in urban wastewaters

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#	Paper	IF	Citations
22	Mixotrophic algal system for centrate treatment and resource recovery. *Algal Research*, **2020**, 52, 102087	5	8
21	Gradual Replacement of Ca2+ with Mg2+ Ions in Brushite for the Production of Ca1−xMgxHPO4·nH2O Materials. *Minerals (Basel, Switzerland)*, **2021**, 11, 284	2.4	2
20	Valorization of Byproducts from Hydrothermal Liquefaction of Sewage Sludge and Manure: the Development of a Struvite-Producing Unit for Nutrient Recovery. *Energy & Fuels*, **2021**, 35, 9408-9423	4.1	2
19	Nitrogen-fertilizer recovery from urban sewage via gas permeable membrane: Process analysis, modeling, and intensification. *Chemical Engineering Journal*, **2021**, 411, 128443	14.7	7
18	Maximizing phosphorus recovery as biofertilizer in an algal wastewater treatment system. *Resources, Conservation and Recycling*, **2021**, 170, 105552	11.9	5
17	Techno-economic optimization of phosphorous recovery in an algal-based sewage treatment system. *Bioresource Technology*, **2021**, 332, 125128	11	3
16	Recycle of nitrogen and phosphorus in hydrothermal liquefaction biochar from Galdieria sulphuraria to cultivate microalgae. *Resources, Conservation and Recycling*, **2021**, 171, 105644	11.9	4
15	Enhancing Phosphorus Recovery and Dewaterability of Waste Activated Sludge for Combined Effect of Thermally Activated Peroxydisulfate and Struvite Precipitation. *Sustainability*, **2021**, 13, 9700	3.6	
14	Engineering principles and process designs for phosphorus recovery as struvite: A comprehensive review. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105579	6.8	18
13	Conceptual design and comprehensive analysis for novel municipal sludge gasification-based hydrogen production via plasma gasifier. *Energy Conversion and Management*, **2021**, 245, 114635	10.6	7
12	Biofertilizer recovery from organic solid wastes via hydrothermal liquefaction. *Bioresource Technology*, **2021**, 338, 125497	11	2
11	Phosphorus recovery from wastewater by struvite in response to initial nutrients concentration and nitrogen/phosphorus molar ratio. *Science of the Total Environment*, **2021**, 789, 147970	10.2	4
10	A novel strategy to capture phosphate as high-quality struvite from the sewage sludge ash: Process, mechanism and application. *Journal of Cleaner Production*, **2021**, 322, 129162	10.3	2
9	Arsenic as a contaminant of struvite when recovering phosphorus from phosphogypsum wastewater. *Journal of the Taiwan Institute of Chemical Engineers*, **2021**, 129, 91-91	5.3	0
8	Remove of ammoniacal nitrogen wastewater by ultrasound/Mg/AlO/O. *Chemosphere*, **2021**, 132645	8.4	0
7	Nutrient recovery from wastewater: A review on the integrated Physicochemical technologies of ammonia stripping, adsorption and struvite precipitation. *Chemical Engineering Journal*, **2021**, 133664	14.7	1
6	Modeling and optimization of an algal-based sewage treatment and resource recovery (STaRR) system. *Journal of Environmental Chemical Engineering*, **2022**, 10, 107139	6.8	0

5	Integrated algal-based sewage treatment and resource recovery system. **2022**, 51-80		
4	Evolution of struvite research and the way forward in resource recovery of phosphates through scientometric analysis. *Journal of Cleaner Production*, **2022**, 357, 131737	10.3	0
3	Advancement and Challenges in Municipal Landfill Leachate Treatment□The Path Forward!. **2022**, 2, 1289-1300		0
2	Production of struvite by magnesium anode constant voltage electrolytic crystallisation from anaerobically digested chicken manure slurry. **2022**, 113991		0
1	Multi-criteria evaluation of energy recovery from urban wastewater sludges by anaerobic digestion and hydrothermal liquefaction. **2023**, 11, 109628		0