

# Recent advances in removing phosphorus from wastewater (1997â€“2003)

Water Research

38, 4222-4246

DOI: [10.1016/j.watres.2004.07.014](https://doi.org/10.1016/j.watres.2004.07.014)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Calcium-Induced Virulence Factors Associated with the Extracellular Matrix of Mucoid Pseudomonas aeruginosa Biofilms. <i>Journal of Bacteriology</i> , 2005, 187, 4327-4337.	1.0	194
2	Involvement of Gypsum (CaSO <sub>4</sub> ·2H <sub>2</sub> O) in Water Treatment Sludge Dewatering: A Potential Benefit in Disposal and Reuse. <i>Separation Science and Technology</i> , 2006, 41, 2785-2794.	1.3	34
3	Adsorption Behavior of Phosphate on Metal-Ions-Loaded Collagen Fiber. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 3896-3901.	1.8	67
4	Phosphorus removal from wastewater by mineral apatite. <i>Water Research</i> , 2006, 40, 2965-2971.	5.3	120
5	Treatment processes for source-separated urine. <i>Water Research</i> , 2006, 40, 3151-3166.	5.3	426
6	Kinetics of struvite to newberyite transformation in the precipitation system MgCl <sub>2</sub> ·NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub> ·NaOH·H <sub>2</sub> O. <i>Water Research</i> , 2006, 40, 3447-3455.	5.3	53
7	Study of Phosphorus Removal using Zirconium-Sulfate-Surfactant Mesoporous Material. <i>Journal of Japan Society on Water Environment</i> , 2006, 29, 483-487.	0.1	1
8	Dewatered alum sludge: a potential adsorbent for phosphorus removal. <i>Water Science and Technology</i> , 2006, 54, 207-213.	1.2	139
9	Magnetic Removal of Phosphate from Wastewater Using Schwertmannite. <i>Materials Transactions</i> , 2006, 47, 1832-1837.	0.4	45
10	Nitrogen removal from domestic wastewater using the marshland upwelling system. <i>Ecological Engineering</i> , 2006, 27, 22-36.	1.6	16
11	Batch kinetics of nitrogen and phosphorus removal from synthetic wastewater by algae. <i>Ecological Engineering</i> , 2006, 28, 64-70.	1.6	602
12	Starvation enhances phosphorus removal from wastewater by the microalga <i>Chlorella</i> spp. co-immobilized with <i>Azospirillum brasilense</i> . <i>Enzyme and Microbial Technology</i> , 2006, 38, 190-198.	1.6	138
13	An economic evaluation of phosphorus recovery as struvite from digester supernatant. <i>Bioresource Technology</i> , 2006, 97, 2211-2216.	4.8	307
14	Nitrate removal in a packed bed reactor using volatile fatty acids from anaerobic acidogenesis of food wastes. <i>Biotechnology and Bioprocess Engineering</i> , 2006, 11, 538-543.	1.4	35
15	Ab Initio Molecular Dynamics Studies of Ionic Dissolution and Precipitation of Sodium Chloride and Silver Chloride in Water Clusters, NaCl(H <sub>2</sub> O) <sub>n</sub> and AgCl(H <sub>2</sub> O) <sub>n</sub> , n = 6, 10, and 14. <i>Chemistry - A European Journal</i> , 2006, 12, 6382-6392.	1.7	31
16	Composition of Aqueous Extracts of Broiler Litter Treated with Aluminum Sulfate, Ferrous Sulfate, Ferric Chloride and Gypsum. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2006, 41, 989-1000.	0.7	3
17	Ecology of the Microbial Community Removing Phosphate from Wastewater under Continuously Aerobic Conditions in a Sequencing Batch Reactor. <i>Applied and Environmental Microbiology</i> , 2007, 73, 2257-2270.	1.4	111
18	Coagulation and Precipitation as Post-Treatment of Anaerobically Treated Primary Municipal Wastewater. <i>Water Environment Research</i> , 2007, 79, 131-139.	1.3	17

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19	Struvite crystallisation and recovery using a stainless steel structure as a seed material. <i>Water Research</i> , 2007, 41, 2449-2456.	5.3	76
20	Nutrients removal and recovery by crystallization of magnesium ammonium phosphate from synthetic swine wastewater. <i>Chemosphere</i> , 2007, 69, 319-324.	4.2	141
21	Constructive Approaches Toward Water Treatment Works Sludge Management: An International Review of Beneficial Reuses. <i>Critical Reviews in Environmental Science and Technology</i> , 2007, 37, 129-164.	6.6	346
22	PHOSPHATE SORPTION CHARACTERISTICS OF ZIRCONIUM MESO-STRUCTURE SYNTHESIZED UNDER DIFFERENT CONDITIONS. <i>Environmental Technology (United Kingdom)</i> , 2007, 28, 785-792.	1.2	3
23	Greenhouse Evaluation of Struvite and Sludges from Municipal Wastewater Treatment Works as Phosphorus Sources for Plants. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 8206-8212.	2.4	72
24	The Effect of Citrate and Phosphocitrate On Struvite Spontaneous Precipitation. <i>Crystal Growth and Design</i> , 2007, 7, 2705-2712.	1.4	52
25	Struvite Production from Dairy Wastewater and its Potential as a Fertilizer for Organic Production in Calcareous Soils. , 2007, , .		3
26	Development of an Air Sparged Continuous Flow Reactor for Struvite Precipitation from Two Different Liquid Swine Manure Storage Systems. , 2007, , .		2
27	Reactionâ€Crystallization of Struvite in a Continuous Liquid Jetâ€Pump DTM MSMR Crystallizer with Upward Circulation of Suspension in a Mixing Chamber â€“ an SDG Kinetic Approach. <i>Chemical Engineering and Technology</i> , 2007, 30, 1576-1583.	0.9	14
28	Removal and recovery of phosphorous from swine wastewater by demonstration crystallization reactor and struvite accumulation device. <i>Bioresource Technology</i> , 2007, 98, 1573-1578.	4.8	153
29	Effect of mineral elements on phosphorus release from heated sewage sludge. <i>Bioresource Technology</i> , 2007, 98, 2533-2537.	4.8	15
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31	Phosphate removal from water using lithium intercalated gibbsite. <i>Journal of Hazardous Materials</i> , 2007, 147, 205-212.	6.5	63
32	Comparative study of phosphates removal from aqueous solutions by nanocrystalline akaganite and hybrid surfactant-akaganite. <i>Separation and Purification Technology</i> , 2007, 52, 478-486.	3.9	107
33	Phosphate-solubilization activity of bacterial strains in soil and their effect on soybean growth under greenhouse conditions. <i>Biology and Fertility of Soils</i> , 2007, 43, 805-809.	2.3	153
34	Alginate from the macroalgae <i>Sargassum sinicola</i> as a novel source for microbial immobilization material in wastewater treatment and plant growth promotion. <i>Journal of Applied Phycology</i> , 2007, 19, 43-53.	1.5	85
35	Treatment of mixed domesticâ€“industrial wastewater using cyanobacteria. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2008, 35, 1503-1516.	1.4	66
36	Effects of influent C/N ratio, C/P ratio and volumetric exchange ratio on biological phosphorus removal in UniFed SBR process. <i>Journal of Chemical Technology and Biotechnology</i> , 2008, 83, 1587-1595.	1.6	10

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38	Phosphorus removal from aqueous solution using iron coated natural and engineered sorbents. Journal of Hazardous Materials, 2008, 151, 103-110.	6.5	183
39	Use of magnesit as a magnesium source for ammonium removal from leachate. Journal of Hazardous Materials, 2008, 156, 619-623.	6.5	148
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41	Sewage sludge management for phosphorus recovery as struvite in EBPR wastewater treatment plants. Bioresource Technology, 2008, 99, 4817-4824.	4.8	88
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44	Removal of phosphorus through struvite precipitation using a by-product of magnesium oxide production (BMP): Effect of the mode of BMP preparation. Chemical Engineering Journal, 2008, 136, 204-209.	6.6	54
45	Using low intensity ultrasound to improve the efficiency of biological phosphorus removal. Ultrasonics Sonochemistry, 2008, 15, 775-781.	3.8	57
46	<i>Chlorella sorokiniana</i> UTEX 2805, a heat and intense, sunlight-tolerant microalga with potential for removing ammonium from wastewater. Bioresource Technology, 2008, 99, 4980-4989.	4.8	184
47	Nutrient Removal in Wetlands During Intermittent Artificial Aeration. Environmental Engineering Science, 2008, 25, 1279-1290.	0.8	17
48	Biological Wastewater Treatment Systems. , 2008, , 426-441.		6
49	Phosphorus Removal and Recovery from Municipal Wastewaters. Elements, 2008, 4, 109-112.	0.5	153
50	Phosphate ion removal from a solution by soda-lime borosilicate glass. Journal of Non-Crystalline Solids, 2008, 354, 5009-5013.	1.5	5
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52	Phosphorus removal by acid mine drainage sludge from secondary effluents of municipal wastewater treatment plants. Water Research, 2008, 42, 3275-3284.	5.3	155
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56	Chapter 16 Assessment of phosphorus bioavailability from organic wastes in soil. <i>Developments in Soil Science</i> , 2008, 32, 363-411.	0.5	9
57	Influence of wastewater composition on biological nutrient removal in UniFed SBR process. <i>Water Science and Technology</i> , 2008, 58, 803-810.	1.2	13
58	Retention and Removal of Suspended Solids and Total Phosphorus from Water by Riparian Reeds. <i>Journal of Environmental Engineering, ASCE</i> , 2008, 134, 771-777.	0.7	1
59	Use of Laser Microdissection for Phylogenetic Characterization of Polyphosphate-Accumulating Bacteria. <i>Applied and Environmental Microbiology</i> , 2008, 74, 4231-4235.	1.4	16
60	Phosphorus Sorbing Materials: Sorption Dynamics and Physicochemical Characteristics. <i>Journal of Environmental Quality</i> , 2008, 37, 174-181.	1.0	83
61	Study on the Treatment for High Concentration of Ammonia Nitrogen in Piggery Wastewater by MAP. , 2009, , .		2
62	Nitrate and phosphate removal in sulphur-coral stone autotrophic denitrification packed-bed reactorsA paper submitted to the <i>Journal of Environmental Engineering and Science.. Canadian Journal of Civil Engineering</i> , 2009, 36, 923-932.	0.7	6
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64	Phosphate removal and recovery through crystallization of hydroxyapatite using xonotlite as seed crystal. <i>Journal of Environmental Sciences</i> , 2009, 21, 575-580.	3.2	96
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69	Effect and mechanism of carbon sources on phosphorus uptake by microorganisms in sequencing batch reactors with the single-stage oxic process. <i>Science in China Series B: Chemistry</i> , 2009, 52, 2358-2365.	0.8	5
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71	The probable metabolic relation between phosphate uptake and energy storages formations under single-stage oxic condition. <i>Bioresource Technology</i> , 2009, 100, 4005-4011.	4.8	45
72	Date-palm fibers media filters as a potential technology for tertiary domestic wastewater treatment. <i>Journal of Hazardous Materials</i> , 2009, 161, 608-613.	6.5	65

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74	Preparation of a new sorbent with hydrated lime and blast furnace slag for phosphorus removal from aqueous solution. <i>Journal of Hazardous Materials</i> , 2009, 166, 714-719.	6.5	68
75	Adsorption removal of phosphate in industrial wastewater by using metal-loaded skin split waste. <i>Journal of Hazardous Materials</i> , 2009, 166, 1261-1265.	6.5	86
76	Dose effects of Mg and PO <sub>4</sub> sources on the composting of swine manure. <i>Journal of Hazardous Materials</i> , 2009, 169, 801-807.	6.5	86
77	Biosorption characteristics of phosphates from aqueous solution onto <i>Phoenix dactylifera</i> L. date palm fibers. <i>Journal of Hazardous Materials</i> , 2009, 170, 511-519.	6.5	78
78	Separative recovery with lime of phosphate and fluoride from an acidic effluent containing H <sub>3</sub> PO <sub>4</sub> , HF and/or H <sub>2</sub> SiF <sub>6</sub> . <i>Journal of Hazardous Materials</i> , 2009, 170, 962-968.	6.5	54
79	Evaluation of ammonium removal using a chitosan-g-poly (acrylic acid)/rectorite hydrogel composite. <i>Journal of Hazardous Materials</i> , 2009, 171, 671-677.	6.5	148
80	Removal of phosphate from water by a Fe—Mn binary oxide adsorbent. <i>Journal of Colloid and Interface Science</i> , 2009, 335, 168-174.	5.0	356
81	Investigation of phosphorus desorption from P-saturated alum sludge used as a substrate in constructed wetland. <i>Separation and Purification Technology</i> , 2009, 66, 71-75.	3.9	35
82	Enhanced adsorption removal of phosphate from water by mixed lanthanum/aluminum pillared montmorillonite. <i>Chemical Engineering Journal</i> , 2009, 151, 141-148.	6.6	233
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92	A New Planning and Design Paradigm to Achieve Sustainable Resource Recovery from Wastewater. <i>Environmental Science &amp; Technology</i> , 2009, 43, 6126-6130.	4.6	412
93	Phosphorus Recovery from Wastewater by Struvite Crystallization: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2009, 39, 433-477.	6.6	617
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98	Effectiveness of Recovered Magnesium Phosphates as Fertilizers in Neutral and Slightly Alkaline Soils. <i>Agronomy Journal</i> , 2009, 101, 323-329.	0.9	118
99	Phosphate Ion Removal from Aqueous Solution Using an Iron Oxide-Coated Fly Ash Adsorbent. <i>Adsorption Science and Technology</i> , 2009, 27, 603-614.	1.5	13
100	Potential of Phosphate Ion Removal Using an Al <sup>3+</sup> -Cross-linked Chitosan-g-Poly(Acrylic Acid)/Vermiculite Ionic Hybrid. <i>Adsorption Science and Technology</i> , 2010, 28, 89-99.	1.5	11
101	Phosphorus Removal by Expanded Clay—Six Years of Pilot-Scale Constructed Wetlands Experience. <i>Water Environment Research</i> , 2010, 82, 128-137.	1.3	25
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103	Growth of Quailbush in Acidic, Metalliferous Desert Mine Tailings: Effect of <i>Azospirillum brasilense</i> Sp6 on Biomass Production and Rhizosphere Community Structure. <i>Microbial Ecology</i> , 2010, 60, 915-927.	1.4	42
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105	Removal of phosphate and fluoride from wastewater by a hybrid precipitation—microfiltration process. <i>Separation and Purification Technology</i> , 2010, 74, 329-335.	3.9	122
106	Removal of phosphate by the green seaweed <i>Ulva lactuca</i> in a small-scale sewage treatment plant (Los Tj ETQq1 1 0,784314 42 BT /Over	1.5	42
107	Electrochemical Production of Ferrate (Iron VI): Application to the Wastewater Treatment on a Laboratory Scale and Comparison with Iron (III) Coagulant. <i>Water, Air, and Soil Pollution</i> , 2010, 209, 483-488.	1.1	26
108	Application of struvite precipitation as a pretreatment in treating swine wastewater. <i>Process Biochemistry</i> , 2010, 45, 563-572.	1.8	58

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110	Phosphate removal by hydrothermally modified fumed silica and pulverized oyster shell. <i>Journal of Colloid and Interface Science</i> , 2010, 350, 538-543.	5.0	61
111	Utilisation of phosphorus nutrient content in industrial scale plasmid DNA production: a waste minimisation study. <i>Journal of Cleaner Production</i> , 2010, 18, 1066-1072.	4.6	1
112	Thermodynamic modeling of ferric phosphate precipitation for phosphorus removal and recovery from wastewater. <i>Journal of Hazardous Materials</i> , 2010, 176, 444-450.	6.5	73
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120	Macroscopic and microscopic variation in recovered magnesium phosphate materials: Implications for phosphorus removal processes and product re-use. <i>Bioresource Technology</i> , 2010, 101, 877-885.	4.8	18
121	Immobilized microalgae for removing pollutants: Review of practical aspects. <i>Bioresource Technology</i> , 2010, 101, 1611-1627.	4.8	634
122	The removal of nitrogen and phosphorus from reject water of municipal wastewater treatment plant using ferric and nitrate bioreductions. <i>Bioresource Technology</i> , 2010, 101, 3992-3999.	4.8	65
123	EFFICIENCY OF GROWTH AND NUTRIENT UPTAKE FROM WASTEWATER BY HETEROTROPHIC, AUTOTROPHIC, AND MIXOTROPHIC CULTIVATION OF <i>CHLORELLA</i> VULGARIS IMMOBILIZED WITH <i>AZOSPIRILLUM</i> BRASILENSE. <i>Journal of Phycology</i> , 2010, 46, 800-812.		127
124	Assessment of SCAR markers to design real-time PCR primers for rhizosphere quantification of <i>Azospirillum brasilense</i> phytostimulatory inoculants of maize. <i>Journal of Applied Microbiology</i> , 2010, 109, 528-538.	1.4	37
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138	Effect of Nitrogen and Phosphorus Concentration on Their Removal Kinetic in Treated Urban Wastewater by <i>Chlorella Vulgaris</i> . International Journal of Phytoremediation, 2011, 13, 884-896.	1.7	100
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143	Biologically induced phosphorus precipitation in aerobic granular sludge process. Water Research, 2011, 45, 3776-3786.	5.3	169
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147	Anaerobic Processes. , 2011, , 615-639.		30
148	Biological Wastewater Treatment Systems. , 2011, , 275-290.		19
149	Phosphorus in Water Quality and Waste Management. , 0, , .		19
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1066	Phosphorus Removal from Synthetic Wastewater by Using Palm Oil Clinker as Media in Continuous Activated Sludge. <i>Advances in Science, Technology and Innovation</i> , 2023, , 41-44.	0.2	2
1080	Recovery of phosphorus from industrial wastewater through struvite crystallization. , 2023, , 499-519.		0