# Citation Report
List of articles citing

# Peak Phosphorus: Clarifying the Key Issues of a Vigorous Debate about Long-Term Phosphorus Security

DOI: 10.3390/su3102027
Sustainability, 2011, 3, 2027-2049.

| # | Paper | IF | Citations |
|---|---|---|---|
| 376 | Sustainable Model for Food Production. **2010**, 1-5 | | |
| 375 | The role of diet in phosphorus demand. **2012**, 7, 044043 | | 96 |
| 374 | An Industrial Ecology Approach to the Use of Phosphorus. **2012**, 46, 39-44 | | 8 |
| 373 | The world at a crossroads: Financial scenarios for sustainability. **2012**, 48, 611-617 | | 11 |
| 372 | Phosphorus flows through the Australian food system: Identifying intervention points as a roadmap to phosphorus security. **2013**, 29, 87-102 | | 73 |
| 371 | Efficacy of reactive mineral-based sorbents for phosphate, bacteria, nitrogen and TOC removal--column experiment in recirculation batch mode. **2013**, 47, 5165-75 | | 27 |
| 370 | Inhibition of Aspergillus niger phosphate solubilization by fluoride released from rock phosphate. **2013**, 79, 4906-13 | | 41 |
| 369 | The effects of 55 years of different inorganic fertiliser regimes on soil properties and microbial community composition. **2013**, 67, 41-46 | | 69 |
| 368 | Closing the nutrient cycle by using bio-digestion waste derivatives as synthetic fertilizer substitutes: A field experiment. **2013**, 55, 175-189 | | 75 |
| 367 | The phosphorus trilemma. **2013**, 6, 897-898 | | 83 |
| 366 | Domestic source of phosphorus to sewage treatment works. **2013**, 34, 1349-58 | | 62 |
| 365 | The meat of the global food crisis. **2013**, 40, 65-85 | | 66 |
| 364 | Corporate responsibility, supply chain management and strategy. **2013**, 4, 276-291 | | 18 |
| 363 | Mineral demands: A shortage of fertilizer resources?. **2013**, 493, 163 | | 7 |
| 362 | RNA function and phosphorus use by photosynthetic organisms. **2013**, 4, 536 | | 42 |
| 361 | Crystallization and preliminary X-ray diffraction analysis of a high-affinity phosphate-binding protein endowed with phosphatase activity from Pseudomonas aeruginosa PAO1. **2013**, 69, 1143-6 | | 1 |
| 360 | Peak phosphorus - peak food? The need to close the phosphorus cycle. **2013**, 96, 109-52 | | 10 |

| | | | |
|---|---|---|---|
| 359 | Isolation and identification of phytate-degrading bacteria and their contribution to phytate mineralization in soil. **2013**, 59, 353-60 | | 16 |
| 358 | The Modern Phosphorus Sustainability Movement: A Profiling Experiment. *Sustainability*, **2013**, 5, 4523-4545 | 5545 | 19 |
| 357 | Sustainable Phosphorus Measures: Strategies and Technologies for Achieving Phosphorus Security. **2013**, 3, 86-116 | | 92 |
| 356 | Phosphorus: From the Stars to Land & Sea. **2014**, 143, 9-20 | | 18 |
| 355 | Use of Arbuscular Mycorrhizal Fungal Inocula for Horticultural Crop Production. **2014**, 81-87 | | 2 |
| 354 | Mycorrhizal Fungi: Use in Sustainable Agriculture and Land Restoration. **2014**, | | 14 |
| 353 | Phosphate rock production and depletion: Regional disaggregated modeling and global implications. **2014**, 93, 178-187 | | 61 |
| 352 | Soil: Nutrient Cycling. **2014**, 197-210 | | |
| 351 | Microbial mineralization of struvite: a promising process to overcome phosphate sequestering crisis. **2014**, 54, 33-43 | | 57 |
| 350 | Phosphorus vulnerability: A qualitative framework for assessing the vulnerability of national and regional food systems to the multi-dimensional stressors of phosphorus scarcity. **2014**, 24, 108-122 | | 129 |
| 349 | Biochar enhances Aspergillus niger rock phosphate solubilization by increasing organic acid production and alleviating fluoride toxicity. **2014**, 80, 3081-5 | | 40 |
| 348 | Added-value from innovative value chains by establishing nutrient cycles via struvite. **2014**, 87, 126-136 | | 29 |
| 347 | Pasture plants and soil fertility management to improve the efficiency of phosphorus fertiliser use in temperate grassland systems. **2014**, 65, 556 | | 44 |
| 346 | Environmental impact of recycling nutrients in human excreta to agriculture compared with enhanced wastewater treatment. *Science of the Total Environment*, **2014**, 493, 209-19 | 10.2 | 61 |
| 345 | Life's Bottleneck: Sustaining the World's Phosphorus for a Food Secure Future. **2014**, 39, 161-188 | | 263 |
| 344 | Multi-objective optimization of waste and resource management in industrial networks Part II: Model application to the treatment of sewage sludge. **2014**, 89, 41-51 | | 34 |
| 343 | Evaluation of phosphate removal capacity of Mg/Al layered double hydroxides from aqueous solutions. **2014**, 138, 72-79 | | 79 |
| 342 | Integrating the planetary boundaries and global catastrophic risk paradigms. **2014**, 107, 13-21 | | 23 |

| | | | |
|---|---|---|---|
| 341 | Taking planetary nutrient boundaries seriously: Can we feed the people?. **2014**, 3, 16-21 | | 48 |
| 340 | Facilitating access to the algal economy: Mapping waste resources to identify suitable locations for algal farms in Queensland. **2014**, 86, 47-52 | | 13 |
| 339 | A review of recent substance flow analyses of phosphorus to identify priority management areas at different geographical scales. **2014**, 83, 213-228 | | 92 |
| 338 | On the history of a reoccurring concept: phosphorus scarcity. *Science of the Total Environment*, **2014**, 490, 694-707 | 10.2 | 65 |
| 337 | Sustaining ecosystem services: Overcoming the dilemma posed by local actions and planetary boundaries. **2014**, 2, 407-420 | | 4 |
| 336 | Optimization of Aspergillus niger rock phosphate solubilization in solid-state fermentation and use of the resulting product as a P fertilizer. **2015**, 8, 930-9 | | 35 |
| 335 | Crystal structure of the phosphate-binding protein (PBP-1) of an ABC-type phosphate transporter from Clostridium perfringens. **2014**, 4, 6636 | | 13 |
| 334 | Phosphorus Recycling from an Unexplored Source by Polyphosphate Accumulating Microalgae and Cyanobacteria-A Step to Phosphorus Security in Agriculture. **2015**, 6, 1421 | | 46 |
| 333 | Phosphorus and Defoliation Interact and Improve the Growth and Composition of the Plant Community and Soil Properties in an Alpine Pasture of Qinghai-Tibet Plateau. **2015**, 10, e0141701 | | 6 |
| 332 | Modelling impacts of seasonal wastewater treatment plant effluent permits and biosolid substitution for phosphorus management in catchments and river systems. **2015**, 46, 313-324 | | 4 |
| 331 | The potential for mining trace elements from phosphate rock. **2015**, 91, 337-346 | | 61 |
| 330 | Innovative methods in soil phosphorus research: A review. **2015**, 178, 43-88 | | 189 |
| 329 | Phosphorus management in Europe in a changing world. **2015**, 44 Suppl 2, S180-92 | | 195 |
| 328 | Environmental Benefits and Burdens of Phosphorus Recovery from Municipal Wastewater. **2015**, 49, 8611-22 | | 75 |
| 327 | Modelling spatially explicit impacts from phosphorus emissions in agriculture. **2015**, 20, 785-795 | | 39 |
| 326 | The contribution of household chemicals to environmental discharges via effluents: combining chemical and behavioural data. **2015**, 150, 427-434 | | 21 |
| 325 | Source-separated urine opens golden opportunities for microbial electrochemical technologies. **2015**, 33, 214-20 | | 121 |
| 324 | Sustainable food production: constraints, challenges and choices by 2050. **2015**, 7, 221-233 | | 89 |

| | | | |
|---|---|---|---|
| 323 | Tracking phosphorus security: indicators of phosphorus vulnerability in the global food system. **2015**, 7, 337-350 | | 119 |
| 322 | Application of the Improved City Blueprint Framework in 45 Municipalities and Regions. **2015**, 29, 4629-4647 | | 43 |
| 321 | Drivers for global agricultural land use change: The nexus of diet, population, yield and bioenergy. **2015**, 35, 138-147 | | 195 |
| 320 | Struvite Precipitation Induced by a Novel Sulfate-Reducing Bacterium Acinetobacter calcoaceticus SRB4 Isolated from River Sediment. **2015**, 32, 868-877 | | 16 |
| 319 | Introduction of various cover crop species to improve soil biological P parameters and P uptake of the following crops. **2015**, 103, 15-28 | | 23 |
| 318 | Plant and microbe genomics and beyond: potential for developing a novel molecular plant nutrition approach. **2015**, 37, 1 | | 9 |
| 317 | Use of commercial bio-inoculants to increase agricultural production through improved phosphrous acquisition. *Applied Soil Ecology*, **2015**, 86, 41-54 | 5 | 226 |
| 316 | Potential Impact of Dietary Choices on Phosphorus Recycling and Global Phosphorus Footprints: The Case of the Average Australian City. **2016**, 3, 35 | | 25 |
| 315 | Visualizing Alternative Phosphorus Scenarios for Future Food Security. **2016**, 3, 47 | | 11 |
| 314 | Critical Minerals and Energy□mpacts and Limitations of Moving to Unconventional Resources. **2016**, 5, 19 | | 21 |
| 313 | Transition towards Circular Economy in the Food System. *Sustainability*, **2016**, 8, 69 | 3.6 | 253 |
| 312 | Agroforestry□he Next Step in Sustainable and Resilient Agriculture. *Sustainability*, **2016**, 8, 574 | 3.6 | 59 |
| 311 | A Genetic Relationship between Phosphorus Efficiency and Photosynthetic Traits in Soybean As Revealed by QTL Analysis Using a High-Density Genetic Map. **2016**, 7, 924 | | 33 |
| 310 | Root exudation index: screening organic acid exudation and phosphorus acquisition efficiency in soybean genotypes. **2016**, 67, 1096 | | 36 |
| 309 | Organic Acids in the Rhizosphere: Their Role in Phosphate Dissolution. **2016**, 165-177 | | 2 |
| 308 | Sustainable nutrients recovery and recycling by optimizing the chemical addition sequence for struvite precipitation from raw swine slurries. **2016**, 180, 52-8 | | 18 |
| 307 | Phosphorus in soils and plants □acing phosphorus scarcity. **2016**, 401, 1-6 | | 51 |
| 306 | Natural and Constructed Wetlands. **2016**, | | 4 |

| | | | |
|---|---|---|---|
| 305 | Resource-Efficient High-Yield Ionothermal Synthesis of Microcrystalline Cu3-xP. **2016**, 55, 8844-51 | | 17 |
| 304 | Added Values of Time Series in Material Flow Analysis: The Austrian Phosphorus Budget from 1990 to 2011. **2016**, 20, 1334-1348 | | 29 |
| 303 | Phosphate rock: origin, importance, environmental impacts, and future roles. **2016**, 24, 403-415 | | 22 |
| 302 | A review of potential critical factors in horse keeping for anaerobic digestion of horse manure. **2016**, 65, 432-442 | | 13 |
| 301 | Deciphering the relationship among phosphate dynamics, electron-dense body and lipid accumulation in the green alga Parachlorella kessleri. **2016**, 6, 25731 | | 38 |
| 300 | Hulled and hull-less barley grains with the genetic trait for low-phytic acid increased the apparent total-tract digestibility of phosphorus and calcium in diets for young swine. **2016**, 94, 1000-11 | | 2 |
| 299 | Phosphorus flows in Berlin-Brandenburg, a regional flow analysis. **2016**, 112, 1-14 | | 25 |
| 298 | Phosphorus recovery as struvite: Recent concerns for use of seed, alternative Mg source, nitrogen conservation and fertilizer potential. **2016**, 107, 142-156 | | 174 |
| 297 | Reuse of fish pond sediments as fertilizer for fodder grass production in Bangladesh: Potential for sustainable intensification and improved nutrition. **2016**, 216, 226-236 | | 38 |
| 296 | Clay minerals, iron/aluminum oxides, and their contribution to phosphate sorption in soils □A myth revisited. **2016**, 262, 213-226 | | 222 |
| 295 | Key sustainability challenges for the global phosphorus resource, their implications for global food security, and options for mitigation. **2017**, 140, 945-963 | | 144 |
| 294 | Mains water leakage: Implications for phosphorus source apportionment and policy responses in catchments. *Science of the Total Environment*, **2017**, 579, 702-708 | 10.2 | 17 |
| 293 | Organic amendments as phosphorus fertilisers: Chemical analyses, biological processes and plant P uptake. **2017**, 107, 50-59 | | 35 |
| 292 | Influence of low pH on continuous anaerobic digestion of waste activated sludge. **2017**, 113, 42-49 | | 74 |
| 291 | Recovering Nitrogen as a Solid without Chemical Dosing: Bio-Electroconcentration for Recovery of Nutrients from Urine. **2017**, 4, 119-124 | | 81 |
| 290 | Seaweed aquaculture in Norway: recent industrial developments and future perspectives. **2017**, 25, 1373-1390 | | 109 |
| 289 | Catalytic Dephosphorylation Using Ceria Nanocrystals. **2017**, 7, 1931-1938 | | 62 |
| 288 | Phosphorus acquisition by three wheat cultivars contrasting in aluminium tolerance growing in an aluminium-rich volcanic soil. **2017**, 68, 305 | | 20 |

| | | | |
|---|---|---|---|
| 287 | Universal quinone electrodes for long cycle life aqueous rechargeable batteries. **2017**, 16, 841-848 | | 432 |
| 286 | Recovery of Inorganic Phosphorus Using Copper-Substituted ZSM-5. **2017**, 5, 6192-6200 | | 5 |
| 285 | Cleaner Chinese lakes. **2017**, 10, 469-470 | | 5 |
| 284 | Belowground solutions to global challenges: special issue from the 9th symposium of the International Society of Root Research. **2017**, 412, 1-5 | | 4 |
| 283 | Carbon and phosphorus footprint of the cotton production in Xinjiang, China, in comparison to an alternative fibre (Apocynum) from Central Asia. **2017**, 148, 490-497 | | 23 |
| 282 | Adjustable N:P2O5 Ratio Urea Phosphate Fertilizers for Sustainable Phosphorus and Nitrogen Use: Liquid Phase Equilibria via Solubility Measurements and Raman Spectroscopy. **2017**, 5, 1747-1754 | | 6 |
| 281 | Recovery of phosphorus via harvesting phosphorus-accumulating granular sludge in sequencing batch airlift reactor. **2017**, 224, 87-93 | | 6 |
| 280 | Integrating QTL mapping and transcriptomics identifies candidate genes underlying QTLs associated with soybean tolerance to low-phosphorus stress. **2017**, 93, 137-150 | | 39 |
| 279 | Phosphate fertilization strategies for soybean production after conversion of a degraded pastureland to a no-till cropping system. **2017**, 308, 120-129 | | 11 |
| 278 | Nutrient Limitation and Uptake. **2017**, 147-171 | | 22 |
| 277 | Towards phosphorus sustainability in North America: A model for transformational change. **2017**, 77, 151-159 | | 38 |
| 276 | Single-walled carbon nanotubes as stabilizing agents in red phosphorus Li-ion battery anodes. **2017** , 7, 39997-40004 | | 17 |
| 275 | Phosphite: a novel P fertilizer for weed management and pathogen control. **2017**, 15, 1493-1508 | | 60 |
| 274 | Effect of the temperature and the porosity of the gettering process on the removal of heavy metals from Tunisian phosphate rock. **2017**, 7, 4189-4194 | | 2 |
| 273 | THE ROLE OF THE PHYTOMICROBIOME IN MAINTAINING BIOFUEL CROP PRODUCTION IN A CHANGING CLIMATE. **2017**, 1-24 | | |
| 272 | Soil phosphorus dynamics along a loess□mestone transect in Mihla, Thuringia (Germany). **2017**, 180, 768-778 | | 5 |
| 271 | Isolation of Leclercia adcarboxglata Strain JLS1 from Dolostone Sample and Characterization of its Induced Struvite Minerals. **2017**, 34, 500-510 | | 15 |
| 270 | Biosorbent, a promising material for remediation of eutrophic environments: studies in microcosm. *Environmental Science and Pollution Research*, **2017**, 24, 2685-2696 | 5.1 | 3 |

| | | | |
|---|---|---|---|
| 269 | Nutrient supply to organic agriculture as governed by EU regulations and standards in six European countries. **2017**, 7, 395-418 | | 14 |
| 268 | Arbuscular Mycorrhizal Fungi Improve Tolerance of Agricultural Plants to Cope Abiotic Stress Conditions. **2017**, 55-80 | | 5 |
| 267 | Increasing gap in human height between rich and poor countries associated to their different intakes of N and P. **2017**, 7, 17671 | | 10 |
| 266 | Support Phosphorus Recycling Policy with Social Life Cycle Assessment: A Case of Japan. *Sustainability*, **2017**, 9, 1223 | 3.6 | 14 |
| 265 | The Climate-Independent Need for Renewable Energy in the 21st Century. **2017**, 10, 1197 | | 17 |
| 264 | Long-Term Rock Phosphate Fertilization Impacts the Microbial Communities of Maize Rhizosphere. **2017**, 8, 1266 | | 38 |
| 263 | Global Phosphorus Fertilizer Market and National Policies: A Case Study Revisiting the 2008 Price Peak. **2017**, 4, 22 | | 20 |
| 262 | Evaluation of Animal Manure Composition for Protection of Sensitive Water Supplies Through Nutrient Recovery Processes. **2017**, 469-509 | | 4 |
| 261 | Conflictos socio-ambientales en la sociedad moderna: aportes de la ecolog pol ica Latinoamericana y la teor de la acci comunicativa. **2017**, 24, | | |
| 260 | Assessing the Availability of Terrestrial Biotic Materials in Product Systems (BIRD). *Sustainability*, **2017**, 9, 137 | 3.6 | 15 |
| 259 | Atom Conversion Efficiency: A New Sustainability Metric Applied to Nitrogen and Phosphorus Use in Agriculture. **2018**, 6, 4453-4463 | | 21 |
| 258 | Ecologically relevant phosphorus pools in soils and their dynamics: The story so far. **2018**, 325, 183-194 | | 63 |
| 257 | Assessing the ability to combine hyperspectral imaging (HSI) data with Mineral Liberation Analyzer (MLA) data to characterize phosphate rocks. **2018**, 69, 1-12 | | 10 |
| 256 | Smart Fertilizers as a Strategy for Sustainable Agriculture. **2018**, 147, 119-157 | | 87 |
| 255 | Macro- and Secondary Elements and Their Role in Human Health. **2018**, 257-315 | | |
| 254 | Morphological and Symbiotic Root Modifications for Mineral Acquisition from Nutrient-Poor Soils. **2018**, 85-142 | | 3 |
| 253 | Feebates for dealing with trade-offs on fertilizer subsidies: A conceptual framework for environmental management. **2018**, 189, 898-909 | | 17 |
| 252 | Tailoring hydroxyapatite nanoparticles to increase their efficiency as phosphorus fertilisers in soils. **2018**, 323, 116-125 | | 29 |

| | | | |
|---|---|---|---|
| 251 | On the limitation of evidence-based policy: Regulatory narratives and land application of biosolids/sewage sludge in BC, Canada and Sweden. **2018**, 84, 88-96 | | 17 |
| 250 | Long-term soil accumulation of potentially toxic elements and selected organic pollutants through application of recycled phosphorus fertilizers for organic farming conditions. **2018**, 110, 427-449 | | 31 |
| 249 | Harvest to harvest: Recovering nutrients with New Sanitation systems for reuse in Urban Agriculture. **2018**, 128, 426-437 | | 65 |
| 248 | Effect of two moisture regimes on P-release from P treated soils. **2018**, 64, 419-429 | | 1 |
| 247 | Phosphorus recovery and reuse by pyrolysis: Applications for agriculture and environment. *Chemosphere*, **2018**, 194, 682-691 | 8.4 | 56 |
| 246 | Lactic acid fermentation of human excreta for agricultural application. **2018**, 206, 890-900 | | 13 |
| 245 | Elemental composition and phosphorus availability in hydrochars from seaweed and organic waste digestate. **2018**, 68, 57-66 | | 2 |
| 244 | Recovery of Phosphorus and other Nutrients during Pyrolysis of Chicken Manure. *Agriculture (Switzerland)*, **2018**, 8, 187 | 3 | 14 |
| 243 | Sustainable Mineral Resource Management: Insights into the Case of Phosphorus. *Sustainability*, **2018**, 10, 2732 | 3.6 | 6 |
| 242 | Global phosphorus recovery from wastewater for agricultural reuse. **2018**, 22, 5781-5799 | | 27 |
| 241 | Key Development Factors of Hydrothermal Processes in Germany by 2030: A Fuzzy Logic Analysis. **2018**, 11, 3532 | | 7 |
| 240 | Earth Systems Thinking: Global Consumerism, Climate Change, and the Spiritual Value of the Earth. **2018**, 7, 35 | | 2 |
| 239 | Phosphorus Competition in Bioinduced Vivianite Recovery from Wastewater. **2018**, 52, 13863-13870 | | 46 |
| 238 | Influence of Hydrothermal Carbonization on Composition, Formation and Elimination of Biphenyls, Dioxins and Furans in Sewage Sludge. **2018**, 11, 1582 | | 11 |
| 237 | A Model for the Optimal Recovery of Multiple Substances from Waste Water with a Focus on Phosphate. *Sustainability*, **2018**, 10, 2867 | 3.6 | 2 |
| 236 | Transcriptional response of rice flag leaves to restricted external phosphorus supply during grain filling in rice cv. IR64. **2018**, 13, e0203654 | | 3 |
| 235 | On the Sustainability and Progress of Energy Neutral Mineral Processing. *Sustainability*, **2018**, 10, 235 | 3.6 | 10 |
| 234 | Enhancing soluble phosphate concentration in sludge liquor by pressurised anaerobic digestion. **2018**, 145, 660-666 | | 11 |

| | | | |
|---|---|---|---|
| 233 | Balancing the Global Distribution of Phosphorus With a View Toward Sustainability and Equity. **2018**, 32, 904-908 | | 9 |
| 232 | Mapping phosphorus hotspots in Sydney's organic wastes: a spatially explicit inventory to facilitate urban phosphorus recycling. **2018**, 4, | | 5 |
| 231 | Comparing the primary energy and phosphorus consumption of soybean and seaweed-based aquafeed proteins – A material and substance flow analysis. **2018**, 200, 1142-1153 | | 16 |
| 230 | Phosphorus Supply Chains—Scientific, Technical, and Economic Foundations: A Transdisciplinary Orientation. *Sustainability*, **2018**, 10, 1087 | 3.6 | 17 |
| 229 | Ten Years of Sustainability (2009 to 2018): A Bibliometric Overview. *Sustainability*, **2018**, 10, 1655 | 3.6 | 63 |
| 228 | An Assessment of the Drivers and Barriers for the Deployment of Urban Phosphorus Recovery Technologies: A Case Study of The Netherlands. *Sustainability*, **2018**, 10, 1790 | 3.6 | 29 |
| 227 | Sustainable Land Use, Soil Protection and Phosphorus Management from a Cross-National Perspective. *Sustainability*, **2018**, 10, 1988 | 3.6 | 17 |
| 226 | Acid phosphatase gene GmHAD1 linked to low phosphorus tolerance in soybean, through fine mapping. **2018**, 131, 1715-1728 | | 14 |
| 225 | Dynamics and Molecular Mechanism of Phosphate Binding to a Biomimetic Hexapeptide. **2018**, 52, 10472-10478 | | |
| 224 | Nanoporous Sorbents for the Removal and Recovery of Phosphorus from Eutrophic Waters: Sustainability Challenges and Solutions. **2018**, 6, 12542-12561 | | 41 |
| 223 | Rhizophagus Clarus and Phosphorus in Crotalaria juncea: Growth, Glomalin Content and Acid Phosphatase Activity in a Copper-Contaminated Soil. **2018**, 42, | | 3 |
| 222 | Improved Phosphorus Recycling in Organic Farming: Navigating Between Constraints. **2018**, 159-237 | | 55 |
| 221 | Filling two needs with one deed: Potentials to simultaneously improve phosphorus and nitrogen management in Austria as an example for coupled resource management systems. *Science of the Total Environment*, **2018**, 640-641, 894-907 | 10.2 | 7 |
| 220 | Circular Economy: Bridging the Gap Between Phosphorus Recovery and Recycling. **2019**, 45-57 | | 3 |
| 219 | Optimization of wheat straw co-composting for carrier material development. **2019**, 98, 37-49 | | 19 |
| 218 | Enhancing nutrient recycling from excreta to meet crop nutrient needs in Sweden - a spatial analysis. **2019**, 9, 10264 | | 20 |
| 217 | Effects of phosphate-solubilizing bacteria on phosphorous release and sorption on montmorillonite. **2019**, 181, 105227 | | 11 |
| 216 | Dynamics need space – A geospatial approach to soil phosphorus' reactions and migration. **2019**, 354, 113775 | | 14 |

| | | | |
|---|---|---|---|
| 215 | Environmental and health co-benefits for advanced phosphorus recovery. **2019**, 2, 1051-1061 | | 43 |
| 214 | Self-Powered Bioelectrochemical Nutrient Recovery for Fertilizer Generation from Human Urine. *Sustainability*, **2019**, 11, 5490 | 3.6 | 24 |
| 213 | Excess phosphorus from compost applications in urban gardens creates potential pollution hotspots. **2019**, 1, 091007 | | 9 |
| 212 | Three-stage treatment for nitrogen and phosphorus recovery from human urine: Hydrolysis, precipitation and vacuum stripping. **2019**, 249, 109435 | | 19 |
| 211 | Nutrient Recovery by Bio-Electroconcentration is Limited by Wastewater Conductivity. **2019**, 4, 2152-2159 | | 18 |
| 210 | Phosphorous in the environment: characteristics with distribution and effects, removal mechanisms, treatment technologies, and factors affecting recovery as minerals in natural and engineered systems. *Environmental Science and Pollution Research*, **2019**, 26, 20183-20207 | 5.1 | 29 |
| 209 | Future oil extraction in Ecuador using a Hubbert approach. **2019**, 182, 520-534 | | 8 |
| 208 | Phenotypic and molecular characterization of rice germplasm lines and identification of novel source for low soil phosphorus tolerance in rice. **2019**, 215, 1 | | 11 |
| 207 | Understanding feedbacks between economic decisions and the phosphorus resource cycle: A general equilibrium model including material flows. **2019**, 61, 311-347 | | 7 |
| 206 | Making Phosphorus Fertilizer from Dairy Wastewater with Aluminum Water Treatment Residuals. **2019**, 83, 649-657 | | 9 |
| 205 | The use of rapid, small-scale column tests to determine the efficiency of bauxite residue as a low-cost adsorbent in the removal of dissolved reactive phosphorus from agricultural waters. **2019**, 241, 273-283 | | 12 |
| 204 | Phosphate Recovery as a Topic for Practical and Interdisciplinary Chemistry Learning. **2019**, 96, 2952-2958 | | 7 |
| 203 | Sludge from wastewater treatment plants. **2019**, 3-30 | | 6 |
| 202 | Future Options for Sewage and Drainage Systems Three Scenarios for Transitions and Continuity. *Sustainability*, **2019**, 11, 1383 | 3.6 | 3 |
| 201 | Facile processing of Microchloropsis salina biomass for phosphate recycle. **2019**, 40, 101498 | | 1 |
| 200 | Leaving the 'sustainability or collapse' narrative behind. **2019**, 14, 1717-1728 | | 9 |
| 199 | Peak phosphorus, demand trends and implications for the sustainable management of phosphorus in China. **2019**, 146, 316-328 | | 15 |
| 198 | Phosphorus recovery in an acidic environment using layer-by-layer modified membranes. **2019**, 582, 254-263 | | 25 |

| | | | |
|---|---|---|---|
| 197 | The effect of pH on morphological and physiological root traits of Lupinus angustifolius treated with struvite as a recycled phosphorus source. **2019**, 434, 65-78 | | 24 |
| 196 | Three-dimensional ultrastructure and hyperspectral imaging of metabolite accumulation and dynamics in Haematococcus and Chlorella. **2019**, 68, 57-68 | | 3 |
| 195 | Long-term trajectories of human civilization. **2019**, 21, 53-83 | | 28 |
| 194 | Biomass and Phosphorus Accumulation and Partitioning of Geranium and Coleus in Response to Phosphorus Availability and Growth Phase. **2019**, 9, 813 | | 5 |
| 193 | Selection of arbuscular mycorrhizal fungi for sugarcane in four soils with the presence of dark septate endophytes. **2019**, 42, e42477 | | 5 |
| 192 | Technological Challenges of Phosphorus Removal in High-Phosphorus Ores: Sustainability Implications and Possibilities for Greener Ore Processing. *Sustainability*, **2019**, 11, 6787 | 3.6 | 5 |
| 191 | Agro-Environmental Benefit and Risk of Manure- and Bone Meal-Derived Pyrogenic Carbonaceous Materials as Soil Amendments: Availability of PAHs, PTEs, and P. **2019**, 9, 802 | | 2 |
| 190 | Microbial mineralization of struvite: Salinity effect and its implication for phosphorus removal and recovery. *Chemical Engineering Journal*, **2019**, 358, 1324-1331 | 14.7 | 27 |
| 189 | Phosphate-Loaded Hydrogel Nanoparticles for Sepsis Prevention Prepared via Inverse Miniemulsion Polymerization. **2019**, 13, 1800066 | | 7 |
| 188 | Evaluation of Soil Re-mineralizer from By-Product of Volcanic Rock Mining: Experimental Proof Using Black Oats and Maize Crops. **2020**, 29, 1583-1600 | | 12 |
| 187 | Characterization of Poultry Litter Ash in View of Its Valorization. *Waste and Biomass Valorization*, **2020**, 11, 5333-5348 | 3.2 | 8 |
| 186 | Sustainable Production Cases. **2020**, 281-373 | | 1 |
| 185 | Opening access to the black box: The need for reporting on the global phosphorus supply chain. **2020**, 49, 881-891 | | 13 |
| 184 | A Phosphorus Flow Analysis of Brazil. **2020**, 37, 148-163 | | 3 |
| 183 | Anthropogenic global shifts in biospheric N and P concentrations and ratios and their impacts on biodiversity, ecosystem productivity, food security, and human health. **2020**, 26, 1962 | | 50 |
| 182 | Phosphorus speciation and fertiliser performance characteristics: A comparison of waste recovered struvites from global sources. **2020**, 362, 114096 | | 18 |
| 181 | Effects of Irrigation with Fish Farm Effluent on Nutrient Content of Basil and Purslane. **2020**, 90, 825-831 | | 2 |
| 180 | Evidence that tolerance of Eutrema salsugineum to low phosphate conditions is hard-wired by constitutive metabolic and root-associated adaptations. **2019**, 251, 18 | | 4 |

| | | | |
|---|---|---|---|
| 179 | Why ecological economics needs to return to its roots: The biophysical foundation of socio-economic systems. **2020**, 169, 106567 | | 22 |
| 178 | Nutrient conversion and recovery from wastewater using electroactive bacteria. *Science of the Total Environment*, **2020**, 706, 135690 | 10.2 | 29 |
| 177 | Global phosphorus supply chain dynamics: Assessing regional impact to 2050. **2020**, 26, 100426 | | 18 |
| 176 | Effect of the shear rate and supersaturation on the nucleation and growth of struvite in batch stirred tank reactors. **2020**, 38, 101657 | | 2 |
| 175 | Human urine-based fertilizers: A review. **2020**, 1-47 | | 14 |
| 174 | Marker assisted improvement of low soil phosphorus tolerance in the bacterial blight resistant, fine-grain type rice variety, Improved Samba Mahsuri. **2020**, 10, 21143 | | 5 |
| 173 | Effectiveness of struvite precipitation and ammonia stripping for recovery of phosphorus and nitrogen from anaerobic digestate: a systematic review. **2020**, 9, | | 17 |
| 172 | Red phosphorus decorated electrospun carbon anodes for high efficiency lithium ion batteries. **2020**, 10, 13233 | | 8 |
| 171 | Recovery of Phosphorus from Waste Water Profiting from Biological Nitrogen Treatment: Upstream, Concomitant or Downstream Precipitation Alternatives. **2020**, 10, 1039 | | 15 |
| 170 | Fish and fish waste-based fertilizers in organic farming - With status in Norway: A review. **2020**, 115, 95-112 | | 35 |
| 169 | Modeling Water Flow and Phosphorus Sorption in a Soil Amended with Sewage Sludge and Olive Pomace as Compost or Biochar. **2020**, 10, 1163 | | 4 |
| 168 | Towards optimal use of phosphorus fertiliser. **2020**, 10, 17804 | | 5 |
| 167 | Morphological and molecular screening of rice germplasm lines for low soil P tolerance. **2020**, 30, 275 | | 1 |
| 166 | Genome-wide association study for phosphate deficiency responsive root hair elongation in chickpea. **2020**, 20, 775-786 | | 4 |
| 165 | Emerging electrochemical processes for materials recovery from wastewater: Mechanisms and prospects. **2020**, 14, 1 | | 13 |
| 164 | Modified Biochar: A Tool for Wastewater Treatment. **2020**, 13, 5270 | | 5 |
| 163 | Establishing nationally representative benchmarks of farm-gate nitrogen and phosphorus balances and use efficiencies on Irish farms to encourage improvements. *Science of the Total Environment*, **2020**, 720, 137245 | 10.2 | 6 |
| 162 | Let's Make White Phosphorus Obsolete. *ACS Central Science*, **2020**, 6, 848-860 | 16.8 | 31 |

| | | | |
|---|---|---|---|
| 161 | Nutrients Enrichment and Process Repercussions in Hybrid Microfiltration Osmotic Membrane Bioreactor: A Guideline for Forward Osmosis Development Based on Lab-Scale Experience. **2020**, 12, 1098 | | 1 |
| 160 | Can wastewater feed cities? Determining the feasibility and environmental burdens of struvite recovery and reuse for urban regions. *Science of the Total Environment*, **2020**, 737, 139783 | 10.2 | 15 |
| 159 | Identification and quantification of main anthropogenic stocks and flows of potassium in Brazil. *Environmental Science and Pollution Research*, **2020**, 27, 32579-32593 | 5.1 | 6 |
| 158 | Five pillars for stakeholder analyses in sustainability transformations: The global case of phosphorus. **2020**, 107, 80-89 | | 12 |
| 157 | Bioeconomy for Beginners. **2020**, | | 1 |
| 156 | Resource Dynamo: A GIS model to match urban nutrient supply with agricultural demand. **2020**, 258, 120789 | | 5 |
| 155 | Using waste as resource to realize a circular economy: Circular use of C, N and P. **2020**, 23, 61-66 | | 10 |
| 154 | Cover Cropping May Alter Legacy Phosphorus Dynamics Under Long-Term Fertilizer Addition. **2020**, 8, | | 11 |
| 153 | Pathogenic and Non-Pathogenic Fungal Communities in Wheat Grain as Influenced by Recycled Phosphorus Fertilizers: A Case Study. *Agriculture (Switzerland)*, **2020**, 10, 239 | 3 | 3 |
| 152 | Phosphorus recovery from municipal wastewater via a two-step process of ozonation and crystallization: process development, optimization and upscaling. *Environmental Science: Water Research and Technology*, **2020**, 6, 817-828 | 4.2 | 4 |
| 151 | Phosphorus Phytoavailability upon Nanoparticle Application. **2020**, 41-61 | | 1 |
| 150 | Mycorrhizas for a changing world: Sustainability, conservation, and society. **2020**, 2, 98-103 | | 8 |
| 149 | Resource recovery from wastewaters using microalgae-based approaches: A circular bioeconomy perspective. **2020**, 302, 122817 | | 105 |
| 148 | Product and cost perspectives of phosphorus recovery from human urine using solid waste ash and sea salt addition - A case of Thailand. *Science of the Total Environment*, **2020**, 713, 136514 | 10.2 | 7 |
| 147 | The shift of phosphorus transfers in global fisheries and aquaculture. **2020**, 11, 355 | | 16 |
| 146 | Application of andesite rock as a clean source of fertilizer for eucalyptus crop: Evidence of sustainability. **2020**, 256, 120432 | | 21 |
| 145 | Sustainable Chemistry: Solubilization of Phosphorus from Insoluble Phosphate Material Hydroxyapatite with Ozonized Biochar. **2020**, 8, 7068-7077 | | 2 |
| 144 | Continuous Flow Organophosphorus Chemistry. **2020**, 2020, 5236-5277 | | 9 |

| | | | |
|---|---|---|---|
| 143 | Non-destructive spatial analysis of phosphatase activity and total protein distribution in the rhizosphere using a root blotting method. **2020**, 146, 107820 | | 3 |
| 142 | A review and meta-analysis of the agricultural potential of struvite as a phosphorus fertilizer. **2020**, 84, 653-671 | | 20 |
| 141 | Nutrient Dynamics and Plant Response in Soil to Organic Chicken Manure-Based Fertilizers. *Waste and Biomass Valorization*, **2021**, 12, 371-382 | 3.2 | 5 |
| 140 | Calibration of maize phosphorus status by plant-available soil P assessed by common and process-based approaches. Is it soil-specific or not?. **2021**, 122, 126174 | | 3 |
| 139 | Waste-to-energy conversion technologies in the UK: Processes and barriers □A review. **2021**, 135, 110226 | | 27 |
| 138 | Microbial consortium increases maize productivity and reduces grain phosphorus concentration under field conditions. **2021**, 28, 232-237 | | 6 |
| 137 | Phosphorus recovery and recycling - closing the loop. **2021**, 50, 87-101 | | 51 |
| 136 | Life Cycle Assessment of Urine Diversion and Conversion to Fertilizer Products at the City Scale. **2021**, 55, 593-603 | | 15 |
| 135 | Key advances in biocatalytic phosphorylations in the last two decades: Biocatalytic syntheses in vitro and biotransformations in vivo (in humans). **2021**, 16, e2000090 | | 6 |
| 134 | Phosphorus transitions in traditional eco-knowledge versus chemical based agri-amendment systems of stress-prone semi-arid tropics: Finding the real game-changer. **2021**, 121, 107145 | | 3 |
| 133 | Die extraktive Basis der Bio□konomie. Synthetische D□gemittel, Peak Phosphorus und alternative Technologien. **2021**, 40, 284-307 | | 1 |
| 132 | Developmental plasticity of in response to P deficiency: Modulation by inoculation with phosphate-solubilizing bacteria. **2021**, 5, e00296 | | 0 |
| 131 | Development of a Novel Model of Soil Legacy P Assessment for Calcareous and Acidic Soils. **2021**, 8, | | 1 |
| 130 | The role of resource recovery technologies in reducing the demand of fossil fuels and conventional fossil-based mineral fertilizers. **2021**, 3-24 | | 5 |
| 129 | TOR coordinates nucleotide availability with ribosome biogenesis in plants. **2021**, 33, 1615-1632 | | 12 |
| 128 | Evaluation of the sustainability of technologies to recover phosphorus from sewage sludge ash based on embodied energy and CO2 footprint. **2021**, 289, 125762 | | 11 |
| 127 | Des oc□ans indigestes´: l□hergence de l□utrophisation c□□e comme probl□me environnemental global. **2021**, | | |
| 126 | Kinetic, isotherm, thermodynamic and mechanism investigations of dihydrogen phosphate removal by MgAl-LDH. **2021**, 6, 1 | | 4 |

| | | | |
|---|---|---|---|
| 125 | Rock phosphate solubilization by abiotic and fungal-produced oxalic acid: reaction parameters and bioleaching potential. **2021**, | | 3 |
| 124 | A state of the art review on phosphate removal from water by biochars. *Chemical Engineering Journal*, **2021**, 409, 128211 | 14.7 | 44 |
| 123 | Plant and soil tests to optimize phosphorus fertilization management of grasslands. **2021**, 125, 126249 | | 0 |
| 122 | Magnetic Iron-Based Oxide Materials for Selective Removal and Recovery of Phosphorus. **2021**, 339-371 | | |
| 121 | Phosphate (Pi) uptake and remobilisation within plant in Brassica spp. under different Pi availabilities input. **2021**, 736, 012065 | | |
| 120 | Agronomic efficiency and profitability of cotton on integrated use of phosphorus and plant microbes. **2021**, 81, 484-494 | | 2 |
| 119 | A novel microcosm to identify inherently competitive microorganisms with the ability to mineralize phytate in solum. 1 | | |
| 118 | Total extractable phosphorus in flooded soil as affected by struvite and other fertilizer-phosphorus sources. **2021**, 85, 1157-1173 | | 2 |
| 117 | Electronic-State Manipulation of Surface Titanium Activates Dephosphorylation Over TiO Near Room Temperature. **2021**, 60, 16149-16155 | | 2 |
| 116 | Waste to phosphorus: A transdisciplinary solution to P recovery from wastewater based on the TRIZ approach. **2021**, 287, 112235 | | 15 |
| 115 | Electronic-State Manipulation of Surface Titanium Activates Dephosphorylation Over TiO2 Near Room Temperature. **2021**, 133, 16285-16291 | | 3 |
| 114 | Solubilization of organic phosphorus sources by cyanobacteria and a commercially available bacterial consortium. *Applied Soil Ecology*, **2021**, 162, 103900 | 5 | 3 |
| 113 | Circular Economy in Basic Supply: Framing the Approach for the Water and Food Sectors of the Gulf Cooperation Council Countries. **2021**, 27, 1273-1285 | | 13 |
| 112 | Capture and recover dissolved phosphorous from aqueous solutions by a designer biochar: Mechanism and performance insights. *Chemosphere*, **2021**, 274, 129717 | 8.4 | 1 |
| 111 | Should the Sludge Hit the Farm? How Chemo-Social Relations Affect Policy Efforts to Circulate Phosphorus in Sweden. **2021**, 27, 1488-1497 | | 2 |
| 110 | Microbial Fuel Cell for Energy Production, Nutrient Removal and Recovery from Wastewater: A Review. **2021**, 9, 1318 | | 7 |
| 109 | Land application of sewage sludge incinerator ash for phosphorus recovery: A review. *Chemosphere* , **2021**, 274, 129609 | 8.4 | 23 |
| 108 | The Impact of the Inoculation of Phosphate-Solubilizing Bacteria on Phosphorus Availability and Bacterial Community Dynamics of a Semi-Arid Soil. *Microorganisms*, **2021**, 9, | 4.9 | 2 |

| | | | |
|---|---|---|---|
| 107 | Lithium Extraction by Emerging Metal Organic Framework-Based Membranes. **2021**, 31, 2105991 | | 6 |
| 106 | An overview on deficit and requirements of the Irish national soil phosphorus balance. *Science of the Total Environment*, **2021**, 785, 147251 | 10.2 | 2 |
| 105 | Synoptic view on P ore beneficiation techniques. **2021**, 61, 3069-3069 | | 4 |
| 104 | Life cycle assessment of sewage sludge pyrolysis: environmental impacts of biochar as carbon sequestrator and nutrient recycler. **2021**, 94-105 | | 4 |
| 103 | Trace metal elements vaporization and phosphorus recovery during sewage sludge thermochemical treatment - A review. **2022**, 424, 127360 | | 3 |
| 102 | Phosphorus flow analysis for Malawi: Identifying potential sources of renewable phosphorus recovery. **2021**, 173, 105744 | | 0 |
| 101 | The time it takes to reduce soil legacy phosphorus to a tolerable level for surface waters: What we learn from a case study in the catchment of Lake Baldegg, Switzerland. **2021**, 403, 115257 | | 2 |
| 100 | Microalgal Biorefinery: A Sustainable Technology Toward Circular Bioeconomy and Microalgal Biomass Valorization. **2021**, 323-350 | | 1 |
| 99 | Impacts of Grinding and Acidification of Animal Bones with Coffee Wastewater on Plant Dry Matter Yield and Recovery of Phosphorus. *Communications in Soil Science and Plant Analysis*, **2021**, 52, 1076-1088 | 1.5 | |
| 98 | Hydrothermal Carbonization (HTC) of Sewage Sludge: GHG Emissions of Various Hydrochar Applications. **2019**, 59-68 | | 2 |
| 97 | The Conditions of a Sustainable Bioeconomy. **2020**, 177-202 | | 1 |
| 96 | Oxalic acid is more efficient than sulfuric acid for rock phosphate solubilization. **2020**, 155, 106458 | | 30 |
| 95 | Interactions between plants and soil shaping the root microbiome under abiotic stress. **2019**, 476, 2705-2724 | | 78 |
| 94 | TOR coordinates nucleotide availability with ribosome biogenesis in plants. | | 2 |
| 93 | Canada: Playing catch-up on phosphorus policy. **2018**, 3, 642-664 | | 4 |
| 92 | Phosphorus cycling in Montreal's food and urban agriculture systems. **2015**, 10, e0120726 | | 37 |
| 91 | Phosphorus use efficiency and fertilizers: future opportunities for improvements. **2019**, 6, 332 | | 18 |
| 90 | Phosphate Rocks: A Review of Sedimentary and Igneous Occurrences in Morocco. **2021**, 11, 1137 | | 3 |

| | | | |
|---|---|---|---|
| 89 | Specific galactolipids species correlate with rice genotypic variability for phosphate utilization efficiency. **2021**, 168, 105-115 | | 1 |
| 88 | Controlled release fertilizer: A review on developments, applications and potential in agriculture. **2021**, 339, 321-334 | | 21 |
| 87 | Phosphate removal from simulated wastewater using industrial calcium-containing solid waste. *Journal of Environmental Chemical Engineering*, **2021**, 9, 106575 | 6.8 | 0 |
| 86 | Freshwater Today: Uses and Misuses. **2014**, 19-30 | | 1 |
| 85 | Phosphorus Recycling from Waste, Dams and Wetlands Receiving Landfill Leachate Long Term Monitoring in Norway. **2016**, 141-146 | | 1 |
| 84 | Die Bedingungen einer nachhaltigen Bio konomie. **2017**, 177-203 | | 7 |
| 83 | Chlorella biomaterials: phosphate, starch, oil and possible involvement of autophagy. **2017**, 29, 57-61 | | |
| 82 | The role of management instruments in the diversion of organic municipal solid waste and phosphorus recycling. **2018**, 3, 896-919 | | 1 |
| 81 | Developmental plasticity ofBrachypodium distachyonin response to P deficiency: modulation by inoculation with phosphate-solubilizing bacteria. | | |
| 80 | A review on the incorporation and potential mechanism of heavy metals on the recovered struvite from wastewater. **2021**, 207, 117823 | | 3 |
| 79 | Einordnung und Theorie. **2020**, 11-93 | | |
| 78 | Exploring the effect of a peptide additive on struvite formation and morphology: a high-throughput method.. **2020**, 10, 39328-39337 | | 1 |
| 77 | Below-ground physiological processes enhancing phosphorus acquisition in plants. **2021**, 26, 600 | | 2 |
| 76 | Cross-ecosystem transcriptomics identifies distinct genetic modules for nutrient acquisition in maize. | | |
| 75 | A novel microcosm for recruiting inherently competitive biofertilizer-candidate microorganisms from soil environments. | | |
| 74 | Green Out of the Blue, or How (Not) to Deal with Overfed Oceans. *Environment and Society: Advances in Research*, **2020**, 11, 115-142 | 1.8 | 0 |
| 73 | Wastewater in India: An untapped and under-tapped resource for nutrient recovery towards attaining a sustainable circular economy. *Chemosphere*, **2021**, 132753 | 8.4 | 1 |
| 72 | Valorization of animal bone waste for agricultural use through biomass co-pyrolysis and bio-augmentation. *Biomass Conversion and Biorefinery*, 1 | 2.3 | |

| | | | |
|---|---|---|---|
| 71 | Hydrogen bonding-orientated selectivity of phosphate adsorption by imine-functionalized adsorbent. *Chemical Engineering Journal*, **2021**, 133690 | 14.7 | 3 |
| 70 | What sewage sludge is and conflicts in Swedish circular economy policymaking. *Environmental Sociology*, 1-10 | 2 | 2 |
| 69 | Using highly stabilized digestate and digestate-derived ammonium sulphate to replace synthetic fertilizers: The effects on soil, environment, and crop production.. *Science of the Total Environment*, **2022**, 152919 | 10.2 | 2 |
| 68 | Application of plasma for the removal of pharmaceuticals in synthetic urine. *Environmental Science: Water Research and Technology*, | 4.2 | 1 |
| 67 | Long-Term Trajectories of Human Civilization. *SSRN Electronic Journal*, | 1 | |
| 66 | The sustainability of phytomass-derived materials: thermodynamical aspects, life cycle analysis and research perspectives. *Green Chemistry*, **2022**, 24, 2653-2679 | 10 | 0 |
| 65 | Sustainable Production of Reduced Phosphorus Compounds: Mechanochemical Hydride Phosphorylation Using Condensed Phosphates as a Route to Phosphite.. *ACS Central Science*, **2022**, 8, 332-339 | 16.8 | 0 |
| 64 | Techno-Economic Analysis of Scenarios on Energy and Phosphorus Recovery from Mono- and Co-Combustion of Municipal Sewage Sludge. *Sustainability*, **2022**, 14, 2603 | 3.6 | 0 |
| 63 | Effects of Formic Acid Preservation of Fishbones on the Extractability of Ammonium Lactate Acetate Soluble Calcium, Phosphorus, Magnesium, and Potassium. *Waste and Biomass Valorization*, 1 | 3.2 | |
| 62 | Recent advances in developing innovative sorbents for phosphorus removal-perspective and opportunities.. *Environmental Science and Pollution Research*, **2022**, 1 | 5.1 | 0 |
| 61 | Amino Acid Signaling for TOR in Eukaryotes: Sensors, Transducers, and a Sustainable Agricultural fuTORe.. *Biomolecules*, **2022**, 12, | 5.9 | 1 |
| 60 | Defining potential valuables through the characterisation of lake sediments: case study in Arkelstorp bay, Sweden. *SN Applied Sciences*, **2022**, 4, 1 | 1.8 | 0 |
| 59 | A National Framework for Establishing a Circular Economy for Phosphorus. *Journal of Science Policy & Governance*, | 0.5 | |
| 58 | The Central Role of Soil Organic Matter in Soil Fertility and Carbon Storage. *Soil Systems*, **2022**, 6, 33 | 3.5 | 0 |
| 57 | Phosphate fertilization affects rhizosphere microbiome of maize and sorghum genotypes.. *Brazilian Journal of Microbiology*, **2022**, 1 | 2.2 | 0 |
| 56 | Geological and geochemical evaluation of phosphorite deposits in northwestern Saudi Arabia as a possible source of trace and rare-earth elements. *Ore Geology Reviews*, **2022**, 144, 104854 | 3.2 | 1 |
| 55 | Phosphorus recovery from pig manure: Dissolution of struvite and formation of calcium phosphate granules during anaerobic digestion with calcium addition. *Chemical Engineering Journal*, **2022**, 437, 135406 | 14.7 | 1 |
| 54 | Influence of Sample Pretreatment on P Speciation in Sediments Evaluated with Sequential Fractionation and P K-edge XANES Spectroscopy. *Communications in Soil Science and Plant Analysis*, 1-19 | 1.5 | 1 |

| | | | |
|---|---|---|---|
| 53 | Data_Sheet_1.PDF. **2020**, | | |
| 52 | Sewage sludge thermochemical treatment with MgCl2: Preparation conditions impact on trace metal elements vaporization and phosphorus recovery. *Sustainable Chemistry and Pharmacy*, **2022**, 27, 100652 | 3.9 | |
| 51 | City-to-City Learning to Enhance Urban Water Management: The Contribution of the City Blueprint Approach. *SSRN Electronic Journal*, | 1 | |
| 50 | Effect of Different Doses of Phosgreen Fertilization on Chlorophyll, K, and Ca Content in Butterhead Lettuce (Lactuca sativa L.) Grown in Peat Substrate. *Agriculture (Switzerland)*, **2022**, 12, 788 | 3 | 1 |
| 49 | Ist der Klimawandel überhaupt so schlimm?. **2022**, 323-367 | | |
| 48 | Recovery of phosphorus from sewage sludge ash: Influence of chemical addition prior to incineration on ash mineralogy and related phosphorus and heavy metal extraction. *Journal of Environmental Chemical Engineering*, **2022**, 108117 | 6.8 | 0 |
| 47 | Narrowing down molecular targets for improving phosphorus-use efficiency in maize (Zea mays L.). *Molecular Biology Reports*, | 2.8 | 2 |
| 46 | Microbial Inoculation Improves Growth, Nutritional and Physiological Aspects of Glycine max (L.) Merr.. *Microorganisms*, **2022**, 10, 1386 | 4.9 | 0 |
| 45 | Multiple modes of action are needed to unlock soil phosphorus fractions unavailable for plants: The example of bacteria- and fungi-based biofertilizers. *Applied Soil Ecology*, **2022**, 178, 104550 | 5 | 2 |
| 44 | Enhancing phosphorus recovery from efficient acidogenic fermentation of waste activated sludge with acidic cation exchange resin pretreatment: Insights from occurrence states and transformation. *Science of the Total Environment*, **2022**, 157534 | 10.2 | 0 |
| 43 | Segregation of a Phosphorus Rich Phase During Differential Solidification of BOF Slag. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, | 2.5 | |
| 42 | Bio-Conversion of Waste Paper Into Fermentable Sugars□A Review. 4, | | |
| 41 | Evaluation of synthetic hydroxyapatite as a potential phosphorus fertilizer for application in Forest plantations. 1-8 | | |
| 40 | New tools for dead roots: Radioisotope labelling and compound-specific analysis reveal how subsoil hotspots work. | | 1 |
| 39 | Improving the phosphorus budget of European agricultural soils. **2022**, 853, 158706 | | 0 |
| 38 | Pilot-scale bioelectrochemical reactors for urine treatment and resource recovery. **2022**, 447-470 | | 0 |
| 37 | Fungi, P-Solubilization, and Plant Nutrition. **2022**, 10, 1716 | | 1 |
| 36 | The Phosphate Deprivation Response is Mediated by an Interaction between Brassinosteroid Signaling and Zinc in Tomato. | | 0 |

| | | |
|---|---|---|
| 35 | Phosphorus Availability and its Sustainable Use. | 0 |
| 34 | An extractive bioeconomy? Phosphate mining, fertilizer commodity chains, and alternative technologies. | 0 |
| 33 | The impact of phosphorus on projected Sub-Saharan Africa food security futures. **2022**, 13, | 0 |
| 32 | Evolutionary adaptation of plants to phosphorus deficiency: the multifaceted role of cluster roots. **2022**, 51-62 | 0 |
| 31 | Fifty years of sewage sludge management research: Mapping researchers' motivations and concerns. **2023**, 325, 116412 | 0 |
| 30 | Phosphorus in soil. **2022**, | 0 |
| 29 | Phosphorus recovery for circular Economy: Application potential of feasible resources and engineering processes in Europe. **2023**, 454, 140153 | 2 |
| 28 | Phosphorus Recycling, Biocontrol, and Growth Promotion Capabilities of Soil Bacterial Isolates from Mexican Oak Forests: An Alternative to Reduce the Use of Agrochemicals in Maize Cultivation. **2022**, 2, 965-980 | 0 |
| 27 | Feed Additives in Swine Diets. **2022**, 471-491 | 0 |
| 26 | European agriculture's robustness to input supply declines: A French case study. **2023**, 17, 100219 | 0 |
| 25 | Importance of Ensuring Sustainable Fertilizer Resource Management. **2021**, 32, 445-452 | 0 |
| 24 | Struvite Production from Dairy Processing Waste. **2022**, 14, 15807 | 0 |
| 23 | Agricultural input shocks decrease crop yields globally. | 0 |
| 22 | Microcosm Study on the Potential of Aquatic Macrophytes for Phytoremediation of Phosphorus-Induced Eutrophication. **2022**, 14, 16415 | 1 |
| 21 | Can we abandon phosphorus starter fertilizer in maize? Results from a diverse panel of elite and doubled haploid landrace lines of maize (Zea mays L.). 13, | 0 |
| 20 | Mineralization and speciation of organic phosphorus in a sandy soil continuously cropped and phosphorus-fertilized for 28 years. **2023**, 108938 | 0 |
| 19 | Biogas production in United States dairy farms incentivized by electricity policy changes. | 0 |
| 18 | Indigenous bone fertilizer for growth and food security: A local solution to a global challenge. **2023**, 114, 102396 | 0 |

| | | |
|---|---|---|
| 17 | System Approaches: Life Cycle Assessment and Industrial Ecology. **2013**, 385-416 | 0 |
| 16 | nZVI-Based Nanomaterials Used for Phosphate Removal from Aquatic Systems. **2023**, 13, 399 | 0 |
| 15 | Assessment of Recovered Struvite as a Safe and Sustainable Phosphorous Fertilizer. **2023**, 10, 22 | 0 |
| 14 | Geographically-resolved evaluation of the economic and environmental services from renewable diesel derived from attached algae flow-ways across the United States. **2023**, 103100 | 0 |
| 13 | Global navigation of Lithium in water bodies and emerging human health crisis. **2023**, 6, | 0 |
| 12 | Bifunctional reduced graphene oxide/polyelectrolyte/NiFe layered double hydroxide composites for efficient catalyzed dephosphorylation and 4-nitrophenol reduction. **2023**, 53, 103624 | 0 |
| 11 | City-to-city learning to enhance urban water management: The contribution of the City Blueprint Approach. **2023**, 135, 104216 | 0 |
| 10 | The Contribution of Phytate-Degrading Enzymes to Chicken-Meat Production. **2023**, 13, 603 | 0 |
| 9 | Second-Generation Magnesium Phosphates as Water Extractant Agents in Forward Osmosis and Subsequent Use in Hydroponics. **2023**, 13, 226 | 0 |
| 8 | Measuring anthropogenic phosphorus cycles to promote resource recovery and circularity in Morocco. **2023**, 81, 103415 | 0 |
| 7 | Photo-Initiated Radical Hydrophosphination at Titanium Compounds Capable of Ti–P Insertion. | 0 |
| 6 | The Influence of Bacteria-Inoculated Mineral Fertilizer on the Productivity and Profitability of Spring Barley Cultivation. **2023**, 12, 1227 | 0 |
| 5 | A better use of fertilizers is needed for global food security and environmental sustainability. **2023**, 12, | 0 |
| 4 | Strategies for future robust meat production and climate change mitigation under imported input constraints in Alentejo, Portugal. **2023**, 43, | 0 |
| 3 | Sustainable management of extractive waste. **2023**, 251-273 | 0 |
| 2 | Aspergillus niger Enhances the Efficiency of Sewage Sludge Biochar as a Sustainable Phosphorus Source. **2023**, 15, 6940 | 0 |
| 1 | Advances in understanding the phosphate binding to soil constituents: A Computational Chemistry perspective. **2023**, 887, 163692 | 0 |