Erik meers

List of Publications by Year in Descending Order

197 papers	7,424 citations	47 h-index	83 g-index
209 ext. papers	8,451 ext. citations	5.9 avg, IF	5.93 L-index

#	Paper	IF	Citations
197	Selection and application of agri-environmental indicators to assess potential technologies for nutrient recovery in agriculture. *Ecological Indicators*, **2022**, 134, 108471	5.8	1
196	Substrate-Driven Phosphorus Bioavailability Dynamics of Novel Inorganic and Organic Fertilizing Products Recovered from Municipal Wastewater□ests with Ryegrass. *Agronomy*, **2022**, 12, 292	3.6	1
195	Evaluating the Fertilising Potential of Blended Recovered Nutrients in Horticultural Growing Medium on Viola x wittrockiana L.. *Agronomy*, **2022**, 12, 182	3.6	1
194	Co-liquefaction of mixed biomass feedstocks for bio-oil production: A critical review. *Renewable and Sustainable Energy Reviews*, **2022**, 154, 111814	16.2	5
193	Environmental Performance in the Production and Use of Recovered Fertilizers from Organic Wastes Treated by Anaerobic Digestion vs Synthetic Mineral Fertilizers.. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 986-997	8.3	1
192	Biodegradation and effects of EDDS and NTA on Zn in soil solution during phytoextraction by alfalfa in soils with three Zn levels.. *Chemosphere*, **2022**, 133519	8.4	2
191	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
190	Thermal plasma gasification of organic waste stream coupled with CO-sorption enhanced reforming employing different sorbents for enhanced hydrogen production.. *RSC Advances*, **2022**, 12, 6122-6132	3.7	1
189	Assessment of the Carbon and Nitrogen Mineralisation of Digestates Elaborated from Distinct Feedstock Profiles. *Agronomy*, **2022**, 12, 456	3.6	2
188	Digestate-Derived Ammonium Fertilizers and Their Blends as Substitutes to Synthetic Nitrogen Fertilizers. *Applied Sciences (Switzerland)*, **2022**, 12, 3787	2.6	0
187	Progress in in-situ CO2-sorption for enhanced hydrogen production. *Progress in Energy and Combustion Science*, **2022**, 91, 101008	33.6	0
186	Replacing Mineral Fertilisers for Bio-Based Fertilisers in Potato Growing on Sandy Soil: A Case Study. *Applied Sciences (Switzerland)*, **2022**, 12, 341	2.6	1
185	Life cycle assessment of struvite recovery and wastewater sludge end-use: A Flemish illustration. *Resources, Conservation and Recycling*, **2022**, 182, 106325	11.9	0
184	Speciation of P in Solid Organic Fertilisers from Digestate and Biowaste. *Agronomy*, **2021**, 11, 2233	3.6	2
183	Phytomanagement of a Trace Element-Contaminated Site to Produce a Natural Dye: First Screening of an Emerging Biomass Valorization Chain. *Applied Sciences (Switzerland)*, **2021**, 11, 10613	2.6	0
182	Harnessing biofertilizer from human urine via chemogenic and biogenic routes: Synthesis, characterization and agronomic application. *Environmental Technology and Innovation*, **2021**, 25, 102152	7	1
181	Cu phytoextraction and biomass utilization as essential trace element feed supplements for livestock. *Environmental Pollution*, **2021**, 294, 118627	9.3	1

180	Maximizing nutrient recycling from digestate for production of protein-rich microalgae for animal feed application. *Chemosphere*, **2021**, 133180	8.4	0
179	The Role of Sequential Cropping and Biogasdonerightin Enhancing the Sustainability of Agricultural Systems in Europe. *Agronomy*, **2021**, 11, 2102	3.6	0
178	Alteration in chemical form and subcellular distribution of cadmium in maize (Zea mays L.) after NTA-assisted remediation of a spiked calcareous soil. *Arabian Journal of Geosciences*, **2021**, 14, 1	1.8	0
177	Influence of Pyrolysis Temperature on the Heavy Metal Sorption Capacity of Biochar from Poultry Manure. *Materials*, **2021**, 14,	3.5	3
176	Biochar from sawmill residues: characterization and evaluation for its potential use in the horticultural growing media. *Biochar*, **2021**, 3, 201-212	10	0
175	The Use of Sorghum in a Phytoattenuation Strategy: A Field Experiment on a TE-Contaminated Site. *Applied Sciences (Switzerland)*, **2021**, 11, 3471	2.6	1
174	Thermophilic anaerobic digestion as suitable bioprocess producing organic and chemical renewable fertilizers: A full-scale approach. *Waste Management*, **2021**, 124, 356-367	8.6	12
173	Investigation of biomass and agricultural plastic co-pyrolysis: Effect on biochar yield and properties. *Journal of Analytical and Applied Pyrolysis*, **2021**, 155, 105029	6	19
172	Structural and chemical changes of sludge derived pyrolysis char prepared under different process temperatures. *Journal of Analytical and Applied Pyrolysis*, **2021**, 156, 105085	6	5
171	Ecological indicators and bioindicator plant species for biomonitoring industrial pollution: Eco-based environmental assessment. *Ecological Indicators*, **2021**, 125, 107508	5.8	3
170	Potential of coupling anaerobic digestion with thermochemical technologies for waste valorization. *Fuel*, **2021**, 294, 120533	7.1	19
169	Effect of pyrolysis temperature on removal of organic pollutants present in anaerobically stabilized sewage sludge. *Chemosphere*, **2021**, 265, 129082	8.4	19
168	Zn phytoextraction and recycling of alfalfa biomass as potential Zn-biofortified feed crop. *Science of the Total Environment*, **2021**, 760, 143424	10.2	7
167	Chemical stabilization of Cd-contaminated soil using fresh and aged wheat straw biochar. *Environmental Science and Pollution Research*, **2021**, 28, 10155-10166	5.1	6
166	Study of pig manure digestate pre-treatment for subsequent valorisation by struvite. *Environmental Science and Pollution Research*, **2021**, 28, 24731-24743	5.1	2
165	Solid fraction of separated digestate as soil improver: implications for soil fertility and carbon sequestration. *Journal of Soils and Sediments*, **2021**, 21, 678-688	3.4	6
164	Equilibrium modeling of thermal plasma assisted co-valorization of difficult waste streams for syngas production. *Sustainable Energy and Fuels*, **2021**, 5, 4650-4660	5.8	2
163	Agronomic and Environmental Performance of Lemnaminor Cultivated on Agricultural Wastewater Streams A Practical Approach. *Sustainability*, **2021**, 13, 1570	3.6	2

162	Differing Phosphorus Crop Availability of Aluminium and Calcium Precipitated Dairy Processing Sludge Potential Recycled Alternatives to Mineral Phosphorus Fertiliser. *Agronomy*, **2021**, 11, 427	3.6	3
161	Background data on solar heat-assisted stripping-absorption system for ammonia recovery from food waste digestate. *Data in Brief*, **2021**, 34, 106619	1.2	1
160	Phosphorus recovery from liquid digestate by chemical precipitation using low-cost ion sources. *Journal of Chemical Technology and Biotechnology*, **2021**, 96, 2891-2900	3.5	0
159	The Potential of Digestate and the Liquid Fraction of Digestate as Chemical Fertiliser Substitutes under the RENURE Criteria. *Agronomy*, **2021**, 11, 1374	3.6	10
158	Techno-economic assessment at full scale of a biogas refinery plant receiving nitrogen rich feedstock and producing renewable energy and biobased fertilisers. *Journal of Cleaner Production*, **2021**, 308, 127408	10.3	9
157	Measuring ammonia and odours emissions during full field digestate use in agriculture. *Science of the Total Environment*, **2021**, 782, 146882	10.2	7
156	Assessing Nitrogen Availability in Biobased Fertilizers: Effect of Vegetation on Mineralization Patterns. *Agriculture (Switzerland)*, **2021**, 11, 870	3	3
155	Impact of time and phosphorus application rate on phosphorus bioavailability and efficiency of secondary fertilizers recovered from municipal wastewater. *Chemosphere*, **2021**, 282, 131017	8.4	3
154	Global Nutrient Flows and Cycling in Food Systems **2020**, 1-22		
153	Toward a Framework that Stimulates Mineral Recovery in Europe **2020**, 23-32		
152	Livestock Nutrient Management Policy Framework in the United States **2020**, 33-42		
151	Biomass Nutrient Management in China **2020**, 43-51		
150	Nutrient Cycling in Agriculture in China **2020**, 53-64		
149	Manure as a Resource for Energy and Nutrients **2020**, 65-82		4
148	Municipal Wastewater as a Source for Phosphorus **2020**, 83-94		0
147	Ammonia Stripping and Scrubbing for Mineral Nitrogen Recovery **2020**, 95-106		2
146	Struvite Recovery from Domestic Wastewater **2020**, 107-119		1
145	Mineral Concentrates from Membrane Filtration **2020**, 121-131		

144	Pyrolysis of Agro-Digestate **2020**, 133-146		
143	Agronomic Effectivity of Hydrated Poultry Litter Ash **2020**, 147-160		1
142	Bioregenerative Nutrient Recovery from Human Urine **2020**, 161-176		
141	Pilot-Scale Investigations on Phosphorus Recovery from Municipal Wastewater **2020**, 177-187		
140	Fertilizer Replacement Value **2020**, 189-214		1
139	Anaerobic Digestion and Renewable Fertilizers **2020**, 215-229		0
138	Nutrients and Plant Hormones in Anaerobic Digestates **2020**, 231-246		
137	Enhancing Nutrient Use and Recovery from Sewage Sludge to Meet Crop Requirements **2020**, 247-257		
136	Application of Mineral Concentrates from Processed Manure **2020**, 259-269		0
135	Liquid Fraction of Digestate and Air Scrubber Water as Sources for Mineral N **2020**, 271-282		
134	Effects of Biochar Produced from Waste on Soil Quality **2020**, 283-299		
133	Agronomic Effect of Combined Application of Biochar and Nitrogen Fertilizer **2020**, 301-310		
132	Economics of Biobased Products and Their Mineral Counterparts **2020**, 311-328		
131	Environmental Impact Assessment on the Production and Use of Biobased Fertilizers **2020**, 329-362		1
130	Modeling and Optimization of Nutrient Recovery from Wastes **2020**, 381-404		2
129	Soil Dynamic Models **2020**, 405-435		1
128	Ammonia recovery from food waste digestate using solar heat-assisted stripping-absorption. *Waste Management*, **2020**, 113, 244-250	8.6	4
127	Recovery of phosphorus from municipal wastewater treatment sludge through bioleaching using Acidithiobacillus thiooxidans. *Journal of Environmental Management*, **2020**, 270, 110818	7.9	10

126	Stability of Thermophilic Pig Manure Mono-digestion: Effect of Thermal Pre-treatment and Separation. *Frontiers in Energy Research*, **2020**, 8,	3.8	3
125	Effect of Applying Struvite and Organic N as Recovered Fertilizers on the Rhizosphere Dynamics and Cultivation of Lupine (). *Frontiers in Plant Science*, **2020**, 11, 572741	6.2	6
124	Ultrasound-assisted digestate treatment of manure digestate for increased biogas production in small pilot scale anaerobic digesters. *Renewable Energy*, **2020**, 152, 664-673	8.1	5
123	Heavy metal transport and fate in soil-plant system: study case of industrial cement vicinity, Tunisia. *Arabian Journal of Geosciences*, **2020**, 13, 1	1.8	5
122	Leaching behavior of Cd, Zn and nutrients (K, P, S) from a contaminated soil as affected by amendment with biochar. *Chemosphere*, **2020**, 245, 125561	8.4	10
121	Application of biochars and solid fraction of digestate to decrease soil solution Cd, Pb and Zn concentrations in contaminated sandy soils. *Environmental Geochemistry and Health*, **2020**, 42, 1589-1600	4.7	6
120	Effect of the growth medium composition on nitrate accumulation in the novel protein crop Lemna minor. *Ecotoxicology and Environmental Safety*, **2020**, 206, 111380	7	1
119	Monitoring methane and nitrous oxide emissions from digestate storage following manure mono-digestion. *Biosystems Engineering*, **2020**, 196, 159-171	4.8	8
118	Occurrence of contaminants in drinking water sources and the potential of biochar for water quality improvement: A review. *Critical Reviews in Environmental Science and Technology*, **2020**, 50, 549-611	11.1	67
117	Enteric bacteria from the earthworm (Metaphire posthuma) promote plant growth and remediate toxic trace elements. *Journal of Environmental Management*, **2019**, 250, 109530	7.9	7
116	Metal sorption by biochars: A trade-off between phosphate and carbonate concentration as governed by pyrolysis conditions. *Journal of Environmental Management*, **2019**, 246, 496-504	7.9	11
115	Fate of micronutrients and heavy metals in digestate processing using vibrating reversed osmosis as resource recovery technology. *Separation and Purification Technology*, **2019**, 223, 81-87	8.3	13
114	Production and performance of bio-based mineral fertilizers from agricultural waste using ammonia (stripping-)scrubbing technology. *Waste Management*, **2019**, 89, 265-274	8.6	40
113	Model-based analysis of greenhouse gas emission reduction potential through farm-scale digestion. *Biosystems Engineering*, **2019**, 181, 157-172	4.8	9
112	Soil lead immobilization by biochars in short-term laboratory incubation studies. *Environment International*, **2019**, 127, 190-198	12.9	54
111	Evaluation of Pilot-Scale Constructed Wetlands with Phragmites karka for Phytoremediation of Municipal Wastewater and Biomass Production in Ethiopia. *Environmental Processes*, **2019**, 6, 65-84	2.8	13
110	Teaching Green Analytical Chemistry on the Example of Bioindication and Biomonitoring (B & B) Technologies. *Green Chemistry and Sustainable Technology*, **2019**, 19-43	1.1	
109	Impact of Aeration on the Removal of Organic Matter and Nitrogen Compounds in Constructed Wetlands Treating the Liquid Fraction of Piggery Manure. *Applied Sciences (Switzerland)*, **2019**, 9, 4310	2.6	3

108	Effect of hydraulic loading on bioremediation of municipal wastewater using constructed wetland planted with vetiver grass, Addis Ababa, Ethiopia. *Nanotechnology for Environmental Engineering*, **2019**, 4, 1	5.1	11
107	Model-based optimisation and economic analysis to quantify the viability and profitability of an integrated nutrient and energy recovery treatment train. *Journal of Environmental Engineering and Science*, **2019**, 14, 2-12	0.8	0
106	The fate of nitrite and nitrate during anaerobic digestion. *Environmental Technology (United Kingdom)*, **2019**, 40, 1013-1026	2.6	5
105	Impact of organic amendments (biochar, compost and peat) on Cd and Zn mobility and solubility in contaminated soil of the Campine region after three years. *Science of the Total Environment*, **2018**, 626, 195-202	10.2	93
104	Organic Matter and Nutrient Removal Performance of Horizontal Subsurface Flow Constructed Wetlands Planted with Phragmite karka and Vetiveria zizanioide for Treating Municipal Wastewater. *Environmental Processes*, **2018**, 5, 115-130	2.8	30
103	Limitations for phytoextraction management on metal-polluted soils with poplar short rotation coppice-evidence from a 6-year field trial. *International Journal of Phytoremediation*, **2018**, 20, 8-15	3.9	6
102	Chemical stabilization of Cd-contaminated soil using biochar. *Applied Geochemistry*, **2018**, 88, 122-130	3.5	54
101	Periodontal screening and referral behaviour of general dental practitioners in Flanders. *Clinical Oral Investigations*, **2018**, 22, 1167-1173	4.2	1
100	Effect of flocculation pre-treatment on membrane nutrient recovery of digested chicken slurry: Mitigating suspended solids and retaining nutrients. *Chemical Engineering Journal*, **2018**, 352, 855-862	14.7	15
99	Assessing the Ecological Relevance of Organic Discharge Limits for Constructed Wetlands by Means of a Model-Based Analysis. *Water (Switzerland)*, **2018**, 10, 63	3	5
98	Effect of digestate disintegration on anaerobic digestion of organic waste. *Bioresource Technology*, **2018**, 268, 568-576	11	26
97	Potential application of selected metal resistant phosphate solubilizing bacteria isolated from the gut of earthworm (Metaphire posthuma) in plant growth promotion. *Geoderma*, **2018**, 330, 117-124	6.7	49
96	Development, implementation, and validation of a generic nutrient recovery model (NRM) library. *Environmental Modelling and Software*, **2018**, 99, 170-209	5.2	30
95	Stripping and scrubbing of ammonium using common fractionating columns to prove ammonium inhibition during anaerobic digestion. *International Journal of Energy and Environmental Engineering* , **2018**, 9, 447-455	4	13
94	Economic Optimization of Integrated Nutrient and Energy Recovery Treatment Trains Using a New Model Library. *Computer Aided Chemical Engineering*, **2018**, 44, 1969-1974	0.6	1
93	Tobacco, Sunflower and High Biomass SRC Clones Show Potential for Trace Metal Phytoextraction on a Moderately Contaminated Field Site in Belgium. *Frontiers in Plant Science*, **2018**, 9, 1879	6.2	17
92	Optimizing the configuration of integrated nutrient and energy recovery treatment trains: A new application of global sensitivity analysis to the generic nutrient recovery model (NRM) library. *Bioresource Technology*, **2018**, 269, 375-383	11	8
91	Nutrient recovery from digested waste: Towards a generic roadmap for setting up an optimal treatment train. *Waste Management*, **2018**, 78, 385-392	8.6	18

90	Looking for phosphate-accumulating bacteria in activated sludge processes: a multidisciplinary approach. *Environmental Science and Pollution Research*, **2017**, 24, 8017-8032	5.1	11
89	Comparative Evaluation of Pre-treatment Methods to Enhance Phosphorus Release from Digestate. *Waste and Biomass Valorization*, **2017**, 8, 659-667	3.2	7
88	Biochar, a potential hydroponic growth substrate, enhances the nutritional status and growth of leafy vegetables. *Journal of Cleaner Production*, **2017**, 156, 581-588	10.3	55
87	Harnessing fertilizer potential of human urine in a mesocosm system: a novel test case for linking the loop between sanitation and aquaculture. *Environmental Geochemistry and Health*, **2017**, 39, 1545-1561	4.7	7
86	Impact of raking and bioturbation-mediated ecological manipulation on sediment-water phosphorus diagenesis: a mesocosm study supported with radioactive signature. *Environmental Geochemistry and Health*, **2017**, 39, 1563-1581	4.7	4
85	Fertilizer performance of liquid fraction of digestate as synthetic nitrogen substitute in silage maize cultivation for three consecutive years. *Science of the Total Environment*, **2017**, 599-600, 1885-1894	10.2	47
84	Upflow anaerobic sludge blanket and aerated constructed wetlands for swine wastewater treatment: a pilot study. *Water Science and Technology*, **2017**, 76, 68-78	2.2	13
83	Nitrogen release and mineralization potential of derivatives from nutrient recovery processes as substitutes for fossil fuel-based nitrogen fertilizers. *Soil Use and Management*, **2017**, 33, 437-446	3.1	14
82	Does acidification increase the nitrogen fertilizer replacement value of bio-based fertilizers?. *Journal of Plant Nutrition and Soil Science*, **2017**, 180, 800-810	2.3	11
81	Amendments affect lead mobility and modulated chemo-speciation under different moisture regimes in normal and salt-affected lead-contaminated soils. *International Journal of Environmental Science and Technology*, **2017**, 14, 113-122	3.3	7
80	Nutrient Recovery from Digestate: Systematic Technology Review and Product Classification. *Waste and Biomass Valorization*, **2017**, 8, 21-40	3.2	193
79	Assessing the Integration of Wetlands along Small European Waterways to Address Diffuse Nitrate Pollution. *Water (Switzerland)*, **2017**, 9, 369	3	3
78	Can spatial reallocation of livestock reduce the impact of GHG emissions?. *Agricultural Systems*, **2016**, 149, 11-19	6.1	7
77	Phytomanagement of heavy metals in contaminated soils using sunflower: A review. *Critical Reviews in Environmental Science and Technology*, **2016**, 46, 1498-1528	11.1	82
76	Mild hydrothermal conditioning prior to torrefaction and slow pyrolysis of low-value biomass. *Bioresource Technology*, **2016**, 217, 104-12	11	22
75	Utilization of derivatives from nutrient recovery processes as alternatives for fossil-based mineral fertilizers in commercial greenhouse production of Lactuca sativa L.. *Scientia Horticulturae*, **2016**, 198, 267-276	4.1	30
74	Phosphorus Use Efficiency of Bio-Based Fertilizers: Bioavailability and Fractionation. *Pedosphere*, **2016**, 26, 310-325	5	49
73	New perspectives for the design of sustainable bioprocesses for phosphorus recovery from waste. *Bioresource Technology*, **2016**, 206, 264-274	11	81

72	Characterisation of Phosphate Accumulating Organisms and Techniques for Polyphosphate Detection: A Review. *Sensors*, **2016**, 16,	3.8	40
71	Follow the N and P road: High-resolution nutrient flow analysis of the Flanders region as precursor for sustainable resource management. *Resources, Conservation and Recycling*, **2016**, 115, 9-21	11.9	44
70	Constructed Wetlands Treating Municipal and Agricultural Wastewater An Overview for Flanders, Belgium **2016**, 179-207		4
69	Environmental assessment of digestate treatment technologies using LCA methodology. *Waste Management*, **2015**, 43, 442-59	8.6	72
68	Element concentrations in urban grass cuttings from roadside verges in the face of energy recovery. *Environmental Science and Pollution Research*, **2015**, 22, 7808-20	5.1	12
67	Inoculum selection influences the biochemical methane potential of agro-industrial substrates. *Microbial Biotechnology*, **2015**, 8, 776-86	6.3	65
66	Environmental Impact Assessment (EIA) of Effluents from Constructed Wetlands on Water Quality of Receiving Watercourses. *Water, Air, and Soil Pollution*, **2015**, 226, 1	2.6	4
65	Efficiency of Soil and Fertilizer Phosphorus Use in Time: A Comparison Between Recovered Struvite, FePO4-Sludge, Digestate, Animal Manure, and Synthetic Fertilizer **2015**, 73-85		2
64	Assessing Nutrient Use Efficiency and Environmental Pressure of Macronutrients in Biobased Mineral Fertilizers: A Review of Recent Advances and Best Practices at Field Scale. *Advances in Agronomy*, **2014**, 128, 137-180	7.7	24
63	Safe use of metal-contaminated agricultural land by cultivation of energy maize (Zea mays). *Environmental Pollution*, **2013**, 178, 375-80	9.3	38
62	Closing the nutrient cycle by using bio-digestion waste derivatives as synthetic fertilizer substitutes: A field experiment. *Biomass and Bioenergy*, **2013**, 55, 175-189	5.3	75
61	Forest floor leachate fluxes under six different tree species on a metal contaminated site. *Science of the Total Environment*, **2013**, 447, 99-107	10.2	19
60	Feasibility of grass co-digestion in an agricultural digester, influence on process parameters and residue composition. *Bioresource Technology*, **2013**, 150, 187-94	11	20
59	Ecological and economic benefits of the application of bio-based mineral fertilizers in modern agriculture. *Biomass and Bioenergy*, **2013**, 49, 239-248	5.3	89
58	Field evaluation of willow under short rotation coppice for phytomanagement of metal-polluted agricultural soils. *International Journal of Phytoremediation*, **2013**, 15, 677-89	3.9	50
57	Phytoremediation, a sustainable remediation technology? Conclusions from a case study. I: Energy production and carbon dioxide abatement. *Biomass and Bioenergy*, **2012**, 39, 454-469	5.3	108
56	Phytoremediation, a sustainable remediation technology? II: Economic assessment of CO2 abatement through the use of phytoremediation crops for renewable energy production. *Biomass and Bioenergy*, **2012**, 39, 470-477	5.3	57
55	Fate of Macronutrients in Water Treatment of Digestate Using Vibrating Reversed Osmosis. *Water, Air, and Soil Pollution*, **2012**, 223, 1593-1603	2.6	32

54	Integrated Constructed Wetlands (ICW): Ecological Development in Constructed Wetlands for Manure Treatment. *Wetlands*, **2011**, 31, 763-771	1.7	17
53	Elevated Cd and Zn uptake by aspen limits the phytostabilization potential compared to five other tree species. *Ecological Engineering*, **2011**, 37, 1072-1080	3.9	44
52	Short rotation coppice culture of willows and poplars as energy crops on metal contaminated agricultural soils. *International Journal of Phytoremediation*, **2011**, 13 Suppl 1, 194-207	3.9	95
51	Assisted Phytoextraction: Helping Plants to Help Us. *Elements*, **2010**, 6, 383-388	3.8	30
50	Economic viability of phytoremediation of a cadmium contaminated agricultural area using energy maize. Part II: economics of anaerobic digestion of metal contaminated maize in Belgium. *International Journal of Phytoremediation*, **2010**, 12, 663-79	3.9	37
49	Economic viability of phytoremediation of a cadmium contaminated agricultural area using energy maize. Part I: effect on the farmer Ts income. *International Journal of Phytoremediation*, **2010**, 12, 650-62	3.9	32
48	The use of bio-energy crops (Zea mays) for Tphytoattenuationtof heavy metals on moderately contaminated soils: a field experiment. *Chemosphere*, **2010**, 78, 35-41	8.4	190
47	Chemically enhanced phytoextraction of Pb by wheat in texturally different soils. *Chemosphere*, **2010**, 79, 652-8	8.4	30
46	Effects of Vegetation, Season and Temperature on the Removal of Pollutants in Experimental Floating Treatment Wetlands. *Water, Air, and Soil Pollution*, **2010**, 212, 281-297	2.6	102
45	Long-term sustainability of metal immobilization by soil amendments: cyclonic ashes versus lime addition. *Environmental Pollution*, **2010**, 158, 1428-34	9.3	74
44	Trace metal behaviour in estuarine and riverine floodplain soils and sediments: a review. *Science of the Total Environment*, **2009**, 407, 3972-85	10.2	792
43	Enhanced phytoextraction of uranium and selected heavy metals by Indian mustard and ryegrass using biodegradable soil amendments. *Science of the Total Environment*, **2009**, 407, 1496-505	10.2	83
42	Heavy metal mobility in intertidal sediments of the Scheldt estuary: Field monitoring. *Science of the Total Environment*, **2009**, 407, 2919-30	10.2	62
41	Effect of Water Table Level on Metal Mobility at Different Depths in Wetland Soils of the Scheldt Estuary (Belgium). *Water, Air, and Soil Pollution*, **2009**, 202, 353-367	2.6	39
40	Short-Rotation Coppice of Willow for Phytoremediation of a Metal-Contaminated Agricultural Area: A Sustainability Assessment. *Bioenergy Research*, **2009**, 2, 144-152	3.1	73
39	Phytoremediation of contaminated soils and groundwater: lessons from the field. *Environmental Science and Pollution Research*, **2009**, 16, 765-94	5.1	615
38	Factors affecting metal concentrations in reed plants (Phragmites australis) of intertidal marshes in the Scheldt estuary. *Ecological Engineering*, **2009**, 35, 310-318	3.9	50
37	EDTA-assisted Pb phytoextraction. *Chemosphere*, **2009**, 74, 1279-91	8.4	192

36	Presence and mobility of arsenic in estuarine wetland soils of the Scheldt estuary (Belgium). *Journal of Environmental Monitoring*, **2009**, 11, 873-81		30
35	Heavy Metal Displacement by Exchangeable Bases (Ca, Mg, K, Na) in Soils and Sediments. *Soil Science*, **2009**, 174, 202-209	0.9	8
34	Effect of Physicochemical Soil Characteristics on Copper and Lead Solubility in Polluted and Unpolluted Soils. *Soil Science*, **2009**, 174, 601-610	0.9	13
33	Effect of biodegradable amendments on uranium solubility in contaminated soils. *Science of the Total Environment*, **2008**, 391, 26-33	10.2	32
32	Chemically assisted phytoextraction: a review of potential soil amendments for increasing plant uptake of heavy metals. *International Journal of Phytoremediation*, **2008**, 10, 390-414	3.9	84
31	Effect of decomposing litter on the mobility and availability of metals in the soil of a recently created floodplain. *Geoderma*, **2008**, 147, 34-46	6.7	21
30	Degradability of ethylenediaminedisuccinic acid (EDDS) in metal contaminated soils: implications for its use soil remediation. *Chemosphere*, **2008**, 70, 358-63	8.4	72
29	Application of a Full-scale Constructed Wetland for Tertiary Treatment of Piggery Manure: Monitoring Results. *Water, Air, and Soil Pollution*, **2008**, 193, 15-24	2.6	49
28	Metal accumulation in intertidal marshes: Role of sulphide precipitation. *Wetlands*, **2008**, 28, 735-746	1.7	43
27	Factors affecting metal concentrations in the upper sediment layer of intertidal reedbeds along the river Scheldt. *Journal of Environmental Monitoring*, **2007**, 9, 449-55		63
26	Sorption of Co, Cu, Ni and Zn from industrial effluents by the submerged aquatic macrophyte Myriophyllum spicatum L.. *Ecological Engineering*, **2007**, 30, 320-325	3.9	81
25	Potential of five willow species (Salix spp.) for phytoextraction of heavy metals. *Environmental and Experimental Botany*, **2007**, 60, 57-68	5.9	141
24	Phytoavailability assessment of heavy metals in soils by single extractions and accumulation by Phaseolus vulgaris. *Environmental and Experimental Botany*, **2007**, 60, 385-396	5.9	168
23	Accumulation of metals in a horizontal subsurface flow constructed wetland treating domestic wastewater in Flanders, Belgium. *Science of the Total Environment*, **2007**, 380, 102-15	10.2	129
22	Accumulation of Metals in the Sediment and Reed Biomass of a Combined Constructed Wetland Treating Domestic Wastewater. *Water, Air, and Soil Pollution*, **2007**, 183, 253-264	2.6	48
21	Cu sorption on Phragmites australis leaf and stem litter: a kinetic study. *Chemosphere*, **2007**, 69, 1136-43	8.4	10
20	Comparison of cadmium extractability from soils by commonly used single extraction protocols. *Geoderma*, **2007**, 141, 247-259	6.7	141
19	PHYTOREMEDIATION FOR HEAVY METAL-CONTAMINATED SOILS COMBINED WITH BIOENERGY PRODUCTION. *Journal of Environmental Engineering and Landscape Management*, **2007**, 15, 227-236	1.1	156

18	Seasonal changes of metals in willow (Salix sp.) stands for phytoremediation on dredged sediment. *Environmental Science & Technology*, **2006**, 40, 1962-8	10.3	65
17	Zn in the soil solution of unpolluted and polluted soils as affected by soil characteristics. *Geoderma*, **2006**, 136, 107-119	6.7	45
16	Potential use of the plant antioxidant network for environmental exposure assessment of heavy metals in soils. *Environmental Monitoring and Assessment*, **2006**, 120, 243-67	3.1	24
15	Water Extractability of Trace Metals from Soils: Some Pitfalls. *Water, Air, and Soil Pollution*, **2006**, 176, 21-35	2.6	28
14	Physico-Chemical P Removal from the Liquid Fraction of Pig Manure as an Intermediary Step in Manure Processing. *Water, Air, and Soil Pollution*, **2006**, 169, 317-330	2.6	19
13	Enhanced phytoextraction: I. Effect of EDTA and citric acid on heavy metal mobility in a calcareous soil. *International Journal of Phytoremediation*, **2005**, 7, 129-42	3.9	44
12	Comparison of EDTA and EDDS as potential soil amendments for enhanced phytoextraction of heavy metals. *Chemosphere*, **2005**, 58, 1011-22	8.4	326
11	Growth and trace metal accumulation of two Salix clones on sediment-derived soils with increasing contamination levels. *Chemosphere*, **2005**, 58, 995-1002	8.4	90
10	Potential of Brassic rapa, Cannabis sativa, Helianthus annuus and Zea mays for phytoextraction of heavy metals from calcareous dredged sediment derived soils. *Chemosphere*, **2005**, 61, 561-72	8.4	141
9	Availability of heavy metals for uptake by Salix viminalis on a moderately contaminated dredged sediment disposal site. *Environmental Pollution*, **2005**, 137, 354-64	9.3	97
8	Soil-solution speciation of Cd as affected by soil characteristics in unpolluted and polluted soils. *Environmental Toxicology and Chemistry*, **2005**, 24, 499-509	3.8	38
7	Tertiary treatment of the liquid fraction of pig manure with Phragmites australis. *Water, Air, and Soil Pollution*, **2005**, 160, 15-26	2.6	27
6	Enhanced phytoextraction: II. Effect of EDTA and citric acid on heavy metal uptake by Helianthus annuus from a calcareous soil. *International Journal of Phytoremediation*, **2005**, 7, 143-52	3.9	63
5	The potential of foliar treatments for enhanced phytoextraction of heavy metals from contaminated soil. *Remediation*, **2004**, 14, 111-123	1.8	12
4	Enhanced phytoextraction: in search of EDTA alternatives. *International Journal of Phytoremediation*, **2004**, 6, 95-109	3.9	129
3	Field trial experiment: Phytoremediation with Salix sp. on a dredged sediment disposal site in Flanders, Belgium. *Remediation*, **2003**, 13, 87-97	1.8	19
2	Phytoremediation prospects of willow stands on contaminated sediment: a field trial. *Environmental Pollution*, **2003**, 126, 275-82	9.3	173
1	Techno-economic Feasibility of Extrusion as a Pretreatment Step for Biogas Production from Grass. *Bioenergy Research*,1	3.1	4