

# List of Publications —MARIA GREGER

## Scientific Publications

(Paper with review system = R; Included in thesis = X)

1. **RX Greger M. & Lindberg S., 1986.** Effects of  $\text{Cd}^{2+}$  and EDTA on young sugar beets (*Beta vulgaris*). I.  $\text{Cd}^{2+}$  uptake and sugar accumulation. — *Physiologia Plantarum* 66: 69-74. **Numbers of citations 162**
2. **RX Greger M. & Lindberg S., 1987.** Effects of  $\text{Cd}^{2+}$  and EDTA on young sugar beets (*Beta vulgaris*). II. Net uptake and distribution of  $\text{Mg}^{2+}$ ,  $\text{Ca}^{2+}$  and  $\text{Fe}^{2+}/\text{Fe}^{3+}$ . — *Physiologia Plantarum* 69: 81-86. **Numbers of citations 94**
3. **RX Greger M., 1989.** Cadmium Effects on Carbohydrate Metabolism in Sugar Beet (*Beta vulgaris*). — **Thesis**, Stockholm University, ISBN 91-7146-717-3 **Numbers of citations 10**
4. **R Kronestedt-Robards E. C., Greger M. & Robards A. W., 1989.** The nectar of the *Strelizia Reginae* flower. — *Physiologia Plantarum* 77: 341-346. **Numbers of citations 16**
5. **R X Greger M., Brammer E. S., Lindberg S., Larsson G. & Idestam-Almquist J., 1991.** Uptake and physiological effects of cadmium in sugar beets (*Beta vulgaris*) related to mineral provision. — *Journal of Experimental Botany* 42: 729-737. **Numbers of citations 112**
6. **R Lindberg S., Szynekier K. & Greger M., 1991.** Aluminum effects on transmembrane potential in cells of fibrous roots of sugar beet. — *Physiologia Plantarum* 83: 54-62. **Numbers of citations 52**
7. **R X Greger M. & Ögren E., 1991.** Direct and indirect effects of  $\text{Cd}^{2+}$  on the photosynthesis and  $\text{CO}_2$ -assimilation in sugar beets (*Beta vulgaris*). — *Physiologia Plantarum* 83: 129-135. **Numbers of citations 201**
8. **R Greger M. & Kautsky L., 1991.** Effects of Cu, Pb, and Zn on two species of *Potamogeton* grown in field conditions. — *Vegetatio* 97: 173-184. **Numbers of citations 17**
9. **R X Greger M. & Bertell G., 1992.** Effects of  $\text{Ca}^{2+}$  and  $\text{Cd}^{2+}$  on the carbohydrate metabolism in sugar beet (*Beta vulgaris*). — *Journal of Experimental Botany* 43: 167-173. **Numbers of citations 85**
10. **R Greger M., Tillberg J.-E. & Johansson M., 1992.** Aluminium effects on *Scenedesmus obtusiusculus* with different phosphorus status. I. Mineral uptake. — *Physiologia Plantarum* 84: 193-201. **Numbers of citations 25**

11. R **Greger M., Tillberg J.-E. & Johansson M., 1992.** Aluminium effects on *Scenedesmus obtusiusculus* with different phosphorus status. II. Growth, photosynthesis, and pH. — *Physiologia Plantarum* 84: 202-208. **Numbers of citations 30**
12. R **Greger M. & Johansson M., 1992.** Cadmium effects on leaf transpiration of sugar beet (*Beta vulgaris*). — *Physiologia Plantarum* 86: 465-473. **Numbers of citations 82**
13. R **Greger M. & Kautsky L., 1993.** Use of macrophytes for mapping bioavailable heavy metals in shallow coastal areas. — *Applied Geochemistry, Suppl. Issue 2*: 37-43. **Numbers of citations 41**
14. R **Greger M., Johansson M., Hamza K. & Stihl A., 1993.** Foliar uptake of cadmium in sugar beet (*Beta vulgaris*) and Pea (*Pisum sativum*). — *Physiologia Plantarum* 88: 563-570. **Numbers of citations 49**
15. R **Landberg T. & Greger M., 1994.** Influence of selenium on uptake and toxicity of copper and cadmium in pea (*Pisum sativum*) and wheat (*Triticum aestivum*). — *Physiologia Plantarum* 90: 637-644 **Numbers of citations 75**
16. R **Opaskornkul C., Greger M. & Tillberg J.-E., 1994.** Effects of apoplastic sucrose on carbohydrate pools and sucrose efflux of mesophyll protoplasts of pea (*Pisum aestivum*). — *Physiologia Plantarum* 90: 685-691 **Numbers of citations 7**
17. R **Greger M., Kautsky L. & Sandberg T., 1995.** A tentative model of Cd uptake in *Potamogeton pectinatus* in relation to salinity. — *Environmental and Experimental Botany* 35: 215-225 **Numbers of citations 88**
18. R **Landberg T. & Greger M., 1996.** Differences in uptake and tolerance to heavy metals in *Salix* from unpolluted and polluted areas. — *Applied Geochemistry* 11: 175-180. **Numbers of citations 257**
19. R **Lewander M., Greger M., Szarek E. & Kautsky L., 1996.** Macrophytes as indicators of bioavailable Cd, Pb and Zn flow in the river Pzremsza, Katowice Region. — *Applied Geochemistry* 11: 169-173. **Numbers of citations 51**
20. R **Lindberg S., Szykier K. & Greger M., 1998.** Aluminium effects on transmembrane potential in root cells of spruce in relation to pH and growth temperature. — *J. Plant Nutr.* 21: 975-985. **Numbers of citations 1**
21. R **Greger M. & Landberg T., 1999.** Use of willow in phytoextraction. — *Int. J. Phytorem.* 1:115-123. **Numbers of citations 303**
22. R **Österås A. H., Ekvall L. & Greger M., 2000.** Sensitivity to and accumulation of Cd in *Betula pendula*, *Picea abies* and *Pinus sylvestris* seedlings from different regions in Sweden. — *Can. J Bot.* 78: 1-11. **Numbers of citations 38**

23. R Prasad M. N. V., Greger M. & Landberg T., 2001. *Acacia nilotica* L. bark removes toxic elements from solution: Corroboration from toxicity bioassay using *Salix viminalis* L. in hydroponic system. — Int. J. Phytorem. 3: 289-300. Numbers of citations 86
24. R Landberg T. & Greger M., 2002 Differences in oxidative stress in heavy metal resistant and sensitive clones of *Salix viminalis*. — J. of Plant Physiol. 159: 69-75. Numbers of citations 107
25. R Stoltz E. & Greger M., 2002 Cottongrass effects on trace elements in submersed mine tailings. — J. Environ. Qual. 31: 1477-1483 Numbers of citations 47
26. R Stoltz E. & Greger M., 2002 Accumulation properties of As, Cd, Cu, Pb and Zn by four wetland-plant species growing on submersed mine tailings. — Exp. Environ. Bot. 47: 271-280. Numbers of citations 572
27. R Landberg T. & Greger M., 2002 Interclonal variation of heavy metal interactions in *Salix viminalis*. — Environmental Toxicology and Chemistry 21: 2669-2674. Numbers of citations 41
28. R Göthberg A., Greger M. & Bengtsson B.-E., 2002 Accumulation of heavy metals in water spinach (*Ipomea aquatica*) cultivated in the Bangkok region, Thailand. — Environmental Toxicology and Chemistry 21: 1934-1939. Numbers of citations 101
- 29 R Ekvall L. & Greger M., 2003 Effects of environmental biomass-producing factors on Cd uptake in two Swedish ecotypes of *Pinus sylvestris* (L.). — Journal of Environmental Quality 121: 401-411 Numbers of citations 89
- 30 R Österås A. H. & Greger M., 2003. Accumulation of, and interactions between, calcium and heavy metals in wood and bark of *Picea abies*. — Journal of Plant Nutrition and Soil Science 166: 1-8 Numbers of citations 24
31. R Fritioff Å. & Greger M., 2003. Aquatic and terrestrial plant species with potential to remove heavy metals from stormwater. —Int. J. Phytoremediation 5: 211-224. Numbers of citations 147
32. R Greger M. & Löfstedt M., 2004. Comparison of uptake and distribution of cadmium in different cultivars of bread and durum wheat. — Crop Science 44: 501-507 Numbers of citations 164
33. R Lux A., Sottniková A., Opatrná J. & Greger M., 2004. Differences in structure of adventitious roots in *Salix* clones with contrasting characteristics of Cd accumulation and sensitivity. — Physiologia Plantarum 120: 537-545. Numbers of citations 223

34. R **Greger M. & Johansson M., 2004** Aggregation effects due to aluminum adsorption to cell walls of the unicellular green alga *Scenedesmus obtusiusculus*. — *Physiological Res.* 52: 53-58 **Numbers of citations 10**
35. R **Lindberg S., Landberg T. & Greger M., 2004.** A new method to detect cadmium uptake in plant protoplasts. — *Planta* 219: 526-532 **Numbers of citations 52**
36. R **Landberg T. & Greger M., 2004.** No phytochelatins (PC2 and PC3) detected in *Salix viminalis*. — *Physiologia Plantarum* 121: 481-487. **Numbers of citations 53**
37. R **Göthberg A., Greger M., Holm K. & Bengtsson B.-E., 2004.** Influence of nutrient levels on uptake and effects of mercury, cadmium, and lead in water spinach. — *Journal of Environmental Quality* 33: 1247-1255 **Numbers of citations 169**
38. R **Wang Y. & Greger M., 2004.** Clonal differences in Hg tolerance, uptake and distribution in willow. — *Journal of Environmental Quality* 33: 1779-1785 **Numbers of citations 116**
39. R **Johansson L., Xydas C., Messios N., Stoltz E. & Greger M., 2005** Growth and Cu accumulation by plants grown on Cu containing mine tailings in Cyprus. — *Applied Geochemistry* 20: 101-107 **Numbers of citations 41**
40. R **Fritioff Å., Kautsky L. & Greger M., 2005.** Influence of temperature and salinity on heavy metal uptake by submersed plants. — *Environmental Pollution* 133: 265-274 **Numbers of citations 278**
41. R **Greger M., Wang Y. & Neuschütz C., 2005.** Absence of transpiration of Hg in different plant species. — *Environmental Pollution* 134:201-208 **Numbers of citations 130**
42. R **Greger M., 2005.** Influence of willow (*Salix viminalis* L.) roots on soil metal chemistry: Effects of clones with varying metal uptake potential. — *In* Biogeochemistry of trace elements in the rhizosphere (P. M. Huang and G. R. Gobran, eds.) pp. 301-312, Elsevier **Numbers of citations 15**
43. R **Stoltz E. & Greger M., 2005.** Effects of different wetland plant species on fresh unweathered sulphidic mine tailings. — *Plant and Soil* 276: 251-261 **Numbers of citations 17**
44. R **Wang Y., Stauffer C., Keller C. & Greger M., 2005.** Changes in Hg fractionation in soil induced by willow.—*Plant and Soil* 275: 67-75 **Numbers of citations 37**
45. R **Österås A. H., Sunnerdahl I. & Greger M., 2005.** The impact of wood ash and green liquor dregs application on Ca, Cu, Zn and Cd contents in bark and wood of Norway spruce. — *Water, Air, and Soil Pollution* 166: 17-29. **Numbers of citations 28**
46. R **Stoltz E. & Greger M., 2006.** Influences of wetland plants on weathered acidic mine tailings — *Environ Pollut* 144: 689-694 **Numbers of citations 10**

47. R Fritioff Å. & Greger M., 2006. Uptake and distribution of Zn, Cu, Cd, and Pb in an aquatic plant *Potamogeton natans*. — Chemosphere 63: 220-227 **Numbers of citations 187**
48. R Wang Y.D. & Greger M., 2006. Use of iodide to enhance the phytoextraction of mercury-contaminated soil. — Science of the Total Environment 368:30-39. **Numbers of citations 39**
49. R Österås A. H. & Greger M., 2006. Interactions between calcium and copper or cadmium in Norway spruce. — Biol. Plant. 50: 647-652. **Numbers of citations 44**
50. R Neuschütz C., Stoltz E. & Greger M., 2006. Root penetration of sealing layers made of fly ash and sewage sludge. — J. Environ. Qual. 35: 1260-1268 **Numbers of citations 20**
51. R Stoltz S. & Greger M., 2006. Release of metals and arsenic from various mine tailings by *Eriophorum angustifolium* — Plant Soil 289: 199-210 **Numbers of citations 16**
52. R Stoltz S. & Greger M., 2006. Root penetration through sealing layers at mine deposit sites. — Waste Manage. Res. 24: 552-559 (errata vol 25:392) **Numbers of citations 14**
53. R Göthberg A. & Greger M., 2006. Formation of methyl mercury in an aquatic macrophyte. — Chemosphere 65: 2095-2105. **Numbers of citations 40**
54. R Greger M., Malm T. & Kautsky L., 2007. Heavy metal transfer from composted macroalgae to crops. — Europ. J. Agronomy. 26: 257-265 **Numbers of citations 59**
55. R Nyquist J. & Greger M., 2007. Uptake of Zn, Cu, and Cd in metal loaded *Elodea canadensis*. — Environ. Exp. Bot. 60: 219-226 **Numbers of citations 60**
56. R Fritioff Å. & Greger M., 2007. Fate of cadmium in *Elodea canadensis*. — Chemosphere 67: 365-375. **Numbers of citations 54**
57. R Lindberg S., Landberg T. & Greger M., 2007. Cadmium uptake and interaction with phytochelatins in wheat protoplasts. — Plant Phys. Biochem. 45: 47-53 **Numbers of citations 57**
58. R Ohlsson A. B., Landberg T., Berglund T. & Greger M., 2008. Increased metal tolerance in *Salix* by nicotinamide and nicotinic acid. — Plant Phys. Biochem. 46: 655-664 **Numbers of citations 17**
59. R Greger M. & Landberg T., 2008. Role of rhizosphere mechanisms in Cd uptake by various wheat cultivars. — Plant Soil 312: 195-205 **Numbers of citations 48**

60. R Fältmarsch R., Östholm P., Greger M. & Åström M. 2009. Metal concentration in oats (*Avena sativa* L.) grown on acid sulphate soils. — Agricultural and Food Science 18: 45-56. **Numbers of citations 9**
61. R Stjernman Forsberg L., Berggren Kleja D., Greger M. & Ledin S. 2009. Effects of sewage sludge on solution chemistry and plant uptake of Cu in sulphide mine tailings at different weathering stages. — Applied Geochemistry 24: 475-482 **Numbers of citations 23**
62. R Nyquist J. & Greger M. 2009. Response of two wetland plant species to Cd exposure at low and neutral pH. — Environ. Exp. Bot. 65: 417-424 **Numbers of citations 25**
63. R Nyquist J. & M. Greger 2009. A field study of constructed wetlands for preventing and treating acid mine drainage. — Ecological Engineering 35: 630-642 **Numbers of citations 109**
64. R Neuschütz C. & M. Greger 2010. Stabilization of mine tailings using fly ash and sewage sludge planted with *Phalaris arundinacea* L. — Water Air Soil Pollut. 207: 357-367. **Numbers of citations 11**
65. R Neuschütz C. & Greger M. 2010. Ability of various plant species to prevent leakage of N, P, and metal from sewage sludge. — International Journal of Phytoremediation 12(1): 67-84. **Numbers of citations 8**
66. R Neuschütz C., Boström D. & Greger M. 2010. Root growth into sealing layers of fly ash. — Journal of Plant Interactions 5: 75-85. **Numbers of citations 3**
67. R Greger M. & Dabrowska B. 2010. Influence of nutrient level on methyl mercury content in water spinach. — Environmental Toxicology and Chemistry 29: 1735-1739 **Numbers of citations 7**
68. R Javed M. T. & Greger M. 2010. Cadmium triggers *Elodea canadensis* to change the surrounding water pH and thereby Cd uptake. — International Journal of Phytoremediation 13: 95-106 **Numbers of citations 14**
69. R Landberg T., Jensen P. & Greger M. 2011. Strategies of cadmium and zinc resistance in willow by regulation of net accumulation. — Biologia Plantarum 55: 133-140. **Numbers of citations 7**
70. R Bergqvist C. & Greger M. 2012. Arsenic accumulation and speciation in plants from different habitats. — Applied Geochemistry 27: 615-622. **Numbers of citations 64**
71. R Vaculik M., Landberg T., Greger M., Luxova M., Stolarikova M. & Lux A. 2012. Silicon modifies root anatomy, and uptake and subcellular distribution of cadmium in young maize plants. — Ann. Bot. 110(2): 433-443. **Numbers of citations 147**



72. R. **Javed M. T., Stoltz E., Lindberg S. & Greger M. 2013.** Changes in pH and organic acids in mucilage of *Eriophorum angustifolium* roots after exposure to elevated concentrations of toxic elements. — Environ. Sci. Pollut. Res. 20: 1876-1880. **Numbers of citations 41**
73. R. **Pourghasemian N., Ehsanzadeh P. and Greger M. 2013.** Genotypic variation in safflower (*Carthamus* spp.) cadmium accumulation and tolerance affected by temperature and cadmium levels. — Environ. Exp. Bot. 87: 218-226. **Numbers of citations 22**
74. R. **Javed M. T., Lindberg S. & Greger M. 2014.** Cadmium uptake in *Elodea canadensis* leaves and its interference with extra- and intra-cellular pH. — Plant Biol. 16: 615-621. **Numbers of citations 7**
75. **Javed M. T., Lindberg S. & Greger M. 2014.** Cellular proton dynamics in *Elodea canadensis* leaves induced by cadmium. — Plant Physiology and Biochemistry 77: 15-22. **Numbers of citations 18**
76. **Bergqvist C., Herbert R., Persson I. & Greger M. 2014.** Plants influence on arsenic availability and speciation in the rhizosphere, roots and shoots of three different vegetables. — Environ. Pollut. 184: 540-546. **Numbers of citations 50**
77. **Greger M. & Landberg T. 2015.** Novel field data on phytoextraction: Precultivation with *Salix* reduces cadmium in wheat grains. — Int. J. Phytorem. 17: 917-924. **Numbers of citations 18**
78. **Greger M. & Landberg T. 2015.** Silicon decreases cadmium and arsenic in field grown crops. — Silicon. 11: 2371–2375. **Numbers of citations 4**
79. **Greger M., Bergqvist C., Sandhi, A., Landberg T. 2015.** Influence of silicon on arsenic uptake and toxicity in lettuce. — J. Appl. Bot.. Food Qual. 88: 234-240 DOI:10.5073/JABFQ.2015.088.034 **Numbers of citations 12**
80. **Greger M., Kabir A. H., Landberg T., Maity P. J. & Lindberg S. 2016.** Silicate reduces cadmium uptake into cells of wheat. — Environmental Pollution 211: 90-97 **Numbers of citations 59**
81. **Nazaralian S., Majd A., Irian S., Najafi F., Ghahremaninejad F., Landberg T. & Greger M. 2017.** Comparison of silicon nanoparticles and silicate treatment in fenugreek. — Plant Physiology and Biochemistry 115: 25-33 **Numbers of citations 20**
82. **Sandhi A., Greger M., Landberg T., Jacks G. & Bhattacharya P. 2017.** Arsenic concentrations in local aromatic and high-yielding hybrid rice cultivars and the potential health risk: a study in an arsenic hotspot. — Environmental Monitoring and Assessment 189: 184 DOI 10.1007/s10661-017-5889-3 **Numbers of citations 12**

83. **Sandhi A., Landberg T. & Greger M. 2018.** Phytoremediation of arsenic by aquatic moss (*Warnstorfia fluitans*). — Environmental Pollution 237: 1098-1105  
**Numbers of citations 12**
84. **Greger M., Landberg T. & Vaculík M. 2018.** Silicon Influences Soil Availability and Accumulation of Mineral Nutrients in Various Plant Species. — Plants, 7, 41; doi:10.3390/plants7020041 **Numbers of citations 22**
85. **Alhousari F & Greger M. 2018.** Silicon and mechanisms of plant resistance to insect pests. — Plants, 7, 33; doi:10.3390/plants7020033 **Numbers of citations 20**
86. **Sandhi A., Landberg T. & Greger M. 2018.** Effect of pH, temperature, and oxygenation on arsenic phytofiltration by aquatic moss (*Warnstorfia fluitans*). — Journal of Environmental Chemical Engineering 6: 3918-3925 **Numbers of citations 4**
87. **Pourghasemian N., Landberg T., Ehsanzadeh P & Greger M. 2019.** Different response to Cd stress in domesticated and wild safflower (*Carthamus* spp.). — Ecotoxicology and Environmental Safety 171: 321-328 **Numbers of citations 3**
88. **Kaur H & Greger M. 2019.** A Review on Si Uptake and Transport System. — Plants, 8, 81; doi:10.3390/plants8040081 **Numbers of citations 3**
89. **Kaur H & Greger M. 2019.** Si Uptake and Transport in higher plants. — International Journal of Environmental Sciences and Natural Resources. 19(1): XX-XX. Doi: 10.19080/IJESNR.2019.18.556001 **Numbers of citations 0**
90. **Fischer BMC, Frentress J, Manzoni S, Cousins S, Hugelius G, Greger M, Smittenberg RH, Lyon SW 2019.** Mojito, anyone? An exploration of low-tech plant water extraction methods for isotopic analysis using locally-sourced materials. — Frontiers in Earth Science. 7: 150.  
**Numbers of citations 1**
91. **Schück M. & Greger M. 2020.** Plant traits related to the heavy metal removal capacities of wetland plants — Int. J. Phytorem. 22: 427-435  
**Numbers of citations 0**
92. **Schück M. & Greger M. 2020.** Screening the capacity of 34 wetland plant species to remove heavy metals from water. — Int. J. Environ. Res. Public Health 17: 4623  
**Numbers of citations 0**
93. **Markert B., Abdallah N., Aksoy A., Ammari T., Arias A, Azaizeh H., Badran A., Baltrėnaitė E., Baydoun E., Bernstein N., Canha N., Chudzinska E., Delakowitz B., Diatta J., Djingova R., El-Sheik O., Fargasova A., Figueiredo A.M., Fränzle S., Frontesyeva M., Ghafari Z., Golan A., Gorelova S., Greger M.....(59 authors). 2020.** Information gain in environmental monitoring through bioindication and biomonitoring methods ("B & B technologies") and phytoremediation processes—with special reference to the Biological System of Chemical Elements (BSCE) under specific consideration of Lithium. Review article



— *Bioactive Compounds in Health and Disease* 2020; 3(11): 214-250 **Numbers of citations 0**

94. **Greger M., Landberg T. & Kaur H. 2021.** Removal of PFAS from water by plants. — *Int. J. Environ. Sci. Nat. Res.* 28(2): 556233.  
DOI:10.19080/IJESNR.2021.28.556233 **Numbers of citations 0**
95. **Schück, M. & Greger, M., 2022.** Chloride removal capacity and salinity tolerance in wetland plants. — *Journal of Environmental Management*, 308:114553
96. **Jones, D., Ovegård, M., Dahlgren, H., Danielsson, S., Greger, M., Landberg, T., Garbaras, A. and Karlson, A.M., 2022.** A multi-isotope approach to evaluate the potential of great cormorant eggs for contaminant monitoring. — *Ecological Indicators*, 136:108649
97. **Landberg, T. & Greger, M. 2022.** Phytoremediation using willow in industrial contaminated soil. — *Sustainability* 14(14): 8449.

## **Proceedings** (Reviewed= R)

1. **R Lindberg S., Greger M. & Johansson L., 1982.** *In vivo* effects of Na<sup>+</sup> and K<sup>+</sup> on sugar accumulation and ATPase activity in young sugar beets. — *In Plant Metabolism Regulation* (E. Karanov, N. Babalakova and K. L. Demirevska-Kepova, eds.) pp. 28-30, Bulgarian Academy of Sciences, Sofia, Bulgaria.  
**Numbers of citations 0**
2. **R Greger M., 1983.** Effects of Cd and EDTA on sugar accumulation in young sugar beets. — *In Membrane transport in plants* (W.J. Cram, K. Janáček, R. Rybová and K. Sigler, eds.) pp. 400-401, Academia Praha, Czecho-Slovakia. **Numbers of citations 0**
3. **Greger M., 1992.** Upptag och effekter av kadmium på växter speciellt på vattenomsättningen. — *In Energiskog som vegetationsfilter för slam, avloppsvatten, lakvatten och aska. Rapport från seminarium den 14 november 1991, Ultuna, Uppsala.* (K. Perttu, ed), pp. 51-58, Rapport 46, Avd. f. Skoglig intensivodling, SLU. ISBN 91-576-4497-7. **Numbers of citations 0**
4. **Greger M. & Kautsky L., 1992.** Uptake of heavy metals by macrophytes — a comparison between field samples and controlled experiments. — *In. Proceedings from the 12th Baltic Marine Biologist symposium, Helsingör 1991,* (E. Bjørnstad, L. Hagerman, K. Jensen, eds), pp. 67-69, Olsen & Olsen, Special-Trykkeriet, Viborg, ISBN 87-85215-25-2. **Numbers of citations 0**

5. **Landberg T. & Greger M., 1994.** Can heavy metal tolerant clones of *Salix* be used as vegetation filters on heavy contaminated land?. — *In* Willow vegetation filters for municipal wastewaters and sludges. A biological purification system. Proc. of a study tour, conference and work shop in Sweden, 5-10 June 1994. Ultuna, Uppsala. (P. Aronsson & K. Perttu, eds), pp. 133-144, Rapport 50, Avd. f. Skoglig intensivodling, SLU. ISBN 91-576-4916-2. **Numbers of citations 97**
  
6. **Greger M. & Landberg T., 1996.** Kadmiumupptag och tolerans hos olika *Salix*kloner. Skillnader som möjliggör olika användningsområden. — *In* *Salix* som kadmiumfilter, 7th Sept. 1995, (ed A. Göransson), pp. 15-28, Rapport 55, Avd. f. Skoglig intensivodling, SLU. ISBN 91-576-5110-8. **Numbers of citations 3**
  
7. **Greger M. & Landberg T., 1997.** Use of willow clones with high Cd accumulating properties in phytoremediation of agricultural soils with elevated Cd levels. — *In* Proceeding of 3rd Int. congress on the Biogeochemistry of trace elements, Paris, May 1995, ed. R. Prost, INRA Editions, pp. 505-511. ISBN 2-7380-0775-9 **Numbers of citations 20**
  
8. **Greger M., 1997.** *Salix* as phytoremediator of heavy metal contaminated soil. — *In* Proceeding of 2nd Int. Conf. on Element Cycling in the Environment, Warsaw, Oct 1997, pp. 167-172. ISBN 83-85805-43-5. **Numbers of citations 11**
  
9. **Österås A. H., Ekvall L. & Greger M., 1997.** Differences in cadmium sensitivity and uptake of Cd of forest trees from different provinances in Sweden. An ash application problem? — *In* Proceeding of 2nd Int. Conf. on Element Cycling in the Environment, Warsaw, Oct 1997, pp. 97-104. ISBN 83-85805-43-5. **Numbers of citations 0**
  
10. **Greger M. & Ekvall L., 1999.** Kadmiumupptaget hos *Salix* vid olika rotdjup. — *In* Kadmium i jordbrukssamhället ger odling av *Salix* en möjlighet att minska kadmiumbelastningen? ,20th Nov. 1998, (eds K. Perttu & A. Göransson), pp. 51-56, Rapport 65, Dept Short Rotation Forestry, SLU. ISBN 91-576-5684-3. **Numbers of citations 0**
  
11. **Stoltz E. & Greger M., 2001.** Wetland plant reduce metal content in drainage water from submersed tailings. — Proceeding. Securing the future. Int. Conf. on mining and the environment. Skellefteå. 2001. pp. 806-813. **Numbers of citations 0**
  
12. **Stoltz E., Greger M. & Höglund L.-O., 2002** MiMi - Establishment of vegetation on water covered mine wastes - Integration in the performance assessment framwork. — Proc. 8th Ann. British Columbia ML/ARD Workshop, Nov. 2001 Vancouver, Canada **Numbers of citations 0**
  
13. **Landberg, T. & Greger M., 2003.** Influence of N and N supplementation on Cd accumulation in wheat grain. — 7th International Conference on the Biogeochemistry of Trace Elements, Uppsala '03, Conference Proceedings. Vol. 1. Uppsala,, Sweden: SLU Service. **Numbers of citations 23**

14. **R** Nyquist J. & Greger M., 2005. The role of plants in a wetland treating Acid Mine Drainage — Proceeding. Securing the future. Int. Conf. on mining and the environment. Skellefteå. 2005. pp. 795-803. **Numbers of citations 0**
  
15. **R** Neuschütz C., Stoltz E. & Greger M., 2005. Choice of vegetation for treatment of mine tailings covered with fly ashes and sewage sludge. — Proceeding. Securing the future. Int. Conf. on mining and the environment. Skellefteå. 2005. pp. 779-786. **Numbers of citations 0**
  
16. Greger M., Neuschütz C., Landberg T., Göthberg A., Nyquist J. & Dabrowska B., 2007. Phytoremediation and metal uptake in food plants. — ECO-TECH'07, Kalmar, November, 2007. **Numbers of citations 0**
  
17. **R** Neuschütz C., Isaksson K.-E., Lundmark M. & Greger M. 2009. Evaluation of a dry-cover treatment consisting of vegetated sewage sludge and fly ash. — Proceeding. Securing the future. Int. Conf. on mining and the environment. Skellefteå. 2009. **Numbers of citations 3**
  
18. Greger, M., Sandhi, A., Nordstrand, D., Bergqvist, C., Rennerfelt, H. N., 2012. Water cleaning from toxic elements using phytofiltration with *E. canadensis*. Bhattacharya, P., Rosborg, I., Sandhi, A., Hayes, C., Benoliel, M. J. (eds.) In: Proceedings of the 4<sup>th</sup> Int. conference COST Action 637: Metals and related substances in drinking water. IWA Publishing, London, pp 183-187. **Numbers of citations 2**
  
19. Greger M. 2012. Phytoremediation of arsenic – does it work? — Proceeding of Arsenic in the environment, Cairns, Australia 2012 (eds Bundschuh J., Bhattacharya P.), Pp. 104-105, CRC Press **Numbers of citations 0**
  
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## **Books and book chapters**

1. **Greger M., 1999.** Metal availability and bioconcentration. — *In. Heavy Metal Stress in Plants - From Molecules to Ecosystems* (M. N. V. Prasad and J. Hagemeyer, eds), pp 1-27, Springer Verlag, Heidelberg, Germany **Numbers of citations 353**
2. **Prasad M. N. V, Greger M. & Smith B. N., 2001.** Aquatic macrophytes. — *In. Metals in the environment: Analysis by biodiversity.* (M. N. V. Prasad, ed), pp. 259-288. Marcel Dekker inc. New York, USA **Numbers of citations 23**
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5. **Greger M. & Wang Y.D., 2003.** Phytoremediation of toxic metals. COST Action 837. WG2 + WG4 meeting. Stockholm 2003, Akademityck AB, Edsbruk. **Numbers of citations 0**
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<h2 style="margin: 0;"><i><b>Popular Publications</b></i></h2>
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1. **Greger M., 1989.** Kadmium — ett miljöproblem att räkna med. — *Miljö och Hälsa* 2: 21-22.
2. **Greger M. & Kautsky L. 1990.** Vattenväxter — en ökad risk för tungmetallspridning. — *Miljö och Hälsa* 2: 22-26.
3. **Greger M. 1991.** Hur växter påverkas av kadmium. — Radio program 20 min in "Värt att veta".
4. **Greger M. & Perttu K., 1991.** Slam, avloppsvatten, lakvatten och aska — resurs eller problem? — *Miljö och Hälsa* 4: 6-8.
5. **Kautsky L. & Greger M., 1992.** Att vara vattenväxt i Östersjön — ett liv i konflikt. — NFR:s årsbok 1992. 77-89.
6. **Landberg T. & Greger M., 1994.** Nya möjligheter med energiskog — Förgiftade marker renas med Salix. — *Miljö och Hälsa* 2: 32-34.
7. **Greger M., 1997.** Växter vid vägen — en förgiftad historia eller åtgärds möjlighet?. — Report from the VTI and KFB Conf. in Linköping, Jan. 1997.
8. **Greger M., Allard B. & van Bavel B., 2001.** Fabrikstomten. — Report of year 2000 of the COLDREM program. 11-13
9. **Neuschütz C. & Greger M., 2009.** Växter hjälper till att förhindra läckage — *Svenskt vatten* 1: 34-35.

10. **Pettersson, M., Greger, M., Høst, E. Kløvstad, A.G. & Sundheim Fløstad, I. 2022.** Kan snutebillen stoppes med tilførsel av silika? — Norsk Skogsbruk. nr 3/2022, <https://dittmagasin.no/magasin/share-url/b574467d>

## **Reports**

(Reviewed= R)

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2. **Greger M. & Kautsky L., 1990.** Regional kartering av tungmetallinnehåll i vattenväxter och grunda sediment i södra Stockholms län. — ISBN 91-630-0269-8, 48pp. **Numbers of citations 5**
3. **Greger M. & Johansson M., 1991.** Selenets effekter på växter. Inverkan av selenit och selenat på unga sockerbetsplantors fysiologi och morfologi. — Report to Hierta-Retzius and Lars Hiertas foundations, 9pp. **Numbers of citations 0**
4. **Greger M. & Kautsky L., 1993.** Regional kartering av tungmetallinnehåll i vattenväxter och grunda sediment i norra Stockholms län. — ISBN 91-630-2010-6, 52pp **Numbers of citations 0**
5. **R Greger M., Hamza K. & Perttu K., 1994.** Recirculation of rest products from forest industry. — A prestudy. — AFR report 68, 28pp. **Numbers of citations 0**
6. **Kautsky L. & Greger M., 1994.** Kolonisation av makrofyter på tungmetallbelastade sediment och deras roll för metallomsättningen i grunda vattenområden. — SNV report DNR 802-503-90 Fh. **Numbers of citations 0**
7. **Greger M., 1994** Kadmiumtolerans hos Salix. — Report to Trygger and Futura Foundations. **Numbers of citations 0**
8. **Arvanitis L., Hamza K. & Greger M., 1995.** Inventering av kärlväxter, mossor och lavar inom Projekt Askåterföring. — Report to Projekt Askåterföring. **Numbers of citations 0**
9. **R Greger M. & Landberg T., 1996.** Kadmiumhalten i Salix relaterad till kadmiumhalten i jorden. — Report 95/9 Vattenfall utveckling AB, 35pp. **Numbers of citations 2**
10. **Greger M. & Landberg T., 1997.** Har vissa Salix-kloner en förmåga att minimera ackumuleringen av tungmetaller? — Report to C. F. Lundström foundation **Numbers of citations 0**



11. **Greger M., 1997.** Effekter av skogsindustrins restprodukter som gödselmedel på skogsträdens tillväxt och kvalitet. — Report to Forest Industry foundation, Dnr 26. **Numbers of citations 0**
12. **Landberg T. & M. Greger, 1997.** Tolerans mot lakvatten hos Salixkloner. Studie av lakvatten från Björshults avfallsanläggning. — Report to Nyköpings kommun. **Numbers of citations 0**
13. ***R* Greger M., Ekvall L., Österås A. H., Pettersson W., Perttu K. & Aronsson P., 1998.** Mixed waste products from pulp and paper industry used as fertilizers in forest. — Report.238 AFR., 66pp **Numbers of citations 14**
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17. **Österås A. H. & Greger M., 2000.** Hur påverkas skogsträdens virkeskvalitet av kalcium och tungmetaller härrörande från spridning av skogsindustrins restprodukter i skogen? — Final report to Ångpanneföreningens forskningsstiftelse. **Numbers of citations 0**
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28. **Greger M., 2004** Uptake of nuclides by plants. — Report to SKB TR-04-14. 70 pp **Numbers of citations 28**
29. **Greger M. & Nyquist J., 2005.** Wetland plants in acid mine drainage treatment. — Final report Georange, project 89130. 8pp **Numbers of citations 0**
30. **Greger M. & Nilsson T., 2005.** Spridning av pelleterad aska och grönlutslam I olika skogsbestånd – effekter på markvegetation, markkemi, skogsproduktion och tungmetallupptag i blåbär- — Report to Iggesund Paperboard **Numbers of citations 0**
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51. **Greger M. 2011.** Syresättnings inverkan på upptaget av giftiga element på vattenväxter. — Report project 1492 to C.F. Lundströms stiftelse 15 pp. **Numbers of citations 0**
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57. **Greger M. 2013.** Silisium (kisel) som plantegjødsmiddel. Effekten på planters biomassa, kadmiuminnehåll, fiber og skal. — Rapport: FoU stipendium Høgskolen i Hedmark. 4 pp **Numbers of citations 0**
58. **Greger M. & Landberg T. 2015** Silicon influences the availability of mineral nutrients in soil and the accumulation by plants. — Report to Svensk Växtnäringsforskning, 15 pp. **Numbers of citations 0**
59. **Greger M. 2016.** Inverkan av kisel på växters upptag av mikro- och makronäringsämnen. — Report to C.F. Lundströms stiftelse 3 pp. **Numbers of citations 0**
60. **Landberg T. & Greger M. 2016.** Rening av mark med *Salix* 2004-2016. — Report to Johan Hansson AB.
61. **Greger M. 2016.** Kisels inverkan på växtfiber — Report to C.F. Lundströms stiftelse 3 pp
62. **Greger M. & Landberg T. 2017.** Ny naturlig metod att med inhemska växter rena vatten från arsenik i gruvområdet i Adak. — En fältstudie. Report to Göran Gustafssons stiftelse 8 pp
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64. **Greger M. & Landberg T. 2018.** Kan gödsling med kisel påverka frisättningen av arsenik, kadmium och fosfor från jordpartiklar? — Report to SGU 7pp
65. **Alhousari F. & Greger M. 2019.** Influence of microsilica and slag on weevil grazing, fiber quality, drought resistance and fire retardation in coniferous trees as well as Si uptake. — Report to Elkem. 31pp
66. **Greger M. & Schück M. 2019.** Rening av dagvatten i flytande våtmark – val av växter. — Report to Svenskt Vatten Utveckling. 2019-24. 32pp
67. **Greger M. & Alhousari F. 2020.** Effekten av kisel på snytbaggegnag på barrträd. En naturlig metod att förebygga insektsangrepp på skogsträd med kisel. — Report to Stina Werners stiftelse 12pp.
68. **Greger M. & Landberg T. 2020** Ekotoxikologisk testning av jord. Analys av jord från Anderstorp, fastighet 9:273/9:287. — Report to Gislaveds kommun 11p
69. **Greger M., Landberg T., Herbert R. 2021.** Inverkan av nano-kiseldioxidpartiklar på Cd och As i jord-växt systemet i jordbruket. Rapport till FORMAS dnr 2016-01040
70. **Pettersson M, Greger M. m. fl. 2022.** Tilførsel av (Amorf) silika fører til økt motstand mot snutebilleangrep og økning i biomasse for granplanter. —Report to Skogtiltaksfondet og Utviklingsfondet for skogsbruk 6pp

<h2 style="margin: 0;"><i><b>Compendia for teaching</b></i></h2>
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1. **Greger M., 1990.** Studie av elektrontransporten i fotosyntesens ljusreaktion med hjälp av O<sub>2</sub>-elektrod. — Compendium. 5pp
2. **Greger M., 1990.** Protoplaster — Isolering och användning. — Compendium. 8pp.
3. **Greger M., 1990.** Selen och växter: En översikt. — Compendium. 6pp.
4. **Greger M., 1992.** Metallanalys med atomabsorption. — Compendium. 9pp.
5. **Greger M., 1994.** Metal analyses using atomic absorption. — Compendium. 9pp.
6. **Greger M., 1994.** Metoder att eliminera matriseffekter vid analys av element. — Compendium. 6pp.

7. **Greger M., 2010.** Methods to eliminate matrix effect during analysis of elements. — Compendium. 6pp.
8. **Greger M., 2010.** Protoplasts - isolation and use — Compendium. 6pp

## ***Scientific Abstracts***

*(Reviewed= R)*

1. **Greger M., Källman S. & Lindberg S., 1981.** Effects of Na and K on sugar accumulation in young sugar beets. — Abstract. II. International youth symposium on the regulation of metabolism in plants, October 1981 in Varna, Bulgaria.
2. **Greger M., 1983.** Effects of Cd and EDTA on sugar accumulation in young sugar beets. — Abstract. Int. symp. Membrane transport in plants, Praha, Czecho-Slovakia.
3. **Greger M., 1984.** Effects of Cd and EDTA on Ca, Mg and PO<sub>4</sub> net uptake and transport in young sugar beets. — Abstract. 4th congress FESPP in Strasbourg, France, Aug.-sept. 1984.
4. **Greger M., 1985.** Cd, Na and K effects on the photosynthesis in young sugar beets. — Abstract. XIV. Nordic congress on plant physiology, Ljungskile, Sverige, aug. 1985. (Physiol. Plantarum, 64: 9A).
5. **Greger M. & Tillberg J.-E., 1986.** The effects of Cd<sup>2+</sup> on the photosynthesis in sugar beets. — Abstract. VII International Congress on photosynthesis in Providence, USA, Aug. 1986.
6. **Greger M., 1986.** The influence on the carbohydrate metabolism by Ca<sup>2+</sup> and Cd<sup>2+</sup> in sugar beets. — Abstract. 5th congress of the FESPP in Hamburg, Germany, Aug.-Sept. 1986.
7. **Bertell G. & Greger M., 1986.** Cd<sup>2+</sup> influence on sugar accumulation in roots of sugar beet. — Abstract. 5th congress of the FESPP in Hamburg, Germany, Aug.-Sept. 1986.
8. **Greger M., 1987.** Calcium and cadmium influence on the sugar accumulation. — Abstract. Meetings of the Society for experimental Biology, in York, England, March-April 1987.
9. **Opaskornkul C., Greger M. & Tillberg J.-E., 1988.** Effects of phosphate on sugar uptake by wheat mesophyll protoplasts. — Abstract. XV. Nordic congress on plant physiology, Åbo, Finland, aug. 1988. (Physiol. Plantarum, 73: 9A).
10. **Greger M., 1988.** Effects of Cd<sup>2+</sup> on the carbohydrate metabolism and growth of sugar beet. — Abstract. 6th congress of the FESPP in Split, Yugoslavia, Sept. 1988.



11. **Greger M. & Ögren E., 1989.** Direct and indirect effects of cadmium on photosynthesis in sugar beet. — Abstract. VIII International Congress on photosynthesis in Stockholm, Sverige, Aug. 1989. (Physiol. Plantarum, 76: A61).
12. **Opaskornkul C. & Greger M., 1989.** Effects of sucrose pools on net photosynthesis in mesophyll cells of Pea. — Abstract. VIII International Congress on photosynthesis in Stockholm, Sverige, Aug. 1989. (Physiol. Plantarum, 76: A40).
13. **Opaskornkul C. & Greger M., 1990.** Relation between apoplastic sucrose pool and carbohydrate metabolism in pea mesophyll cells. — Abstract. 7th congress of FESPP in Umeå, Sweden, Aug. 1990. (Physiol. Plantarum, 79: A95).
14. **Lindberg S., Szyrkier K. & Greger M., 1990.** Aluminium effects on membrane potential in roots of higher plants. — Abstract. 7th congress of FESPP in Umeå, Sweden, Aug. 1990. (Physiol. Plantarum, 79: A93).
15. **Tillberg J.-E., Greger M. & Johansson M., 1990.** Phosphorus status and effects of aluminium in *Scenedesmus*. — Abstract. 7th congress of FESPP in Umeå, Sweden, Aug. 1990. (Physiol. Plantarum, 79: A120).
16. **Johansson M. & Greger M., 1990.** Cell aggregate formation due to aluminium adsorption to cell walls of *Scenedesmus*. — Abstract. 7th congress of FESPP in Umeå, Sweden, Aug. 1990. (Physiol. Plantarum, 79: A120).
17. **Greger M. & Johansson M., 1990.** Cadmium effects on cuticular and stomatal transpiration of sugar beet leaves. — Abstract. 7th congress of FESPP in Umeå, Sweden, Aug. 1990. (Physiol. Plantarum, 79: A121).
18. **Greger M. & Kautsky L., 1991.** Changes in Cd effects on *Potamogeton pectinatus* due to differences in salinity. — Abstract. 12th Baltic Marine Biologists Symposium in Helsingør, Denmark, Aug. 1991.
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