**List of publications - Anna H. Kaksonen 25.11.2014**

**Peer-reviewed scientific articles**

***Journal articles***

1. Das BD, Kaksonen AH, Bhattacharya J. Reactivation of carbon exhausted sulfidogenic bioreactor by fractionated sweetmeat waste dosing: the role of neutralizing substance and nitrogen supplement. Environmental Technology & Innovation (in press)
2. Rea SM, McSweeney NJ, Degens BP, Morris C, Siebert HM, Kaksonen AH. Salt-tolerant microorganisms potentially useful to bioleaching operations where fresh water is scarce. Minerals Engineering (in press)
3. Sahinkaya E, Yurtsever A, Toker Y, Elcik H, Cakmaci M, Kaksonen AH. Biotreatment of As-containing acid mine drainage using sulfate reducing granules in an upflow anaerobic sludge blanket reactor. Minerals Engineering (in press)
4. Cheng KY, Kaksonen AH, Douglas GB. Sequential in situ hydrotalcite precipitation and biological denitrification for the treatment of high-nitrate industrial effluent. Bioresource Technology 172: 373-381.
5. Douglas GB, Trefry MG, Wylie JT, Wilkes PG, Puzon GJ, Kaksonen AH. 2015. Potential biogeochemical impacts of heat rejection in the Mullaloo aquifer, Western Australia. Geothermics 53: 429-445.
6. Li J, McDonald R, Kaksonen AH, Morris C, Rea S, Usher K, Wylie J. 2014. Applications of Rietveld Based QXRD Analysis in Mineral Processing. Powder Diffraction (in press) DOI:<http://dx.doi.org/10.1017/S0885715614001134>
7. Kaksonen AH, Morris C, Hilario F, Rea S, Li J, Usher K, Wylie J, Ginige M, Cheng KY, du Plessis C. 2014. Iron oxidation and jarosite precipitation in a two-stage airlift bioreactor. Hydrometallurgy 150: 227-235.
8. Usher KM, Kaksonen AH, Cole I, Marney D. 2014. Critical review: Microbially influenced corrosion of buried carbon steel pipes. International Biodeterioration & Biodegradation 93: 84-106.
9. Kaksonen AH, Morris C, Rea S, Li J, Wylie J, Usher K, Ginige MP, Cheng KY, Hilario F, du Plessis C. 2014. Biohydrometallurgical iron oxidation and precipitation: Part I − Effect of pH on process performance. Hydrometallurgy 147-148: 255-263.
10. Kaksonen AH, Morris C, Rea S, Li J, Usher K, McDonald RG, Hilario F, Hosken T, Jackson M, du Plessis C. 2014. Biohydrometallurgical iron oxidation and precipitation: Part II – Jarosite precipitate characterisation and acid recovery by conversion to hematite. Hydrometallurgy 147-148: 264-272.
11. Wong PY, Cheng KY, Kaksonen AH, Sutton DC, Ginige MP. Enrichment of anodophilic nitrogen fixing bacteria in a bioelectrochemical system. Water Research 64: 73-81.
12. Usher KM, Kaksonen AH, Macleod ID. 2014. Marine rust tubercles harbor iron corroding archaea and sulphate reducing bacteria. Corrosion Science 83: 189-197.
13. Watling HR, Collinson DM, Fjastad S, Kaksonen AH, Li J, Morris C, Perrot FA, Rea SM, Shiers DW. 2014. Column bioleaching of a polymetallic ore: Effects of pH and temperature on metal extraction and microbial community structure. Minerals Engineering 58: 90-99.
14. Kaksonen AH, Mudunuru, BM, Hackl R. 2014. The role of microorganisms in gold processing and recovery – A review. Hydrometallurgy 142: 70-83.
15. Machuca LL, Jeffrey R, Bailey SI, Gubner R,Watkin ELJ, Ginige MP, Kaksonen AH, Heidersbach K. 2014. Filtration-UV irradiation as an option for mitigating the risk of microbiologically influenced corrosion of subsea construction alloys in seawater. Corrosion Science 79: 89-99.
16. Kaksonen AH, Perrot F, Morris C, Rea S, Benvie B, Austin P, Hackl R. 2014. Evaluation of submerged bio-oxidation concept for refractory gold ores. Hydrometallurgy 141: 117-125.
17. Wong PY, Cheng KY, Kaksonen AH, Sutton DC, Ginige MP. 2013. A Novel Post Denitrification Configuration for Phosphorous Recovery using Denitrifying Polyphosphate Accumulating Organisms. Water Research 47:6488-6495.
18. Ginige MP, Kaksonen AH, Morris C, Shackelton M, Patterson B..2013. Bacterial community and groundwater quality changes in an anoxic aquifer during groundwater recharge with oxic treated wastewater. FEMS microbiology Ecology 85: 553-567.
19. Cibati A, Cheng K Y, Morris C, Ginige MP, Sahinkaya E, Pagnanelli F, Kaksonen AH. 2013. Selective precipitation of metals from synthetic spent refinery catalyst leach liquor with biogenic H2S produced in a lactate-fed anaerobic baffled reactor. Hydrometallurgy 139: 154-161.
20. Cheng K Y, Kaksonen AH, Cord-Ruwisch R. 2013. Ammonia recycling enables sustainable operation of bioelectrochemical systems. Bioresource Technology 143: 25-31.
21. Sahinkaya E, Dursun N, Ozkaya B, Kaksonen AH. 2013. Use of landfill leachate as a carbon source in a sulfidogenic fluidized-bed reactor for the treatment of acid mine drainage. Minerals Engineering 48: 56-60.
22. Futagami T,Morono Y,Terada T, Kaksonen AH, Inagaki F. 2013. Distribution of dehalogenation activity and characterization of organohalide-responsive genes in marine subsurface sediments of the Nankai Trough plate-subduction zone. Philosophical Transactions of the Royal Society B-Biological Sciences 368(1616) Article number 20120249. DOI: 10.1098/rstb.2012.0249.
23. Machuca LL, Bailey SI, Gubner R, Watkin ELJ, Ginige MP, Kaksonen AH, Heidersbach K. 2013. Effect of oxygen and biofilm on crevice corrosion of UNS S31803 and UNS N08825 in natural seawater. Corrosion Science 67: 242-255.
24. Ginige MP, Kayaalp AS, Cheng KY, Wylie J, Kaksonen AH. 2013. Biological phosphorous and nitrogen removal in sequencing batch reactors: Effects of cycle length, dissolved oxygen concentration and influent particulate matter. Water Science and Technology 68: 982-990.
25. McSweeney NJ, Franzmann PD, Tilbury AL, Nyeboer HJ, McKinnon AJ, Sutton DC, Kaksonen AH. 2013. Characterisation of a novel genus of oxalate-degrading beta-*Proteobacteria* isolated from a full-scale bioreactor treating Bayer liquor organic wastes. Advanced Materials research 825, 79-83.
26. Vestola EA, Mäkinen J, Korhonen T, Neitola R, Kaksonen AH. 2013. Optimisation of Acid Bioleaching of Metals from Pyrithic Ashes. Advanced Materials research 825, 520-523.
27. Kaksonen AH, Morris C, Hilario F, Rea S, Li J, Usher K, Wylie J, Ginige M, Cheng KY, du Plessis C. 2013. Two-stage airlift bioreactor system for efficient iron oxidation and jarosite precipitation. Advanced Materials Research 825, 242-245.
28. Cheng KY, Ginige MP, Kaksonen AH. 2012. Ano-cathodophilic biofilm catalyzes both anodic carbon oxidation and cathodic denitrification. Environmental Science & Technology 46 (18): 10372-10378.
29. Halinen A-K, Rahunen N, Määttä K, Nurmi P, Laukkanen K, Kaksonen AH, Riekkola-Vanhanen M, Puhakka JA. 2012. Microbial community dynamics during a demonstration-scale bioheap leaching operation. Hydrometallurgy 125-126: 34-41.
30. Chen G, Cheng KY, Ginige M, Kaksonen AH. 2012. Aerobic degradation of sulfanilic acid using activated sludge. Water Research 46: 145-151.
31. Song J, Franzmann PD, Lin J, Lin J, Kaksonen AH.2011. Respirometry studies of bioleaching of low grade chalcopyrite ore using six acidophilic strains. Minerals Engineering 24: 1139-1145.
32. Kaksonen AH, Lavonen L, Kuusenaho M, Kolli A, Närhi H, Vestola E, Puhakka JA, Tuovinen OH. 2011. Bioleaching and recovery of metals from final slag waste of the copper smelting industry. Minerals Engineering 24: 1113-1121.
33. McSweeney NJ, Tilbury AL, Nyeboer HJ, McKinnon AJ, Sutton DC, Franzmann PD, Kaksonen AH. 2011. Molecular characterisation of the microbial community of a full-scale bioreactor treating Bayer liquor organic waste. Minerals Engineering 24: 1094-1099.
34. Ucar D, Bekmezci OK, Kaksonen AH, Sahinkaya E. 2011. Sequential precipitation of Cu and Fe using a three-stage sulfidogenic fluidized-bed reactor system. Minerals Engineering 24: 1100-1105.
35. Bekmezci OK, Ucar D, Kaksonen AH, Sahinkaya E. 2011. Sulfidogenic Biotreatment of Synthetic Acid Mine Drainage and Sulfide Oxidation in Anaerobic Baffled Reactor. Journal of Hazardous Materials 189: 670-676.
36. Sahinkaya E, Hasar H, Kaksonen AH, Rittmann BE. 2011. Performance of a sulphide-oxidizing, sulphur-producing membrane biofilm reactor treating sulphide-containing bioreactor effluent. Environmental Science &Technology 45(9): 4080-4087
37. Lakaniemi A-M., Koskinen PEP, Nevatalo LM, Kaksonen AH, Puhakka JA. 2011. Biogenic hydrogen and methane production from reed canary grass. Biomass & Bioenergy 35: 773-780.
38. McSweeney NJ, Plumb JJ, Tilbury AL, Nyeboer HJ, McKinnon AJ, Kaksonen AH, Franzmann PD, Sutton DC. 2011. Comparison of microbial communities in pilot-scale bioreactors treating Bayer liquor organic wastes. Biodegradation 22: 397-407.
39. Sahinkaya E, Ucar D, Kaksonen AH. 2011. Sulfidogenic fluidized bed treatment of real acid mine drainage water. Bioresource Technology 102: 683-689.
40. Usher KM, Shaw JA, Kaksonen AH, Saunders M. 2010. Elemental composition of extracellular polymeric substances and granules in chalcopyrite bioleaching microbes. Hydrometallurgy 104: 376-381.
41. Vestola EA, Kuusenaho MK, Närhi HM, Tuovinen OH, Puhakka JA, Plumb JJ, Kaksonen AH. 2010. Acid bioleaching of solid waste materials from copper, steel and recycling industries. Hydrometallurgy 103(1-4): 74-79.
42. Nevatalo LM, Bijmans MFM, Lens PNL, Kaksonen AH, Puhakka JA. 2010. Hydrogenotrophic sulfate reduction in a gas-lift bioreactor operated at 9°C. Journal of Microbiology and Biotechnology 20(3): 615-621.
43. Lakaniemi A-M, Nevatalo LM, Kaksonen AH, Puhakka JA. 2010. Mine wastewater treatment using *Phalaris arundinacea* plant material hydrolyzate as substrate for sulfate-reducing bioreactor. Bioresource Technology 101(11): 3931-3939.
44. Nevatalo LM, Mäkinen AE, Kaksonen AH, Puhakka JA. 2010. Biological hydrogen sulfide production in an ethanol-lactate fed fluidized-bed bioreactor. Bioresource Technology 101(1): 276-284.
45. Nevatalo LM, Bijmans MFM, Lens PNL, Kaksonen AH, Puhakka JA. 2010. The effect of sub-optimal temperature on specific sulfidogenic activity of mesophilic SRB in an H2-fed membrane bioreactor. Process Biochemistry 45: 363-368.
46. Nurmi P, Özkaya P, Sasaki K, Kaksonen AH, Riekkola-Vanhanen M, Tuovinen OH, Puhakka JA.2010.Biooxidation and precipitation for iron and sulfate removal from heap bioleaching effluents. Hydrometallurgy 101:7-14.
47. Nurmi P, Özkaya P, Kaksonen AH, Tuovinen OH, Puhakka JA. 2009. Predictive modelling of Fe(III) precipitation in iron removal process for bioleaching circuits. Bioprocess and Biosystems Engineering 33(4): 449-456.
48. Nurmi P, Özkaya P, Kaksonen AH, Tuovinen OH, Puhakka JA. 2009. Process for biological oxidation and control of dissolved iron in bioleach liquors. Process Biochemistry 44(12): 1315-1322.
49. Auvinen H, Nevatalo LM, Kaksonen AH, Puhakka JA. 2009. Low temperature (9ºC) AMD treatment in a sulfidogenic bioreactor dominated by mesophilic *Desulfomicrobium* species. Biotechnology and Bioengineering 104(4): 740-751.
50. Futagami T, Morono Y, Terada T, Kaksonen AH, Inagaki F. 2009.Dehalogenation activities and distribution of reductive dehalogenase homologous genes in marine subsurface sediments. Applied and Environmental Microbiology 75(21): 6905-6909.
51. Halinen A-K, Rahunen N, Kaksonen AH, Puhakka JA. 2009. Heap bioleaching of a complex sulfide ore Part I: Effect of pH on metal extraction and microbial composition in pH controlled columns. Hydrometallurgy 98(1-2): 92-100.
52. Halinen A-K, Rahunen N, Kaksonen AH, Puhakka JA. 2009. Halinen A-K, Rahunen N, Kaksonen AH, Puhakka JA. 2009. Heap bioleaching of a complex sulfide ore: Part II. Effect of temperature on base metal extraction and bacterial compositions. Hydrometallurgy 98: 101-107.
53. Karnachuk OVo, Gerasimchuk AL, Banks D, Frengstad B, Stykon GA, Tikhonova ZL, Kaksonen A, Puhakka J, Yanenko AS, Pimenov NV (2009) Bacteria of the Sulfur Cycle in the Sediments of Gold Mine Tailings, Kuznetsk Basin, Russia. Microbiology 78(4): 483–491. ISSN 0026-2617. Original Russian Text © Karnachuk OVo, Gerasimchuk AL, Banks D, Frengstad B, Stykon GA, Tikhonova ZL, Kaksonen A, Puhakka J, Yanenko AS, Pimenov NV (2009), published in Mikrobiologiya 78(3): 535–544.
54. Nurmi P, Özkaya B, Kaksonen AH, Tuovinen OH, Puhakka JA. 2009. Inhibition kinetics of iron oxidation by *Leptospirillum ferriphilum* in the presence of ferric, nickel and zinc ions. Hydrometallurgy 97: 137-145.
55. Mäkinen AE, Kaksonen AH, Puhakka, JA. 2009. *Thermovorax subterraneus*, gen. nov., sp. nov., a thermophilic hydrogen producing bacterium isolated from geothermally active underground mine. Extremophiles 13(3): 505-510.
56. Mayilraj S, Kaksonen AH, Cord-Ruwisch R, Schumann P, Spröer C, Tindall BJ, Spring S. 2009. *Desulfonauticus autotrophicus* sp. nov., a novel thermophilic sulfate-reducing bacterium isolated from oil-production water and emended description of the genus *Desulfonauticus.* Extremophiles 13:247-255.
57. Nevatalo LM, Auvinen H, Bijmans MFM, Kaksonen AH, Lens PNL, Puhakka JA.2009. Low Temperature Sulfate Reduction for AMD Treatment. Advanced Materials Research 71-73: 553-556**.**
58. Vestola EA, Kuusenaho MK, Närhi HM, Tuovinen OH, Puhakka JA, Plumb JJ, Kaksonen AH, 2009. Biological solubilisation of metals from solid waste materials from copper, steel and recycling industries. Advanced Materials Research 71-73: 673-676.
59. Franzmann PD, Plumb JJ, Wylie JT, Robertson WJ, Douglas GB, Bastow TP, Kaksonen AH, Puhakka JA. 2008. Treatment of saline, acidic, metal-contaminated groundwater from the Western Australian Wheatbelt. Water Science and Technology 58(12): 2353-2364.
60. Nikhil, Koskinen PEP, Visa A, Kaksonen AH, Puhakka JA, Yli-Harja O. 2008. Clustering hybrid regression: a novel computational approach to study and model biohydrogen production through dark fermentation. Bioprocess and Biosystems Engineering 31: 631-640.
61. Karnachuk OV, Sasaki K, Gerasimchuk AL, Sukhanova O, Ivasenko DA, Kaksonen AH, Puhakka JA, Tuovinen OH. 2008. Precipitation of Cu-sulfides by copper-tolerant *Desulfovibrio* isolates. Geomicrobiology Journal 25: 219-227.
62. Kaksonen AH, Spring S, Schumann P, Kroppenstedt RM, Puhakka JA. 2008. *Desulfotomaculum alcoholivorax*, sp. nov., a moderately thermophilic spore-forming sulfate-reducer isolated from a fluidized-bed reactor treating acidic metal- and sulfate-containing wastewater. International Journal of Systematic and Evolutionary Microbiology 58: 833-838.
63. Koskinen PEP, Lay C-H, Beck SR, Tolvanen KES, Kaksonen AH, Örlygsson J, Lin C-Y, Puhakka JA. 2008. Bioprospecting thermophilic microorganisms from Icelandic hot springs for sustainable energy (H2 and/or ethanol) production. Energy & Fuels 22: 134-140.
64. Dopson M, Halinen A-K, Rahunen N, Boström D, Sundkvist J-E, Riekkola-Vanhanen M,Kaksonen AH, Puhakka JA. 2008. Silicate Mineral Dissolution During Heap Bioleaching. Biotechnology and Bioengineering 99: 811-820.
65. Özkaya B, Sahinkaya E, Nurmi P, Kaksonen AH, Puhakka JA. 2008. Biologically Fe2+ oxidizing fluidized bed reactor performance and controlling of Fe3+ recycle during heap bioleaching: an artificial neural network-based model. Bioprocess and Biosystems Engineering 31: 111-117.
66. Sahinkaya E, Ozkaya B, Kaksonen AH, Puhakka JA. 2007. Sulfidogenic fluidized-bed treatment of metal-containing wastewater at 8°C and 65°C temperature is limited by acetate oxidation. Water Research 41: 2706-2714.
67. Kaksonen AH, Puhakka JA. 2007. Sulfate reduction based bioprocesses for acid mine drainage treatment and metal recovery. Engineering in life Sciences 7(6): 541-564.
68. Ozkaya B, Sahinkaya E, Nurmi P, Kaksonen AH, Puhakka JA. 2007. Iron oxidation and precipitation in a simulated heap leaching solution in a *Leptospirillum ferriphilum* dominated biofilm reactor. Hydrometallurgy 88:67-74.
69. Van der Meer T, Kinnunen PH-M, Kaksonen AH, Puhakka JA. 2007. Effect of fluidized-bed carrier material on biological ferric sulphate generation. Minerals Engineering 20: 782-792.
70. Palmroth MRT, Koskinen PEP, Kaksonen AH, Münster U, Pichtel J, Puhakka JA. 2007. Metabolic and phylogenetic analysis of microbial communities during phytoremediation of soil contaminated with weathered hydrocarbons and heavy metals. Biodegradation 18: 769-782.
71. Ozkaya B, Sahinkaya E, Nurmi P, Kaksonen AH, Puhakka JA. 2007. Kinetics of iron oxidation by *Leptospirillum ferriphilum* dominated culture at pH below one. Biotechnology and Bioengineering 97: 1121-1127.
72. Dopson M, Hakala A-K, Rahunen N, Özkaya B, Sahinkaya E, Kaksonen AH, Lindström EB, Puhakka JA. 2007.Mineral and Iron Oxidation at Low Temperatures by Pure and Mixed Cultures of Acidophilic Microorganisms. Biotechnology and Bioengineering 97:1205-1215.
73. Koskinen, PEP, Kaksonen AH, Puhakka JA. 2007. The relationship between instability of H2 production and compositions of bacterial communities within a dark fermentation fluidized-bed bioreactor. Biotechnology and Bioengineering 97: 742-758.
74. Sahinkaya E, Özkaya B, Kaksonen AH, Puhakka JA. 2007. Neural network prediction of thermophilic (65oC) sulfidogenic fluidized-bed reactor performance for the treatment of metal-containing wastewater. Biotechnology and Bioengineering 97: 780-786.
75. Sahinkaya E, Özkaya B, Kaksonen AH, Puhakka JA. 2007. High-rate sulfidogenic fluidized-bed treatment of metal-containing wastewater at high temperature. Water Science and Technology 55: 269-275.
76. Kaksonen AH, Spring S, Schumann P, Kroppenstedt RM, Puhakka JA. 2007. *Desulfurispora thermophila* gen. nov., sp. nov., a thermophilic spore-forming sulfate-reducer isolated from a sulfidogenic fluidized-bed reactor. International Journal of Systematic and Evolutionary Microbiology 57: 1089-1094.
77. Sahinkaya E, Özkaya B, Kaksonen AH, Puhakka JA. 2007. Sulfidogenic fluidized-bed treatment of metal-containing wastewater at low and high temperatures. Biotechnology and Bioengineering 96: 1064-1072.
78. Kaksonen AH, Spring S, Schumann P, Kroppenstedt RM, Puhakka JA. 2007. *Desulfovirgula thermocuniculi* gen. nov., sp. nov. a thermophilic sulfate-reducer isolated from a geothermal underground mine in Japan. International Journal of Systematic and Evolutionary Microbiology. 57: 98-102.
79. Puhakka JA, Kinnunen PH-M, van der Meer T, Özkaya B, Sahinkaya E, Kaksonen AH, Nurmi P. 2007. High-Rate Fluidized-bed Ferric Sulfate Generation for Hydrometallurgical Applications. Advanced Materials Research 20-21: 54-57.
80. Özkaya B, Nurmi P, Sahinkaya E, Kaksonen AH, Puhakka JA. 2007. Temperature effects on the iron oxidation kinetics of a *Leptospirillum ferriphilum* dominated culture at pH below one. Advanced Materials Research 20-21: 465-468.
81. Salo-Zieman VLA, Sivonen T, Plumb JJ, Haddad CM, Laukkanen K, Kinnunen PH-M, Kaksonen AH, Franzmann PD, Puhakka JA. 2006. Characterization of a thermophilic sulfur oxidizing enrichment culture dominated by a *Sulfolobus* sp. obtained from an underground hot spring for use in extreme bioleaching conditions. Journal of Industrial Microbiology and Biotechnology 33: 984-994.
82. Kaksonen AH, Spring S, Schumann P, Kroppenstedt RM, Puhakka JA. 2006. *Desulfotomaculum thermosubterraneum* sp. nov. a thermophilic sulfate-reducer isolated from an underground mine located in geothermally active area. International Journal of Systematic and Evolutionary Microbiology 56: 2603-2608.
83. Kaksonen AH, Jussila MM, Lindström K, Suominen L. 2006. Rhizosphere effect of *Galega orientalis* in oil-contaminated soil. Soil Biology & Biochemistry 38:817-827.
84. Kaksonen AH, Plumb JJ, Robertson WJ, Spring S, Schumann P, Franzmann PD, Puhakka JA. 2006. Novel thermophilic sulfate-reducing bacteria from a geothermally active underground mine in Japan. Applied and Environmental Microbiology 72: 3759-3762.
85. Kaksonen AH, Plumb JJ, Robertson WJ, Riekkola-Vanhanen M, Franzmann PD, Puhakka JA. 2006. The performance, kinetics and microbiology of sulfidogenic fluidized-bed treatment of acidic metal- and sulfate-containing wastewater. Hydrometallurgy. 83: 204-213.
86. Karnachuk OV, Pimenov NV, Yusupov SK, Frank YA, Kaksonen AH, Puhakka JA, Ivanov MV, Lindström EB, Tuovinen OH. 2005. Sulphate reduction potential in sediments in the Norilsk mining area, northern Siberia. Geomicrobiology Journal 22: 11-25
87. Kaksonen AH, Plumb JJ, Gibson JAE, Franzmann PD, Puhakka JA. 2004. Simple organic electron donors support diverse sulfate-reducing communities in fluidized-bed reactors treating acidic metal- and sulfate-containing wastewater. FEMS Microbiology Ecology 47:279-289.
88. Kaksonen AH, Franzmann PD, Puhakka JA. 2004. Effects of hydraulic retention time and sulfide toxicity on ethanol and acetate oxidation in sulfate-reducing metal-precipitating fluidized-bed reactor. Biotechnology and Bioengineering 86:332-343
89. Kaksonen AH, Plumb JJ, Robertson WJ, Franzmann PD, Gibson JAE, Puhakka JA. 2004. Culturable diversity and community fatty acid profiling of sulfate-reducing fluidized-bed reactors treating acidic, metal-containing wastewater. Geomicrobiology Journal 21:469-480.
90. Kaksonen AH, Riekkola-Vanhanen M-L, Puhakka JA. 2003. Optimization of metal sulfide precipitation in fluidized-bed treatment of acidic wastewater. Water Research 37:255-266.
91. Kaksonen AH, Franzmann PD, Puhakka JA. 2003. Performance and ethanol oxidation kinetics of a sulfate-reducing fluidized-bed reactor treating acidic metal-containing wastewater. Biodegradation. 14:207-217.
92. Lindström K, Jussila MM, Hintsa H, Kaksonen A, Mokelke L, Mäkeläinen K, Pitkäjärvi J, Suominen L. 2003. Potential of the *Galega* – *Rhizobium galegae* system for bioremediation of oil-contaminated soil. Food Technology and Biotechnology 41(1):11-16.

***Book chapters***

1. Knight C, Cavanagh K, Munnings C, Moore T, Cheng KY, Kaksonen AH. 2013. Application of microbial fuel cells to power sensor networks for ecological monitoring. In: Wireless Sensor Networks and Ecological Monitoring. Series: Smart Sensors, Measurement and Instrumentation. Mukhopadhyay SC and Jiang J-A (Eds). Springer-Verlag: Berlin Heidelberg. ISBN 978-3-642-36364-1. Vol. 3, 151-178.
2. Kaksonen AH, Dopson M, Karnachuk O, Tuovinen OH, Puhakka JA. 2008. Biological iron oxidation and sulfate reduction in the treatment of acid mine drainage at low temperatures. In: Psychrophiles: from Biodiversity to Biotechnology, Eds. Margesin R, Schinner F, Marx J-C and Gerday C. Springer Verlag, Berlin Heidelberg. Pp. 429-454.
3. Puhakka JA, Riekkola-Vanhanen M, Kaksonen AH. 2007. Heap leaching of black schist. In Biomining – Theory and Practice, Eds. Rawlings DE and Johnson B. Springer. Pp. 139-151.
4. Kaksonen A. 1997. Environmental management as a competitive advantage: SWOT-analysis of the environmental management in Nokian Tyres plc. (Ympäristöjohtaminen kilpailutekijänä: Nokian Renkaat Oy:n ympäristöjohtamisen SWOT-analyysi). In J Paavola (ed.) Case studies in environmental economy and management. Tampere University of Technology. pp. 109-134.

***Refereed conference papers***

1. Kaksonen AH, Sahinkaya E. 2012. Review of sulphate reduction based bioprocesses for acid mine drainage treatment and metals recovery. In McCullough D, Lund MA and Wyse L (Eds) International Mine Water Association Annual Conference 2012. 30 September – 4 October, Bunbury, Western Australia. Pp. 207-214.
2. Machuca LL, Bailey SI, Gubner R, Watkin E, Ginige MP, Kaksonen AH. 2012. Crevice corrosion of duplex stainless steel in the presence of natural marine biofilms. International NACE corrosion conference, Salt Lake City, Utah, USA, 11-15 March, 2012. C2012-001486. 13 p.
3. Machuca LL. Bailey S, Watkin E, Ginige MP, Kaksonen AH (2011) Bacterial community structure in natural marine biofilms and the corrosion of carbon steel in seawater. 18th International Corrosion Congress, 20-24 November 2011, Perth, Australia. 11 p.
4. Machuca LL, Bailey SI, Gubner R, Watkin E, Kaksonen AH. Microbiologically influenced corrosion of high resistance alloys in seawater. International NACE corrosion conference, Houston, TX (USA) 14-18 March 2011. 15 p.
5. Kaksonen AH, Robertson WJ, Plumb JJ, Wylie JT, Bastow TP, Douglas GB, Franzmann PD. Nevatalo L, Sahinkaya E, Auvinen H, Mäkinen A, Lakaniemi A-M, Lavonen L, Kolli A, Özkaya B, Puhakka JA. 2010. Sulfate-reducing fluidized-bed bioreactor processes for acidic metal- and sulfate-containing waters. 2010 Society for Mining, Metallurgy and Exploration (SME) Annual Meeting. 28.2.-3.3.2010, Phoenix, Arizona. 6 p.
6. Kinnunen PH-M, Nevatalo LM, Riekkola-Vanhanen M, Kaksonen AH, Puhakka JA. 2005. Bioleaching of a complex sulfide ore in boreal conditions. Proceedings of the 16th International Biohydrometallurgy Symposium (IBS2005), 25-29 September 2005, Cape Town, South Africa. Pp. 245-253.
7. Kaksonen AH, Plumb JJ, Robertson WJ, Riekkola-Vanhanen M, Franzmann PD, Puhakka JA. 2005. The performance, kinetics and microbiology of sulfidogenic fluidized-bed treatment of acidic metal- and sulfate-containing wastewater. Proceedings of the 16th International Biohydrometallurgy Symposium (IBS2005), 25-29 September 2005, Cape Town, South Africa. Pp. 487-497.
8. Puhakka JA, Kaksonen AH, Koskinen P, Münster U, Jokinen R. 2005. PCR-DGGE approach for characterizing microbial communities from biological systems. In: Hupka, J. and Aranowski, R. (Eds.), Proceedings of 4th International Conference Oils and Environment AUZO 2005 International Conference. June 20 – 23, 2005, Gdansk, Poland. p. 203 – 209.
9. Puhakka JA, Kaksonen AH, Kinnunen PH-M. 2004. Fluidized-bed biofilms for process and environmental applications in mining and metallurgy. In Karzulovic A, Alfaro MA (eds) MassMin proud to be miners, Proceedings of the 2004 MassMin Conference, Santiago, Chile, August 22-25, 2004. Pp. 730-732.

**Non-refereed scientific articles**

***Non-refereed conference papers***

1. Wong P, Ginige MP, Kaksonen A, Cord-Ruwisch R, Sutton D, Cheng KY. 2014. Biological Phosphorus Recovery from Wastewater using EBPR-r: Simultaneous P and N removal under Aerobic Condition. IWA World Water Congress and Exhibition, Lisbon, Portugal, 21-26 September 2014. 6 p.
2. Rea S, McSweeney N, Degens B, Morris C, Siebert HM, Kaksonen A. 2014. Salt-tolerant bioleaching microbes for mining operations where fresh water is scarce. Biohydrometallurgy 2014 conference, Falmouth, UK 8-11 June 2014.
3. Sahinkaya E, Yurtsever A, Toker Y, Elcik H, Cakmaci M, Kaksonen AH. Biotreatment of As-containing acid mine drainage using sulfate reducing granules in an upflow anaerobic sludge blanket reactor. Submitted to Biohydrometallurgy ’14 conference. 9-11 June 2014. Falmouth, UK.
4. Vanderzalm J, Bekele E, Donn M, Barry K, Miotlinski K, Kaksonen A, Puzon G, McFarlane D, Dillon P. 2014. Managed aquifer recharge for water recycling. Ozwater’14, 29 April – 1 May 2014, Brisbane, QL, Australia.
5. Wong PY, Cheng KY, Kaksonen AH, Sutton DC, Ginige MP. A novel approach to biologically recover phosphorus from wastewater. Paper published at Ozwater’13, Perth, Australia, 7-9 May 2013. 6 pages.
6. Mäkinen AE, Nissilä M, Lay C-H, Karadag D, Kaksonen A, Puhakka J. Microbiology and optimization of operational parameters of dark fermentative H2 and bioelectricity production. 11th Finnish Conference of Environmental Sciences 2013 FCES'13. 4 p.
7. Tjandraatmadja, G., Kaksonen A, Vanderzalm, J, Puzon G, Wylie J, Sidhu J, Toze S, Goodman N, Gonzalez D, Barry K, Dillon P. Investigation of stormwater impact on water quality and distribution infrastructure – a framework for investigation. 2nd National Stormwater Conference, Melbourne, Australia, 15th - 19th October 2012. Stormwater Industry Association (SIA) and/or GEMS Pty Limited. 8 p.
8. Bryan C, Watkin E, Harrison S, Kaksonen A. 2012. From Wii to WEEE: A review of the application of biohydrometallurgy to electronic wastes. MEI Biohydrometallurgy Conference, 18th-20th June in Falmouth, **UK. 11 p.**
9. Sahinkaya E, Dursun N, Ozkaya B, Kaksonen AH. 2012.Use of landfill leachate as a carbon source in a sulfidogenic fluidized-bed reactor for the treatment of acid mine drainage. MEI Biohydrometallurgy Conference, 18th-20th June in Falmouth, **UK. 11 p.**
10. Kaksonen AH, Lavonen L, Kuusenaho M, Kolli A, Närhi H, Vestola E, Tuovinen OH, Puhakka JA. 2010. Bioleaching and recovery of metals from final slag waste of copper smelting industry. Bio- & Hydrometallurgy ’10 (Biohydromet’10) conference 8-9 November, 2010, Cape Town, South Africa. 32 p.
11. Ucar D, Sahinkaya E, Kaksonen AH. 2010 Sequential precipitation of Cu and Fe using a three-stage sulfidogenic fluidized-bed reactor system. Bio- & Hydrometallurgy ’10 (Biohydromet’10) conference 8-9 November, 2010, Cape Town, South Africa. 19 p.
12. Koskinen P, Lay C-H, Beck S, Tolvanen K, Kaksonen A, Örlygsson J, Lin P-J, Wu S-Y, Lin C-Y, Puhakka JA. 2008. Hydrogen production by thermophiles. IEA Hydrogen Agreement, Task 21: Biohydrogen, Experts Meeting 27-29 February, 2008, IBMC, Porto, Portugal. 18 p.
13. Sahinkaya E, Kaksonen AH, Puhakka JA. 2006.Performance of high-rate fluidized-bed reactor for the treatment of acid mine drainage water at high temperatures. Proceedings of the 7th International Symposium on Waste Management Problems in Agro-Industries. Amsterdam RAI, The Netherlands, 27-29 September 2006. pp. 425-431.
14. Koskinen PEP, Kaksonen AH, Puhakka JA. 2005. Fluidized-bed bioreactor for hydrogen production through fermentation of glucose. 2nd European Hydrogen Energy Conference. November 22 – 25, 2005, Zaragoza, Spain. Pp. 346-349.
15. Kaksonen AH, Franzmann PD, Puhakka JA. 2004. Influence of hydraulic retention time and sulfide toxicity on sulfidogenic FBR. 2004. In Verstrate, W. (ed) Proceedings of the European Symposium on Environmental Biotechnology, ESEB 2004, 25-28 April, 2004, Oostende, Belgium. Taylor & Francis Group plc, London, UK. Pp. 427-431.
16. Kaksonen AH, Riekkola-Vanhanen M-L, Fisher SJ, Franzmann PD, Puhakka JA. 2002. Loading rates and substrate utilization kinetics of fluidized-bed treatment of simulated zinc processing wastewater. In Björkman B, Samuelsson C and Wikström J-O (eds.) TMS Fall 2002 Extraction and Processing Division Meeting on Recycling and Waste Treatment in Mineral and Metal Processing: Technical and Economic Aspects. Vol. 1, pp. 585-592. June 16-20 2002, Luleå, Sweden.
17. Kaksonen A, Riekkola-Vanhanen M-L, Puhakka JA. 2001. Sulfate-reducing suspension and biofilm reactors for acidic sulfate and metal containing wastewaters. In VST Ciminelli and O Garcia Jr. (eds.) Biohydrometallurgy: Fundamentals, Technology and Sustainable Development, Part B. Elsevier Science B.V., pp. 451-458. 14th International Biohydrometallurgy Symposium –IBS2001: Biohydrometallurgy and the Environment. September 16-19, 2001, Ouro Preto – Minais Gerais, Brazil.
18. Suominen LI, Jussila MM, Hintsa H, Mokelke L, Kaksonen A, Lindström K. 2001. Phytoremediation of oil polluted soils in galega orientalis rhizosphere. The First European Bioremediation Conference in Chania, Grete, Creece July 2-5, 2001. pp. 463-466.
19. Kaksonen A, Haukilehto K, Puhakka JA. 2000. Start-up of sulfate-reducing reactors for zinc and ferrous iron containing wastewaters. 4th International Symposium on Environmental Biotechnology (ISEB), April 10-12, 2000, Noordwijkerhout, The Netherlands. Pp. 552-555.
20. Kaksonen AH, Haukilehto K, Puhakka JA. 2000. Start-up of sulfate-reducing suspension and biofilm reactors for acidic zinc and ferrous iron containing wastewaters. In: Tammirinne M. (ed.). International Conference on Practical Applications in Environmental Geotechnology, Ecogeo 2000. September 4-6, 2000, Helsinki, Finland. Pp. 245 - 252.

***Conference abstracts and presentations***

1. Halstrom S, Wylie J, Morgan M, Walsh T, Kaksonen AH, Puzon GJ. 2014. Genomic profiling of a water distribution system colonised by Naegleria spp. Abstract submitted to 2014 Water Quality and Technology Conference, 16-20 November 2014, Toronto, Ontario USA.
2. Miller H, Dejean G, Wylie J, Kaksonen AH, Sutton D, Puzon GJ. 2014. Reduced efficiency of chlorine disinfection when Nagleria fowleri is associated with pipe wall biofilm in drinking water distribution systems. Abstract submitted to 2014 Water Quality and Technology Conference, 16-20 November 2014, Toronto, Ontario USA.
3. Rea S, McSweeney N, Degens B, Kaksonen A. 2014. Salt-tolerant bioleaching microbes for mining operations where fresh water is scarce. Biohydrometallurgy 2014 conference, Falmouth, UK 8-11 June 2014.
4. Sahinkaya E, Toker Y, Yurtsever A, Elcik H, Cakmaci M, Kaksonen AH. 2014. Biotreatment of As-containing acid mine drainage using sulfate reducing granules in an upflow anaerobic sludge blanket (UASB) reactor. Abstract submitted to Biohydrometallurgy 2014 conference to be held in Falmouth, UK 8-11 June 2014.
5. Das G, Kaksonen AH, Li J. 2014. Iron removal from mineral processing streams. ALTA 2014 Nickel-Cobalt-Copper Conference. 24-31 May 3014, Perth, WA, Australia.
6. Li J, McDonald R, Kaksonen A, Morris C, Rea S, Usher K, Wylie J, Hilario F, du Plessis CA. 2014. Applications of Rietveld Based QXRD Analysis in Mineral Processing. The Australian X-ray Analytical Association Conference 2014, Perth, WA, Australia, 9-13 February 2014. Abstract.
7. Arnold, A.-L., Kaksonen A.H., Wylie, J., Tjandraatmadja G., Barry, K., Goodman, N., Gonzalez, D., Dillon, P., Puzon, G.J. 2013. Detection of *Legionella* spp. in drinking water and recycled stormwater samples. 8th International conference on *Legionella*. 29th October-1 November 2013. Melbourne Australia. Abstract and poster presentation.
8. McSweeney NJ, Franzmann PD, Tilbury AL, Nyeboer HJ, McKinnon AJ, Sutton DC, Kaksonen AH. 2013. Characterisation of a novel genus of oxalate-degrading beta-Proteobacteria isolated from a full-scale bioreactor treating Bayer liquor organic wastes. 20th International Biohydrometallurgy Symposium. Antofagasta, Chile 8-11 October 2013. Abstract and poster presentation.
9. Vestola EA, Mäkinen J, Korhonen T, Neitola R, Kaksonen AH. 2013. Optimisation of acid bioleaching of metals from pyrithic ashes. 20th International Biohydrometallurgy Symposium. Antofagasta, Chile 8-11 October 2013. Abstract and poster presentation.
10. Kaksonen AH, Morris C, Hilario F, Rea S, Li J, Usher K, Wylie J, Ginige M, Cheng KY, du Plessis C. 2013. Two-stage airlift bioreactor system for efficient iron oxidation and jarosite precipitation. 20th International Biohydrometallurgy Symposium. Antofagasta, Chile 8-11 October 2013. Abstract and oral presentation.
11. Corbett MK, Kaksonen AH, Watkin ELJ. 2013. Saline water bioleaching with halotolerant iron/sulphur oxidising microorganisms. 20th International Biohydrometallurgy Symposium. Antofagasta, Chile 8-11 October 2013. Abstract and poster presentation.
12. Thorne, R.L., Kaksonen, A.H., Anand, R. 2013. Bacterial communities inside soil iron nodules. Goldschmidt 2013 Conference, August 25-30, 2013, Florence, Italy. Abstract
13. Wong, P.Y., Cheng, K.Y.\*, Kaksonen, A.H.\*, Sutton, D.C.\*\* and Ginige, M.P.\* 2013. Can Nitrogen Fixing Bacteria be used to Treat Nitrogen Deficient Wastewater in a Bioelectrochemical System? Abstract submitted to 4th International Microbial Fuel Cell Conference 1-4 September 2013, Cairns, Australia. 2 page extended abstract and oral presentation.
14. Cheng, K.Y., Cord-Ruwisch R., Kaksonen AH. 2013. Bioelectrochemical ammonia recovery and high-purity hydrogen production from synthetic municipal wastewater. 10th IWA Leading Edge Conference on Water and Wastewater Technologies. Bordeaux, France 2-6 June 2013. 2-page extended abstract and poster presentation. Poster awarded as the best poster.
15. Puzon GJ, Kaksonen AH, Wylie J, Tjandraatmadja G, Sidhu J, Toze S, Barry K, Vanderzalm J, Goodman N, Dennis G, Dillon P. 2013. Investigation of stormwater’s impact on biofilm formation and water quality in distribution infrastructure. Ozwater’13, 7-9 May 2013, Perth, Australia. Abstract and poster presentation.
16. Mäkinen AE, Nissilä M, Lay C-H, Karadag D, Kaksonen A, Puhakka J. Microbiology and optimization of operational parameters of dark fermentative H2 and bioelectricity production. 11th Finnish Conference of Environmental Sciences 2013 FCES'13. Oral presentation.
17. Bimakr F, Htwe TZ, Cheng KY, Ginige MP, Puzon G, Sutton D, Watkin E, Bennet-Chambers M, Kaksonen AH. 2013. Electrochemical monitoring of biofilm formation on graphite electrodes in dam water, and detachment following chlorine treatment. Ozwater '13, 7-9 May 2013, Perth. Abstract and electronic poster presentation.
18. Wong PY, Cheng KY, Kaksonen AH, Sutton DC, Ginige MP. A novel approach to biologically recover phosphorus from wastewater. Paper published at Ozwater’13, Perth, Australia, 7-9 May 2013. Oral presentation.
19. Kaksonen AH, Sahinkaya E. 2012. Review of sulphate reduction based bioprocesses for acid mine drainage treatment and metals recovery. In McCullough D, Lund MA and Wyse L (Eds) International Mine Water Association Annual Conference 2012. 30 September – 4 October, Bunbury, Western Australia. Oral presentation.
20. Bryan C, Watkin E, Harrison S, Kaksonen A. 2012. From Wii to WEEE: A review of the application of biohydrometallurgy to electronic wastes. MEI Biohydrometallurgy Conference, 18th-20th June in Falmouth, **UK.**
21. Machuca LL, Bailey SI, Gubner R, Watkin E, Ginige MP, Kaksonen AH. Crevice corrosion of duplex stainless steel in the presence of natural marine biofilms. International NACE corrosion conference, Salt Lake City, Utah, USA, 11-15 March, 2012. C2012-001486. Oral presentation.
22. Usher K, Kaksonen A, Marney D. Effects of natural microbial communities in soil on the corrosion rate of carbon steel. 14th International Symposium on Microbial Ecology, ISME14, Copenhagen, Denmark, 19-24 August 2012. Abstract.
23. Kaksonen, A, Austin S, McCredden T, Morris C, Watkin E, Inagaki F. Enrichment and characterization of sulfate reducing bacteria from subseafloor sediments of the Nankai Trough seismogenic zone. Abstract submitted to the 14th International Symposium on Microbial Ecology, ISME14, Copenhagen, Denmark, 19-24 August 2012. Abstract and poster presentation.
24. Tjandraatmadja, G., Kaksonen A, Vanderzalm, J, Puzon G, Wylie J, Sidhu J, Toze S, Goodman N, Gonzalez D, Barry K, Dillon P. Investigation of stormwater impact on water quality and distribution infrastructure – a framework for investigation. 2nd National Stormwater Conference, Melbourne, Australia, 15th - 19th October 2012. Stormwater Industry Association (SIA) and/or GEMS Pty Limited. Oral presentation.
25. Puzon G, Kaksonen A, Jones S, Reyes De Corcuera J. Electrochemical impedance spectroscopy for detecting biofilm growth in drinking water pipelines. Abstract submitted to Biosensors 2012 conference, Cancun, Mexico, 15-18 May 2012. Abstract and poster presentation.
26. Ginige M, Kayaalp A, Cheng K Y, Kaksonen AH. Biological phosphorous and nitrogen removal in sequencing batch reactors: Effects of cycle duration, dissolved oxygen concentration and influent particulate matter. 9th IWA Leading-Edge Conference on Water and Wastewater Technologies, Brisbane, QLD, Australia, 3-7 June 2012. Abstract and poster presentation.
27. Cheng K Y, Ginige M, Kaksonen AH. 2012. Enhanced biological phosphorus removal in wastewaters using bioelectrochemical systems. 3rd Sustainable Phosphorus Summit, Sydney, Australia, 29 Feb - 2 Mar 2012. Abstract and 5 min oral presentation.
28. Trefry M, Regenauer-Lieb K, Cook J, Harvey S, Douglas G, Kaksonen A, Wylie J, Wilkes P, Puzon G (2012) Shallow heat rejection – a demonstration project West Australian Geothermal Energy Symposium 2012. Abstract and oral presentation.
29. Machuca LL. Bailey S, Watkin E, Ginige MP, Kaksonen AH (2011) Bacterial community structure in natural marine biofilms and the corrosion of carbon steel in seawater. 18th International Corrosion Congress, 20-24 November 2011, Perth, Australia. Oral presentation.
30. Puzon GJ, Wylie J, Ginige M, Kaksonen A (2011) Comparing the microbial ecology of Naegleria in pre-chlorinated water distribution pipe wall biofilm in Western Australia. IWA Biofilm Conference 2011: Processes in biofilms, 27-30 October 2011, Shanghai, China. Abstract and poster presentation.
31. Puzon GJ, Kaksonen A, Reyes De Corcuera J (2011) Bioelectrochemical detection of pipe wall biofilm growth in drinking water pipelines. IWA Biofilm Conference 2011: Processes in biofilms, 27-30 October 2011, Shanghai, China. Abstract and poster presentation.
32. Vestola E.A., Kuusenaho M.K., Närhi H.M., Tuovinen O.H., Puhakka J.A., Plumb J.J., Kaksonen A.H. 2011. Stirred tank bioleaching experiments of solid waste materials from copper, steel and recycling industries. Qiu G., Jiang T., Qiu W., Liu X., Yang Y., Wang H. (eds) IBS2011 Biohydrometallurgy: Biotech key to unlock mineral resources value. Proceedings of the 19th International Biohydrometallurgy Symposium in Changsha, China, September 18-22, 2011. Central South University Press. Vol. 2. P. 1135. Abstract and oral presentation.
33. Machuca LL, Bailey SI, Gubner R, Watkin E, Kaksonen AH. Microbiologically influenced corrosion of high resistance alloys in seawater. International NACE corrosion conference, Houston, TX (USA) 14-18 March 2011. Oral presentation.
34. Kaksonen AH, Lavonen L, Kuusenaho M, Kolli A, Närhi H, Vestola E, Tuovinen OH, Puhakka JA. 2010. Bioleaching and recovery of metals from final slag waste of copper smelting industry. Bio- & Hydrometallurgy ’10 (Biohydromet’10) conference 8-9 November, 2010, Cape Town, South Africa. Abstract and oral presentation.
35. Ucar D, Sahinkaya E, Kaksonen AH. 2010 Sequential precipitation of Cu and Fe using a three-stage sulfidogenic fluidized-bed reactor system. Bio- & Hydrometallurgy ’10 (Biohydromet’10) conference 8-9 November, 2010, Cape Town, South Africa. Abstract and oral presentation.
36. McSweeney NJ, Kaksonen AH, Tilbury AL, Nyeboer HJ, McKinnon AJ, Sutton DC, Franzmann PD. 2010. Molecular characterisation of the microbial community of a full-scale bioreactor treating Bayer liquor organic wastes. Bio- & Hydrometallurgy ’10 (Biohydromet’10) conference 8-9 November, 2010, Cape Town, South Africa. Abstract and oral presentation.
37. Song J, Franzmann PD, Lin J, Lin J, Kaksonen AH. 2010. Respirometry studies of bioleaching of low grade chalcopyrite ore using six acidophilic strains. Bio- & Hydrometallurgy ’10 (Biohydromet’10) conference 8-9 November, 2010, Cape Town, South Africa. Abstract and oral presentation.
38. Kaksonen A.H., **Morono Y., Futagami T.,** Masui N.,**Terada T.,** Tanaka S.,Morris C. **Inagaki F.** Sulfate reduction activities and distribution of dissimilatory sulfite reductase genes in the seismogenic zone of Nankai Trough. 13th International Symposium on Microbial Ecology (ISME 13). 22.27.8.2010, Seattle, WA, USA. Abstract and poster presentation.
39. Kaksonen AH, Robertson WJ, Plumb JJ, Wylie JT, Bastow TP, Douglas GB, Franzmann PD. Nevatalo L, Sahinkaya E, Auvinen H, Mäkinen A, Lakaniemi A-M, Lavonen L, Kolli A, Özkaya B, Puhakka JA. 2010. Sulfate-reducing fluidized-bed bioreactor processes for acidic metal- and sulfate-containing waters. 2010 Society for Mining, Metallurgy and Exploration (SME) Annual Meeting. 28.2.-3.3.2010, Phoenix, Arizona. Abstract and oral presentation.
40. Machuca L, Bailey S, Watkin E, Gubner R, Kaksonen A, Ginige M, Heidersbach K, Thill D. 2009. Microbiologically influenced corrosion of common alloys used for subsea applications. Chevron Technology Showcase. 5 November 2009, Curtin University of Technology. Poster presentation.
41. Nevatalo LM, Auvinen H, Lakaniemi A-M, Mäkinen AE, Bijmans MFM, Kaksonen AH, Lens PNL, Puhakka JA. 2009. Sulfate-reducing bioprocesses at 9 and 35°C for mine waste water treatment. The Finnish Conference of Environmental Sciences, 14.-15.5.09 Lahti, Finland. Abstract and oral presentation.
42. Saito H, Kaksonen AH, Morono Y, Inagaki F, Suzuki N. Microbial biomarkers in deep subsurface sediments from IODP NanTroSEIZE Site C0001, Nankai Trough, Japan. The 24th International Meeting on Organic Geochemistry IMOG, Bremen, Germany, September 6-11, 2009. Abstract and poster presentation.
43. Inagaki F, Kaksonen A, Morono Y. 2009. Subseafloor life and biosphere in the seismogenic plate-subduction zone. 109th ASM General Meeting, Philadelphia, Pennsylvania, May 17-21, 2009. Invited oral presentation.
44. Kaksonen AH, Inagaki F, and IODP Expeditions 314, 315 and 316 Scientists. 2008. Distribution of microbial life in marine subsurface sediments of the seismogenic subduction zone. In Kato K. and Kimura H (eds.) Abstract book of 7th International Symposium for Subsurface Microbiology (ISSM2008), November 16-21, 2008, Shizuoka, Japan. p. 143. Abstract and oral presentation.
45. Kaksonen AH, Morono Y and Inagaki F. 2008. Distribution of microbial communities in deep subseafloor sediments of the seismogenic subduction zone, the Nankai Trough. 12th International Symposium on Microbial Ecology (ISME 12), Cairns, Australia, August 17-22, 2008. Abstract and poster presentation.
46. Nurmi P, Özkaya B, Kaksonen AH, Puhakka JA, Tuovinen OH. 2008. Developing a kinetic model for bacterial oxidation of iron in the presence of ferric iron, zinc and nickel. 108th General Meeting of the American Society for Microbiology, Boston, USA, June 1-5, 2008. Poster presentation.
47. Nevatalo LM, Auvinen H, Kaksonen AH, Puhakka JA, Bijmans M, Lens P. 2008. Low temperature sulfate reduction. 1st International Conference G16 Research Frontiers in, Chalcogen Cycle Science and Technology, Marie Curie Excellence Grant Biogeological Engineering, Wageningen, The Netherlands, 28-29 May 2008. Poster presentation.
48. Koskinen P, Lay C-H, Beck S, Tolvanen K, Kaksonen A, Örlygsson J, Lin P-J, Wu S-Y, Lin C-Y, Puhakka JA. 2008. Hydrogen production by thermophiles. IEA Hydrogen Agreement, Task 21: Biohydrogen, Experts Meeting 27-29 February, 2008, IBMC, Porto, Portugal.
49. Halinen A-K, Rahunen N, Määttä K, Kaksonen AH, Riekkola-Vanhanen M. Puhakka J. 2007. Microbial communities in the Talvivaara pilot-scale bioheap. Advanced Materials Research 20-21: 579. Trans Tech Publication, Switzerland, online at <http://www.scientific.net>. Proceedings of the IBS2007, 17th International Biohydrometallurgy Symposium, 2-5 September 2007, Frankfurt, Germany. Abstract and poster presentation.
50. Lakaniemi A-M-, Nevatalo LM, Kaksonen AH, Puhakka JA. 2007. Hydrolysed cellulose material as sulfate reduction electron donor to treat metal- and sulfate containing waste water. Advanced Materials Research 20-21: 326. Trans Tech Publication, Switzerland, online at <http://www.scientific.net>. Proceedings of the IBS2007, 17th International Biohydrometallurgy Symposium, 2-5 September 2007, Frankfurt, Germany. Abstract and poster presentation.
51. Dopson M, Kupka D, Halinen A-K, Rahunen N, Özkaya B, Sahinkaya E, Rzhepishevska OI, Kaksonen AH, Karnachuk OV, Tuovinen OH, Puhakka JA. 2007. Iron oxidation and bioleaching potential at low temperatures. Advanced Materials Research 20-21: 578. Trans Tech Publication, Switzerland, online at <http://www.scientific.net> IBS2007, 17th International Biohydrometallurgy Symposium, 2-5 September 2007, Frankfurt, Germany. Abstract and poster presentation.
52. Franzmann PD, Plumb JJ, Wylie JT, Robertson WJ, Douglas GB, Bastow TP, Kaksonen AH, Puhakka JA. 2007. Treatment of saline, acidic, metal-contaminated groundwater from the Western Australian Wheatbelt, Proceedings from the 2nd IWA-ASPIRE Conference and Exhibition, Perth, WA.
53. Koskinen PEP, Kaksonen AH, Puhakka JA. 2007. Bacterial community composition dynamics in suspended biomass and biofilm reactors during H2 fermentation from glucose. European Commission Information & Brokerage Day, Hydrogen & Fuel Cells. Prague, Czech Republic, February 1, 2007. Poster presentation.
54. Koskinen PEP, Kaksonen AH, Puhakka JA. 2007. Fluidized-bed bioreactor for hydrogen production through fermentation of glucose. European Commission Information & Brokerage Day, Hydrogen & Fuel Cells. Prague, Czech Republic, February 1, 2007. Poster presentation.
55. Sahinkaya E, Kaksonen AH, Puhakka JA. 2006.Performance of high-rate fluidized-bed reactor for the treatment of acid mine drainage water at high temperatures. Proceedings of the 7th International Symposium on Waste Management Problems in Agro-Industries. Amsterdam RAI, The Netherlands, 27-29 September 2006. pp. 425-431. Poster presentation.
56. Kaksonen AH, Hämäläinen AE, Salo-Zieman VLA, Sahinkaya E, Kinnunen PH-M, Puhakka JA. 2006. Biogeochemical cycling of sulfur, carbon, iron and hydrogen in geothermal subsurface: multiple biotechnical prospects. 11th International Symposium on Microbial Ecology – ISME-11, The Hidden Powers - Microbial Communities in Action, Vienna, Austria, August 20-25, 2006. Abstract and poster presentation.
57. Karnachuk OV, Pimenov NV, Yusupov SK, Frank YA, Gerasimchuk AL, Dedinsky V, Kaksonen AH, Lindström EB, Ivanov MV, Puhakka JA, Tuovinen OH. 2006.Sulfate reduction in the oxic zone of mine tailings and metal-polluted sediments in boreal ecosystems. 11th International Symposium on Microbial Ecology – ISME-11, The Hidden Powers - Microbial Communities in Action, Vienna, Austria, August 20-25, 2006. Abstract and poster presentation.
58. Koskinen PEP, Kaksonen AH, Puhakka JA. 2006. Bacterial community composition dynamics in suspended biomass and biofilm reactors during H2 fermentation from glucose. 11th International Symposium on Microbial Ecology – ISME-11, The Hidden Powers - Microbial Communities in Action, Vienna, Austria, August 20-25, 2006. Abstract and poster presentation.
59. Nevatalo L, Hämäläinen A, Kaksonen AH, Puhakka P, Riekkola-Vanhanen M-L. 2006. The effect of temperature on sulfate reduction in fluidized bed bioreactor. International Symposium on Environmental Biotechnology ISEB ESEB JSEB, Leipzig, July 9-13, 2006. Abstract and poster presentation.
60. Hakala A-K, Rahunen N, Kaksonen AH, Puhakka JA. 2006. Bioleaching of low-grade multimetal sulfide ore at low temperatures. International Conference on Alpine and Polar Microbiology. March 27-30, 2006; Innsbruck, Austria. Abstract and oral presentation.
61. Koskinen PEP, Kaksonen AH, Puhakka JA. 2005. Dynamics of microbial community during H2-fermentation from glucose in fluidized-bed bioreactor. The 2005 Biohydrogen Technology Symposium and the 3rd International Workshop on Innovative Anaerobic Technology, December 9 – 11, Taichung, Taiwan. P. 7 – 1
62. Puhakka JA, Karp M, Kaksonen AH, Koskinen PEP, Immonen N, Tolvanen K, Jokinen R 2005. Molecular approaches for characterizing microbial communities from biological systems. The 2005 Biohydrogen Technology Symposium and the 3rd International Workshop on Innovative Anaerobic Technology, December 9 – 11, Taichung, Taiwan. Keynote speaker. P. 37 - 44.
63. Koskinen PEP, Kaksonen AH, Puhakka JA. 2005. Fluidized-bed bioreactor for hydrogen production through fermentation of glucose. 2nd European Hydrogen Energy Conference. November 22 – 25, 2005, Zaragoza, Spain..
64. Kinnunen PH-M, Nevatalo LM, Riekkola-Vanhanen M, Kaksonen AH, Puhakka JA. 2005. Bioleaching of a complex sulfide ore in boreal conditions. Proceedings of the 16th International Biohydrometallurgy Symposium (IBS2005), 25-29 September 2005, Cape Town, South Africa. Abstract, short oral presentation and a poster.
65. Kaksonen AH, Plumb JJ, Robertson WJ, Riekkola-Vanhanen M, Franzmann PD, Puhakka JA. 2005. The performance, kinetics and microbiology of sulfidogenic fluidized-bed treatment of acidic metal- and sulfate-containing wastewater. Proceedings of the 16th International Biohydrometallurgy Symposium (IBS2005), 25-29 September 2005, Cape Town, South Africa. Abstract, short oral presentation and a poster.
66. Puhakka JA, Kaksonen AH, Koskinen P, Münster U, Jokinen R. 2005. PCR-DGGE approach for characterizing microbial communities from biological systems. In: Hupka, J. and Aranowski, R. (Eds.), Proceedings of 4th International Conference Oils and Environment AUZO 2005 International Conference. June 20 – 23, 2005, Gdansk, Poland. Oral presentation.
67. Kaksonen, AH, Puhakka, JA, Franzmann, PD, Plumb, JJ, Robertson WJ. 2005. Fluidised bed reactors treating acid mine waste – a new application. Fifth Australian Workshop on Acid Drainage. August 29 – 31, 2005, Fremantle, Western Australia. Poster presentation
68. Kaksonen A. 2004. Biological treatment of mining wastewaters. Bio- and hydrometallurgy seminar, Kokkola, September 7 – 8, 2004. Oral presentation.
69. Kaksonen AH, Plumb JJ, Robertson WJ, Spring S, Schumann P, Kroppenstedt RM, Franzmann PD, Puhakka JA. 2004.Enrichment and isolation of novel thermophilic sulfate-reducing bacteria from a geothermally active underground mine in Japan. 10th International Symposium on Microbial Ecology ISME-10, Cancun, Mexico, August 22-27, 2004. Abstract and poster presentation
70. Puhakka JA, Kaksonen AH, Kinnunen PH-M. 2004. Fluidized-bed biofilms for process and environmental applications in mining and metallurgy. In Karzulovic A, Alfaro MA (eds) MassMin proud to be miners, Proceedings of the 2004 MassMin Conference, Santiago, Chile, August 22-25, 2004. Oral presentation.
71. Kaksonen AH, Plumb JJ, Robertson WJ, Spring S, Schumann P, Kroppenstedt RM, Franzmann PD, Puhakka JA.2004. Enrichment and isolation of novel thermophilic sulfate-reducing bacteria from a geothermally active underground mine in Japan. Astrobiological problems for physicists and biologists, Joint meeting with the Finnish Astrobiology Network (FAN), Tuorla Observatory, Piikkiö, Finland, August 12-15, 2004. Oral presentation.
72. Koskinen PEP, Pratap N, Kaksonen AH, Puhakka JA. 2004. Applying modern systems biological settings to fermentative hydrogen production in bioreactors. In Aho T, Lähdesmäki H and Yli-Harja O (eds.) Proceedings of 2nd TICSP Workshop on Computational Systems Biology, WCSB 2004, Silja Opera, Helsinki- St. Petersburg, June 14-16, 2004. 2 page abstract and poster presentation.
73. Kaksonen AH, Franzmann PD, Puhakka JA. 2004. Influence of hydraulic retention time and sulfide toxicity on sulfidogenic FBR. 2004. The European Symposium on Environmental Biotechnology, ESEB 2004, 25-28 April, 2004, Oostende, Belgium. Poster presentation.
74. Karnachuk OV, Puhakka JA, Frank YA, Yusupov SK, Kaksonen A, Pimenov NV, Ivanov MV, Lindström EB, Tuovinen OH. 2004. Bacterial sulfate reduction in Russian Arctic sediments impacted by the mining industry. International Conference on Arctic Microbiology, Rovaniemi, Finland. March 22 - 25, 2004, p. 29. Abstract and oral presentation.
75. Kaksonen A, Puhakka J. 2003. Biological treatment of acidic metal-containing wastewater. Seminar at the Indian Institute of Science, Bangalore, India, November 5, 2003. Oral presentation.
76. Kaksonen AH, Plumb JJ, Gibson JAE, Franzmann PD, Puhakka JA. 2003. Phylogeny of bacterial communities in sulfate-reducing fluidized-bed reactors treating acidic metal-containing wastewater. 15th International Biohydrometallurgy Symposium – IBS2003, 14-19 September 2003, Athens, Greece. Abstract and poster presentation.
77. Kaksonen AH, Plumb JJ, Franzmann PD, Puhakka JA. 2003. Phylogeny of bacterial communities in sulfate-reducing fluidized-bed reactors treating acidic metal-containing wastewater. 6th Finnish Conference of Environmental Sciences. 8-9 May 2003, Joensuu, Finland. Oral presentation.
78. Kaksonen AH, Riekkola-Vanhanen M-L, Fisher SJ, Franzmann PD, Puhakka JA. 2002. Loading rates and substrate utilization kinetics of fluidized-bed treatment of simulated zinc processing wastewater. TMS Fall 2002 Extraction and Processing Division Meeting on Recycling and Waste Treatment in Mineral and Metal Processing: Technical and Economic Aspects. June 16-20 2002, Luleå, Sweden. Oral presentation.
79. Kaksonen AH, Riekkola-Vanhanen M-L, Franzmann PD, Puhakka JA. 2002. Sulfate-reducing fluidised bed reactors for acidic sulfate and metal containing wastewaters. IWA World Water Congress April 1-12, 2002, Melbourne, Australia. Poster presentation.
80. Kaksonen AH, Plumb JJ, Franzmann PD, Puhakka JA. 2002. Phylogenetic characterization of microbial communities in sulfate-reducing fluidized-bed reactors treating acidic metal-containing wastewater. 1st International Symposium on Bio- and Hydrometallurgy (BioHydromet '02), in Cape Town, South Africa, March 13-15, 2002. Abstract and oral presentation.
81. Kaksonen AH, Riekkola-Vanhanen M-L, Franzmann PD, Puhakka JA. 2001. Sulfate-reducing fluidised bed reactors for acidic metal containing wastewaters. 2001 Australian Society for Microbiology (ASM) Annual Scientific Meeting and Exhibition, in Perth, Australia September 30th – October 5th, 2001. Abstract published in Microbiology Australia (2001) Vol. 22, nol. 4, p. A29. Oral presentation.
82. Kaksonen A, Riekkola-Vanhanen M-L, Puhakka JA. 2001. Sulfate-reducing suspension and biofilm reactors for acidic sulfate and metal containing wastewaters. 14th International Biohydrometallurgy Symposium –IBS2001: Biohydrometallurgy and the Environment. September 16-19, 2001, Ouro Preto – Minais Gerais, Brazil. Poster presentation.
83. Jussila MM, Mäkeläinen K, Kaksonen A, Suominen L, Lindström K. 2001. Biodiversity and gene dynamics during rhizoremediation of oil-contaminated soil. The 9th International Symposium on Microbial Ecology ISME-9, in Amsterdam, The Netherlands August 26-31. p. 305. Poster presentation.
84. Suominen LI, Jussila MM, Hintsa H, Mokelke L, Kaksonen A, Lindström K. 2001. Phytoremediation of oil polluted soils in galega orientalis rhizosphere. The First European Bioremediation Conference in Chania, Grete, Creece July 2-5, 2001. Poster presentation.
85. Maukonen JM, Kaksonen AH, Rättö M. 2001. Characterization of microbial communities from a sulfate-reducing bioreactor using fluorescent in situ hybridisation (FISH) and denaturing gradient gel electrophoresis (DGGE). ASM 101st General Meeting, May 20-24, 2001, Orlando Florida. Poster presentation.
86. Kaksonen AH, Riekkola-Vanhanen M-L, Puhakka JA. 2001. Lactate and ethanol supplemented sulfate-reducing bioreactors for treatment of acidic sulfate, zinc and iron containing wastewaters. The Fifth Finnish Conference of Environmental Sciences May 18-19 2001, Turku. Poster presentation.
87. Kaksonen A, Puhakka JA. 2000. Sulfate-reducing suspension and biofilm reactors for acidic sulfate and metal containing wastewaters. In Carlson L, P Kuula-Väisänen and K Loukola-Ruskeeniemi (eds.) Ympäristö, terveys ja turvallisuus kaivannaisteollisuudessa -seminaari. Haikko, Finland, October 31 - November 1, 2000. Esitysten lyhennelmät. Vuorimiesyhdistys, Sarja B, no. 76, p. 29.
88. Kaksonen A, Puhakka JA. 2000. Sulfate-reducing suspension and biofilm reactors for acidic sulfate and metal containing wastewaters. The 4th Valamo Conference on Environmental Health and Risk Assessment 13-16 September 13-16, 2000, Valamo Monastery, Heinävesi, Finland. Poster presentation and a 3 minute oral presentation.
89. Kaksonen AH, Haukilehto K, Puhakka JA. 2000. Start-up of sulfate-reducing suspension and biofilm reactors for acidic zinc and ferrous iron containing wastewaters. In: Tammirinne M. (ed.). International Conference on Practical Applications in Environmental Geotechnology, Ecogeo 2000. September 4-6, 2000, Helsinki, Finland. Poster presentation.
90. Kaksonen A, Haukilehto K, Puhakka JA. 2000. Start-up of sulfate-reducing reactors for zinc and ferrous iron containing wastewaters. 4th International Symposium on Environmental Biotechnology (ISEB), April 10-12, 2000, Noordwijkerhout, The Netherlands. Poster presentation.

**Scientific books (monographs)**

1. Burn S, Muster T, Kaksonen A, Tjandraatmadja G. 2014. Resource Recovery from Wastewater: A Research Agenda. Water Environment Research Foundation, USA.
2. Kaksonen A. 2004. The performance, kinetics and microbiology of sulfidogenic fluidized-bed reactors treating acidic metal- and sulfate-containing wastewater. Doctoral thesis, Tampere University of Technology, Tampere, Finland. 196 p. Summary available at: <http://dspace.cc.tut.fi/dpub/handle/123456789/64>
3. Kaksonen A. 2001. Treatment of metal containing wastewaters using sulfate-reducing bacteria: bioreactor processes (Metallipitoisten jätevesien käsittely sulfaatinpelkistäjäbakteereilla: bioreaktoriprosessit). Master of science thesis in engineering. Tampere University of Technology. 142 p. (in Finnish, abstract in English)
4. Kaksonen A. 1999. Bioremediation of oil contaminated soil: Degrading bacterial populations in the rhizosphere of goat´s rue (Öljyllä saastuneen maan bioremediaatio: Hajottajabakteeriyhteisö rehuvuohenherneen (*Galega orientalis*) ritsosfäärissä). Master of science thesis. University of Helsinki. 74 p. (in Finnish)

**Publications intended for professional communities**

***Articles in trade journals***

1. Wijewardena U, Macreadie I, Kaksonen AH. 2012. Microbes at the extreme: Mining with microbes. Microbiology Australia, September 2012: 116-118.
2. van der Meer T, Özkaya B, Kaksonen A, Puhakka J, Leppinen J. 2007. EU-hanke vie biotekniikan voimin kohti kestävämpää metallituotantoa (EU project leading to more sustainable metal production with the help of biotechnology). Kemia-Kemi 6: 38-39. (in Finnish).
3. Kaksonen A. 2006. Malmien biologiset rikastusprosessit. Toolilainen - Tekniikan opettajien järjestölehti. 1: 31-32.
4. Kaksonen AH. 2003. Bioremediation of contaminated soil and groundwater (Saastuneen maaperän ja pohjaveden biologinen puhdistus). Analyysi (Suomen Laboratorioalan Liitto ry:n ammatti- ja yhdistyslehti) 40 (3):6-9. (in Finnish).

***Research reports (excludes commercial-in-confidence reports)***

1. Tjandraatmadja, G., Kaksonen AH, Gonzales D, Barry K, Vanderzalm, J, Puzon G, Sidhu J, Wylie J, Goodman N. 2014. Managed Aquifer Recharge and Urban Stormwater Use Options Investigation of stormwater impact on water quality and distribution infrastructure. Report No. EP141342.
2. Ricard LP, Trefry MG, Reid LB, Corbel S, Esteban L, Chanu J-B, Wilkes PG, Douglas GB, Kaksonen AH, Lester DR, Metcalfe GP, Pimienta L, Gutbrodt S, Tressler S, Bloomfield G, Evans C, Regenauer-Lieb K. 2012. Perth Basin Assessment Program Project 4: Productivity and sustainability of low-temperature geothermal resources. Final report. 143 p. Report No: EP122629.
3. Vestola E, Kuusenaho M, Närhi H, Lavonen L, Kolli A, Arnold M, Kaksonen A. 2009. Metallipitoisten jätteiden biologinen kokonaishallinta (In Finnish) “Biological management of metallic wastes”. Final report for TEKES – The Finnish Funding Agency for Technology and Innovation.
4. Ashi J, Lallemant S, Masago H and the Expedition 315 Scientists. 2007. Integrated Ocean Drilling Program Expedition 315 Preliminary Report. NanTroSEIZE Stage 1 A: NanTroSEIZE Megasplay Riser Pilot. Integrated Ocean Drilling Program Management International, Inc. Doi:10.2204/iodp.pr.315.2008.
5. Franzmann PD, Plumb JJ, Wylie JT, Robertson WR, Douglas GB, Bastow TP, Kaksonen AH, Puhakka JA. 2007. Treatment of saline, acidic, metal-contaminated groundwater from the WA Wheatbelt: use of fluidised bed biofilm reactors for increasing pH and removal of metals. Water for a Healthy Country Report. Perth, CSIRO.
6. Ronkainen O, Koskinen P, Lehtomäki A, Lampinen A, Toivainen K, Kaksonen A, Puhakka J, Rintala J. 2005. Biologinen vedyntuotanto pimeäfermentaatioprosessilla. Jyväskylän yliopiston Bio- ja ympäristötieteiden laitoksen tiedonantoja 82, Jyväskylän yliopisto.
7. Kaksonen A. 1998. Yhteenveto koulujen ympäristökyselyn tuloksista ja ympäristöohjelmien annista. Tampereen Kaupunki.

**Theses**

1. Kaksonen A, Nurmi, P. 2008. Yliopisto-opetuksen kehittäminen: tapausesimerkkinä Kemian ja biotekniikan laitos (Opettajankoulutuksen kehittämishanke). Tampereen ammatillinen opettajakorkeakoulu, Tampere, Finland. 47 p + 49 p appendices.
2. Kaksonen A. 2004. The performance, kinetics and microbiology of sulfidogenic fluidized-bed reactors treating acidic metal- and sulfate-containing wastewater. Doctoral thesis, Tampere University of Technology, Tampere, Finland. 196 p. Summary available at: <http://dspace.cc.tut.fi/dpub/handle/123456789/64>
3. Kaksonen A. 2001. Treatment of metal containing wastewaters using sulfate-reducing bacteria: bioreactor processes (Metallipitoisten jätevesien käsittely sulfaatinpelkistäjäbakteereilla: bioreaktoriprosessit). Master of science thesis in engineering. Tampere University of Technology. 142 p. (in Finnish, abstract in English)
4. Kaksonen A. 1999. Bioremediation of oil contaminated soil: Degrading bacterial populations in the rhizosphere of goat´s rue (Öljyllä saastuneen maan bioremediaatio: Hajottajabakteeriyhteisö rehuvuohenherneen (*Galega orientalis*) ritsosfäärissä). Master of Science thesis. University of Helsinki. 74 p. (in Finnish)

**Patents and invention disclosures**

***Granted patents***

* Chinese patent ZL200980145172.5

Nurmi P, Kaksonen A, Puhakka J. Process for extracting iron from an aqueous acid solution.

* Finnish patent FI 122716 B

Nurmi P, Kaksonen A, Puhakka J. Menetelmä raudan erottamiseksi (Process for extracting iron)

* Russian patent No: 2011117096/05(025409)

Nurmi P, Kaksonen A, Puhakka J. Process for extracting iron from an aqueous solution

***Patent application***

* International patent application WO2010043764-A1

Nurmi P, Kaksonen A, Puhakka J. Extracting iron from aqueous acid solution containing ferrous ions involves passing solution through fluidized bed reactor for efficient fluidization and mixing; introducing ferric ions to concentrator for precipitation to give solid matter.