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Expertise

Sepehr Shakeri Yekta is a PhD student in environmental science at Linköping University. He received his bachelor degree in chemical engineering at Tehran Polytechnic University and his master degree in science for sustainable development at Linköping University. He started his PhD project in 2010 and since then worked on “chemical speciation of sulfur and metals in anaerobic digestion processes” under supervision of Prof. Bo H. Svensson, Prof. Ulf Skjellberg, and Dr. Åsa Danielsson.

Key papers related to the COST action

1. **Shakeri Yekta S.** Skjellberg U, Björn A, Svensson BH (2014). The effect of iron additions on the chemical speciation of sulfur and trace metals in full scale continuous stirred tank biogas reactors. *Applied Geochemistry* (submitted)
2. **Shakeri Yekta S.** Lindmark A, Skjellberg U, Danielsson Å, Svensson BH (2014). Equilibrium chemistry and kinetics of Fe, Co and Ni supplemented to semi-continuous stirred tank biogas reactors fed with stillage. *Journal of Hazardous Material* (in press)
3. Gustavsson J, **Shakeri Yekta S.** Karlsson A, Skjellberg U, Svensson BH (2013). Potential bioavailability and chemical forms of Co and Ni in biogas process – an evaluation based on sequential and acid volatile sulfide extractions. *Engineering in Life Sciences*, 13: 572–579.
4. Gustavsson J, **Shakeri Yekta S.** Sundberg C, Karlsson A, Ejlertsson J, Skjellberg U, Svensson BH (2013). Bioavailability of cobalt and nickel during anaerobic digestion of sulfur-rich stillage for biogas formation. *Applied Energy*. 112: 473–477.
5. **Shakeri Yekta S.** Gonsior M, Schmitt-Kopplin P, Svensson BH (2012). Characterization of dissolved organic matter in full scale stirred tank biogas reactors using ultrahigh resolution mass spectrometry: a qualitative overview. *Environmental Science & Technology*. 46: 12711-12719.
6. **Shakeri Yekta S.** Gustavsson J, Svensson BH, Skjellberg U (2012). Sulfur K-edge XANES and acid volatile sulfide analyses of changes in chemical speciation of S and Fe during sequential extraction of trace metals in anoxic sludge from biogas reactors. *Talanta*. 89: 470-477