

# **Emergipublicationer med anknytning till Sverige**

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# Innehåll

1.	Doktorsavhandlingar .....	1
2.	Licentiatavhandlingar .....	2
3.	Emergipublicationer med data från Sverige.....	3
i.	Vetenskapliga artiklar och rapporter (kronologisk ordning) .....	3
ii.	Konferenspublicationer (kronologisk ordning) .....	4
iii.	Populärvetenskapliga publicationer (kronologisk ordning).....	5
iv.	Övriga publicationer (kronologisk ordning) .....	5
4.	Emergipublicationer av svenska forskare utan data från Sverige .....	6
i.	Vetenskapliga artiklar och rapporter (kronologisk ordning) .....	6
ii.	Konferenspublicationer (kronologisk ordning) .....	7
iii.	Populärvetenskapliga publicationer (alfabetisk ordning) .....	8
iv.	Övriga publicationer (alfabetisk ordning) .....	8



## 1. Doktorsavhandlingar

(där hela eller delar av avhandlingen bygger på energi-metodik.)

- Lagerberg C. 1999. *Energy analysis of the resource use in greenhouse crop production and of the resource basis of the Swedish economy*. Doctoral thesis, Acta Universitatis agriculturae Sueciae, Agraria 191, Department of Horticulture, Swedish University of Agricultural Sciences, Alnarp, Sweden.
- Björklund J. 2000. *Energy analysis to assess ecological sustainability. Strengths and weaknesses*. Doctoral thesis, Acta Universitatis agriculturae Sueciae, Agraria 242, Department of Ecology and Crop Production Science, Swedish University of Agricultural Sciences, Uppsala, Sweden.
- Andresen N. 2000. *The Foraging Pig Resource utilisation, interaction performance and behaviour of pigs in cropping systems*. Acta Universitatis Agriculturae Suecia, Agraria 227, Swedish University of Agricultural Sciences, Uppsala.
- Geber U. 2000. *Integration of wastewater treatment in agro-ecosystems*. Doctoral thesis, Acta Universitatis agriculturae Sueciae, Agraria 217, Department of Ecology and Crop Production Science, Swedish University of Agricultural Sciences, Uppsala, Sweden.
- Grönlund E. 2004. *Microalgae at wastewater pond treatment in cold climate - an ecological engineering approach*. Doctoral thesis 2004:61, Dept. of Environmental Engineering, Luleå University of Technology, Luleå, Sweden.
- Cuadra M. 2005. *Assessment of the natural resource base of Nicaragua and case studies of its use in agricultural production and export*. Doctoral thesis, Sveriges lantbruksuniv., Acta Universitatis agriculturae Sueciae 2005:25, Uppsala, Sweden.
- Johansson S. 2005. *The Swedish foodprint*. Doctoral thesis, Sveriges lantbruksuniv., Acta Universitatis agriculturae Sueciae 2005:56 Uppsala, Sweden.
- Hagström P. 2006. *Biomass potential for heat, electricity and vehicle fuel in Sweden*. Doctoral thesis, Sveriges lantbruksuniv., Acta Universitatis agriculturae Sueciae 2006:11, Uppsala, Sweden.
- Brolin J. 2007. *The Bias of the World: Theories of Unequal Exchange in History*. Doctoral Thesis, Human Ecology Division, Lund University, Lund, Sweden.
- Bergquist DA. 2008. *Colonised Coasts. Aquaculture and energy flows in the world system: Cases from Sri Lanka and the Philippines*. PhD thesis, Geografiska Regionstudier 77, Dept. of Social and Economic Geography, Uppsala University Uppsala, Sweden.
- Eksvärd K. 2009. *Exploring new ways*. Doctoral thesis, Sveriges lantbruksuniv., Acta Universitatis agriculturae Sueciae 2009:44 Uppsala, Sweden.

## 2. Licentiatavhandlingar

(där hela eller delar av avhandlingen bygger på energi-metodik.)

Levin A. 2011. *Att mäta och kommunicera hållbart. En analys av ett svenskt lantbruk.*

Licentiatavhandling vid Kulturgeografiska institutionen, Forskarskolan i Geografi,  
Uppsala Universitet, Uppsala.

### 3. Emergipublicationer med data från Sverige

#### i. Vetenskapliga artiklar och rapporter (kronologisk ordning)

- Sundberg U, Lindegren J, Odum HT, Doherty SJ. 1994. Forest energy basis for Swedish power in the 17th century. *Scandinavian journal of forest research Supplement no1*.
- Nilsson D. 1997. Energy, exergy and energy analysis of using straw as fuel in district heating plants. *Biomass and Bioenergy* **13**(1-2): 63-73.
- Lagerberg C, Brown MT. 1999. Improving agricultural sustainability: the case of Swedish greenhouse tomatoes. *Journal of Cleaner Production* **7**(6): 421-434.
- Lagerberg, C. Doherty, S. & Nilsson, P. O. 1999. Evaluation of the resource efficiency and sustainability of the Swedish economy using energy based indices. In: Lagerberg, C. 1999. *Energy analysis of the resource use in greenhouse crop production and of the resource basis of the Swedish economy*. Acta Universitatis Agriculturae Sueciae. Agraria no 191. Swedish University of Agricultural Sciences, Alnarp.
- Lagerberg, C, Gertsson, U. Larsen, R. & Gäredal, L. 1999. Energy evaluation of five greenhouse tomato production systems. In: Lagerberg, C. 1999. Energy analysis of the resource use in greenhouse crop production and of the resource basis of the Swedish economy. Acta Universitatis Agriculturae Sueciae. Agraria no 191. Swedish University of Agricultural Sciences, Alnarp.
- Andrésen N, Björklund J, Rydberg T. 2000. Ecological and conventional pig production - an analysis of resource flows and environmental dependency on farm scale level. Paper I. In Andresen N: *The Foraging Pig Resource utilisation, interaction performance and behaviour of pigs in cropping systems*, p. 22. Acta Universitatis Agriculturae Suecia, Agraria 227, Swedish University of Agricultural Sciences, Uppsala.
- Björklund J, Geber U, Rydberg T. 2001. Energy analysis of municipal wastewater treatment and generation of electricity by digestion of sewage sludge. *Resources, Conservation and Recycling* **31**(4): 293-316.
- Doherty SJ, Nilsson PO, Odum HT. 2002. Energy evaluation of forest production and industries in Sweden. Rapport 15, Inst. f. bioenergi, SLU, Uppsala, Sweden.
- Geber U, Björklund J. 2002. The relationship between ecosystem services and purchased input in Swedish wastewater treatment systems -- a case study. *Ecological Engineering* **19**(1): 97-117.
- Rydberg T, Jansén J. 2002. Comparison of horse and tractor traction using energy analysis. *Ecological Engineering* **19**(1): 13-28.
- Eksvård K, Rydberg T. 2010. Integrating Participatory Learning and Action Research and Systems Ecology: A Potential for Sustainable Agriculture Transitions. *Systemic Practice and Action Research* **23**(6): 467-486.
- Russo, T., Buonocore, E., & Franzese, P. P. (2014). The Urban Metabolism of the City of Uppsala (Sweden). *Journal of Environmental Accounting and Management*, 2(1), 1-12.

## ii. Konferenspublicationer (kronologisk ordning)

In Brown, M.T. 2001 (ed). *Energy Synthesis 1: Theory and Applications of the Energy Methodology*. Proceedings of the 1st Biennial Energy Conference. Center for Environmental Policy, University of Florida, Gainesville. 319 pages.

- Johansson S, Doherty S, Rydberg T. 2001. Sweden Food System Analysis.
- Lagerberg C. 2001. Energy Analysis of Tomato Production Systems.

In Brown, M.T.E. Bardi, D.E. Campbell, V. Comar, S. Huang, T. Rydberg, D. Tilley and S. Ulgiati (eds). 2005. *Energy Synthesis 3: Theory and Applications of the Energy Methodology*. Proceedings of the 3rd Biennial Energy Conference. Center for Environmental Policy, University of Florida, Gainesville. 652 pages.

- Brandt-Williams SL, Lagerberg Fogelberg C. Nested Comparative Energy Assessments Using Milk Production as a Case Study
- Grönlund E, Klang A, Vikman P-Å. Energy and Socio-Ecological Principles in Sustainability Assessment: Methodological Considerations from a Wastewater Treatment Case Study
- Hagström P, Nilsson PO. Energy Evaluation of the Swedish Economy Since the 1950's

In Brown, M.T.E. Bardi, D.E. Campbell, V. Comar, S. Huang, T. Rydberg, D. Tilley and S. Ulgiati (eds). 2007. *Energy Synthesis 4: Theory and Applications of the Energy Methodology*. Proceedings of the 4th Biennial Energy Conference. Center for Environmental Policy, University of Florida, Gainesville. 483 pages.

- Rydberg T, Gustafson G, Boonstra W. Farming in a Prosperous Way Down - A Systems Ecology Approach

BIWAES 2010. *Can we break the addiction to fossil fuel energy? Proceedings of the 7th Biennial International Workshop Advances in Energy Studies* (BIWAES), Barcelona, Spain 19-21 October 2010

- Levin A. Communicating energy analysis as footprint and energy profile

In Brown, M.T., S. Sweeney, D.E. Campbell, S. Huang, E. Ortega, T. Rydberg, D. Tilley and S. Ulgiati (eds). 2011. *Energy Synthesis 6: Theory and Applications of the Energy Methodology*. Proceedings of the 6th Biennial Energy Conference. Center for Environmental Policy, University of Florida, Gainesville. 610 pages.

- Cavalett O, Rydberg T. Critical Analysis of the Swedish Biofuel Policy using Energy Synthesis
- Buonocore E, Franzese PP, Rydberg T, Ulgiati S. Energy Evaluation of an Integrated Bioenergy Production System - The Case Study of Enköping (Sweden)
- Rydberg T, Cavalett O, Friman E, Gallardo G. Energy Systems Diagramming and Discourse Analysis - the Case of Large-Scale Biofuel Production

### **iii. Populärvetenskapliga publikationer (kronologisk ordning)**

- Lagerberg Fogelberg, C. Björklund, J. & Helander, C.-A. 2004. Att mäta naturens tjänster.  
*Fakta Jordbruk.* SLU. Nr 8.
- Lagerberg Fogelberg, C. 2003. Bränsletyp avgör tomatodlingens hållbarhet. *Fakta Trädgård.*  
SLU. Nr 5.
- Lagerberg, C. 2001. Metoder att mäta uthållighet – som man ropar får man svar. *Kungl.  
Skogs- och lantbruksakademiens tidskrift* 140(12), 55-59.

### **iv. Övriga publikationer (kronologisk ordning)**

## 4. Emergipublicationer av svenska forskare utan data från Sverige

### i. Vetenskapliga artiklar och rapporter (kronologisk ordning)

- Lefroy E, Rydberg T. 2003. Emergy evaluation of three cropping systems in southwestern Australia. *Ecological Modelling* **161**(3): 195-211.
- Cuadra M, Rydberg T. 2006. Emergy evaluation on the production, processing and export of coffee in Nicaragua. *Ecological Modelling* **196**(3-4): 421-433.
- Rydberg T, Haden AC. 2006. Emergy evaluations of Denmark and Danish agriculture: Assessing the influence of changing resource availability on the organization of agriculture and society. *Agriculture, Ecosystems & Environment* **117**(2-3): 145-158.
- Cuadra M, Björklund J. 2007. Assessment of economic and ecological carrying capacity of agricultural crops in Nicaragua. *Ecological Indicators* **7**(1): 133-149.
- Rótolo GC, Rydberg T, Lieblein G, Francis C. 2007. Emergy evaluation of grazing cattle in Argentina's Pampas. *Agriculture, Ecosystems & Environment* **119**(3-4): 383-395.
- Franzese PP, Rydberg T, Russo GF, Ulgiati S. 2009. Sustainable biomass production: A comparison between Gross Energy Requirement and Emergy Synthesis methods. *Ecological Indicators* **9**(5): 959-970.
- Johansson S, Rydberg T. 2017. Is an increased use of biofuels the road to sustainability? *The European Physical Journal Plus* **132**(2): 66.
- Bergquist DA, Cavalett O, Rydberg T. 2012. Participatory emergy synthesis of integrated food and biofuel production: a case study from Brazil. *Environment, Development and Sustainability* **14**(2): 167-182.
- Grönlund E, Fröling M, Skytt T. 2016. *Energy, emergy, and the city*. Ecotechnology working paper 2016-1c, Mid Sweden University, Östersund, Sweden.
- Grönlund E, Billgren C, Tonderski KS, Raburu PO. 2017. Emergy Assessment of a Wastewater Treatment Pond System in the Lake Victoria Basin. *Journal of Environmental Accounting and Management* **5**(1): 11-26.

## ii. Konferenspublicationer (kronologisk ordning)

In Brown, M.T. 2001 (ed). *Energy Synthesis 1: Theory and Applications of the Energy Methodology*. Proceedings of the 1st Biennial Energy Conference. Center for Environmental Policy, University of Florida, Gainesville. 319 pages.

- Björklund J. 2001. Transformity and Potential Effect of Feedback in Human Dominated Systems - Using Wastewater as an Example.
- Cuadra M, Rydberg T. 2001. Energy Evaluation of the Environment and Economy of Nicaragua.

BIWAES 2001. *Advances in Energy Studies, Exploring Supplies, Constraints, and Strategies. Proceedings of the 2nd Biennial International Workshop Advances in Energy Studies (BIWAES)*, Porto Venere, Italy may 23-27, 2000. SGE Editoriali, Padova.

- Lagerberg C. 2001. Using the Best of the Best – Some Thoughts on the Integration of Environmental Assessment Tools

BIWAES 2003. *Advances in Energy Studies, Reconsidering the Importance of Energy. Proceedings of the 3rd Biennial International Workshop Advances in Energy Studies (BIWAES)*, Porto Venere, Italy September 24-28, 2002. SGE Editoriali, Padova.

- Doherty S, Rydberg T, Björklund J. Comparison of environmental assessment tools using a living systems framework

In Brown, M.T.E. Bardi, D.E. Campbell, V. Comar, S. Huang, T. Rydberg, D. Tilley and S. Ulgiati (eds). 2005. *Energy Synthesis 3: Theory and Applications of the Energy Methodology*. Proceedings of the 3rd Biennial Energy Conference. Center for Environmental Policy, University of Florida, Gainesville. 652 pages.

- Grönlund E. Why Is Energy So Difficult to Explain to My Environmental Science Friends?
- Grönlund E, Hedin D, Eriksson P-O. Is Energy Best Suited for Ecological Economics, Environmental Economics, or with an Economic Context of Its Own?
- Grönlund E, Salomonsson M. Ecosystem Services in Relation to the Local Renewable Energy Sources - Experiences from a Case Study in Northern Sweden
- Mangoyana RB, Grönlund E. Sustainable Growth: Dominating Debate and an Energy View
- Rydberg T, Cuadra M. It's About Getting Value for Your Money - But How Fair Are the Resource Flows?

Alarcón, C. Bergquist, D. Bjureby, E. Friman, E. Gallardo, G. Hajdu, F. Jacobson, K. Johansson, S., Lagerberg Fogelberg, C. & Rydberg, T. 2008. Understanding global patterns of production and consumption: prospects of an interdisciplinary approach. Frostell, B. Danielsson, Å. Hagberg, L. Linnér, B.-O. & Lisberg Jensen, E. (eds.). *Science for Sustainable Development - The Social Challenge with emphasis on conditions for change. Proceedings of the 2nd VHU Conference*, Linköping 6-7 sept 2007, 15-21.

In Brown, M.T., S. Sweeney, D.E. Campbell, S. Huang, E. Ortega, T. Rydberg, D. Tilley and S. Ulgiati (eds). 2009. *Energy Synthesis 5: Theory and Applications of the Energy Methodology*. Proceedings of the 5th Biennial Energy Conference. Center for Environmental Policy, University of Florida, Gainesville. 612 pages.

- Bergquist D, Rydberg T. Towards a Transdisciplinary Understanding of Energy Accumulation

In Brown, M.T., S. Sweeney, D.E. Campbell, S. Huang, E. Ortega, T. Rydberg, D. Tilley and S. Ulgiati (eds). 2011. *Energy Synthesis 6: Theory and Applications of the Energy Methodology*. Proceedings of the 6th Biennial Energy Conference. Center for Environmental Policy, University of Florida, Gainesville. 610 pages.

- Bergquist DA. Energy Synthesis of Urban Agriculture in Rio de Janeiro, Brazil
- Lagerberg Fogelberg C, Bergquist DA. Small-Scale Community Based Management of Marine Resources vs. Large-Scale Industrial Aquaculture in Chile
- Bergquist DA, Ingwersen W, King Liebenow D. Energy in Labor - Approaches for Evaluating Knowledge

BIWAES 2015. *Energy and Urban Systems, Proceedings of the 9th Biennial International Workshop Advances in Energy Studies (BIWAES), Stockholm 4-7 May 2015*, (ed. O Kordas, S Ulgiati). Verlag der Technischen Universität Graz, Graz.

- Grönlund E, Fröling M, Skytt T. Energy, emergy and the city.

### iii. Populärvetenskapliga publikationer (alfabetisk ordning)

### iv. Övriga publikationer (alfabetisk ordning)