

REFERENCES

- Abufayed, A. A., & Schroeder, E. D. (1986) Performance of SBR/denitrification with a primary sludge carbon source. *Journal WPCF* 5 (58); 387
- Adriaanse, A., Bringezu, S., Hamond, A., Moriguchi, Y., Rodenburg, E., Rogich, D., Schütz, H. (1997). *Resource Flows: The Material Base of Industrial Economies*. World Resource Institute, Washington.
- Agamuthu P. & Fauziah, S.H. (2010) Impact of Landfill Gas on Climate Change, *International Conference on Climate Change and Bioresource (ICCCB 2010)* 9th-12th February 2010, Department of Biotechnology, Bharathidasan University India.
- Agamuthu, P., Fauziah, S.H. and Khidzir, K.M. (2009) Evolution of solid waste management in Malaysia : Impacts and implications of the solid waste bill 2007. *Journal of Material Cycles and Waste Management*, 11(2): 96-103.
- Agamuthu, P., Fauziah, S.H. and Lingesveeramani, M (2004) Evolution of MSW in Malaysia- An overview. Paper presented in the *World Congress ISWA 2004*, 17-21 October 2004, Rome Italy.
- Agamuthu, P., Fauziah, S.H. and Khidzir, K.M., (2003) Municipal solid waste management; A comparative study on selected landfill in Selangor. In *Proceedings of Environment 2003 Environmental Management and Sustainable Development for Better Future Growth*. 18th- 19th February 2003: pp434-437. Penang, Malaysia.
- Agamuthu, P. (2001) *Solid Waste : Principle and Management*. University of Malaya Press: 9-27
- Albers, H. & Krückeberg, G, 1992) Combination of aerobic pre-treatment, carbon adsorption and coagulation. Landfilling of waste: leachate. Elsevier applied science. London and New York. 305pp.
- Alhumoud, J.M. (2005) Municipal solid waste recycling in the Gulf Co-operation Council states. *Resources, Conservation and Recycling* 45(2):142-158.
- Alhumoud, J.M., Al-Ghusain, I. and Al-Hasawi, H. (2004) Management of recycling in the Gulf Co-operation Council states. *Waste Management* 24(6):551-562.
- Ali Khan, M.Z. and Burney, F.A. (1989) Forecasting Solid Waste Composition – An Important Consideration in Resource Recovery and Recycling, *Resources, Conservation and Recycling* 3: 1-17.
- Alvarez-Vazquez, H., Jefferson, B. and Judd, S.J. (2004) Membrane bioreactors vs conventional biological treatment of landfill leachate: a brief review. *Journal of Chemical Technology and Biotechnology* 79(10):1043-1049.
- American Public Health Association (APHA), 1995. Standard Methods for the Examination of Water and Wastewater, 19th Edition. APHA, Washington, DC.

- Andersen, J.K., Boldrin, A., Christensen, T.H., and Scheutz, C. (2010). Mass balances and life-cycle inventory for a garden waste windrow composting plant (Aarhus, Denmark) *Waste Management & Research* 28 (11):1010-1020
- Ayres, R.U. & Simonis, U.E. editors (1992). *Industrial metabolism, restructuring for sustainable development*. Tokyo: The United Nations University
- Ayres, R.U. (1978). *Resources, environment and economics*. New York: Wiley.
- Baccini, P. & Bader, H.P. (1996) Understanding regional metabolism for a sustainable development of urban systems *Environ. Sci. Pollut. Res.*, 3(2);108–111
- Baccini, P., & Brunner, P. (2012). *Metabolism of the anthroposphere analysis, evaluation, design* (2nd ed) Cambridge, Mass.: MIT Press. 408p.
- Baccini, P. & Brunner, P.H. (1991) *Metabolism of the Anthroposphere*. Springer. Berlin
- Baccini, P., Henseler, G., Figi, R., Belevi, H., (1987). Water and element balances of municipal solid waste landfills. *Waste Management & Research* 5 (1): 483–499
- Bailey, R., Allen, J.K., Bras, B. (2006). Applying Ecological Input-Output Flow Analysis to Material Flows in Industrial Systems: Part I: Tracing Flows. *Journal of Industrial Ecology* 8: 45-68.
- Barlaz, M.A., (1998) Carbon storage during biodegradation of municipal solid waste components in laboratory-scale landfills. *Global Biogeochemical Cycles* 12(2): 373-380.
- Barlaz, M.A., Ham, R.K. and Schaefer, D.M. (1989) Mass Balance analysis of decomposed refuse in laboratory scale lysimeters. *J. Environ. Engineering* 115;1088-1102
- Barlaz, M.A., Milek MW and Ham RK (1987) Gas production parameters in sanitary landfill simulators. *Waste Management & Research*. 5: 27-39.
- Beker, D (1987) Control of acid phase degradation, Proceedings in *International Symposium ISWA on Process Technology and environmental impact of sanitary landfill*, Vol. 1, 19-23 October 1987, Cagliari, Italy.
- Belevi, H., (2002). Material flow analysis as a strategic planning tool for regional waste water and solid waste management. In: Proceedings of the GTZ/BMZ and ATV-DVWK Workshop “Globale Zukunft: Kreislaufwirtschaftskonzepte im kommunalen Abwasser- und Fa¨ kalienmanagement”. 12. Europa¨isches Wasser-, Abwasser und Abfall-Symposium, IFAT 2002, 14 May 2002, Munich, Germany.
- Belevi H. and Baccini P. (1989). Long-term behaviour of municipal solid waste landfills. *Waste Management and Research* 7; 43-56.

- Berge, N. D. (2006). *In-situ ammonia removal of leachate from bioreactor landfills* (PhD dissertation, University of Central Florida Orlando, Florida).
- Berge, N.D & Reinhart, D.R., & Townsed, T.G. (2005) The Fate of Nitrogen in Bioreactor Landfills. *Critical Reviews in Environmental Science and Technology* 35:365-399
- Bergback, B., Johansson, K., Mohlander, U. (2001) Urban Metal flows-a case study of Stockholm. *Water, Air and Oil Pollution ; Focus 1*: 3-24
- Bergbäck, B, Anderberg S, Lohm U (1994). Accumulated environmental impact: the case of cadmium in Sweden. *The Science of The Total Environment* 145(1-2): 13-28.
- Bertram, M., Graedel, T.E., Rechberger, H., Spataro, S., (2002). The contemporary European copper cycle: waste management subsystem. *Ecological Economics* 42: 43-57.
- Bertram, M., Martchek, K.J., Rombach, G. (2002) Material Flow Analysis in the Aluminium Industry. *Journal of Industrial Ecology*: 650-654.
- Binder, C.R. (2007a) From material flow analysis to material flow management Part I: social sciences modeling approaches coupled to MFA. *Journal of Cleaner Production* 15: 1596-1604.
- Binder, C.R. (2007b) From material flow analysis to material flow management Part II: the role of structural agent analysis. *Journal of Cleaner Production* 15: 1605-1617.
- Binder, C.R., Hofer, C., Wiek, A. and Scholz, R.W. (2004) Transition towards improved regional wood flows by integrating material flux analysis and agent analysis: The case of AppenzellAusserrhoden, Switzerland. *Ecological Economics* 49: 1-17.
- Binder, C. and Patzel, N. (2001). Management of tropical soil organic matter on watershed level: what could be the contribution of urban areas? In *Waste composting for urban and peri-urban agriculture: closing the rural-urban nutrient cycle in sub-Saharan Africa*, Drechsel, P., Kunze, D (Eds). CABI Publishing.
- Binder, C., Schertenleib, R., Diaz, J., Baser, H.-P. and Baccini, P. (1997). Regional water balance as a tool for water management in developing countries. *Water Resources Development* 13(1): 5-20.
- Binder, C.R. (1996) The early recognition of environmental impacts of human activities in developing countries. Ph.D. dissertation 11748, Swiss Federal Institute of Technology Zurich, Switzerland.
- Binder, C.R, Schertenleib, R, Diaz, J. and Baccini, P. (1997). Regional water balance as a tool for water management in developing countries. *Water Resources Development*; 13(1): 5-20.

- Bindoff, N.L., J. Willebrand, V. Artale, A. Cazenave, J. Gregory, S. Gulev, K. Hanawa, C. Le Quéré, S. Levitus, Y. Nojiri, C.K. Shum, L.D. Talley and A. Unnikrishnan, 2007: Observations: Oceanic Climate Change and Sea Level. In: *Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change* [Solomon, S., D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor and H.L. Miller (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, USA.
- Bingemer, H.G. and Crutzen, P.J. (1987) The production of CH₄ from solid wastes. *Journal of Geophysical Research*, 92(12): 2182-2187.
- Blakey, N.C. (1991) Enhanced landfill stabilization using sewage sludge. In *Proceeding Sardinia 91. 3rd International Landfill Symposium October*. Vol II:1367-1387. Cagliari, Italy.
- Bogner J, Pipatti R, Hashimoto S, Diaz C, Mareckova K and Diaz L (2008). Mitigation of global greenhouse gas emissions from waste: conclusions and strategies from the Intergovernmental Panel on Climate Change (IPCC) fourth assessment report. *Waste Management and Research* 26:11-32.
- Bogner, J., M. Abdelrafie Ahmed, C., Diaz, A. Faaij, Q. Gao, S., Hashimoto, K. Mareckova, R., Pipatti, T and Zhang (2007) Waste Management, In *Climate Change 2007: Mitigation. Contribution of Working Group III to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change* [Metz, B., Davidson, O.R., Bosch, P.R., Dave, R., and Meyer, L.A (eds)], Cambridge University Press, Cambridge, United Kingdom and New York, USA.
- Bogner, J. and Matthews, E. (2003) Global methane emissions from landfills: New methodology and annual estimates 1980-1996. *Global Biogeochemical Cycles*, 17 (2):1-18
- Bogner, J. and Spokas, K. (1993) Landfill CH₄: rates, fates, and role in global carbon cycle. *Chemosphere*, 26(1-4): 366-386.
- Bogner, J., (1992) Anaerobic burial of refuse in landfills: increased atmospheric methane and implications for increased carbon storage. *Ecological Bulletin* 42: 98-108.
- Bouman, M., Heijungs, R., Van Der V. E., Van Den, B.J. and Huppes, G. (2000) Material flows and economic models: an analytical comparison of SFA, LCA and partial equilibrium models. *Ecological Economics* 2000 (32):195–216.
- Bramryd, T., (1997) Landfilling in the perspective of the global CO₂ balance. *Proceedings of the Sardinia 97, International Landfill Symposium, October 1997*, CISA, University of Cagliari, Sardinia, Italy.
- Brunner, P. (2011) Urban Mining A Contribution to Reindustrializing the City. *Journal of Industrial Ecology*, 15(3); 339-341.

- Brunner, P. & Kral, U. (2010) The Need for Final Sinks. Presented at *1st International Conference on Final Sinks: From Sanitary to Sustainable Landfilling - why, how, and when?* On 23rd – 25th September 2010, Vienna. Vienna University of Technology, Vienna, Austria.
- Brunner, P. (2009) Powerpoint slides Incentives and case studies for MFA in resource and environmental management. Presented at Perm State University, Russia, 3rd November 2009.
- Brunner, P. (2007) Application of Material Flow Analysis for Environmental and Resource Management [Lecture notes] . Lecture Syiah Kuala University, Faculty of Chemical Engineering, Banda Aceh, Indonesia on 8th October 2007. pp27
- Brunner, P., & Ma, H.W. (2008) Substance flow analysis – an indispensable tool for goal oriented waste management. *Journal of Industrial Ecology* 13(1):11–14.
- Brunner, P. & Rechberger, H. (2004) *Practical Handbook of Material Flow Analysis. Advanced Methods in Resource and Waste Management*. Lewis Publisher.
- Brunner, P. and Baccini, P. (1992). Regional material management and environmental protection. *Waste Management and Research* 10: 203-212.
- Brunner, P., Henseler, G., and Scheidegger, R., (1990) (The determination of product and material flows in the regional water balance (Die Bestimmung der Güter- und Stoffflüsse im regionalen Wasserhaushalt. Teilprojekt RESUB WASSER.EAWAG) Project resub WASSER.EAWAG) Dübendorf, 116.
- Bringezu, S., Fischer-Kowalski, M., Klein, R., and Palm, V. (1997). Regional and National Material Flow Accounting: From Paradigm to Practice of Sustainability. Leiden.
- Bringezu S. (2003) Industrial ecology and material flow analysis-basic concepts, policy relevance and some case studies. Germany: Greenleaf Publishing.
- Bringezu, S., Schtzt, H., Steger, S., and Baudisch, J. (2004) International comparison of resource use and its relation to economic growth. The development of total material requirement, direct material inputs and hidden flows and the structure of TMR. *Ecological Economics* 54: 97-124.
- Buswell, A. M., and Mueller, H. F. (1952) Mechanics of methane fermentation. *Ind. and Eng. Chem.* 44 ; 550-552.
- Cai, J.J, Wang, J.J., Lu, Z.W. and Yin, R.Y. (2006) Material flow and energy flow in iron and steel industry and correlation between them. *Journal of Northeastern University (Natural Science)* 27(90): 979-982.

- Cai, J.J., Wang, J.J., Zhang, Q. and Li, G.S. (2008) Material flows and energy flows in iron and steel factory and their influence on CO₂ emissions. *Research of Environmental Sciences* 21(1): 196- 200.
- Cain, A., Disch, S., Twaroski, C., Reindl, J., and Case, C.R. (2007) Substance flow analysis of mercury intentionally used in products in the United States. *Journal of Industrial Ecology* 11(3): 61-75.
- Cencic, O., & Rechberger, H. (2008). Material Flow Analysis with Software STAN. In Proceedings *Environmental informatics and industrial ecology: Enviro Info 2008 ; 22nd International Conference on Informatics for Environmental Protection*. 10th-12th September 2008, Leuphana University Lueneburg, Germany Aachen: Shaker; 440-447
- Cencic, O (2006) DIO. STAN – a tailored software for substance flow analysis. TU-Vienna, Austria: Institute for Water Quality, Resources and Waste Management. pp. 1–12
- Census Ministry of Housing and Local Government 2010: Selected Census Bulletin until 30th September 2009. 106p
- Chadwick, Jr., 1999. Field Test of Potential RCRA-Equivalent Covers at the Rocky Mountain Arsenal, Colorado. Solid Waste Association. Proceedings, *North America's 4th Annual Landfill Symposium*. Denver, Colorado. June 28th -30th 1999. GR-LM 0004. 21-33pp.
- Chapman, G & Ekama, G (1992) The effect of sewage sludge codisposal and leachate recycling on refuse stabilization. Proceedings Wastecon 1992: Waste Management in a Changing Society. Johannesburg, November. 477-487 pp.
- Chen, M., Chen, J. & Sun, F. (2008) Agricultural phosphorus flow and its environmental impacts in China. *Science of The total Environment* 405: 140-152.
- Chen, X.Q., Guo, Y.Q., Cui, S.P., Wang, Z.H. and Zuo, T.Y. (2005a) Material energy metabolism and environmental implications of cement industry in Beijing. *Resources Science*, 27(5): 40-45.
- Chen, Y.M. and Zhang, T.Z. (2005b) Analysis of material flow of residential buildings in Beijing. *Journal of Architecture and Civil Engineering* 22(3): 80-83.
- Chen, G., (2004), *Electrochemical Technologies in Wastewater Treatment, Separation and purification*, 38:11-41.
- Chen, X.Q., Zhao, T.T., Guo, Y.Q. and Song, S.Y. (2003) Material Input and Output Analysis of Chinese Economy System. Universitatis Pekinensis. *Acta Scientiarum Naturalium* 39(4): 538-547.
- Chen, X.Q. and Qiao, L. J. (2001) A preliminary material input analysis of China. *Population and Environment* 23 (1): 117-126.

- Chen, X.Q. and Qiao, L. J. (2000) Material flow analysis of Chinese economic-environmental system. *Journal of Natural Resources* 15 (1):17-23.
- Chen, S.G., Xu, J.C., Zheng, T.H. and Liu, L.M. (1983) Application of material flows at the industrial environment in Dukou City- the movement and distribution of iron, chin, and vanadium in the environment. *Sichuan Environment*, vol. 1: 14-18.
- Chian,E.S.K& F.B. DeWalle, (1976) Sanitary landfill leachates and their treatment, *Journal of Environmental Engineering Division* 102(2):411-431.
- Choy,W.F.,Fauziah,S.H., and Agamuthu,P. (2003) Municipal Solid Waste Management in Sabak Bernam District, Selangor in Proceeding of *Malaysian Science and Technology Congress 2002*,510-516pp.Genting Highlands,Pahang
- Chuanbin, Z.,Wenjun, F., Wanying X., Aixin C.,& Rusong W., (2014) Characteristics and the recovery potential of plastic wastes obtained from landfill mining.*Journal of Cleaner Production* 80 : 80-86.
- Christensen, T.H., Jørgensen, P., & Andersen, L. (1982): Notes about Controlled Landfills.Teknisk Forlag, Copenhagen.
- Claudia, C. (2005) Powerpoint slides. Urban-rural element flows : potentials and challenges for sustainable land management. Presented at *Conference for Element Balances: Session Element Balances on a Regional Scale*, 12-17 March 2005. Tirana,Albania.
- Cointreau, Sandra (2006) '*Occupational And Environmental Health Issues of Solid Waste Management: Special Emphasis on Middle and Lower-Income Countries*' , Report to the Waste Management Unit of the World Health Organization, Europe Regional Office.
- Coleman, D.D., 1979: The origin of drift-gas deposits as determined by radiocarbon dating of methane. In *Radiocarbon Dating*, R. Berger and H.E. Seuss (eds), University of California Press, Berkeley,365-387pp.
- Cossu, R., Raga,R. &Vettorazzi,G. (2005) Carbon and Nitrogen Mass Balance in Some Landfill Models For Sustainability Assessment. Proceedings Sardinia 2005. Presented at Tenth (10th) International Waste Management and Landfill Symposium on 3rd-7th October 2005, S. Margherita Di Pula, Cagliari, Italy.
- Cossu R. (2004). Mass balance: the key factor for landfill sustainability; IWWG Seminar, Abbazia di Praglia, 19-21 may 2004, Eurowaste, Padova,Italy.
- Cossu, R., Blakey, N.C., and Trapani, P.(1987) Degradation of mixed solid wastes in conditions of moisture saturation Proceedings in *International Symposium ISWA on Process Technology and Environmental impact of Sanitary Landfill*,Vol. 1, 19-23 October 1987, Cagliari, Italy.

- Craft, D.G. and Blakey, N.C. (1988) Codisposal of sewage sludge and domestic waste in landfills, in Proceedings ISWA 1988, Vol. 1 Copenhagen, Academic Press,161-168 pp
- Cristina, S., Xavier, G. and Teresa, V. (2006) Material flow analysis adapted to an industrial area. *Journal of Cleaner Production* 15: 1706-1715.
- Cui, X.Z., Zhang,F.G. and Zhang, L.H. An analysis of energy and material flow in urban ecosystem of Tanshan city. *Journal of Ecology* 5(4): 41-45.
- Daigo, I., Matsumoto,Y., Matsuno,Y. and Adachi,Y. (2009) Material stock and flow analysis of stainless steel based on mass balances of Cr and Ni. *Journal of the Iron and Steel Institute of Japan*, 95(6): 506-514.
- Daigo, I., Hashimoto, S., Matsuno, Y. and Adachi, Y. (2009) Material stocks and flows accounting for copper and copper-based alloys in Japan. *Resources, Conservation and Recycling* (53):208-217.
- Damanhuri, E. & Padmi, T.(2000) Reuse and recycling as a solution to urban solid waste problems in Indonesia. In The Proceedings of the *ISWA International Symposium and Exhibition on Waste Management in Asian Cities*, Volume 2 pp 86-92. Hong Kong,China.
- Danius, L., (2002) Data uncertainties in material flow analysis. Local case study a literature survey. Licentiate Thesis, Industrial Ecology, Department of Chemical Engineering and Technology, Royal Institute of Technology, Stockholm.
- Daniels,P.L., (2002) Approaches for quantifying the metabolism of physical economies:A comparative survey.Part II; Review of individual approaches. *Journal of Industrial Ecology* 6(1): 65-88
- Daxbeck H, Lampert C, Morf L, Obernoster R, Rechberger H, Reiner I (1997). The anthropogenic metabolism of Vienna. In: Bringezu S, et al., editors. In Proceedings *The ConAccount Workshop*, Wuppertal (Germany): Wuppertal Institut fu" r Klima, Umwelt, Energie: 247-52.
- Demirbas,A.(2004) Pyrolysis of municipal plastic waste for recovery of gasoline-range hydrocarbons.*Journal of Analytical and Applied Pyrolysis* 72: 97-102
- Department of Statistics Malaysia Website. URL:
http://www.statistics.gov.my/portal/images/stories/files/LatestReleases/banci/jadual_1.pdf .Accessed on 28th January 2011.
- Dellink, R.B. and Kandelaars, P.P.P.A.H. (2000) An empirical analysis of dematerialization: Application to metal policies in The Netherlands. *Ecological Economics* 33(2): 205-218

- De Marco, O., Lagioia, G. and Mazzacane, E.P. (2001) Materials flow analysis of the Italian economy. *Journal of Industrial Ecology* 4 (2): 55-70.
- Dockhom, T., Chang, L. & Ditchl, N. (1997) Removal of nitrogen from landfill leachate by using SBR-Technology. In Proceedings Sardinia '95, *6th International Landfill Symposium CISA*, Cagliari, Italy, 305-314pp.
- Drakonakis, K., Rostkowski, K., Rauch, J., Graedel, T.E. and Gordon, R.B. (2007) Metal capital sustaining a North American city: Iron and copper in New Haven, CT. *Resources, Conservation and Recycling*, 49(4): 406-420.
- Druckman, A., Sinclair, P. and Jackson, T. (2008) A geographically and socio-economically disaggregated local household consumption model for the UK. *Journal of Cleaner Production*, 16: 870-880.
- Du, B.H. (1988) An analysis of energy and material flow in ecosystem of Dali city. *Yunan Environmental Science*, 10: 15-18.
- Duan, N., Liu, K.L., Sun, Q.H. and Li, Y.P. (2009) Accounting and analyzing of material metabolism and environmental impact for Chinese economic system. *Soft Science*, 23(3): 1-5.
- Du, T. and Cai, J. J. (2006) Study on material, energy, pollutant flows for iron and steel enterprise. *Iron and Steel* 41(4): 82-87
- Duvigneaud, P., & Denaeyeyer-De Smet, S. (1977). L'Ecosysteme Urbs. L'Ecosysteme Urbain Bruxellois. In P. Duvigneaud & P. Kestemont (Eds.), *Productivite biologique en Belgique*, Bruxelles; 581-597.
- Earth Trends Data Tables: Climate and Atmosphere, (2001) World Resources Institute, International Energy Agency, United Nations Framework
- Earth Trends Data Tables: Energy Consumption by Source, (2002) World Resources Institute, International Energy Agency, United Nations Framework
- Earth Trends Data Tables: Energy Production by Source*, (2003) World Resources Institute, International Energy Agency, United Nations Framework
- Earth Trends Data Tables: Greenhouse Gas Emissions by Source*, (2004) World Resources Institute, International Energy Agency, United Nations Framework
- Earth Trends Data Tables: Energy*, (2005) World Resources Institute, International Energy Agency, United Nations Framework
- EEA, 2004: Greenhouse gas emission trends and projections in Europe 2004. European Environment Agency (EEA) Report no5/2004, Progress EU and its member states towards achieving their Kyoto targets, Luxembourg, 40 pp.

- Eflin, J. (2006) Estimating environmental impacts of universities via material flow analysis. Paper presented at 4th International Conference on Environmental Management for Sustainable Universities. University of Wisconsin-Stevens Point, USA. 26th -30th June 2006
- Ehrig, H.J. (1982) Results from investigation on degradation processes in lysimeters Gas and Wasserhaushalt – Veröffentlichungen des Institut für Stadtbauwesen. T.U., Braunschweig Heft 33, Eigenverlag
- Emenike C.U, Fauziah S.H, Agamuthu P.(2011) Characterization of active landfill leachate and associated impacts on edible fish (*Oreochromis mossambicus*). *Malaysian Journal of Science* 30 (2): 99-104.
- Energy Information Administration.US Department of Energy. Growth of the landfill gas industry;1996: URL <http://eia.doe.gov/cneaf/solar.renewables.energy.annual/chap10.html>. Retrieved 8th December 2013
- Environment Agency Japan. 1992. Quality of the environment in Japan 1992. Tokyo.
- Environment Agency Japan (EAJ) (1992), Quality of the environment of Japan 1992. Tokyo: Environment Agency Japan.
- Eurostat (2013) Economy-wide material flow analysis (EW-MFA) Compilation Guide 2013. 87p.
- Eurostat (2001) Economy-wide material flow accounts and derived indicators. A methodological guide: Office for Official Publications of the European Communities, Luxembourg
- Erkman S, & Ramaswamy R (2003). *Applied industrial ecology: a new platform for planning sustainable societies*. Aicra Corp, Bangalore, India.
- Fauziah, S.H. & Agamuthu, P (2012) Trends in sustainable landfilling in Malaysia, a developing country. *Waste Management and Research* 30(7):656-663
- Fauziah, S.H. (2010) Municipal Solid Waste Management: A comprehensive Study in Selangor, Institute of Biological Sciences , University of Malaya, PhD Thesis.
- Fauziah, S.H. and Agamuthu,P. (2007) SWPlan Application for Malaysian Municipal Solid Waste Management.*Malaysian Journal of Science* 26(1):17-22
- Fauziah,S.H. and Agamuthu,P.(2006) Viability of integrating resource recovery in MSW landfills in Malaysia-a case study.Paper presented at the *Intercontinental Landfill Research Symposium* 2006,16 May-18 May 2006,Gallivare,Sweden
- Fauziah,S.H, and Agamuthu,P., (2004) Towards and improved municipal solid waste management in Malaysia:A possibility or a fiction?In Proceedings of The Environment 2010:Urban Environment.28-29 September 2004. 5pp. Seri Kembangan, Selangor.

- Federico, L (2013) *Evaluation Of Nitrogen Turnover In Aerated Landfills By Laboratory Scale Reactors*. Master Thesis. Università Degli Studi Di Padova, Italy. 105pp.
- Fehring, R., B. Brandt, P.H. Brunner, H. Daxbeck, S. Neumayer, R. Smutny, J. Villeneuve, P. Michel, M. Kranert, M. Schultheis, D. Steinbach (2004). *MFA-Manual - Guidelines for the Use of Material Flow Analysis (MFA) for Municipal Solid Waste (MSW) Management (Project AWAST)*. Scientific Report for European Commission. [Electronic version] <http://www.iwa.tuwien.ac.at/htmd2264/publikat/awspublikationen/Publikationen/2004/AWAST%20D01%20D02%20WP1%20MFA%20Manual.pdf>
- Fisher, B.S., et al (2007), *Issues Related to Mitigation in the Long Term Context in Climate Change 2007: Mitigation of Climate Change – Contribution of Working Group III to the Fourth Assessment Report of the IPCC* [B. Metz, et al (eds.)], Cambridge University Press, Cambridge, UK and New York.
- Fischer-Kowalski, M., Hüttler, W. (1999). Society's Metabolism. The Intellectual History of Materials Flow Analysis. Part II, 1970-1998. *Journal of Industrial Ecology* 2 (4): 107-136.
- Fischer-Kowalski, M. (1998a). Society's Metabolism. In: Redclift, G., Woodgate, G. (Eds.) *International Handbook of Environmental Sociology*. Edward Elgar, Cheltenham, England.
- Fischer-Kowalski, M. (1998b). Society's Metabolism. The Intellectual History of Materials Flow Analysis, Part I, 1860-1970. *Journal of Industrial Ecology* 2 (1): 61-78.
- Forster, P., V. Ramaswamy, P. Artaxo, T. Berntsen, R. Betts, D.W. Fahey, J. Haywood, J. Lean, D.C. Lowe, G. Myhre, J. Nganga, R. Prinn, G. Raga, M. Schulz and R. Van Dorland, 2007: Changes in Atmospheric Constituents and in Radiative Forcing. In: *Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change* [Solomon, S., D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor and H.L. Miller (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.
- Friedrich Hinterberger, Stefan Giljum & Mark Hammer 2003 *Material Flow Accounting and Analysis (MFA) : A Valuable Tool for Analyses of Society-Nature Interrelationships* Sustainable Europe Research Institute (SERI) Vienna, Austria. *The Internet Encyclopaedia of Ecological Economics*. International Society of Ecological Economics. See: <http://www.ecologicaeconomics.org/publica/encyc.htm>
- Frosch RA, Clark WC, Crawford J, Sagar A, Tschang FT (1997). The industrial ecology of metals: a reconnaissance. *Philosophical Transactions of the Royal Society A*; 335:1335-47
- Gandolla, M. (1982) Results from lysimeter studies at the sanitary landfills of Croglio, Switzerland, *Gas and Wasserhaushalt von Muldeponien*,

Veröffentlichungen des Institut für Stadtbauwesen, T.U. Baraunschweig Heft 33, Eigenverlag.

- Geyer, R., Davis, J., Ley, J., He, J., Clift, R., Kwan, A., Sansom, M., Jackson, T. (2007) Time-dependent material flow analysis of iron and steel in the UK Part 1: Production and consumption trends 1970-2000. *Resources, Conservation and Recycling*, vol. 51: 101-117
- Giegrich, J. and R. Vogt, 2005: The contribution of waste management to sustainable development in Germany. Umweltbundesamt Report FKZ 203 92 309, Berlin
- Graedel, T.E., van Beers, D., Bertram, M., Fuse, K., Gordon, R.B., Gritsinin, A., Harper, E.M. (2005) The multilevel cycle of anthropogenic zinc. *Journal of Industrial Ecology* 9(3): 67-90.
- Graedel, T.E. (2004). Powerpoint Slides Presentation Metal Stocks, Flows & Sustainability. Yale University USA
- Graedel, T.E., Van Beers, D., Bertram, M., Fuse, K., Gordon, R.B., Gritsinin, A., Kapur, A., Klee, R., Lifset, R., Memon, L., Rechberger, H., Spatari, S., and Vexler, D. (2004). The multilevel cycle of anthropogenic copper. *Environmental Science & Technology*, 38: 1242-1252.
- Graedel, T. E. Bertram, M. Fuse, K. Gordon, R. B. Lifset, R. Rechberger, H. Spatari, S. (2002). The contemporary European copper cycle: The characterization of technological copper cycles. *Ecological Economics* 42: 9-26.
- Gravgaard, P.O. (2000) *Material flow accounts and analysis for Denmark*. Meeting of the Eurostat Task Force on Material Flow Accounting, Luxembourg.
- Grodzinska-Jurczak, M. (2011) Management of industrial and municipal solid waste in Poland. *Resources, Conservation and Recycling* 32(2):85-103
- Guyonnet, D., Didier-Guelorget, B., Provost, G., Feuillet, S. (1998). Accounting for water storage effects in landfill leachate modelling. *Waste Management & Research* 16 (3): 285-295.
- Guyonnet, D and Bourin, A (1994) MOBYDEC version 2.1 User's manual. ANTEA Report A01419 (unpublished).
- Hackl A. and Mauschitz G. 2008 Role of waste management with regard to climate protection: a case study. *Waste Management & Research*, 26 (1): 5-10
- Hao, Y.J., Wu, W.X., Wu, S.W., Sun, H., Chen, Y.X. (2008) Municipal Solid Waste decomposition under oversaturated condition in comparison with leachate recirculation. *Process Biochemistry* 43(1):108-112

- Hammer, M., Giljum, S., and Hinterberger, F. (2003) Material Flow Analysis of the City of Hamburg. Paper presented at the Workshop “*Quo vadis MFA? Material Flow Analysis—Where do we go? Issues, Trends and Perspectives of Research for Sustainable Resource Use*”, on October 2003, Wuppertal, Germany.
- Hashimoto, S., Y. Moriguchi, A. Saito, and T. Ono, (2004) Six indicators of material cycles for describing society’s metabolism: application to wood resources in Japan. *Resources, Conservation and Recycling*, 40(3): 201-223.
- Hassan, M.N., Z. Zakaria and R.A. Rahaman 1999, Managing Costs of Urban Pollution in Malaysia: The case of Solid Waste, Paper presented at *Majlis Perbandaran Petaling Jaya (MPPJ Seminar)* Petaling Jaya, Malaysia.
- Hauser, V.L., B.L. Weand, and M.D. Gill. (2001) Natural Covers for Landfills and Buried Waste. *Journal of Environmental Engineering*: 768 -775.
- Hawkins, T., Hendrickson, C., Higgins, C. and Matthews, H.S. (2007) A mixed-unit input-output model for environmental life-cycle assessment and material flow analysis. *Environmental Science and Technology* 41(3): 1024-1031.
- Hedbrant, J & Sörme, L (2001) Data Vagueness and Uncertainties in Urban Heavy-Metal Data Collection. *Water, Air and Soil Pollution: Focus* 1 (3-4); 43-53
- Heeres, R. R., Vermeulen, W. J., de Walle, F. B. (2004). Eco-industrial park initiatives in the USA and the Netherlands: first lessons. *Journal of Cleaner Production* 12: 985-995.
- Henseler G, Bader H-P, Oehler D, Scheidegger R, Baccini P. (1995). *Theory and implementation of corporate material accounting*. Zurich, Switzerland.
- Hekkert, M.P., Joosten, L.A and Worrell, E. (2000) Analysis of the paper and wood flow in The Netherlands. *Resources, Conservation and Recycling* 30 (1): 29-48.
- Heyer, K.U. and Stegmann, R. (1997) The long-term behaviour of landfills: results of the joint research project Lanfill body. In Proceedings *Sardinia 1997. Sixth International Waste Management and Landfill Symposium*. CISA, Cagliari.
- Hiroshi, T. (2008) Powerpoint Slides. *Development of dynamic substance flow model of zinc in Japan*.
- Hischier, R., Wager, P. and Gaughhofer, J. (2005) Does WEEE recycling make sense from an environmental perspective? The environmental impacts of the Swiss take-back and recycling systems for waste electrical and electronic equipment (WEEE). *Environmental Impact Assessment Review* 25: 525-539.

- Hoorweg,D.(2000) Waste trends in Asia and some suggested responses In the Proceedings of ISWA International Symposium and Exhibition on Waste Management in Asian Cities,Volume 1 pp 7-15.Hong Kong,China.
- Hoorweg, D and Thomas, L (1999) *What a waste : Solid Waste Management in Asia*. Working Paper series for Asia and Pacific Region, The World Bank (Urban Development Division), Washington D.C.
- Huang,D.B., Bader,H.P., Scheidegger,R. Schertenleib,R.& Gujer,W. (2007) Confronting limitations. New solutions required for urban water management in Kunming City. *Journal of Environmental Management* 84: 49-67.
- Huang, X.F. &Zhu, D.J. (2007) Material Input Analysis of Shanghai Economic and Environmental System China Population, *Resources and Environment* 17(3): 96-99.
- Huang, D.-B., Bader, H.-P., Scheidegger, R., Schertenleib, R.,Gujer, W., (2005) Confronting limitations: new solutions required in urban water management of a Chinese mega-city. *Journal of Environmental Management* 84(1) :49-61.
- Huang, S. L. and Xu, W. L. (2003) Materials flow analysis and energy evaluation of Taipei's urban construction. *Landscape and Urban Planning* 63(2):61-74.
- Huber-Humer,M., Gamperling,O. and Huber, P.P. (2010). The fate of nitrogen relating to in-situ aeration of landfills. Paper presented at *1st International Conference on Final Sinks; From Sanitary to Sustainable Landfilling - why, how, and when?* ,23rd – 25th September 2010, Vienna,Austria.
- Huber, R., Fellner, J., Döberl, G., Brunner, P.H., (2004). Water flows of MSW landfills and implications for long-term emissions. *Journal of Environmental Science and Health, Part A – Toxic/Hazardous Substances and Environmental Engineering* 39(4): 881–896.
- Huber-Humer, M., (2004) *Abatement of landfill methane emissions by microbial oxidation in biocovers made of compost*. PhD Thesis,University of Natural Resources and Applied Life Sciences (BOKU),Vienna, 279 pp.
- Hunhammar, S. (1995) Cycling residues: Potential for increased transportation demands due to recycling of materials in Sweden. *Resources, Conservation and Recycling*, vol. 15(1):21-31.
- Irina,S and Chamhuri,S. (2004)Study on Malaysian waste management minimization behaviour; reduce,reuse and recycle .In Proceedings of the *LUCED-I&UA International Conference in Environmental Technology*,Putrajaya Malaysia, 400-403pp.
- Isacsson,A. and Jonsson, K. (2000). *Material flow accounts DMI and DMC for Sweden 1987-1997*. EUROSTAT Working Paper No. 2 /2000 /B /2. Luxembourg.

- Igarashi, Y., Daigo, I., Matsuno, Y. and Adachi, Y. (2005) Dynamic material flow analysis for stainless steels in Japan and CO₂ emissions reduction potential by promotion of closed loop recycling. *Journal of the Iron and Steel Institute of Japan* 91(12): 903-909.
- International Energy Agency IEA, 2009. Scientific Report on Turning a Liability into an Asset: the Importance of Policy in Fostering Landfill Gas Use Worldwide. <http://www.iea.org/papers/2009/landfill.pdf>. Accessed on 30th March 2011.
- Intergovernmental Panel on Climate Change (IPCC) 2007. *Climate Change 2007: Mitigation. Contribution of Working Group III to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*. Chapter 10 — Waste management. J. Bogner, Coordinating Lead Author. B. Metz, O.R. Davidson, P.R. Bosch, R. Dave, L.A. Meyer (eds). Cambridge University Press.
- Intergovernmental Panel on Climate Change (IPCC) 2006. *IPCC Guidelines for National Greenhouse Gas Inventories*. IPCC/IGES, Hayama, Japan. URL <http://www.ipcc-nggip.iges.or.jp/public/2006gl/ppd.htm>. Accessed on 30th March 2011.
- Intergovernmental Panel on Climate Change (IPCC) 2001. “Summary for Policy Makers: A Report of Working Group I of the IPCC,” in *Climate Change 2001: Synthesis Report – Contribution of Working Groups I, II, and III to the Third Assessment Report of the Intergovernmental Panel on Climate Change* [R.T. Watson, et al (eds.)], Cambridge University Press, Cambridge, UK and New York.
- Intergovernmental Panel on Climate Change (IPCC) 1996: *Greenhouse gas inventory reference manual: Revised 1996 IPCC guidelines for national greenhouse gas inventories*, Reference manual Vol. 3, J.T. Houghton, L.G. Meira Filho, B. Lim, K. Treanton, I. Mamaty, Y. Bonduki, D.J. Griggs and B.A. Callender [Eds]. IPCC/OECD/IEA. UK Meteorological Office, Bracknell, pp. 6.15-6.23.
- Intergovernmental Panel on Climate Change (IPCC) 1995. *Climate Change 1994 : Radiative Forcing of Climate Change, Inter-governmental Panel on Climate Change (IPCC)* Cambridge University Press, Cambridge United Kingdom.
- ISWA White Paper (International Solid Waste Association)(2009) Waste and Climate Change.38p.
- Joosten, L.A.J., Hekkert, M.P., and Worrell, E. (2000) Assessment of the plastic flows in The Netherlands using STREAMS. *Resources, Conservation and Recycling* 30 (2): 135-161.
- Johannessen, L.M.(1999),” Guidance Note on Recuperation of Landfill Gas from Municipal Solid Waste Landfills
- Jung, C.H., Matsuto, T., Tanaka, N. (2006) Flow analysis of metals in a municipal solid waste management system. *Waste Management* 26:1337-1348.

- Jabatan Perangkaan Malaysia 2010. Laporan Kiraan Permulaan 2010.
<http://www.statistics.gov.my/ccount12/click.php?id=2127>. p. iv Accessed on 24th January 2011.
- Joardar, S.D. (2000) Urban Residential Solid Waste Management in India: Issues related to Institutional Arrangements, *Public Works Management and Policy* 4(4):319-330.
- John A. Ogren , Robert J. Charlson , Peter J. Groblicki (1983) Determination of elemental carbon in rainwater. *Anal. Chemistry* 55 (9): 1569–1572.
- Jørgensen, M. & Kjeldsen, P. (1994): Source Strength Rating of old landfills: Project on soil and groundwater No. 16. Danish Ministry of the Environment, Copenhagen.
- Kapur, A., Keoleian, G. and Kendall, A. (2008) Dynamic modeling of in-use cement stocks in the United States. *Journal of Industrial Ecology* 12(4)L: 539-556.
- Kay, M.G. & Parlikad, A.N. (2002) *Material flow analysis of public logistic networks. In progress in Material Handling Research*. [Meller, R. eds]. Material Handling Institute. Charlotte, North Carolina, USA; 205-278.
- Kinman, R.N. et al (1987) Gas Enhancement Techniques in Landfill Simulators, *Waste Management and Research* 5: 27-39
- Korner, I., Saborit-Sanchez, I. and Aguilera-Corrales, Y. (2008) Proposal for the integration of decentralised composting of the organic fraction of municipal solid waste into the waste management system of Cuba. *Waste Management* 28(1): 64-72
- Kulikowska, D. and Klimiuk, E. (2008) The effect of landfill age on municipal leachate composition, *Bioresource Technology*, 99:5981-5985.
- Kulikowska D., Klimiuk E. (2004) Removal of Organics and Nitrogen from Municipal Landfill Leachate in Two-Stage SBR Reactors. *Polish Journal of Environmental Studies* (13)4: 389-396.
- Klee, R.J & Graedel, T.E. (2004) Elemental cycles: A Status Report on Human or Natural Dominance. *Annual Review of Environment and Resources* 29:69–107.
- Kleijn R & Van der Voet E. (2001) *The relation between bulk-MFA and SFA. Folkets Hus, :Workshop of Economic Growth, Material Flows and Environmental Pressure*, Stockholm, Sweden.
- Kleijn, R., Bringezu, S., Fischer-Kowalski, M., Palm, V. (1999) *Ecologizing Societal Metabolism. Designing Scenarios for Sustainable Materials Management*. CML Report 148, Leiden.
- Kleijn, R., Van der Voet E, Udo de Haes, HA. (1994). Controlling substance flows: the case of chlorine. *Environmental Management* 8:523-42.

- Komilis, D., Alexandros, E., Georgios, G. & Constantinos, L. (2012) Revisiting the elemental composition and the calorific value of the organic fraction of municipal solid wastes. *Waste Management* 32; 372–381
- Kondo, Y. and Nakamura, S. (2004) Evaluating alternative life-cycle strategies for electrical appliances by the waste input–output model. *International Journal of Life Cycle Assessment* 9 (4): 236-246.
- Korhonen, J., Wihersaari, M., and Savolainen, I. (2001) Industrial ecosystem in the Finish forest industry: using the material and energy flow model of a forest ecosystem in a forest industrial system. *Ecological Economics* 39: 145-161.
- Kwonpongsagoon, S., Waite, D.T., Moore, S.J and Brunner, P.H. (2007) A substance flow analysis in the southern hemisphere: cadmium in the Australian economy. *Clean Technology Environment Policy* 9: 175-187.
- Kytzia, S., Faist, M. and Baccini, P. (2004) Economically extended-MFA: a material flow approach for a better understanding of food production chain. *Journal of Clean Production* 12: 877-889.
- Lacoste, E. and Chalmin, P. (2006). *From Waste to Resource –2006 World Waste Survey*, Economica Editions.
- Laner, D., Fellner, J & Brunner, P. (2010) Environmental Compatibility of Closed Landfills – Assessing Future Pollution Hazard. Presented at *1st International Conference on Final Sinks: From Sanitary to Sustainable Landfilling - why, how, and when?* on 23rd – 25th September 2010, Vienna, Austria.
- Larsen, T. and Boller, M., (2001). *Perspectives of nutrient recovery in DESAR concepts. In: Decentralised Sanitation and Reuse: Concepts, Systems and Implementation*. [P. Lens, G. Zeeman and G. Lettinga (Eds)] .IWA Publishing.
- Lassen C, Hansen E. (2000) Paradigm for substance flow analysis: guide for SFAs carried out for the Danish EPA. Denmark: Danish Environmental Protection Agency.
- Laura S., Riina A. and Pekka K. (2004) Flow of nitrogen and phosphorus in municipal waste: a substance flow analysis in Finland. *Journal of Industrial Ecology* 1: 165-186
- Leitzke, O. (1996) *Landfill treatment by photochemical wet oxidation*. Roczn. PZH, 1 (47); 125pp.
- Lelieveld, J., Crutzen P.J., Dentener, F.J., (1998) Changing concentration, lifetime and climate forcing of atmospheric methane, *Tellus B* 50 (2): 128-150.
- Lema J.M., Mendez R and Blazquez R (1988) Characteristics of landfill leachates and alternatives for their treatment: a review. *Water, Air, and Soil Pollution* 40: 223–250.

- Leontief, W. (1936) Quantitative Input and Output Relations in the Economic System of the United States. *The Review of Economics and Statistics* 18;105-125.
- Li, D., Wang, Y.L., Fu, Y. and Niu, W.Y.(2007) The Efficiency Analysis of Material Flow Account for the 19 Cities of China. *Resources Science* 29(6): 177-182.
- Li, G. (2004) Material flow analysis of nations based on sustainable development. *China Industrial Economy*, No. 11: 11-18.
- Li, G.(2005) Material flow analysis of the environmental cost in China's foreign trade. *Statistical Research*, No. 9: 60-64.
- Liu, K.L., Duan, N., and Wu, C.Y. (2009a) Analysis on material input and dematerialization of China's economy during 1990-2005. *Technology Economics* 28(4): 71-75.
- Liu Y, Gong XZ, Nie ZR, Zhang Q, Wang ZH.(2009b) Design and development of material life cycle assessment software system. *Journal of Beijing University of Technology* ;35(7): 9916.
- Liu, W., Ju, M.T., Yu, J.L., and Li, Z. (2006) Analysis on Material Flow of Economic and Environmental System in Tianjin. *Urban Environmental and Urban Ecology* 19(6): 8-11.
- Liu, Y. and Chen, J.N. (2006) Substance flow analysis of phosphorus cycle system in China. *China Environmental Science* 26(2): 238- 242.
- Liu, J.Z., Wang, Q., Gu, X.W., Ding, Y., and Liu, J.X. (2005) *Direct Material Input and Dematerialization Analysis of Chinese Economy*. *Resources Science* 27(1); 46-51. Living Planet Report (2008)WWF, Zoological Society of London, Global Footprint Network WWF International. pp 48.
- Lou, Y. (2007) *Material Metabolism for Cities: Methodology and Case Study of Handan City*. Tsinghua University, June 2007.
- Lu, L.T., Chang, I.C., Hsiao, T.Y., Yu, Y.H., & Ma, H.W. (2007). Identification of Pollution Source of Cadmium in Soil, Application of Material Flow Analysis and A Case Study in Taiwan. *Environmental Science Pollution Research* 14 : 49-59.
- Lu, Z.W. (2002) Iron flow analysis for the life cycle of steel products — A study on the source index for iron emission. *Acta Metallurgica Sinica* 38(1);58-68.
- Malaysian Meteorological Department (MMD) 2009. Scientific Report on *Climate Change Scenarios for Malaysia 2001-2009*.MOSTI.
- Malaysia National Communication*, Submitted to the UNFCCC; Ministry of Science, Technology and the Environment, August 2000. Malaysia Third Outline Perspective Plan (OPP3, 2001-2010)

- Marttinen, S.K., Kettunen, R., H., Sormunen, K. M., Soimasuo, R.M. & Rintala, J.A.(2002) Screening of physical-chemical methods for removal of organic material, nitrogen and toxicity from low strength landfill leachates. *Chemosphere* 46:851
- Mao, J.S., Yang, Z.F., and Lu, Z.W. (2007) *Industrial flow of lead in China*. *Transactions of Nonferrous Metals Society of China* 17: 400-411.
- Matheson (2002) TriGas. Material Safety Data Sheet for Ammonia/Air Gas Mixtures. Parsippany, NJ.
- Matthews, E., Amann, C., Bringezu, S., Fischer-Kowalski, M., Huettler, W., Kleijn, R., Moriguchi, Y., Ottke, C., Rodenburg, E., Rogich, D., Schandl, H., Schuetz, H., Van Der Voet, E., Weisz, H., (2000). *The Weight of Nations —Material Outflows from Industrial Economies*. World Resources Institute, Washington, DC.
- Matthews, E., Bringezu, S., Fischer-Kowalski, M., Huettler, W., Kleijn, R., Moriguchi, Y., Ottke, C., Rodenburg, E., Rogich, D., Schandl, H., Schuetz, H., van der Voet, E., Matsube Y. K., Kubo H., Nakajima, K. & Nagasaka T. (2009) Material Flow Analysis of Phosphorus in Japan: The iron and steel industry as a major phosphorus Source. *Journal of Industrial Ecology* : 650-654
- Michaelis, P. and Jackson, T. (2000a) Material and energy flow through the UK iron and steel sector. Part 1: 1954-1994. *Resources, Conservation and Recycling* 29 (122):131-156
- McBean, E.A, Poland, R., Rovers, F., and Crutcher, A.J. (1982) Leachate Collection Design for Containment Landfills. *Journal of Environmental Engineering*: 204-209
- Mertins, L., C. Vinolas, A. Bargallo, G. Sommer, and J. Renau, 1999: Development and application of waste factors - An overview. Technical Report No. 37, European Environment Agency, Copenhagen.
- Michaelis, P. and Jackson, T. (2000 b) Material and energy flow through the UK iron and steel sector. *Part 2: 1994-2019*. *Resources, Conservation and Recycling* 29 (3): 209-230.
- Milan, S., Jan, K. and Tomas, H. (2003) Material flow accounts, balances and derive indicators for the Czech Republic during the 1990s: results and recommendations for methodological improvements. *Ecological Economics* 45 (1): 41-57.
- Ministry of Housing and Local Government Malaysia & Japan International Cooperation Agency (2006) *The Study On National Waste Minimisation In Malaysia*, Final Report, 106 p.

Ministry of Science, Technology and Environment (MOSTE), 2000. *Malaysia Initial National Communication*, 131pp.

Mohd Armi.A.S., Latifah, A.M. Agamuthu, P., Wan Nor Azmin, S. and Amimul, A. (2013) Real Data Composition of Municipal Solid Waste (MSW) generated In Balakong, Selangor, Malaysia. *Life Science Journal* 10(4);1687-1694

Moll, H.C., Noorman, K.J., Kok, R., Throne-Holst, H. And Clark, C. (2005) Pursuing more sustainable consumption by analyzing household metabolism in European countries and cities. *Journal of Industrial Ecology* 9(1): 259-275.

Monni, S., R. Pipatti, A. Lehtilä, I. Savolainen, and S. Syri, 2006: *Global climate change mitigation scenarios for solid waste management*. Espoo, Technical Research Centre of Finland. VTT Publications, No. 603, pp 51.

Montangero, A. & Belevi, H. (2008) An approach to optimise nutrient management in environmental sanitation systems despite limited data. *Journal of Environmental Management* 88 (4);1538–1551

Montangero, A., Cau, L.N., Viet Anh, N., Nga, P.T., Tuan, V.D., Belevi, H., (2006). Optimizing Water and Nutrient Management in Hanoi, Vietnam. SANDEC News 7, April 2006. EAWAG/SANDEC, Duebendorf, Switzerland.

Montangero, A, Anh, N.V., Lüthi C, Schertenleib, R. & Belevi, H (2006). Building the Concept of Material Flow Analysis into the Household- Centred Environmental Sanitation Planning Approach. Proceedings of the Conference on *Renewed Efforts to Plan for Sustainable Development*. European Academy for the Urban Environment and Technical University Berlin, Germany, 29th -30th August 2006

Morf, L., Tresp, J., Gloor, R. & Schuppisser, F. (2006) Metals, non-metals and PCB in electrical & electronic waste-actual levels in Switzerland. *Waste Management* 27: 1306 -1316

Morf, L., Tresp, J., Gloor, R., Huber, Y., Stengele, M & Zennegg, M. (2005). Brominated flame retardants in waste electrical and electronic equipment: substance flows in a recycling plant. *Environment, Science & Technology* 39(22): 8691-8699

Morf, L. (2000) powerpoint slides Analysis of waste composition based on MFA and LCA. Presented at NEWA conference 25-26 September 2008, Vienna Austria.

Moriguchi, Y. (2003). Towards a society with sound material cycles: Material flow indicators and their quantitative targets. *Waste Management Research Tokyo* 14(5); 242-251.

- Müller, D.B., Wang, T., Duval, B. and Graedel, T.E. (2006) *Exploring the engine of anthropogenic iron cycles*. PNAS 103(44): 16111-16116.
- Mutha, N.H., Patel, M. and Premnath, V. (2006) Plastics materials flow analysis for India. *Resources, Conservation and Recycling* 47: 222-244.
- Muukkonen, J. (2000) *TMR, DMI and material balances*, Finland 1980- 1997. EUROSTAT Working Paper, No. 2 /2000 /B /1. Luxembourg. Nakamura, S. and Kondo, Y. (2002) Input-output analysis of waste management. *Journal of Industrial Ecology* 6 (1): 39-63.
- Nakamura, S. and Kondo, Y. (2006) A waste input–output life-cycle cost analysis of the recycling of end-of-life electrical home appliances. *Ecological Economics* 57; 494-506.
- Nakamura, S., Nakajima, K., Kondo, Y. and Nagasaka, T. (2007) The waste input-output approach to materials flow analysis - Concepts and application to base metals. *Journal of Industrial Ecology* 11(4): 50-63.
- Nasir, A.A. 2007 , Institutionalizing Solid Waste Management in Malaysia: Department of National Solid Waste Management; Ministry of Housing and Local Government Malaysia, power point presentation on 6th December 2007, Kuala Lumpur, Malaysia.
- National Hydraulic Research Institute Malaysia (NAHRIM). 2006. *Study of the impact of climate change on the hydrologic regime and water resources of Peninsular Malaysia – Final Report*. Ministry of Natural Resources and Environment, pp.184.
- National Policy on Climate Change Malaysia* (2010) Ministry of Natural Resources and Environment Malaysia. 22pp
- Nesadurai, N., 1999, The 5R Approach to Environmentally Sound Solid Waste, Paper presented in Seminar on “Local Communication and the Environment” organized by EPSM, 24-25th October 1998 Shah’s Village Hotel, Petaling Jaya, Selangor.
- Neset, T.S.S., Bader, H.P. and Scheidegger, R. (2006) Food consumption and nutrient flows – Nitrogen in Sweden since the 1870s. *Journal of Industrial Ecology* 10(4): 61-75.
- Newcombe K, Kalma ID, Aston AR. (1978) The Metabolism Of A City: The Case Of Hong Kong. *Ambio* 7:3-15.
- Nicolas, E., Agata, R, Martin, K. (2012). *Understanding Waste Management in a Megacity - Experiences in Addis Ababa, Ethiopia*
- Ninth (9th) Malaysia Plan (2006-2010)
<http://www.epu.gov.my/html/themes/epu/html/rm9/english/Chapter22.pdf>. Accessed on 25th January 2011.

- Niza, S. and Ferrão, P. (2005) A transitional economy's metabolism: The case of Portugal. *Resources, Conservation and Recycling* 46: 265-280.
- Odum, H.T. and Odum, E.C. (2006) The prosperous way down. *Energy* 31(1): 21-32
- OECD (2007), *Measuring Material Flows and Resource Productivity – An OECD Guide*, OECD, Paris.
- OECD (2008a): *Measuring Material Flows and Resource Productivity. Synthesis Report*. Paris. <http://www.oecd.org/dataoecd/55/12/40464014.pdf>
- OECD (2008b): *Measuring Material Flows and Resource Productivity. Volume 1 - The OECD Guide*. Paris. <http://www.oecd.org/dataoecd/46/48/40485853.pdf>
- OECD (2008c): *Measuring Material Flows and Resource Productivity. Volume 2 - The Accounting Framework*. Paris. <http://www.oecd.org/dataoecd/46/51/40486044.pdf>
- OECD (2008d): *Measuring Material Flows and Resource Productivity. Volume 3 – Inventory of country activities*. Paris. <http://www.oecd.org/dataoecd/47/28/40486068.pdf>
- OECD, 2004: *Towards waste prevention performance indicators*. OECD Environment Directorate. Working Group on Waste Prevention and Recycling and Working Group on Environmental Information and Outlooks. 197 pp
- OECD (2003) *OECD Environmental Data Compendium 2002*. Paris. <http://www.oecd.org>. Accessed on 24th January 2011
- Paraskaki, I. & Lazaridis, M. (2005) Quantification of landfill emissions to air: a case study of the AnoLiosia landfill site in the greater Athens area. *Waste Management and Research* 23: 199–208.
- Patel, M.K., Jochem, E., Radgen, P. and Worrell, E. (1998) Plastics streams in Germany—an analysis of production, consumption and waste generation. *Resources, Conservation and Recycling* 24: 191- 215.
- Petrovic, B. (2007) *Statistics Austria 1996-2005*, Vienna.
- Polprasert, C. (1996). *Organic Waste Recycling Technology and management*, 2nd Edition. John Wiley and Sons.
- Porte, M.S., Widmer, R., Jain, A., Bader, H.P., Scheidegger, R. and Kytzia, S. (2005) Key drivers of the e-waste recycling system: Assessing and modelling e-waste processing in the informal sector in Delhi. *Environmental Impact Assessment Review* 25: 472-491.
- Poulsen, T.G., Moldrup, P., Sørensen, K., & Hansen, J.Aa. (2002): *Linking landfill*

- hydrology and leachate chemical composition at a controlled municipal landfill (Kåstrup, Denmark) using state-space analysis. *Waste Management & Research* (20): 445–456.
- Rathi,S. (2005) Alternative approaches for better municipal solid waste management in Mumbai, India. *Waste Management* 26(10):1192-2000.
- Rathje, W.L., W.W. Hughes, D.C. Wilson, M.K. Tani, G.H. Archer, R.G. Hunt, and T.W. Jones, (1992) The archaeology of contemporary landfills. *American Antiquity* 57(3): 437-447.
- Richards, K., 1989: Landfill gas: working with Gaia. *Biodeterioration Abstracts* 3(4): 317-331
- Risku-Norjaa,H and Mäenpääb, I (2007) MFA model to assess economic and environmental consequences of food production and consumption. *Ecological Economics* 60: 700-711.
- Ritzkowski, M., and Stegmann, R. (2003) Emission behaviour of aerated landfills: Results of laboratory scale investigations. *Sardinia 2003 9th Waste Management and Landfill Symposium*, Cagliari, Italy.
- Robinson, H. D. & Maris, P. J.(1983) The treatment of leachates from domestic wastes in landfills I. Aerobic biological treatment of a medium – strength leachate. *Wat. Res.*, 11 (17);1537.
- Röhrs,L.H., Fourie,A.B. & Blight,G.E. (1998) *Water SA* 24 (2) pp 10.
- Rotter, V.S.,Kost, T., Winkler,J.& Bilitewski,B. (2004) Material Flow Analysis of RDF-production process. *Waste Management* 24: 1005-1021
- Russi, D., Gonzalez-Martinez, A.C., Silva-Macher, J.C., Giljum, S., Martinez-Alier, J. and Vallejo, M.C. (2007). *Material Flows in Latin America. Journal of Industrial Ecology*12(5): 704-720.
- Sahely,H.R., Dudding,S., and Kennedy, C.A. (2003) Estimating the urban metabolism of Canadian cities: Greater Toronto Area case study. *Canadian Journal of Civil Engineering* 30(2): 468-483.
- Sandro L. Machado, Miriam F. Carvalho, Jean-Pierre Gourc, Orencio M. Vilar, Julio C.F. , Nascimento (2009) Methane generation in tropical landfills: Simplified methods and field results. *Waste Management* 29 (1): 153-161
- São Mateus M, Machado S and Barbosa M (2011) An attempt to perform water balance in a Brazilian municipal solid waste landfill. *Waste Management* 32: 471–481.
- Schaffner, M., Bader, H.-P., Koottatep, T., Scheidegger, R.,Schertenleib, R., (2006).

- Assessment of Water Quality Problems and Mitigation Potentials by using Material Flow Analysis – A Case-Study in the Tha Chin River Basin, Thailand. Wise Water Resources Management Towards Sustainable Growth and Poverty Reduction. 3rd APHW Conference, Bangkok, Thailand.
- Saurat, M and Bringezu, S. (2008) Platinum Group Metal Flows of Europe, Part 1. *Journal of Industrial Ecology* 12(5):754-767.
- Schaffner, M., Koottatep, T., & Schertenleib, R. (2005) Paper presented at *Conference on Role of Water Sciences in Transboundary River Basin Management*, March 2005, Ubon, Ratchathani, Thailand.
- Second National Communication to the UNFCCC (NC2) (2011). Ministry of Natural Resources and Environment, Malaysia. 115 pp.
- Schandl, H., & Schulz, N. (2001). *Contribution to the ISER Working Paper Series: Using Material Flow Accounting to operationalize the concept of Society's Metabolism. A preliminary MFA for the United Kingdom for the period 1937-1997*. IFF Institute for Interdisciplinary Studies of Austrian Universities, Vienna, Austria: ECASS European Centre for the Analysis in the Social Sciences.
- Schandl, H. And Schulz, N. (2000) *Using material flow accounting to operationalise the concept of Society's Metabolism: A preliminary MFA for the United Kingdom for the period of 1937-1997*. ISER Working Paper No. 2000-3. University of Essex, Colchester.
- Scharf, W. (1982). Codisposal of Municipal Solid Waste and Sewage Sludge ; investigation in laboratory scale, Gas and Wasserhaushalt von Mulldeponien, Veroffentlichungen des Institut fur Stadtbauwesen, T.U. Braunschweig Heft 33, Eigenverlag.
- Schroeder, P.R., Dozier, T.S., Zappi, P.A., McEnroe, B.M., Sjoström, J.W., & Peton, R.L. (1994): *The Hydrologic Evaluation of Landfill Performance (HELP) Model: Engineering Documentation for Version 3*, EPA/600/R- 94/168b, US. Environmental Protection Agency, Risk Reduction Engineering Laboratory, Cincinnati, OH.
- Schulz, N.B. (2007) The direct material inputs into Singapore's Development. *Journal of Industrial Ecology* 11(2); 117-131.
- Schutz, H. & Bringezu, S. (1993) *Major material flows in Germany*. Fresenius Environmental Bulletin 2
- Schutz, H. and Welfens, M. J. (2000) *Sustainable development by dematerialization in production and consumption—strategy for the new environmental policy in Poland*. Wuppertal Papers, Wuppertal, vol. 103.

- Scott, A., Redclift, M. (1995). Policy discussions. *Industrial Metabolism: Restructuring for Sustainable Development. Global Environmental Change*, 5: 157-166 .
- Seelsaen,N., McLaughlan,R.,Stuetz,R. & Moore,s. (2007). Material Flow Analysis : an integrated tool for stormwater runoff management (A case study of copper in stormwater runoff). Paper presented at *NOVATECH 6th International Conference on sustainable techniques and strategies for urban water management*,25-28 June 2007, Lyon ,France.
- Sendra,C., Gabarrell, X., & Vicent, T. (2007) Material flow analysis adapted to an industrial area. *Journal of Cleaner Production* 15: 1706-1715
- Shen,W., Yin,Y.L. & Jin,Y. (2006) Public project evaluation based on material flow analysis. *Journal of Tianjin University of Technology* 22(1): 43-46.
- Shi, Z.G. (2006) Material flow analysis of auto industry. *Technical Economic*, 7: 9-11.
- Stamm, J.W.& Walsh, J.J. (1988) Pilot Scale Evaluation of Sludge Landfilling: Four Years of Operation. United States Environmental Protection Agency, Cincinnati, Ohio.EPA/600/2-88/027.
- Singh, S.J., Grunbuhel, C.M., Schandl, H. and Schulz, N. (2001) Social Metabolism and Labour in a Local Context: Changing environmental relations on Trinket Island. *Population and Environment* 23(1):71-104.
- Socolow RH, Thomas V. 1997. The industrial ecology of lead and electric vehicles. *Journal of Inustrial Ecology* 1(1):13–36
- SOCOPSE/Source Control of Priority Substances in Europe (2009) *Workpackage 2 – D2.1. Material Flow Analysis for selected Priority Substances* (Project contract no. 037038), Sweden.70pp.
- Somlyódy, L., Brunner, P.H., Fenz, R., Kroiß, H., Lampert, Ch., Zessner, M.,(1997) Nutrient balances for Danube Countries. Executive Summary. <http://www.iwa.tuwien.ac.at/htmd2264/publikat/publis/danube.htm>. Accessed on 28th March 2011
- Spatari, S, Bertram, M., Fuse, K., Graedel, T.E., Shelov, E. (2003). The contemporary European zinc cycle: 1-year stocks and flows. *Resources Conservation & recycling* 39(2); 137-160.
- Spokas, K., J. Bogner, J. Chanton, M. Morcet, C. Aran, C. Graff, Y. Moreau-le-Golvan, N. Bureau, and I. Hebe, 2006: Methane mass balance at three landfill sites: what is the efficiency of capture by gas collection systems? *Waste Management*, 26.: 516-525.
- Stegmann, R. (1982) Description of biological degradation processes of municipal solid waste in laboratory scale lysimeter, *Gas and Wasserhaushalt von Mulldeponien, Veroffentlichungen des Institut fur Stadtbauwesen, T.U. Braunschweig Heft 33, Eigenverlag.*

- Steurer, A. (1992) Stoffstrombilanz Österreich, 1988. Schriftenreihe Soziale Ökologie. IFF Social Ecology No. 26. IFF/Abteilung Soziale Ökologie, Vienna.
- Tachibana, J., Hirota, K., Goto, N., and Fujie, K. (2008) A method for regional-scale material flow and decoupling analysis: A demonstration case study of Aichi prefecture, Japan. *Resources, Conservation and Recycling* 52; 1382-1390.
- Tao, Z.P. (2003) *Ecological Rucksack and Ecological Footprint - the concept of weight and area of sustainable development*. Beijing: Economic Science Press.
- Tarr, J. A. (1996). *The search for the ultimate sink: urban pollution in historical perspective*, Akron: The University of Akron Press.
- Tchobanoglous, G. & Kreith, F. (2002) *Handbook of Solid Waste Management* Mc Graw-Hill, New York, USA.
- Tchobanoglous, G., Theisen, H. & Vigil, S. (1993) *Integrated Solid Waste Management, Engineering Principles and Management Issues*. McGraw Hill Book Co., New York.
- Tenth (10th) Malaysia Plan (2011-2015) : Chapter 6: Building an Environment that Enhances Quality of Life. <http://www.epu.gov.my/html/themes/epu/html/RMKE10/img/pdf/en/chapt6.pdf>. Accessed on 25th January 2011.
- Thorntwaite, C & Mather, J (1955) The water balance. *Climatology* 8(1), Centerton, New Jersey, USA Laboratory of Climatology.
- Timur, H., Öztürk, I., Altınbaş, M., Arıkan, O., & Tuyluoğlu, B.S. (2000) Anaerobic treatability of leachate: a comparative evaluation for three different reactor systems. *Wat. Sci. Technol.*, 1-2 (42); 287.
- Trenberth, K.E., P.D. Jones, P. Ambenje, R. Bojariu, D. Easterling, A. Klein Tank, D. Parker, F. Rahimzadeh, J.A. Renwick, M. Rusticucci, B. Soden and P. Zhai, 2007: Observations: Surface and Atmospheric Climate Change. In: *Climate Change 2007: The Physical Science Basis*. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change [Solomon, S., D. Qin, M. Manning, Z. Chen, Marquis, M. K.B. Averyt, M. Tignor and H.L. Miller (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.
- Udo de Haes H, van der Voet E, Kleijn R. (1997) From quality to quantity: substance flow analysis (SFA), an analytical tool for integrated chain management. In: BringezuS, Fischer-Kowalski M, Kleijn R, Palm V, editors. *Regional and national material flow accounting: from paradigm to practice of sustainability*. Leiden, the Netherlands: The ConAccount Workshop Wuppertal Special 4: 32–42
- Uihlein, A., Pogonietz, W.R. and Schebek, L (2006) *Carbon flows and carbon use in the*

German anthroposphere: An inventory. Resources, Conservation and Recycling, vol. 46, pp. 410-429. United Nations Environmental Programme (2002) Waste generation-how many million tonnes really? URL: http://www.vitalgraphics.net/waste/html_file/08-09_waste_generation.html. Accessed 24th January 2011

USEPA (2006a) Global anthropogenic non-CO2 greenhouse gas emissions: 1990-2020. Office of Atmospheric Programs, Climate Change Division. URL http://www.epa.gov/ngs/econ-inv/downloads/Global_Anthropogenic_Emissions_Report.pdf> Accessed on 30th March 2011.

USEPA (2006b). Solid waste management and greenhouse gases — A life-cycle assessment of emission and sinks. 3rd Edition. U.S. Environmental Protection Agency. Washington, DC. September 2006.

USEPA (1991). Seminar Publication, Design and Construction of RCRA/CERCLA Final Covers. EPA/625/4-91/025. May.

US Interagency Working Group Industrial Ecology Material Energy Flows (1998) *Materials*. Washington, DC: Council of Environmental Quality. 29 pp

United Nations Development Program UNDP Annual Report (2008) Capacity Development: Empowering People and Institutions. http://www.undp.org/publications/annualreport2008/pdf/IAR2008_ENG_low.pdf. Accessed on 30th March 2011.

United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP) (2001) Overview Of Regional And International Statistical Work In Environment Statistics, Indicators And Accounting. Note by Secretariat. Online: <http://www.unescap.org/Stat/envstat/stwes-013.pdf>. Accessed on 20th April 2011.

United Nations Environment Program (UNEP). (2010), *Waste and Climate Change : Global Trends and Strategy Framework*. International Environmental Technology Centre. Osaka/Shiga, Japan.

United Nations Environment Program (UNEP). (2005), “Solid Waste Management (Volume II: Regional Overviews and Information Sources), International Environmental Technology Centre”. URL :http://www.unep.or.jp/Ietc/Publications/spc/Solid_Waste_Management/SWM_Vol-II.pdf. Accessed on 30th March 2011.

United Nations Environment Program UNEP (2004). *Vital Waste Graphics*. Basel Convention Secretariat (COP7), Division of Environmental Conventions (DEC) of UNEP & Grid-Arendal and the Division of Early Warning Assessment-Europe of UNEP <http://www.grida.no/files/publications/vital-waste/wastereport-full.pdf> . ” Accessed on 30th March 2011.

United Nations Environment Programme UNEP (2004), State of Waste Management in

South East Asia, United Nations Environment Programme UNEP/IETC, Paris, www.unep.or.jp/Ietc/Publications/spc/State_of_waste_Management/index.asp.

United States Environmental Protection Agency (USEPA) (2006), Global Mitigation of Non-CO₂ Greenhouse Gases 1990-2020 (EPA Report 430-R-06-003), URL: <http://www.epa.gov/climatechange/economics/downloads/GlobalMitigationFullReport.pdf>. Accessed on 30th March 2011.

United States Environmental Protection Agency (US EPA)(1999) *National source reduction characterization report for municipal solid waste in the United States*. EPA 530R-99-034, Office of Solid Waste and Emergency Response, Washington, D.C.

Universiti Teknologi Malaysia (UTM). 2007. *National Coastal Vulnerability Index Study – Phase 1*. Drainage and Irrigation Department (DID), Ministry of Natural Resources and Environment Malaysia

Van Beers, D. and Graedel, T.E. (2003) The magnitude and spatial distribution of in-use copper stocks in Cape Town, South Africa. *South African Journal of Science* 99: 61-69.

Van der Voet, E., Egmond L, Kleijn R, Huppes G.(1994) Cadmium in the European Community: a policy-oriented analysis. *Waste Management Resources* 12:507-26.

Van de Graaf, A. A., de Bruijn, P, Robertson, L. A., Jetten, M. S N., Kuenen, J. G (1996) Autotrophic growth of anaerobic ammonium-oxidising microorganisms in a fluidised bed reactor. *Microbiology* 14: 2187-2196.

Venkatesh ,G., Hammervold,J., and Brattebo, H. (2009) Combined MFA-LCA for analysis of wastewater pipeline networks case study of Oslo, Norway. *Journal of Industrial Ecology*, 13(4): 532-550.

Vitousek P, Edin LO, Matson PA, Fownes JH, Neff J: Within-system element cycles, input-output budgets, and nutrient limitations. In *Success, Limitations, and Frontiers in Ecosystem Science*. Edited by Pace M and Groffman P. New York, Springer-Verlag: 432-451.

VUT (Vienna University of Technology) 2000. MFA Manual Guidelines for the use of Material Flow Analysis for Municipal Solid Waste (MSW) Management :Aid in the Management and European Comparison of Municipal Solid Waste Treatment Methods for a global and Sustainable Approach (AWAST Project. Workpackage 1: Waste Matter Aspect EVK4-CT-2000-00015. Vienna University of Technology, Institute for Water Quality and Waste Management, Resource Management Agency, Bureau de Recherches Geologiques et Minieres and Stuttgart University, Institute for Water Quality and Waste Management.

Wang, X.Y., Yan, E.S., and Ou, Y. (2009) Material flow analysis of the phosphorus cycle in

- the upper watershed of the Miyun Reservoir in Beijing. *Acta Scientiae Circumstantiae* 29(7): 1549-1561.
- Wang, Q., Liu, J.Z., Gu, X.W. and Ding, Y. (2005) Domestic Material Consumption of Chinese Economic System. *Resources Science* 27(5): 2-7.
- Wang, Y., Pelkonen, M., Zhang, L. and Kaila, J. (2013). Proceedings presented at *Sinks a Vital Element of Modern Waste Management 2nd International Conference on Final Sinks* 16th – 18th May 2013, Espoo, Finland
- Wan Azli, W.H., S.Mohan, K. & S. Kumarenthiran, 2008. Climate Change Scenario Climate Change Scenario And the Impact of Global Warming on the Winter Monsoon. In the *Second National Conference on Extreme Weather and Climate Change: Understanding Science and Risk Reduction*. 14-15 October 2008, Putrajaya, Malaysia.
- Warren-Rhodes, K. And Koenig, A. (2001) *Escalating trends in the urban metabolism of Hong Kong: 1971-1997*. *AMBIO* 30(7):429 - 438
- Waste and Climate Change – ISWA White Paper (2009). International Solid Waste Association (ISWA). 40p
- Wei, T. And Zhu, X.D. (2009) Material flow analysis of Xiamen City's eco economic system. *Acta Ecologica Sinica* 29(7): 3800-3810.
- Weisz, H. , Krausmann, F. , Amann C., Eisenmenger, N. , Erb, K-H., Hubacek K., and Fischer-Kowalski, M., (2005) The physical economy of the European Union: Cross-country comparison and determinants of material consumption," *Ecological Economics* 58: 676-698.
- Weisz, H. (2000) *The weight of nations. Material outflows from industrial economies*. World Resources Institute, Washington.
- Wenjie Z & Cheng, S (2013) Parametric analyses of evapotranspiration landfill covers in humid regions. *Journal of Rock Mechanics and Geotechnical Engineering* 6(4): 356–365
- Wen, Z.G., Li, R.J., Huang, L.Y., and Xu, H.L. (2009) Material metabolism in the Chinese highway traffic system. *Journal of Tsinghua University (Science and Technology)* 49(9): 1516-1519.
- Willumsen, H.C. (2003) Landfill gas plants: number and type worldwide. Proceedings of *The Sardinia '05, International Solid and Hazardous Waste Symposium*, October 2005, CISA publisher, University of Cagliari, Sardinia, Italy.
- Wittmer, I. (2005) Modelling the water and nutrient flows of freshwater aquaculture in Thailand. A material flow analysis. Diploma Thesis, Swiss Federal Institute of Technology. October 2005. 68pp

- Woodard,R.,Harder,M.K. and Bench,M.(2006) Participation in curbside recycling schemes and its variation with material types.*Waste Management* 26(8): 914-919
- Wolman, A. (1965). The metabolism of cities. *Scientific American* 213 ; 179-190.
- World Bank (2012) Hoornweg, D & Bhada-Tata,P .What a waste : A global review of solid waste management.
<http://documents.worldbank.org/curated/en/2012/03/16537275/waste-global-review-solid-waste-management#>. Accessed on 30th March 2011.
- World Bank Development Report: Development and Climate Change (2010) The International Bank for Reconstruction and Development / The World Bank Washington,USA.<http://siteresources.worldbank.org/INTWDR2010/Resources/5287678-1226014527953/WDR10-Full-Text.pdf>. Accessed on 7th July 2010.
- World Bank (1999), What a Waste: Solid Waste Management in Asia, World Bank, Urban Development Sector Unit, East Asia and Pacific Region,
<http://web.mit.edu/urbanupgrading/urbanenvironment/resources/references/pdfs/WhatAWasteAsia.pdf>. Accessed on 30th March 2011.
- World Meteorological Organisation (WMO) (2008), The State of Greenhouse Gases in the Atmosphere Using Global Observations through 2007,
<http://www.wmo.int/pages/prog/arep/gaw/ghg/documents/ghg-bulletin-4-finalenglish.pdf>. Accessed on 30th March 2011.
- Xu, Y.J., Zhang, T.Z., Shi, L., and Chen, J.N. (2004a) Material flow analysis in Guiyang. *Journal of Tsinghua University (Science and Technology)* 44(2): 1688-1691.
- Xu, M and Zhang, T.Z. (2004b) Material flow analysis of fossil fuel usage in the Chinese economy. *Journal of Tsinghua University (Science and Technology)* 44(9):1166-1170.
- Xu, M. and Zhang, T.Z. (2005) *Material* input analysis of the Chinese economy. *China Environmental Science* 5 (3): 324 -328.
- Xu, Y.J. and Zhang, T.Z. (2006) Application of physical input-output table to material flow analysis in Yima City. *China Environmental Science* 26(6): 756-760.
- Xu, M., Jia, X.P., Shi, L., and Zhang, T.Z. (2008) Societal metabolism in Northeast China: Case study of Liaoning Province. *Resources, Conservation and Recycling* 52: 1082-1086.
- Yue, Q. and Lu, Z.W. (2006) An Analysis of Contemporary Copper Recycling in China. *The Chinese Journal of Process Engineering* 6(4): 683-690.
- Zhang,M (2005) Quantitative research on mineral material flow. *Land and Resources Information* 4:18-20

- Zhang, S.F. and Lei, J. (2006) Analyzing Dematerialization of Shaanxi Province based on MFA. *Resources Science* 27(4); 145-149.
- Zhang, Y.B., Xia, Z.X., Chen, X.G., and Peng, X.C. (2007) Dynamics of regional sustainable development based on material flow analysis :A case study in Guangdong Province. *Resources Science* 29(6): 212-217.
- Zhang, B., Huang, H.P. and Bi, J. (2009a) Material flow analysis and data envelopment analysis based regional eco-efficiency analysis: case study of Jiangsu Province. *Acta Ecologica Sinica* 29(5): 2473-2480.
- Zhang, Y., Shan, Y.J. and Han, X.M. (2009b) Design and analysis of an input-output table of material flow in economic system in Beijing. *Journal of Natural Resources* 24(3): 514-522.
- Zhu, M., Fan, X., Rovetta, A., He, Q., Vicentini, F., Liu, B., Giusti, A. and Liu, Y. (2009) Municipal Solid Waste Management in Pudong New Area, China. *Waste Management*, 29(3): 1227-1233
- Zinati, G.M., Y.C. Li, and Bryan, H.H. (2001) Utilization of compost increases organic carbon and its humin, humic, and fulvic acid fractions in calcareous soil. *Compost Science & Utilization* 9: 156-162.