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### *address*

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### *personal*

born in Vienna 1946

nationality: Austrian

married, two children

### *education*

1985 habilitation for sociology at Graz University (assessment: J. Habermas, A. Pelinka)

1970-72 postgraduate social science studies at Institute for Advanced Studies, Vienna

1971 graduation in sociology, psychology and history of art (PhD, University of Vienna)

### *employment*

2003 - cont. full professor of Social Ecology at Klagenfurt University and director of the Institute of Social Ecology at the Faculty for Interdisciplinary Studies (IFF) in Vienna

1986-03 assistant professor and head of department of social ecology at the Institute for Interdisciplinary Studies of Austrian Universities (IFF); lecturer for sociology at Vienna University

1985-86 research cooperation with F. Kreissler (Sorbonne) on unemployment and quality of life (comparison France - Austria)

1982-84 Austrian delegate to and consultant of OECD Paris, program social indicators

1971-82 assistant professor for sociology at the Institute for Advanced Studies, Vienna  
 1969-71 research assistant at the Institute for Sociology, University of Vienna

*teaching positions*

2003 visiting professor at the University Federal de Rio de Janeiro, Brasil  
 2002 visiting professor at the Faculty for Forestry and the Environment, Yale University, USA  
 1997 visiting professor at Roskilde University, Denmark  
 1996 visiting fellow at Griffith University, Australia  
 1992 - cont. lecturer for social ecology and environmental sociology at the University of Vienna  
 1992 guest lecturer at the Institute for Global Governance, London School of Economics  
 1990-96 organizer of university training for environmental counseling  
 1987-91 lecturer for gender relations at the Universities of Klagenfurt, Vienna and Innsbruck  
 1986 - cont. graduate and postgraduate courses on society and environment at the IFF  
 1971-82 lecturer in postgraduate education at the Institute for Advanced Studies, Vienna (focus: educational sociology, social inequality, social change, social indicators)  
 1970-78 lecturer at the academy of social work, Vienna, for sociology and social psychology

*management positions*

2004 - cont. director of the Institute of Social Ecology at the Faculty for Interdisciplinary Studies (IFF) of Klagenfurt University in Vienna  
 2000-03 director of the Institute for Interdisciplinary Studies of Austrian Universities (IFF), Vienna node  
 1994-00 chair of Greenpeace Austria and member of governing board of Greenpeace International  
 1990-94 director of the Institute for Interdisciplinary Studies of Austrian Universities (IFF)  
 1987-90 vice director of the Institute for Interdisciplinary Studies of Austrian Universities (IFF)  
 1979-82 head of department of sociology at the Institute for Advanced Studies (IHS)

*current memberships and professional activities*

- vice president of the ESEE (European Society of Ecological Economics)
- chair of scientific advisory board of the Potsdam Institute on Climate Impact Research (PIK)
- member of the Austrian Academy of Sciences board to oversee IIASA, Laxenburg
- member of scientific board of ARTEC research center for sustainability, University of Bremen
- member of Deutsche Bundesstiftung Umwelt (DBU)
- panel member since 2007 of the ERC Starting Grant, Brussels
- president (2007-2009) and founding member of the „International Society for Industrial Ecology“ (ISIE)
- member of the “International Panel on the Sustainable Use of Natural Resources” of UNEP (2007 onwards)
- member of editorial board of the “Journal of Industrial Ecology”
- member of scientific advisory board of the Center for Environmental Systems Research (CESR) at Kassel University
- member of the editorial board of “GAIA - Ecological Perspectives in Science, Humanities, and Economics”
- member of the editorial board of „Jahrbuch für Ökologie“
- member of scientific advisory board of “Management of Protected Areas”, a Master of Science Program at the University of Klagenfurt

- member of the Austrian National Committee of UNESCO's „Man and Biosphere Program“ (MAB)
- member of advisory board for the 8<sup>th</sup> International Conference on EcoBalance, Tokyo 2008
- member of the Society for Ecological Economics
- member of the International Society for Sociology (ISA), the Research Committee for Environmental Sociology (RC 24), the European and the Austrian Society for Sociology
- member of the Austrian Statistical Society
- delegate for Klagenfurt University at the Austrian National Science Fund (FWF)

*past professional record (selection)*

- member of the NSF-panel on Sociological Perspectives on Global Climate Change (US National Academy of Sciences) (2007)
- member of the evaluation committee of Chalmers University's environmental initiative (2005)
- president to the Gordon Research Conference on Industrial Ecology 2004, and vice president to the Gordon Research Conference on Industrial Ecology 2002
- referee for the „Swiss National Science Foundation (SNSF) -Sustainable Development and Environment“ in 2004
- chair of board of the scientific program „Sozialökologische Forschung“ of the German Federal Ministry of Science 1999 - 2003
- member of scientific steering committee of the „International Human Dimensions Program - Industrial Transformation“ (IHDP – IT), 1998-2006
- founder and long time editor of the journal „Österreichische Zeitschrift für Soziologie“
- member of editorial board of the journal „Population and Environment“
- member of „Fachbeirat Kulturlandschaftsforschung“ of the Austrian Ministry of Science
- member of „Zukunftskommission“ of the Friedrich-Ebert Foundation, Bonn
- member of the committee for Austria's state award for “ecosystems science“
- member of the committee for Austria's state award for Ecodesign
- member of the scientific committee for „Sustainable Consumption“ of the Austrian ministry of Environment
- member of advisory board of the department for „Arbeit und Ökologie“ at Hans Böckler Stiftung, Düsseldorf.
- member of the Working Group for the Assessment of Sustainability Indicators, a project of the „Scientific Committee on Problems of the Environment“ (SCOPE)
- member of board of „Research Committee 24“ of the „International Sociological Association: Environment and Society“ (ISA – RC 24)

*books and edited volumes (selection)*

- Fischer-Kowalski, Marina and Haberl, Helmut (2007): *Socioecological transitions and global change: Trajectories of Social Metabolism and Land Use*. Cheltenham, UK, Northampton, USA: Edward Elgar
- Fischer-Kowalski, Marina, Rosa, Eugene A., Siefert, Rolf P. and Smetschka, Barbara (eds.) (2001): *Nature, Society and History. Long Term Dynamics of Social Metabolism. Special Issue of Innovation - The European Journal of Social Sciences. Vol. 14, Issue 2*. Vienna: ICCR
- Fischer-Kowalski, Marina and Amann, Christof (eds.) (2001): *Societal Metabolism and Human Population. Special Issue of Population and Environment. A Journal of Interdisciplinary Studies. Vol.23, Issue 1*. Norwell, MA: Kluwer

- Matthews, Emily, Amann, Christof, Fischer-Kowalski, Marina, Bringezu, Stefan, Hüttler, Walter, Kleijn, René, Moriguchi, Yuichi, Ottke, Christian, Rodenburg, Eric, Rogich, Don, Schandl, Heinz, Schütz, Helmut, van der Voet, Ester, and Weisz, Helga (2000): *The Weight of Nations: Material Outflows from Industrial Economies*. Washington, D.C.: World Resources Institute (Material Outflows from Industrial Economics);
- Fischer-Kowalski, Marina, Haberl, Helmut, Hüttler, Walter, Payer, Harald, Schandl, Heinz, Winiwarter, Verena, and Zangerl-Weisz, Helga (1997): *Gesellschaftlicher Stoffwechsel und Kolonisierung von Natur. Ein Versuch in Sozialer Ökologie*. Amsterdam: Gordon & Breach Fakultas
- Fischer-Kowalski, Marina, Preuß-Lausitz, Ulf, Büchner, Peter, Geulen, Dieter, Karsten, Maria-Eleonora, Kulke, Christine, Rabe-Kleberg, Ursula, Thunemeyer, Bernd, Schütze, Yvonne, Seidl, Peter, Zeiher, Helga, Zimmermann, Peter, and Rolff, Hans-Günter (1995): *Kriegskinder, Konsumkinder, Krisenkinder*. Weinheim, Basel: Beltz
- Fischer-Kowalski, Marina, Pelikan, Jürgen M., and Schandl, Heinz (1995): Große Freiheit für kleine Monster? Kinder an Alternativschulen und Regelschulen. Ein Vergleich. Wien: Verlag für Gesellschaftskritik
- Fischer-Kowalski, Marina (1993): Current Trends in European Sociology. II: Environmental Sociology. Special Issue of Innovation in Social Science Research 6(4)
- Fischer-Kowalski, Marina, Fitzka-Puchberger, Roswitha, and Mende, J.(eds.) (1991): *Kindergruppenkinder. Selbstorganisierte Alternativen zum Kindergarten*. Wien: Verlag für Gesellschaftskritik
- Fischer-Kowalski, Marina (ed) (1988): *Ökobilanz Österreich. Zustand, Entwicklungen, Strategien*. Wien u.Köln (Falter Verlag & Kiepenheuer und Witsch)
- Fischer-Kowalski, Marina and Seidl, P. (1986): *Von den Tugenden der Weiblichkeit. Mädchen und Frauen im österreichischen Bildungssystem*. Wien: Verlag für Gesellschaftskritik
- Fischer-Kowalski, Marina and Bucek, Josef (eds.) (1980): *Ungleichheit in Österreich. Ein Sozialbericht*. Wien, München: Jugend & Volk
- Fischer-Kowalski, Marina and Bucek, Josef (eds.) (1980): *Lebensverhältnisse in Österreich. Klassen und Schichten im Sozialstaat*. Frankfurt a.M.: Campus

*recent contributions to journals (selection)*

- Erb, Karl-Heinz, Krausmann, Fridolin, Gaube, Veronika, Gingrich, Simone, Bondeau, Alberte, Fischer-Kowalski, Marina, and Haberl, Helmut (2009): Analyzing the global human appropriation of net primary production – processes, trajectories, implications. An introduction. In: *Ecological Economics* vol.69(2), pp 250-258
- Fischer-Kowalski, Marina and Sieferle, Rolf P. (2009): 12 Fragen an... Marina Fischer-Kowalski. In: *GAIA* 18(3), pp. 190-191.
- Fischer-Kowalski, Marina and Rotmans, Jan (2009): Conceptualizing, Observing and Influencing Social-Ecological Transitions. In: *Ecology and Society* 14(2)3. [online] <http://www.ecologyandsociety.org/vol4/iss2/art3>.
- Fischer-Kowalski, Marina (2009): Den Zusammenbruch von Zivilisationen konzeptualisieren? Plädoyer für eine sozialökologische Gesellschaftstheorie. In: *GAIA* 18(1), pp. 13-14.
- Fischer-Kowalski, Marina, Singh, Simron J., Ringhofer, Lisa, Grünbühel, Clemens M., Lauk, Christian, and Remesch, Alexander (2009): Socio-metabolic transitions in indigenous communities and the crucial role of working time. A comparison of case studies. In: *Human Ecology* submitted
- Haberl, Helmut, Fischer-Kowalski, Marina, Krausmann, Fridolin, Martinez-Alier, Joan, and Winiwarter, Verena (2009): A sociometabolic transition towards sustainability? Challenges for another Great Transformation. In: *Sustainable Development* doi 10.1002/sd.410 in press
- Krausmann, Fridolin, Gingrich, Simone, Eisenmenger, Nina, Erb, Karl-Heinz, Haberl, Helmut, and Fischer-Kowalski, Marina (2009): Growth in global materials use, GDP and population during the 20th century. In: *Ecological Economics* 68(10), pp. 2696-2705.

- Fischer-Kowalski, Marina (2008): Book Review: Energy in Nature and Society: General Energetics of Complex Systems. Vaclav Smil, MIT Press, Cambridge. In: *Regional Environmental Change* 8(4), pp. 57-58.
- Haberl, Helmut, Weisz, Helga, Amann, Christof, Bondeau, Alberte, Eisenmenger, Nina, Erb, Karl-Heinz, Fischer-Kowalski, Marina, and Krausmann, Fridolin (2008): The Energetic Metabolism of the European Union and the United States: Decadal Energy Input Time-Series with an Emphasis on Biomass. In: *Journal of Industrial Ecology* 10(4), pp. 151-171.
- Krausmann, Fridolin, Fischer-Kowalski, Marina, Schandl, Heinz, and Eisenmenger, Nina (2008): The global socio-metabolic transition: past and present metabolic profiles and their future trajectories. In: *Journal of Industrial Ecology* 12(5/6), pp. 637-656.
- Schandl, Heinz, Fischer-Kowalski, Marina, Grünbühel, Clemens M., and Krausmann, Fridolin (2008): Socio-metabolic transitions in developing Asia. In: *Technological Forecasting and Social Change* 76(2), pp. 267-281. [online], <http://dx.doi.org/10.1016/j.techfore.2007.12.004>
- Haberl, Helmut, Erb, Karl-Heinz, Krausmann, Fridolin, Gaube, Veronika, Bondeau, Alberte, Plutzer, Christof, Gingrich, Simone, Lucht, Wolfgang, and Fischer-Kowalski, Marina (2007): Quantifying and mapping the human appropriation of net primary production in earth's terrestrial ecosystems. In: *Proceedings of the National Academy of Sciences of the United States of America* 104, pp. 12942-12947.
- Fischer-Kowalski, Marina, Gaube, Veronika, and Rainer, Gerhard (2006): MEFASPACE: A Model Predicting Freight Transport from Material Flows, and Transport Activity in Europe. In: *Journal of Industrial Ecology* 10(4), pp. 15-35.
- Fischer-Kowalski, Marina and Erb, Karl-Heinz (2006): Epistemologische und konzeptuelle Grundlagen der Sozialen Ökologie. In: *Mitteilungen der Österreichischen Geographischen Gesellschaft* 148, pp. 33-56.
- Haberl, Helmut, Weisz, Helga, Amann, Christof, Bondeau, Alberte, Eisenmenger, Nina, Erb, Karl-Heinz, Fischer-Kowalski, Marina, and Krausmann, Fridolin (2006): The energetic metabolism of the EU-15 and the USA. Decadal energy input time-series with an emphasis on biomass. In: *Journal of Industrial Ecology* 10(4), pp. 151-171.
- Haberl, Helmut, Winiwarter, Verena, Andersson, Krister, Ayres, Robert U., Boone, Christopher G., Castillio, Alicia, Cunfer, Geoff, Fischer-Kowalski, Marina, Freudenburg, William R., Furman, Eeva, Kaufmann, Rüdiger, Krausmann, Fridolin, Langthaler, Ernst, Lotze-Campen, Hermann, Mirtl, Michael, Redman, Charles A., Reenberg, Anette, Wardell, Andrew D., Warr, Benjamin, and Zechmeister, Harald (2006): From LTER to LTSER: Conceptualizing the socio-economic dimension of long-term socio-ecological research. In: *Ecology and Society* 11(2), pp. 13 [online], <http://www.ecologyandsociety.org/vol11/iss2/art13/>
- Weisz, Helga, Krausmann, Fridolin, Amann, Christof, Eisenmenger, Nina, Erb, Karl-Heinz, Hubacek, Klaus, and Fischer-Kowalski, Marina (2006): The physical economy of the European Union: Cross-country comparison and determinants of material consumption. In: *Ecological Economics* 58(4), pp. 676-698.
- Fischer-Kowalski, Marina and Krausmann, Fridolin (2005): A socio-ecological view on industrialization in Europe since the 19th Century. In: *IHDP Update. Newsletter of the International Human Dimensions Programme on Global Environmental Change* 2005(02), pp. 6-8.
- Fischer-Kowalski, Marina, Krausmann, Fridolin, and Smetschka, Barbara (2004): Modelling scenarios of transport across history from a socio-metabolic perspective. In: *Review. A Journal of the Fernand Braudel Center for the Study of Economic, Historical Systems, and Civilizations* 4/2004, pp. 307-342.
- Haberl, Helmut, Fischer-Kowalski, Marina, Krausmann, Fridolin, Weisz, Helga, and Winiwarter, Verena (2004): Progress Towards Sustainability? What the conceptual framework of material and energy flow accounting (MEFA) can offer. In: *Land Use Policy* 21(3), pp. 199-213.
- Fischer-Kowalski, Marina (2003): Gesellschaftlicher Metabolismus, Territorium und Nachhaltigkeit. In: *GAIA* 12(1), pp. 1-2.
- Fischer-Kowalski, Marina and Amann, Christof (2001): Beyond IPAT and Kuznets Curves: Globalization as a Vital Factor in Analysing the Environmental Impact of Socio-Economic Metabolism. In: *Population and Environment* 23(1), pp. 7-47.

- Weisz, Helga, Fischer-Kowalski, Marina, Grünbühel, Clemens M., Haberl, Helmut, Krausmann, Fridolin, and Winiwarter, Verena (2001): Global Environmental Change and Historical Transitions. In: Innovation - The European Journal of Social Sciences 14(2), pp. 117-142.
- Fischer-Kowalski, Marina and Hüttler, Walter (1999): Society's Metabolism. The Intellectual History of Material Flow Analysis, Part II: 1970-1998. In: Journal of Industrial Ecology 2(4), pp. 107-137.
- Fischer-Kowalski, Marina and Weisz, Helga (1999): Society as Hybrid Between Material and Symbolic Realms. Toward a Theoretical Framework of Society-Nature Interrelation. In: Advances in Human Ecology 8, pp. 215-251.
- Fischer-Kowalski, Marina and Haberl, Helmut (1998): Sustainable Development: Socio-Economic Metabolism and Colonization of Nature. In: International Social Science Journal 158(4), pp. 573-587.
- Fischer-Kowalski, Marina (1998): Society's Metabolism. The Intellectual History of Material Flow Analysis, Part I, 1860 - 1970. In: Journal of Industrial Ecology 2(1), pp. 61-78.
- Fischer-Kowalski, Marina and Haberl, Helmut (1997): Tons, Joules and Money: Modes of Production and their Sustainability Problems. In: Society and Natural Resources 10(1), pp. 61-85.

*recent contributions to books (selection)*

- Krausmann, Fridolin, Fischer-Kowalski, Marina, and Schandl, Heinz (2009): Out of the frying pan into the fire: Industrialization as a socio-ecological transition process. In: McNeill, John R. et al. (Eds.): Environmental History and Ecological Economics. Delhi: Oxford University Press (in press).
- Singh, Simron J., Fischer-Kowalski, Marina, and Haas, Willi (2009): Humanitarian aid and ecological consequences. Re-examining Disaster, Recovery and Reconstruction: Social Science Perspective on the Tsunami. In: Reddy, Sunita and Naraindas, Harish (Eds.): Re-examining Disaster, Recovery and Reconstruction: Social Science Perspectives on the Tsunami. Delhi: Oxford University Press (in press).
- Fischer-Kowalski, Marina and Schaffartzik, Anke (2008): Arbeit, gesellschaftlicher Stoffwechsel und nachhaltige Entwicklung. In: Füllsack, Manfred (Ed.): Verwerfungen moderner Arbeit. Zum Formwandel des Produktiven. Bielefeld: transcript, pp. 65-82.
- Fischer-Kowalski, Marina and Weisz, Helga (2008): Das industrielle sozialökologische Regime und globale Transitionen. In: Gleich, Arnim v. and Gößling-Reisemann, Stefan (Eds.): Industrial Ecology: Erfolgreiche Wege zu nachhaltigen industriellen Systemen. Wiesbaden: Vieweg+Teubner Verlag, pp. 181-201.
- Fischer-Kowalski, Marina, Erb, Karl-Heinz, and Singh, Simron J. (2008): Extending BRIM to BRIA: Social monitoring and integrated sustainability assessment. In: Chmielewski, Tadeusz (Ed.): Nature conservation management: From idea to practical results. Lublin: PWZN "Print 6", pp. 208-219.
- Marina Fischer-Kowalski. Wie kann Wissenschaft gesellschaftliche Veränderung bewirken? Eine Hommage an Alvin Gouldner, und ein Versuch, mit seinen Mitteln heutige Klimapolitik zu verstehen. Social Ecology Working Paper. Anonymous. Anonymous. Vienna: IFF Social Ecology. (102), 2008. ISSN 1726-3808. HW Nr. 931. 04-23-2008. 2008.08. iff-nl08-1, nl18.
- Fischer-Kowalski, Marina and Schaffartzik, Anke (2008): Ökologisierung der Arbeit? Arbeit, gesellschaftlicher Stoffwechsel und nachhaltige Entwicklung. In: Washietl, Engelbert and Pfisterer, Eva (Eds.): Arbeit - der Mensch zwischen Fremd- und Selbstbestimmung. Wien: LIT Verlag, Schriftenreihe der Waldviertelakademie, pp. 131-145.
- Fischer-Kowalski, Marina (2008): Sozialmetabolische Regimes und industrielle Transformationen. In: Bundesministerium für Umwelt, Naturschutz u. R. (Ed.): Die dritte industrielle Revolution - Aufbruch in ein ökologisches Jahrhundert. BM für Umwelt, Naturschutz und Reaktorsicherheit, pp. 53-55.
- Fischer-Kowalski, Marina and Mayer, Andreas (2008): Umwelt und Ökologie. In: Forster, Rudolf (Ed.): Forschungs- und Anwendungsbereiche der Soziologie. Wien: Facultas Verlag, pp. 266-281.

- Weisz, Helga, Krausmann, Fridolin, Amann, Christof, Eisenmenger, Nina, Erb, Karl-Heinz, Hubacek, Klaus, and Fischer-Kowalski, Marina (2008): The physical economy of the European Union: cross-country comparison and determinants of material consumption, *Ecological Economics* 58, 676-98. In: Martinez-Alier, Joan and Roepke, Inge (Eds.): *Recent Developments in Ecological Economics, Volume I*. Cheltenham, UK and Northampton, MA, USA: Edward ElgarBd. 58, pp. 300-322.
- Eisenmenger, Nina, Fischer-Kowalski, Marina, and Weisz, Helga (2007): Indicators of Natural Resource Use and Consumption. In: Hak, Tomas et al. (Eds.): *Sustainability Indicators. A Scientific Assessment*. Washington, D.C.: SCOPE, Island Press, pp. 193-209.
- Fischer-Kowalski, Marina, Haberl, Helmut, and Krausmann, Fridolin (2007): Conclusions: Likely and unlikely pasts, possible and impossible futures. In: Fischer-Kowalski, Marina and Haberl, Helmut (Eds.): *Socioecological transitions and global change: Trajectories of Social Metabolism and Land Use*. Cheltenham, UK, Northampton, USA: Edward ElgarBd. 8, pp. 223-256.
- Fischer-Kowalski, Marina (2007): Multidisziplinäre Wurzeln der Industrial Ecology. In: Isenmann, Ralf and Hauff, Michael v. (Eds.): *Industrial Ecology. Mit Ökologie zukunftsorientiert wirtschaften*. München: Elsevier, pp. 89-100.
- Fischer-Kowalski, Marina and Haberl, Helmut (2007): Conceptualizing, observing and comparing socioecological transitions. In: Fischer-Kowalski, Marina and Haberl, Helmut (Eds.): *Socioecological transitions and global change: Trajectories of Social Metabolism and Land Use*. Cheltenham, UK, Northampton, USA: Edward ElgarBd. 1, pp. 1-30.
- Grünbühel, Clemens M., Singh, Simron J., and Fischer-Kowalski, Marina (2007): The local base of transitions in developing countries. In: Fischer-Kowalski, Marina and Haberl, Helmut (Eds.): *Socioecological transitions and global change: Trajectories of Social Metabolism and Land Use*. Cheltenham, UK, Northampton, USA: Edward ElgarBd. 6, pp. 139-178.
- Haberl, Helmut, Erb, Karl-Heinz, Plutzer, Christof, Fischer-Kowalski, Marina, and Krausmann, Fridolin (2007): Human appropriation of net primary production (HANPP) as indicator for pressures on biodiversity. In: Hak, Tomas et al. (Eds.): *Sustainability Indicators. A Scientific Assessment*. Washington, D.C., Covelo, London: SCOPE, Island Press, pp. 271-288.
- Haberl, Helmut, Fischer-Kowalski, Marina, Krausmann, Fridolin, Weisz, Helga, and Winiwarter, Verena (2006): Progress Towards Sustainability? What the conceptual framework of material and energy flow accounting (MEFA) can offer. Reprinted from: *Land Use Policy* 21(3), pp. 199-213. In: Pretty, Jules (Ed.): *Sage Environment Major Work. Volume II: Managing the environment*. Essex: SAGEBd. B15
- Fischer-Kowalski, Marina and Reiter, Karl (2005): Biosphere Reserve Integrated Monitoring (BRIM). In: Lange, Sigrun (Ed.): *Inspired by Diversity. UNESCO's Biosphere Reserves as Model Regions for Sustainable Interaction between Man and Nature*. Vienna: Austrian Academy of Sciences Press, pp. 15-18.
- Fischer-Kowalski, Marina and Weisz, Helga (2005): Society as Hybrid Between Material and Symbolic Realms. Toward a Theoretical Framework of Society-Nature Interrelation. In: Redclift, Michael and Woodgate, Graham (eds.) (Eds.): *New developments in environmental sociology*. Cheltenham and Northampton: Edward Elgar, pp. 113-149.
- Fischer-Kowalski, Marina (2004): Gesellschaftliche Kolonisierung natürlicher Systeme. Arbeiten an einem Theorieversuch. In: Serbser, Wolfgang (Ed.): *Humanökologie: Ursprünge - Trends - Zukünfte*. München: ökom, Edition Humanökologie: Band 1, pp. 308-325.
- Fischer-Kowalski, Marina (2003): On the History of Industrial Metabolism. In: Bourg, Dominique and Erkman, Suren (Eds.): *Perspectives on Industrial Ecology*. Sheffield: Greenleaf PublishingBd. 2, pp. 35-45.
- Fischer-Kowalski, Marina (2003): Modes of Colonizing Nature. In: Benzing, Brigitta and Herrmann, Bernd (Eds.): *Exploitation and Overexploitation in Societies Past and Present. IUAES-Intercongress 2001 Goettingen*. Münster: LIT Publishing House, pp. 21-40.
- Fischer-Kowalski, Marina and Erb, Karl-Heinz (2003): Gesellschaftlicher Stoffwechsel im Raum. Auf der Suche nach einem sozialwissenschaftlichen Zugang zur biophysischen Realität. In: Meusburger, Peter and Schwan, Thomas (Eds.): *Humanökologie. Ansätze zur Überwindung der Natur-Kultur-Dichotomie*. Stuttgart: Steiner Verlag, *Erdkundliches Wissen*, pp. 257-285.

- Fischer-Kowalski, Marina (2003): Ecology, Social. In: Krech III, Shepard et al. (Eds.): Encyclopedia of World Environmental History. London-New York: Routledge
- Amann, Christof and Fischer-Kowalski, Marina (2002): Austria: An "Eco-Land"? In: Weidner, Helmut et al. (Eds.): Capacity Building in National Environmental Policy. A Comparative Study of 17 Countries. Berlin-Heidelberg-New York: Springer, pp. 45-68.
- Fischer-Kowalski, Marina (2002): Exploring the history of industrial metabolism. In: Ayres, Robert U. and Ayres, Leslie W. (Eds.): Handbook of Industrial Ecology. Cheltenham, UK and Lyme, US: Edward ElgarBd. 2, pp. 16-26.
- Fischer-Kowalski, Marina (2002): Gesellschaft, Natur und Freiheit. Ein Kommentar aus soziologischer Perspektive. In: Winiwarter, Verena and Wilfing, Harald (Eds.): Historische Humanökologie. Interdisziplinäre Zugänge zu Menschen und ihrer Umwelt. Wien: Facultas, pp. 237-245.
- Fischer-Kowalski, Marina (2002): Herrschaft über die Natur - Befreiung von der Natur? Arbeiten an einem Theorieversuch. In: Brüchert, Oliver and Resch, Christine (Eds.): Zwischen Herrschaft und Befreiung. Politische, kulturelle und wissenschaftliche Strategien. Festschrift zum 60. Geburtstag von Heinz Steinert. Münster: Westfälisches Dampfboot, pp. 123-134.
- Fischer-Kowalski, Marina (2002): Das magische Dreieck von Nachhaltigkeit: Lebensqualität, Wohlstand und ökologische Verträglichkeit. In: Klotz, Arnold (Ed.): Stadt und Nachhaltigkeit. Wien-New York: Springer, pp. 25-41.
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