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education

Habilitation for sociology at Graz University (assessment: J. Habermas, A. Pelinka) (1985)
Postgraduate social science degree at Institute for Advanced Studies, Vienna (1970-1972)
Graduation in sociology, psychology and history of art (PhD, University of Vienna) (1971)

employment

2018 prof.em. and senior researcher in Social Ecology, University of Natural Resources and Life Sciences Vienna
2014 cont. professor emerita, teacher and researcher at Social Ecology Institute, Vienna
2003-14 full professor of Social Ecology at the Alpen Adria University
1986 cont. lecturer for sociology at Vienna University
1986-03 assistant professor, founder and head of department of social ecology at the Institute for Interdisciplinary Studies of Austrian Universities (IFF);
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
1967-71 research assistant at the Institute for Sociology, University of Vienna

Awards

2017 Ehrenring (Ring on Honour) der Alpen-Adria Universität Klagenfurt
2017 Prize of the Society of Industrial Ecology for outstanding contributions to the field
2016 PROSE Award for co-editing the Encyclopedia for the Social and Behavioral Sciences
2016 Austrian Ministry of Science Award for transdisciplinary sustainability research
2015 Austrian State Award for Arts and Sciences, First Class
2012 Honorary Citizen of the Municipality of Samothraki

teaching positions

- Lecturer for environmental sociology at Vienna University (1986 cont.)
- Teaching in the Master Program on Social and Human Ecology, and the doctoral program in Social Ecology, Alpen-Adria University, Vienna (2004 cont.)

- Visiting professor at the University Federal de Rio de Janeiro, Brasil (2003); visiting professor at the Faculty for Forestry and the Environment, Yale University, USA (2002); visiting professor at Roskilde University, Denmark (1997); visiting fellow at Griffith University, Australia (1996); guest lecturer at the Institute for Global Governance, London School of Economics (1992)
- Lecturer in Environmental System Sciences at the University of Graz (1991-1999)
- Organizer of university training for environmental counseling, in collaboration with the Institute of Applied Ecology, Vienna (1990-1996)
- Lecturer for gender relations at the Universities of Klagenfurt, Vienna and Innsbruck (1987-1991)
- Lecturer in postgraduate education at the Institute for Advanced Studies, Vienna (focus: educational sociology, social inequality, social change, social indicators) (1971-1982)
- Lecturer at the Academy of Social Work, Vienna, for sociology and social psychology, and project learning (1970-1978)

leadership and management positions

- President of the International Society for Ecological Economics (ISEE; 2013-2018)
- Vice president of the European Society for Ecological Economics (ESEE; 2011-2013)
- President of the International Society for Industrial Ecology (ISIE; 2007-2009)
- Chair of scientific advisory board of the Potsdam Institute on Climate Impact Research (PIK; 2002-2010)
- Director of the Institute for Interdisciplinary Studies of Austrian Universities (IFF), Vienna node (2000-2003)
- Chair of the program committee for Social-ecological Research of the German Ministry of Science and Education (1999-2003)
- Chair of Greenpeace Austria and member of Governing Board of Greenpeace International (1994-2000)
- Founder and director of the Institute of Social Ecology, Vienna (SEC; 1987-2011)
- Vice director and director of the Institute for Interdisciplinary Studies of Austrian Universities (IFF; 1987-1994)
- Head of department of Sociology at the Institute for Advanced Studies (IHS; 1979-1982)

membership in professional decision making bodies (selection)

- Lead expert in the International Resource Panel (IRP) of the United Nations Environmental Program (UNEP; 2007 cont.)
- Member of the Austrian National Committee of UNESCO's Man and Biosphere Program (MAB) at the Austrian Academy of Sciences (since 2007)
- Member of Austria's IIASA commission at the Academy of Sciences (2008-2014)
- Member of the Jury for the Annual Georgescu-Roegen Award (TERI, India, since 2011)
- Member of Scientific Advisory Board of the ARTEC research center for sustainability, University of Bremen; of the MSc Programme „Management of Protected Areas“ (AAU, Klagenfurt); of the World Resources Forum, Davos; of the Center for Environmental Systems Research (CESR) at Kassel University; of Internationales Institut für Nachhaltigkeitsanalysen und -strategien (IINAS)
- Member of Jury for the ERC Starting Grant SH3, EU Brussels (2007-2012)
- Member of the Senate of the Alpen-Adria University, Klagenfurt (2011-2013)
- Member of the Scientific Advisory Board of the Finnish Environment Institute (SYKE, 2010-2015);
- Member of the Jury of Deutsche Bundesstiftung Umwelt (DBU), 2010-2012
- Member of the committee for Austria's state award for ecosystems science (2004-2007)
- delegate for Klagenfurt University at the Austrian National Science Fund (FWF), 2009-2014
- member of the evaluation committee of Chalmers University's environmental initiative (2005)

- member of scientific steering committee of the „International Human Dimensions Program - Industrial Transformation” (IHDP – IT), 1998-2006

Organization of scientific conferences (selection)

- Member of Scientific Committee of Ecobalance Conferences in Nagoya, 2016 and 2018
- Member of the Scientific Committee for the International Ecological Economics Conference in Mexico, 2018
- Member of the Science Board of the European Ecological Economics Conference in Leeds 2015
- Co-Organizer and Chair of the World Conference in Ecological Economics on “Welfare and Equity within Planetary Boundaries” in Reykjavik (Iceland), August 2014
- Member of scientific committee for the 11th ISIE conference on Socio-economic Metabolism in Melbourne 2014
- Member of the scientific committee of the Gordon Research Conference on Industrial Ecology in Lucca 2014
- Member of Science Board of the Indian Ecological Economics Conference (2013)
- Member of Science Board for the 8th International Conference on Eco-Balance, Tokyo 2008 and 2010, of the Conferences in Nagoya 2016 and 2018
- Co-Organizer and chair of the International Conference “Ester Boserup – A centennial tribute. Long-term trajectories in population, gender relations, land-use and the environment” in Vienna, Nov. 2010
- President of the Gordon Research Conference on Industrial Ecology (2004); vice-president of the Gordon Research Conference on Industrial Ecology (2002)
- Co-organization of annual conferences “ConAccount” with the Wuppertal Institute, the University of Leiden, and the Swedish Statistical Office, in Wuppertal, Stockholm, Leiden and Vienna (2003-2008)
- Organizer of the International Conference on “Nature, Society and History. Long-term dynamics of social metabolism” in Vienna, 1999

Editorial roles in Scientific Journals (selection)

- Associate editor of The Anthropocene Review (SAGE; 2013 cont.)
- Member of the editorial board of Ecology, Economy and Society – Journal of the Indian Society of Ecological Economics
- Member of the editorial board of the Eco edition within Journal for the Critique of Science, Imagination, and New Anthropology (Univ. of Ljubljana, 2017 cont.)
- Current Member of the editorial advisory board of the journals Natur und Kultur; International Journal of Industrial Ecology (JIE); Environmental Innovation and Societal Transitions; Conservation and Society; GAIA; BioPhysical Economics and Resource Quality (BERQ),
- Co-Founder and long-time editor of the Österreichische Zeitschrift für Soziologie (1976-1986)
- Co-Founder and co-editor of the journal Aufrisse (1969-1985)

reviewing / referee functions (selection)

- Agricultural Science Research Journal
- Ambio - A Journal of the Human Environment
- Anthropocene Review
- Conservation and Society
- DBU Preis der Deutschen Bundesstiftung Umwelt
- Ecology and Society
- Ecological Economics
- Ecological Informatics
- Ecological Modelling
- Eco.mont- Journal on Protected Mountain Areas Research and Management

- Energy Policy
- Environmental Indicators
- Environmental Innovation and Societal Transitions
- Environmental Modelling & Software
- Environmental Policy and Governance
- Environmental Science & Technology
- ERC – European Starting Grant
- ERC – European Advanced Grant
- European Report on Development 2011-2012
- GAIA
- Humboldt Stiftung
- Journal for Global Environment Change
- Journal of Agriculture and Biological Sciences
- Journal of Cleaner Production
- Journal of Environmental Management
- Journal of Environmental Science and Technology
- Journal of Industrial Ecology
- Jubiläumsfonds der Österreichischen Nationalbank
- McArthur Fellows Program
- Nature + Culture
- Nature Climate Change
- Nature Behaviour
- Organization and Environment
- Proceedings of the National Academy of Sciences (PNAS)
- Regional Environmental Change
- Schweizer Nationalfonds
- Science
- Theory, Culture & Society
- UNEP, GEO5

supervision of dissertations

ongoing dissertations

Dominik Noll (Universität Klagenfurt / Soziale Ökologie)
 „The Livestock System in a sustainable socioecological metabolism. The case of Samothraki, Greece”

Christelle Beyers (Stellenbosch University)
 “A Material Flow Analysis of South Africa.” Supervision with Prof. Mark Swilling.

2018

Tilman Hartley (University Bristol / Political Science; PhD)
 “Energy and ownership. An evolutionary analysis of the relationship between ownership institutions and energy transitions.” External reviewer and examiner.

2017

Panagiotis Petridis (Universität Klagenfurt / Soziale Ökologie)
 "Sustainable Samothraki – A socio-ecological approach."

2015

Nicolas Lancesseur (Université Sorbonne 1, Économie)

„Macroeconomic scenarios for employment in the socio-ecological Transition“

Armin Dieter (Wirtschaftsuniversität Wien, Ecological Economics)

„A broader perspective on the European Raw Materials Initiative“. Supervision with Prof. Sigrid Stagl.

Willi Haas (Universität Klagenfurt / Soziale Ökologie)

„Societies' systemic dynamics: While sustaining themselves from Nature they jeopardize it.“

Walter Reinhardt (Australian National University, Canberra / PhD Industrial Ecology)

„Knowing more, using less: The prospects for household-led change in energy and water systems.“
Supervision with Prof. Dr. Heinz Schandl

Ulli Weisz (Universität Klagenfurt / Soziale Ökologie)

„Das nachhaltige Krankenhaus – sozialökologisch und transdisziplinär erforscht“. Supervision with
Assoz. Prof. Dr. Katharina Heimerl

Anke Schaffartzik (Universität Klagenfurt / Soziale Ökologie)

„Socio-metabolic trade patterns: An investigation of concepts and methods.“

2014

Hailemariam Andarge Birke (Universität Klagenfurt / Soziale Ökologie)

"Toward Sustainable Land Management in Highland Ethiopia: Analysis of Problems, Local Responses, Options for Intervention, and Sustainability - A Case Study of Bashkurit Watershed"
Supervision with Willi Haas

2011

Arno Behrens (Universität Klagenfurt / Soziale Ökologie)

"Restructuring the Socioeconomic Metabolism - A Policy Oriented Approach to Dematerialization and Decarbonisation". Co-Supervision with Univ.Prof. Dr. Sigrid Stagl

Kalpana Devkota (Universität Klagenfurt / Human- und Sozialökologie)

"Performance of Community Forestry Governance: Three Case Studies from Western Nepal"
Co-Supervision with Ao. Univ.Prof. Dr. Stefan Vogel, Simron J.Singh, PhD

2009

Venkat Ramanujam Ramani (Universität Klagenfurt / Human- und Sozialökologie)

"Institutional Analysis of the Sustainability of the Post-Tsunami Nicobar Islands"
Co-Supervision with PhD. Simron Jit Singh

2008

Nina Eisenmenger (Universität Klagenfurt / Soziale Ökologie)

"A biophysical reading of international trade"

2007

Lisa Ringhofer (Universität Wien / Soziologie)

"The Tsimané in their Environment: A socio-ecological analysis of the environmental relations of an indigenous community in the Bolivian Amazon". Co-Supervision with Univ.-Ass. Dr. Heinz Schandl

2005

Michael Katzmayer (Universität Wien / Soziologie)

"Die Siedlungswasserwirtschaft unter Wettbewerbsdruck: Nachhaltigkeit, Demokratie und die Neuregulierung des Öffentlichen"

2004

Clemens Mayrhofer-Grünbühel (Universität Wien / Kultur- und Sozialanthropologie)

"Resource Use Systems and Rural Smallholders. An Analysis of Two Lao Communities"

Co-Supervision with Univ.-Prof. Dr. Andre Gingrich

2003

Simron Jit Singh (Lund University / Human Ecology)

"Cultural, Material and Energetic Transitions in the Nicobar Islands: Empirical Research in Society –Nature Interactions". Co-Supervision with Prof. Pernille Gooch

Stefan Giljum (Universität Wien / Internationale Entwicklung)

"Biophysical dimension of North-South trade: material flows and land use". Co-Supervision with Univ.Prof. Dr. Harald Wilfing

Niels Schulz (Universität Wien / Humanökologie)

"Die industrielle Transformation des gesellschaftlichen Stoffwechsels: Materialflüsse, Energieflüsse und Transport im Vereinigten Königreich von Großbritannien und Nordirland"
Co-Supervision with Univ.-Prof. Dr. Harald Wilfing

2001

Helga Weisz (Humboldt Universität, Berlin / Kulturwissenschaft)

"Gesellschaft-Natur Koevolution: Bedingungen der Möglichkeit nachhaltiger Entwicklung". Co-Supervision with Univ.-Prof. Dr. Thomas Macho

Lyla Roberta Rastl (Universität Wien / Sozialgeschichte)

"Küche und Kochen. Zur geschlechtsspezifischen Aneignung eines Alltagsortes in Wien seit den 1950er Jahren". Co-Supervision with Ao.Univ.-Prof. Dr. Reinhard Sieder

Dieter Pesendorfer (Universität Salzburg / Politikwissenschaft)

"Integrierte Stoff- und Ressourcenpolitik. Beitrag und Grenzen von Material Flow Analyses zu einem Imputorientierten Ansatz. Fallstudien aus Österreich und der Schweiz." Co-Supervision with Univ.-Prof. Dr. Volkmar Lauber

Fridolin Krausmann (Universität Wien / Ökologie)

"Landnutzung, Energie und industrielle Modernisierung. Eine empirische Untersuchung der Entwicklung des gesellschaftlichen Energiesystems im Zusammenhang mit Landnutzung und anthropogenen Eingriffen in den Energiefluss von Ökosystemen (NPP-Aneignung) in Österreich 1830 - 1995". Co-Supervision with Univ.-Prof. Dr. Harald Wilfing.

Juliana Lutz (Universität Wien / Soziologie)

"Die Interaktion von Gesellschaft und Natur in Theorie und Diskurs der Sozialwissenschaften - Grundlagen des interdisziplinären Wissenschaftsfeldes Soziale Ökologie". Co-Supervision with Univ.-Prof. Dr. Jürgen Pelikan

Heinz Schandl (Universität Wien / Soziologie)

"Zur politischen Ökonomie der industriellen Transformation. Arbeit, gesellschaftlicher Stoffwechsel und sozioökonomische Entwicklung". Co-Supervision with Univ.-Prof. Dr. Jürgen Pelikan

1998

Lyla Mehta (University of Sussex / Development Studies)

"Context of Scarcity: The Political Ecology of Water in Kutch, India". Co-Supervision with Prof. Melissa Leach

Irmgard Netzer (Universität Wien / Soziologie)

"Die Beziehung adoleszenter Töchter zu ihren Müttern. Eine feministische Analyse interaktiver Prozesse im Kontext des Geschlechterverhältnisses."

BIBLIOGRAPHY

Books (co-authored and/or co-edited)

- Haberl, H., Fischer-Kowalski, M., Krausmann, F., Winiwarter, V. (Eds.), 2016. *Social Ecology. Society-Nature Relations across Time and Space*. Springer, Cham.
- International Resource Panel, 2016. *Global material flows and resource productivity*. Authors: Schandl H., Fischer-Kowalski, M., West, J., Giljum, S., Dittrich, M., Eisenmenger, N., Geschke, A., Lieber, M., Wieland, H.P., Schaffartzik, A., Krausmann, F., Gierlinger, S., Hosking, K., Lenzen, M., Tanikawa, H., Miatto, A., Fishman, T. *UNEP, Paris*
- Fischer-Kowalski, M., Eisenmenger N. and Dittrich, M. (2015) United Nations Environment Program, *International Trade in Resources – A Biophysical Assessment. A report of the International Resource Panel*, Nairobi (UNEP)
- Fischer-Kowalski, M., H. Rau and K. Zimmerer (eds.) (2015) *International Encyclopedia of the Social and Behavioural Sciences, Area 9/1e - Ecological and Environmental Sciences*. Oxford: Elsevier.
- Fischer-Kowalski, M., Reenberg, A., Schaffartzik, A. and Mayer, A. (eds.) (2014) *Ester Boserup's Legacy on Sustainability - Orientations for Contemporary Research*, Dordrecht, Heidelberg, New York, London: Springer.
- Fischer-Kowalski, Marina, Swilling, Mark, Weizsäcker, Ernst U. v., Ren, Yong, Moriguchi, Yuichi, Crane, Wendy, Krausmann, Fridolin, Eisenmenger, Nina, Giljum, Stefan, Hennicke, Peter, Kemp, Rene, Romero Lankao, Paty, and Siriban-Manalang, Anna B. (2011): *Decoupling natural resource use and environmental impacts from economic growth*. Nairobi: United Nations Environment Programme
- 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 and Amann, Christof (eds.) (2001): *Societal Metabolism and Human Population*. Special Issue of *Population and Environment*. Vol.23, Issue 1. Norwell, MA: Kluwer
- 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
- 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
- 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 (5.Aufl.)
- Fischer-Kowalski, Marina, Pelikan, Johanna, and Schandl, Heinz (1995): *Große Freiheit für kleine Monster? Kinder an Alternativschulen und Regelschulen. Ein Vergleich*. Wien: Verlag für Gesellschaftskritik
- 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, Peter (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

contributions to journals, book chapters

2018

- Fischer-Kowalski, M., Rovenskaya, E., Krausmann, F., Pallua, I., McNeill, J.R. (2018) Energy transitions and social revolutions. *Technological Forecasting and Social Change*, 138, pp 69-77. doi: 10.1016/j.techfore.2018.08.010
- Singh, Simron J., M.Fischer-Kowalski, W.Haas (2018) The Sustainability of Humanitarian Aid. The Nicobar Islands as a case of 'complex disaster'. In: Reddy, Sunita (ed.), *The Asian Tsunami and Post-Disaster Aid*. Singapore (Springer Nature), pp 143-165. 978-981-13-0181-0, 431332_1_En, (8)
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- Irwin, Elena G., Patricia J.Culligan, Marina Fischer-Kowalski, Kara Lavender Law, Raghu Murtugudde, Stefanie Pфирman (2018). Bridging barriers to advance global sustainability. *Comment. Nature Sustainability* | VOL 1 | JULY 2018 | 324–326 | www.nature.com/natsustain
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2017

- Fischer-Kowalski, M., 2017. Review of Christian Fleck (2015), *Sociology in Austria since 1945*. Basingstock: Palgrave Pivot, 112 p. In: *Österr. Zeitschrift für Soziologie*, 42(4), 433-437. Doi: 10.1007/s11614-017-0280-8
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- International Resource Panel, 2017. *Resource Efficiency: Potential and Economic Implications*. Lead authors: Paul Ekins and Nick Hughes; contributing authors: Stefan Bringezu, Charles Arden Clarke, Marina Fischer-Kowalski, Thomas Graedel, Maarten Hajer, Seiji Hashimoto, Steve Hatfield-Dodds, Petr Havlik, Edgar Hertwich, John Ingram, Katja Kruit, Ben Milligan, Yuichi Moriguchi, Nabil Nasr, David Newth, Michael Obersteiner, Anu Ramaswami, Heinz Schandl, Sangwon Suh, Mark Swilling, Ester van der Voet, Brian Walsh, Jim West and Henk Westhoek. UN Environment Programme. Full Report (330 pp) and Summary for Policy Makers 73 pp.
- Krausmann, F. and M. Fischer-Kowalski, 2017. Transitions socio-métaboliques globales. In: Gilles A. and B. Daviron (eds.). *Transformations agricoles et agroalimentaires. Entre écologie et capitalisme*. Éditions Quæ, pp. 23 - 40.

- Fischer-Kowalski, M. and Steinberger, J.K., 2017. Growth and sustainability in a material world: the self-reinforcing cycle of population, GDP and resource use. In: Victor, P.A. and B.Dolter (eds.), *Handbook on Growth and Sustainability*, Cheltenham: Elgar, pp.372-393
- Schaffartzik, A. and Fischer-Kowalski, M., 2017. Book Review of *Fossil Capital: The Rise of Steam Power and the Roots of Global Warming*, by Andreas Malm. Brooklyn, NY, USA: Verso Books, 2016, 496 pp., ISBN 9781784781293. *Journal of Industrial Ecology* DOI: 10.1111/jiec.12558
- 2016
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- Petridis, P., Fischer-Kowalski, M., 2016. Island Sustainability: The Case of Samothraki, in: Haberl, H., Fischer-Kowalski, M., Krausmann, F., Winiwarter, V. (Eds.), *Social Ecology. Society-Nature Relations across Time and Space*. Springer, Cham, pp. 543–554.
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- Schaffartzik, A., Wiedenhofer D., Fischer-Kowalski, M., 2016. More Productive, less Sustainable? On the Need to Consider Material Resource Flows. *Intereconomics* vol. 51 no 4, pp. 200-204.
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2015

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