



Table of Contents

A SECTION

FEATURE

55A Econo

Economic dimensions of soil health practices that sequester carbon: Promising research directions Roderick M. Rejesus, Serkan Aglasan, Lynn G. Knight, Michel A. Cavigelli, Curtis J. Dell, Erin D. Lane, and David Y. Hollinger

VIEWPOINT

61A

Negative emission farming Rattan Lal

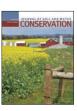
A SECTION Call for Papers

Are you working on cutting edge research in soil and water conservation? Does your work involve new tools, technologies, or materials that others should be aware of? Have you observed or been a part of conservation practices that are worth sharing with the journal audience?

If you answered "Yes" to any of these questions, you are invited to submit your article ideas for the A Section of the *Journal of Soil and Water Conservation*.

Your work could be published in one of the A Section topic areas: Conservation in Practice, Viewpoint, Ideas & Innovations, Conservation in Action, In the News, Feature, etc.

To submit your article ideas or for more information, contact editor Annie Binder at annie.binder@swcs.org



On the Cover Canola surrounds a farmstead, Clinton County, Pennsylvania. Photo by Lisa Blazure.



RESEARCH SECTION

Relationship between soil organic carbon density and topography in three-dimensional space in a small watershed of loess hilly region in China

J. Yang, M. Liu, P. Li, J. Wang, and M. Liu

- Experimental detection of the volume of the drip irrigation soil wetted body using Ground Penetrating Radar R. Wang, P. Gao, E. Zhou, Y. Li, and G. Zhao
- What drives landowners' conservation decisions? Evidence from Iowa W.P.M. Sawadgo, W. Zhang, and A. Plastina
- Hedgerow ridge: A novel and improved method of ridge tillage to reduce water, sediment, and nutrient losses from sloping farmlands in Songhua River basin, northeast China

S. Yang, H. Liu, Y. Wang, L. Xing, and Y. Wang

Modeling likelihood of farmer participation in the USDA Natural Resources Conservation Service Conservation Technical Assistance program in West Virginia

M.D. Oliver and K.A. Gazal

- Minimum tillage and no-tillage winter wheat—summer fallow for low precipitation regions
 J.D. Williams and S.B. Wuest
- Soil water and temperature characteristics under different straw mulching and tillage measures in the black soil region of China

L. Liu, L. Zhang, J. Liu, Q. Fu, Q. Xu, and O. Idimesheva

- Multispecies cover cropping promotes soil health in no-tillage cropping systems of North Carolina
 A.J. Franzluebbers, S.W. Broome, K.L. Pritchett, M.G. Wagger, N. Lowder, S. Woodruff, and M. Lovejoy
- Analysis of soil erosion in central and eastern China: A spatial model approach X. Meng, J. Cao, and X. Wang

CONSERVATION

o n i n e

The Journal of Soil and Water Conservation is online.

AUTHORS

Please submit manuscripts using the online manuscript review system.

MORE INFORMATION
Go to www.jswconline.org

JOURNAL OF SOIL AND WATER CONSERVATION

Soil and Water Conservation Society 945 SW Ankeny Road, Ankeny, IA 50023 USA www.swcs.org

CHIEF EXECUTIVE OFFICER Clare Lindahl Soil and Water Conservation Society Ankeny, Iowa, USA

EDITOR & DIRECTOR OF PUBLICATIONS Annie Binder Soil and Water Conservation Society Ankeny, Iowa, USA

RESEARCH EDITOR & CHAIR OF EDITORIAL BOARD Gretchen Sassenrath Department of Agronomy Kansas State University

RESEARCH EDITOR EMERITUS Jorge A. Delgado Soil Management and Sugar Beet Research Unit USDA Agricultural Research Service Fort Collins, Colorado, USA

EDITORIAL ASSISTANT Jody Thompson Soil and Water Conservation Society Ankeny, Iowa, USA

EDITORIAL BOARD J. Gordon Arbuckle, Jr. Department of Sociology Iowa State University Ames, Iowa, USA

Parsons, Kansas, USA

Eli Argaman Ministry of Agriculture and Rural Development Beit Dagan, Israel

Francisco Arriaga Department of Soil Science and UW-Extension University of Wisconsin-Madison Madison, Wisconsin, USA

Karl Auerswald Technische Universität München Freising, Germany

Jamiu Oladipupo Azeez Department of Soil Science and Land Management Federal University of Agriculture Abeokuta Abeokuta, Ogun, Nigeria

Claire Baffaut Cropping Systems and Water Quality Research Unit USDA Agricultural Research Service Columbia, Missouri, USA

Yazidhi Bamutaze Makerere University Kampala, Uganda

Andrew Barnes Land Economy Research Group Scotland's Rural College Edinburgh, United Kingdom

Kathryn J. Brasier Department of Agricultural Economics & Rural Sociology The Pennsylvania State University University Park, Pennsylvania, USA

Chongfa Cai College of Resources and Environment Huazhong Agricultural University Wuhan, Hubei Province, China

Charles Gachene University of Nairobi Nairobi, Kenya

Clark J. Gantzer Soil, Environmental, and Atmospheric Sciences University of Missouri Columbia, Missouri, USA

Margaret W. Gitau Agricultural and Biological Engineering Purdue University West Lafayette, Indiana, USA

Valentin Golosov Lomonosov Moscow State University Moscow, Russia

Chunsheng Hu Center for Agricultural Resources Research Shijiazhuang, Hebei, China

Thomas Iserloh Department of Physical Geography Trier University Trier, Germany Gergely Jakab Research Center for Astronomy and Earth Sciences Hungarian Academy of Sciences Budapest, Hungary

Jane M.F. Johnson North Central Soil Conservation Research Laboratory USDA Agricultural Research Service Morris, Minnesota, USA

Narayanan Kannan Tarleton State University Stephenville, Texas, USA

Mohammad Khakbazan Brandon Research Center Agriculture and Agri-Food Canada Brandon, Manitoba, Canada

Andreas Klik Institute of Hydraulics and Rural Water Management BOKU-University of Natural Resources and Life Sciences Vienna, Austria

Sheng Li Fredericton Research and Development Center Agriculture and Agri-Food Canada Fredericton, New Brunswick, Canada

Lisa Lobry de Bruyn School of Environmental and Rural Science University of New England Armidale, New South Wales, Australia

Loretta M. Lynch
Department of Agricultural and Resource Economics
University of Maryland
College Park, Maryland, USA

Gustavo Merten University of Minnesota-Duluth Duluth, Minnesota, USA

Daniel Moriasi Great Plains Agroclimate and Natural Resources Research Unit USDA Agricultural Research Service El Reno, Oklahoma, USA

Rachid Mrabet Institut National de la Recherche Agronomique (INRA) Rabat, Morocco

Mark A. Nearing Southwest Watershed Research Center USDA Agricultural Research Service Tucson, Arizona, USA

Paulo Tarso Sanches de Oliveira Federal University of Mato Grosso do Sul Campo Grande, Mato Grosso do Sul, Brazil

Department of Chemistry and Environmental Science New Jersey Institute of Technology Newark, New Jersey, USA

Maria Lucia Silveira Range Cattle Research and Education Center University of Florida Ona, Florida, USA

M.S. Srinivasan National Institute of Water and Atmospheric Research Ltd. Christchurch, New Zealand

R. Scott Van Pelt Wind Erosion and Water Conservation Research Unit USDA Agricultural Research Service Big Spring, Texas, USA

John D. Williams Columbia Plateau Conservation Research Center USDA Agricultural Research Service Pendleton, Oregon, USA

BOARD OF DIRECTORS
Dale Threatt-Taylor, Chair & Southeastern Director
Rebecca Power, Vice-Chair & North Central Director
Jane Hardisty, Secretary & At-Large Director
Rex Martin, Treasurer & At-Large Director
Keith Berns, Northwestern Director
Ellen Gilinsky, Northeastern Director
Jerry Hatfield, At-Large Director
Steve Kadas, Southwestern Director
Jason Weller, At-Large Director

The Journal of Soil and Water Conservation (print ISSN 0022-4561, online ISSN 1941-3300) is published bimonthly by the Soil and Water Conservation Society. Ø 2021 by the Soil and Water Conservation Society. All rights reserved.

For subscriptions or membership, please visit www.swcs.org or call 800-THE-SOIL. POSTMASTER: Send address changes to Journal of Soil and Water Conservation, 945 SW Ankeny Road, Ankeny, IA 50023 USA. Periodicals postage paid at Ankeny, IA, and additional mailing offices.

Submit comments, contributions, advertising queries, and requests for reprints and permissions to the editor at pubs@swcs.org. Articles in the Research Section have undergone peer review. The Soil and Water Conservation Society assumes no responsibility for statements and opinions expressed by contributors.

Justice, Equity, Diversity, and Inclusion: SWCS seeks diverse voices, actively listens, engages in dialogue, thinks critically, and takes meaningful action toward creating institutions and systems that serve and value people equally.

Soil and Water Conservation Society Corporate Partners

PLATINUM CORPORATE PARTNERS

Syngenta www.syngenta.com

GOLD CORPORATE PARTNERS

Agri Drain Corporation www.agridrain.com

Hickenbottom Inc. www.hickenbottominc.com

SILVER CORPORATE PARTNERS

The Fertilizer Institute www.tfi.org

Sand County Foundation sandcountyfoundation.org

BRONZE CORPORATE PARTNERS

Iowa Learning Farms www.iowalearningfarms.org

For information on becoming a corporate member, please contact 515-289-2331 ext. 114 corporate.info@swcs.org