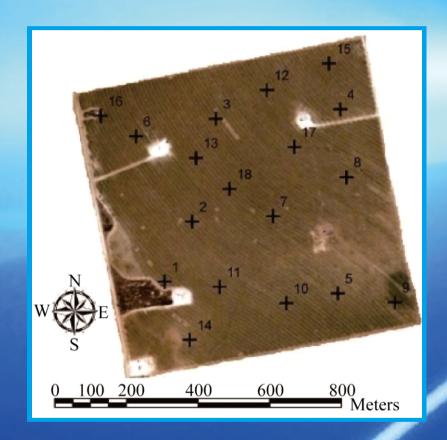


Open Journal of Soil Science





Journal Editorial Board

ISSN: 2162-5360 (Print), 2162-5379 (Online) http://www.scirp.org/journal/ojss

Editor-in-Chief

Dr. Haiyan Chu

Chinese Academy of Sciences, China

Editorial Board

Dr. Thomas John Aspray

Dr. Jie Chen

Dr. Wilfredo A. Dumale, Jr. Prof. Thomas E. Fenton

Prof. W. G. Dilantha Fernando

Dr. Bente Foereid

Dr. Adriel Ferreira da Fonseca

Dr. Rima B. Franklin

Dr. Bin Gao

Dr. Daniel Hirmas
Dr. Kamlesh Jangid
Dr. Michael B. Jenkins
Dr. Antonio Jordán López

Prof. Mehmet Rüştü Karaman Prof. Tasios Karathanasis

Dr. Usama F. A. Karim

Prof. Arno Kleber Dr. Sandeep Kumar

Prof. Dar-Yuan Lee

Dr. Ana Teresa Lima

Prof. Francisco Jose Martín Peinado

Dr. Julia Martínez Fernández

Dr. Maren Oelbermann

Dr. Feifei Pan

Dr. Álvaro Ramírez-Gómez Dr. Shambhu Prasad Sah

Dr. Yang-Hsin Shih Prof. Berrin Tansel

Dr. Xinhua (Frank) Yin

Dr. Kefeng Zhang

Heriot Watt University, UK

Shanghai Jiao Tong University, China

University of Tokyo, Japan Iowa State University, USA University of Manitoba, Canada University of Abertay Dundee, UK State University of Ponta Grossa, Brazil

State University of Ponta Grossa, Brazil Virginia Commonwealth University, USA

University of Florida, USA University of Kansas, USA University of Georgia, USA

National Centre for Cell Science, India

USDA-ARS, USA

University of Seville, Spain Gaziosmanpasa University, Turkey University of Kentucky, USA University of Twente, Netherlands

Dresden University of Technology, Germany

The Ohio State University, USA

National Taiwan University, Chinese Taipei

Utrecht University, Netherlands University of Granada, Spain University of Murcia, Spain University of Waterloo, Canada University of North Texas, USA

Polytechnic University of Madrid, Spain

University of Helsinki, Finland

National Taiwan University, Chinese Taipei Florida International University, USA University of Tennessee-Knoxville, USA

Warwick University, UK

Guest Reviewers

Blanca Bernal Dionisios Gasparatos Zhiming Qi Manoj Kumar Sidat Yaffa Junqiang Zheng



TABLE OF CONTENTS

Volume 2 Number 3	September 2012
Test of the Rosetta Pedotransfer Function for Saturated Hydraulic Conductivity C. Alvarez-Acosta, R. J. Lascano, L. Stroosnijder	203
Field Assessment of Soil Water Storage and Actual Evapotranspiration of Rainfed Maize (<i>Zea mays L.</i>) Genotypes in a Coastal Savannah Environment J. O. Frimpong, M. Q. Addy, E. O. Ayeh, H. M. Amoatey, J. T. Kutufam, B. Quaye, J. O. Sintim, D. K.	Asare213
Impact of Altitude and Land Use Type on Some Physical and Chemical Properties of Acidic Soils in Tsegede Highlands, Northern Ethiopia A. Kidanemariam, H. Gebrekidan, T. Mamo, K. Kibret	223
Phosphate Desorption Characteristics of Some Representative Soils of Bangladesh: Effect of Exchangeable Anions, Water Molecules and Solution to Soil Ratios M. Z. Afsar, S. Hoque, K. T. Osman	234
Tillage, Crop Rotation, and Cultural Practice Effects on Dryland Soil Carbon Fractions U. M. Sainju, A. W. Lenssen, T. Caesar-TonThat, J. D. Jabro, R. T. Lartey, R. G. Evans, B. L. Allen	
Differences in Modified Morgan Phosphorus Levels Determined by Colorimetric and Inductively Coupled Plasma Methods Z. Q. He, H. L. Zhang, O. M. Olanya, J. M. Frantz, R. P. Larkin	256
Comparison between Calcimetric and Titrimetric Methods for Calcium Carbonate Determi P. M. Maulood, A. O. Esmail, M. S. S. Dohuki, D. A. Darwesh	
Soil Organic C:N vs. Water-Extractable Organic C:N R. L. Haney, A. J. Franzluebbers, V. L. Jin, M-V. Johnson, E. B. Haney, M. J. White, R. D. Harmel	269
Peculiarities of Heavy Metals Accumulation by the Plants of Meadow Phytocenosis T. A. Trifonova, E. Y. Alkhutova	275
Physiological Effects of Chitosan Coating on Wheat Growth and Activities of Protective Enzyme with Drought Tolerance D. F. Zeng, X. R. Luo.	282
Nutrient Budget for Optimal Oil Palm (Elaeis guineensis Jacq) Yield on Coastal Plain Sands Soils of Akwa Ibom State Nigeria J. C. Obi, B. T. Udoh	289
Relative Effectiveness of Various Amendments in Improving Yield and Nutrient Uptake under Organic Crop Production S. S. Malhi.	:
Analysis of the Bacterial Communities in Lime Concretion Black Soil upon the Incorporation of Crop Residues SQ. Tao, Q. Xia, L. Zhu, JJ. Chen, YN. Wang, B. Qin	
A Model Study on Accelerated Consolidation of Coir Reinforced Lateritic Lithomarge Soil Blends with Vertical Sand Drains for Pavement Foundations G. Varghese, H. Ramakrishna, A. G. N. Kuma, L. D. Prashanth, G. Santosh	
Microarray Technology and Its Applicability in Soil Science—A Short Review S. Asuming-Brempong	

The figure on the front cover is from the article published in Open Journal of Soil Science, 2012, Vol. 2, No. 3, pp. 203-212 by Carlos Alvarez-Acosta, Robert J. Lascano, Leo Stroosnijder.

Copyright © 2012 SciRes.

Open Journal of Soil Science (OJSS)

Journal Information

SUBSCRIPTIONS

The *Open Journal of Soil Science* (Online at Scientific Research Publishing, www.SciRP.org) is published quarterly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$39 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

SERVICES

Advertisements

Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies)

Reprints Co-Ordinator, Scientific Research Publishing, Inc., USA.

E-mail: sub@scirp.org

COPYRIGHT

Copyright©2012 Scientific Research Publishing, Inc.

All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as described below, without the permission in writing of the Publisher.

Copying of articles is not permitted except for personal and internal use, to the extent permitted by national copyright law, or under the terms of a license issued by the national Reproduction Rights Organization.

Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assumes no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:

E-mail: ojss@scirp.org

Call for Papers



Open Journal of Soil Science

ISSN: 2162-5360 (Print) ISSN: 2162-5379 (Online) http://www.scirp.org/journal/ojss

Open Journal of Soil Science (OJSS) is an international journal dedicated to the latest advancement of soil science. The goal of is journal is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in different areas of soil science.

Editor-in-Chief

Dr. Haiyan Chu

Chinese Academy of Sciences, China

Editorial Board

Dr. Thomas John Aspray

Dr. Jie Chen

Dr. Wilfredo A. Dumale, Jr. Dr. Wilfredo A. Dumale Prof. Thomas E. Fenton Prof. W. G. Dilantha Fernando

Dr. Bente Foereid

Dr. Adriel Ferreira da Fonseca

Dr. Rima B. Franklin

Dr. Bin Gao

Dr. Daniel Hirmas

Dr. Kamlesh Jangid

Dr. Michael B. Jenkins Dr. Antonio Jordán López

Prof. Mehmet Rüştü Karaman

Prof. Tasios Karathanasis

Dr. Usama F. A. Karim

Prof. Arno Kleber

Dr. Sandeep Kumar

Prof. Dar-Yuan Lee Dr. Ana Teresa Lima

Prof. Francisco Jose Martín Peinado

Dr. Julia Martínez Fernández

Dr. Maren Oelbermann

Dr. Feifei Pan

Dr. Álvaro Ramírez-Gómez

Dr. Shambhu Prasad Sah

Dr. Yang-Hsin Shih

Prof. Berrin Tansel

Dr. Xinhua (Frank) Yin

Dr. Kefeng Zhang

Subject Coverage

This journal invites original research and review papers that address the following issues in soil science. Topics of interest include, but are not limited to:

- Soil and Global Change
- Soil Biology and Biochemistry
- Soil Chemistry
- Soil Ecology
- Soil Environment
- Soil Fertility and Plant Nutrition
- Soil Geography
- Soil Improvement Studies

- Soil Microbiology
- Soil Physics
- Soil Remediation
- Soil Resources and Use
- Soil Science in Other Disciplines
- Soil Survey and Evaluation
- Soil Taxonomy
- Soil Tillage

We are also interested in short papers (letters) that clearly address a specific problem, and short survey or position papers that sketch the results or problems on a specific topic. Authors of selected short papers would be invited to write a regular paper on the same topic for future issues of the *OJSS*.

Notes for Intending Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

Email: oiss@scirp.org

Website and E-Mail

http://www.scirp.org/journal/ojss