

ISSN: 2162-5360

Volume 9, Number 3, March 2019



Open Journal of Soil Science



ISSN: 2162-5360



www.scirp.org/journal/ojss

Journal Editorial Board

ISSN: 2162-5360 (Print) 2162-5379 (Online)

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

Editor-in-Chief

Prof. Haiyan Chu

Chinese Academy of Sciences, China

Editorial Board

Prof. Wael Abdel Kawy

Dr. Daniel J. Ashworth

Dr. Thomas John Aspray

Prof. Jie Chen

Dr. Wilfredo Jr., Arellano Dumale

Prof. Thomas E. Fenton

Prof. W. G. Dilantha Fernando

Dr. Bente Foereid

Dr. Bin Gao

Dr. Michael B. Jenkins

Cairo University, Egypt

University of California, USA

Heriot Watt University, UK

Shanghai Jiao Tong University, China

The University of Tokyo, Japan

Iowa State University, USA

University of Manitoba, Canada

Bioforsk Soil and Environment, Norway

University of Florida, USA

United States Department of Agriculture-Agricultural
Research Service, USA

University of Seville, Spain

Gaziosmanpasa University, Turkey

University of Kentucky, USA

University of Twente, The Netherlands

Dresden University of Technology, Germany

South Dakota State University, USA

National Taiwan University, Chinese Taipei

Utrecht University, The Netherlands

University of Florida, USA

University of Granada, Spain

University of Murcia, Spain

University of Waterloo, Canada

Polytechnic University of Madrid, Spain

University of Helsinki, Finland

National Taiwan University, Chinese Taipei

Cairo University, Egypt

National Research Centre for Citrus, India

Florida International University, USA

China Agricultural University, China

University of Tennessee-Knoxville, USA

Zhejiang University, China

Dr. Antonio Jordán López

Prof. Mehmet Rüstü Karaman

Prof. Tasios Karathanasis

Prof. Usama F. A. Karim

Prof. Arno Kleber

Dr. Sandeep Kumar

Prof. Dar-Yuan Lee

Dr. Ana Teresa Lima

Dr. Guodong (David) Liu

Prof. Francisco Jose Martín Peinado

Dr. Julia Martínez Fernández

Dr. Maren Oelbermann

Dr. Álvaro Ramírez-Gómez

Dr. Shambhu Prasad Sah

Dr. Yang-Hsin Shih

Prof. Abdou Abdou Soaud

Dr. A. K. Srivastava

Prof. Berrin Tansel

Dr. Gang Wang

Dr. Xinhua (Frank) Yin

Prof. Kefeng Zhang

Table of Contents

Volume 9 Number 3

March 2019

**Interactive Effect of Copper and Its Mineral Collectors on Soil Microbial
Activity—A Microcalorimetric Analysis**

P. Bararunyeretse, H. O. Beckford, H. B. Ji.....47

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 monthly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$69 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 and reuse rights for the front matter of the journal:

Copyright © 2019 by Scientific Research Publishing Inc.

This work is licensed under the Creative Commons Attribution International License (CC BY).

<http://creativecommons.org/licenses/by/4.0/>

Copyright for individual papers of the journal:

Copyright © 2019 by author(s) and Scientific Research Publishing Inc.

Reuse rights for individual papers:

Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

Disclaimer of liability

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 assume 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



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 this 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

Prof. Haiyan Chu

Chinese Academy of Sciences, China

Editorial Board

Prof. Wael Abdel Kawy
Dr. Daniel J. Ashworth
Dr. Thomas John Aspray
Prof. Jie Chen
Dr. Wilfredo Jr., Arellano Dumale
Prof. Thomas E. Fenton
Prof. W. G. Dilantha Fernando
Dr. Bente Foereid
Dr. Bin Gao
Dr. Michael B. Jenkins
Dr. Antonio Jordán López

Prof. Mehmet Rüstü Karaman
Prof. Tasios Karathanasis
Prof. Usama F. A. Karim
Prof. Arno Kleber
Dr. Sandeep Kumar
Prof. Dar-Yuan Lee
Dr. Ana Teresa Lima
Dr. Guodong (David) Liu
Prof. Francisco Jose Martín Peinado
Dr. Julia Martínez Fernández
Dr. Maren Oelbermann

Dr. Álvaro Ramírez-Gómez
Dr. Shambhu Prasad Sah
Dr. Yang-Hsin Shih
Prof. Abdou Abdou Soaud
Dr. A. K. Srivastava
Prof. Berrin Tansel
Dr. Gang Wang
Dr. Xinhua (Frank) Yin
Prof. 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.

Website and E-Mail

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

Email: ojss@scirp.org