

## HOT NEWS

**>>> ISSUE 5, 2020** 



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### **WASWAC Advisory Committee and Council of 2020-2022**

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Name	Country	Responsibility
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### Soil pores hold the key to stability for desert soils

#### By Kaine Korzekwa

Soils in deserts are very different from those found anywhere else. Extreme temperatures, little water and limited plant matter make an unusual environment. With little dead plant material to decompose and create a rich layer of organic matter, desert soils are unique.

Judith Turk, an assistant professor at the University of Nebraska-Lincoln, studies the top layer of desert soils, called the vesicular horizon. This surface layer of the soil is common in deserts and contains pores of different shapes, called vesicles and vughs.



Researchers measure soil infiltration in desert soils near Alkali Lake, NV. Credit: Judith Turk

"These horizons are important because of their role in many processes," Turk says. "Vesicular horizons determine how much water soaks into the soil and how much runs off. Since they occur in deserts, they control the distribu-

tion of the most limiting resource, which is water."

Vesicular pores are spherical, look a bit like bubbles, and are not connected to each other. Vughs are similar but more irregular in shape, almost like a clump of bubbles that have not fully separated from each other.

Turk wanted to learn how these horizons form across different desert soils. In their most recent experiment, they chose small plots of the soils and took samples. They then crushed the soil so the formation of pores would have to start from scratch. They checked the porosity of the soils over the course of a year to compare.

"First, we found that infiltration rates were lowered as a result of disturbance," Turk explains. "This would normally not be surprising, since disturbance compacts the soil, reducing porosity, and breaking up the pore networks that water flows through."

"However, the pores in vesicular horizons are different," she says. "Most of the pores are not connected with each other and therefore contribute little to permeability of the soil. So, we weren't sure how disturbance would affect these horizons."

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She adds that what did surprise them was how a soil's texture determined how well its porosity in this soil layer came back. They assumed that a soil with more silt would be better for vesicle formation but found vesicles formed more rapidly in relatively sandy soils.



This soil profile shows the vesicular horizon in a research plot near Mina, NV. Credit: Judith Turk.

"The capacity for vesicular pores to reform within a year after the vesicular horizon is disturbed is something that is interesting," Turk says. "The post-disturbance vesicular horizons being thinner with smaller pores tells us that what we observed in the undisturbed soils takes time to form."

It is important to study these soils because semi-arid lands cover about one third of the planet's land area. Soils with vesicular horizons are often disturbed because populations of cities in arid environments are growing. There is construction of solar and wind farms, and these areas are popular for military exercises.

It's vital to take the researchers' findings into account when planning to disturb the soil. This allows people to understand how the soil might behave after the disturbance.

Turk plans to continue this research in the future. She would like to see an experiment done over a longer time scale to watch the newly formed layers blend into the undisturbed surrounding soil.

"Many people are surprised to learn that there are interesting soils in the desert," she says. "When I moved to California for graduate school, I fell in love with the desert lands of the western US. In the desert you can see the land surface and it's easy to imagine the processes that have built the soil landscapes that we see today."



This chunk of soil has numerous vesicular pores, which are spherical and look a bit like bubbles. Credit: Judith Turk

HOT NEWS ISSUE 5/2020 Meetings

### **Upcoming meeting:**

### ASA, CSSA & SSSA International Annual Meeting

Phoenix, Arizona (USA) 8-11 November 2020

### Translating Visionary Science to Practice

The Annual Meeting is one of the few gatherings that bring together approximately 4,000 scientific leaders from industry, government agencies, and academic institutions in one unique environment.

It's the premiere opportunity for professionals working in agronomic, crop, soil, and related sciences to hear about the latest research, meet and learn from their peers, expand their knowledge base, and take advantage of an abundance of networking opportunities to enhance their career.

This year's Annual Meeting will feature more than 3,500 technical presentations, along with a host of networking events and award ceremonies. The world-class exhibition displays the latest scientific equipment, supplies, services, and reference materials available.

Science makes new discoveries through systematic study, observation, and experimentation. The central tenet of the science value proposition is that these discoveries should drive innovation, create new opportunities, and improve the human condition.

Unfortunately, current communication systems can fail to deliver new information the "last mile" to the public in a timely, user-friendly fashion. This can limit real-world science application and the adoption of new technology. Non-scientists are often determining the relevancy, meaning, and potential value of new technologies and partnerships based on incomplete data and partial knowledge. It has never been more important, nor more urgent, to develop the skills and tools needed to translate scientific knowledge for the public good and to do so with absolute transparency, clarity and 2020 Vision.

We invite you to join this conversation at the 2020 International Annual Meeting, "Translating Visionary Science to Practice," on November 8-11, 2020, in Phoenix, Arizona.



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#### **DATES & DEADLINES**

December 19, 2019 Special sessions, tour & workshop proposals available online
February 28, 2020 Special sessions, tour & workshop proposals deadline
March 17 Abstract submission opens
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March 17 Early registration opens
March 17 Hotel reservations open

May 27 Early abstract submission deadline (price increases \$25)

Final abstract submission deadline

June 9 (Abstracts must be initiated by this date; they can be edited through

August 27)

Abstract editing deadline for printed program book

August 27 & abstract USB (No editing deadline for the online program & SciSoc

Mtg App)

October 1 Final day of Early Bird registration pricing

October 2 Standard registration rates begin
October 14 Online presentation uploading opens

October 16 Discounted hotel rates end (if rooms are still available)

October 16 Final day for the discounted registration rate

October 30 Online presentation uploading ends for oral presentations (Uploading must be done at the meeting after this date.)

November 8-11 ASA, CSSA & SSSA International Annual Meeting

Register on-line: <a href="https://www.acsmeetings.org/login/links/318">https://www.acsmeetings.org/login/links/318</a>

Or submit the Registration Form (PDF): <a href="https://www.acsmeetings.org/files/am/pdfs/2020-reg-form-5-4.pdf">https://www.acsmeetings.org/files/am/pdfs/2020-reg-form-5-4.pdf</a>

By Email: Send Message By Fax: 608-273-2021

By Mail: ASA, CSSA & SSSA

Attn: AM Meeting Registrar

5585 Guilford Rd. Madison, WI 53711

#### **ORAL PRESENTATIONS**

Oral presentations are normally 12 minutes with 3 minutes for questions.

Five-Minute Rapid presentations are also available. These can be presented alone or in conjunction with a poster session. There are only three slides allowed per rapid oral presentation.

#### POSTER PRESENTATIONS

All posters will be displayed on a half-size poster board (display space can be no larger than 44.5"  $\times$  44.5") for one day. All presenters will present for a two-hour period on one day. A poster board number will be placed in the upper left corner of the board on a  $4\frac{1}{2}$ "  $\times$  3" card. The poster boards are Velcro-friendly. Please bring your own Velcro.



### Suggestions during pandemic from Elsevier editor resilience center

In times of local or global stress, carrying on researching and publishing is difficult. Your main priority is and must remain your own health & safety and that of your families, of course. In order to assist you with continuing your editing activities as far as possible, we offer here a selection of resources that you might find helpful. Some of these are doubtless tools with which you will be already familiar but we trust this center will add some measure of support in difficult times. With very best wishes for your health and personal endeavors.

-The Elsevier Editor Experience Team



#### Stay safe

- The most important consideration is your own health and safety, and that of your family.
- Consult your own country's medical advice service and do not neglect your mental health!
- For further information about the Covid-19 pandemic, see <u>Elsevier's Novel Coronavirus Information Center</u> and <u>associated resources</u>.



#### Stay connected

- Depending on your situation, you may not be able to access your library, lab or other physical resources.
- Harness the power of social media to stay in touch with editorial colleagues as well as family and friends.
- Make sure you are familiar with how to access materials remotely. Here is <u>advice on access-ing ScienceDirect</u>.
- If you need any assistance in accessing either ScienceDirect or Scopus, please reach out to your Publisher.
- If you are able to, use communications tools such as WhatsApp, Skype, WeChat, Zoom etc.
- We encourage authors of manuscripts covering research related to Covid-19 which
  have passed desk review and appear to be of sufficient quality to enter external peer review
  to submit the manuscript to <u>SSRN</u>, our pre-print server. SSRN has opened <u>a dedicated COVID</u>
  -19 portal for this <u>purpose</u>.

World Association of Soil and Water Conservation

We'd be grateful if you could alert us to any (near)-accepted manuscript that includes research related to Covid-19 which you deem appropriate and relevant to be added to the <u>Information Center</u> by emailing the manuscript's details to <u>chennaimcateam@elsevier.com</u>.



### Stay organized

- Having to stay away from the office or lab will cause you to rethink your approach to work.
- Consider using tools to help plan and organize your tasks and team such as Trello, Google Tasks, Asana or Slack.
- Where possible, we would ask you to be flexible towards any requests for extending author
  and reviewer deadlines. Our support staff and Journal Managers have been advised to grant
  any Covid-19 related requests unless you indicate differently, so please contact your publishing contact if you would like to discuss this.
- In these highly unusual times, most organizations are looking at contingency plans and our
  journals are no exception. It may be wise to begin considering this for your title in case of any
  unforeseen scenarios, for example if you become ill or are unable to continue your duties –
  please reach out to your publishing contact to discuss any ideas.
- Try to maintain in regular contact with your publishing contact and feel free to raise any difficulties you may come across. We're here to support you so don't be shy about coming forward if you need to!



### Stay focused

- Most journals and other publication outlets are still operating semi-normally, but we fully appreciate that the editorial process may take longer than normal.
- As well as the author-facing resources on <u>Author Hub</u>, <u>Researcher Academy</u> and <u>Authors'</u>
   <u>Update</u>, we have also launched <u>an author resilience center</u> for help and advice during this difficult time.
- We are actively advising authors to be wary of "quick fixes" in the form of predatory journals.

Sources: <a href="https://www.elsevier.com/editors/editor-resilience-center">https://www.elsevier.com/editors/editor-resilience-center</a>

### **Updated CiteScore of ISWCR in April 2020**

CiteScore is a metric for measuring journal impact in Scopus. The calculation of CiteScore for the current year is based on the number of citations received by a journal in that year for the documents published in the journal in the past three years, divided by the documents indexed in Scopus published in those three years. Below is the updated information on Scopus website:

#### International Soil and Water Conservation Research

**Open Access** 

Scopus coverage years: from 2013 to present

Publisher: International Research and Training Center on Erosion and Sedimentation &

China Water and Power Press

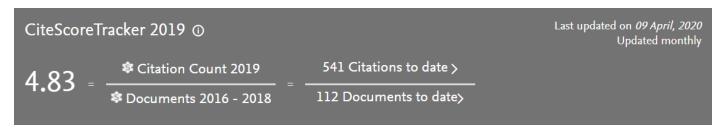
ISSN: 2095-6339

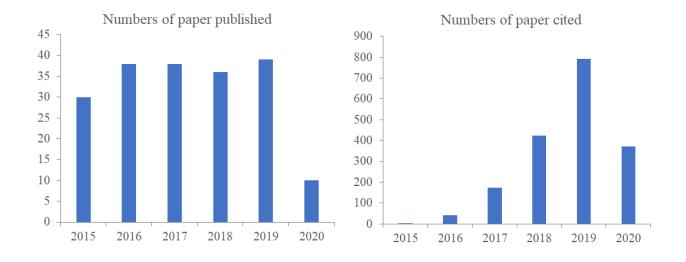
Subject area: Environmental Science: Water Science and Technology

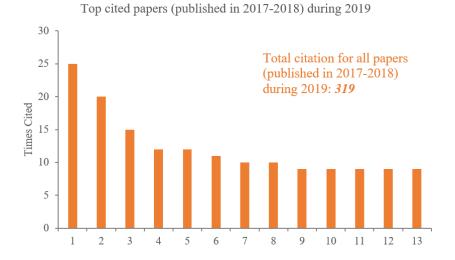
Environmental Science: Nature and Landscape Conservation

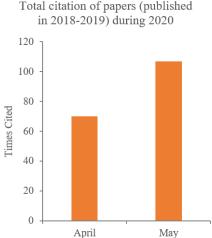
Agricultural and Biological Sciences: Agronomy and Crop Science

Agricultural and Biological Sciences: Soil Science









List of top cited papers (published in 2017-2018) during 2019

1 Natural and anthropogenic rates of soil erosion Effect of land use land cover dynamics on hydrological response of watershed: Case study 2 of Tekeze Dam watershed, northern Ethiopia Integrated universal soil loss equation (USLE) and Geographical Information System (GIS) 3 for soil erosion estimation in A Sap basin: Central Vietnam Land use and land cover changes and Soil erosion in Yezat Watershed, North Western Ethi-4 opia Awareness and adoption of land, soil and water conservation practices in the Chinyanja 5 Triangle, Southern Africa Impact of urbanization on groundwater recharge and urban water balance for the city of 6 Hyderabad, India Grid-cell based assessment of soil erosion potential for identification of critical erosion 7 prone areas using USLE, GIS and remote sensing: A case study in the Kapgari watershed, India Factors affecting adoption of soil and water conservation practices: The case of Wereillu 8 Woreda (District), South Wollo Zone, Amhara Region, Ethiopia Impact of dam on inundation regime of flood plain wetland of punarbhaba river basin of 9 barind tract of Indo-Bangladesh Soil and water conservation effects on soil properties in the Middle Silluh Valley, northern 10 Ethiopia Determinants of farmers' perception to invest in soil and water conservation technologies in 11 the North-Western Highlands of Ethiopia 12 The effect of grid size on the quantification of erosion, deposition, and rill network Factors influencing the adoption of physical soil and water conservation practices in the 13 Ethiopian highlands

### Most recent articles in press for ISWCR

## Spatial distribution of water and wind erosion and their influence on the soil quality at the agropastoral ecotone of North China

Yanzai Wang, Yifan Dong, Zhengan Su, Simon Mudd, ... Dong Yan In Press, Journal Pre-proof, Available online 18 May 2020

https://www.sciencedirect.com/science/article/pii/S2095633920300265

# Unsupervised learning approach in defining the similarity of catchments: Hydrological response unit based k-means clustering, a demonstration on Western Black Sea Region of Turkey

Ersin Aytaç

In Press, Journal Pre-proof, Available online 14 May 2020

https://www.sciencedirect.com/science/article/pii/S2095633920300277

## The application of proximal visible and near-infrared spectroscopy to estimate soil organic matter on the Triffa Plain of Morocco

Ayoub Lazaar, Abdul Mounem Mouazen, Kamal EL Hammouti, Michael Fullen, ... Abdelilah Monir

In Press, Corrected Proof, Available online 21 April 2020

https://www.sciencedirect.com/science/article/pii/S2095633920300253

## Effect of joint structure and slope direction on the development of collapsing gully in tuffaceous sandstone area in South China

Yusong Deng, Xiaoqian Duan, Shuwen Ding, Chongfa Cai

In Press, Corrected Proof, Available online 17 April 2020

https://www.sciencedirect.com/science/article/pii/S209563392030023X

### Using high-resolution aerial images to study gully development at the regional scale in southern China

Honghu Liu, Georg Hörmann, Bingyu Qi, Qiuxing Yue

In Press, Corrected Proof, Available online 16 April 2020

https://www.sciencedirect.com/science/article/pii/S2095633920300204

#### Surface runoff and soil erosion in a natural regeneration area of the Brazilian Cerrado

Karina dos Santos Falcão, Elói Panachuki, Felipe das Neves Monteiro, Roniedison da Silva Menezes, ... Paulo Tarso S. Oliveira

In Press, Corrected Proof, Available online 13 April 2020

https://www.sciencedirect.com/science/article/pii/S2095633920300241

## Institutional performance and participatory paradigms: Comparing two groups of watersheds in semi-arid region of India

Biswajit Mondal, N. Loganandhan, S.L. Patil, A. Raizada, ... G.L. Bagdi

In Press, Journal Pre-proof, Available online 8 April 2020

https://www.sciencedirect.com/science/article/pii/S2095633920300228

### Most recent articles in press for ISWCR

#### A systematic review of soil erosion control practices on the agricultural land in Asia

Nur Syabeera Begum Nasir Ahmad, Firuza Begham Mustafa, Safiah @ Yusmah Muhammad Yusoff, Gideon Didams

In Press, Corrected Proof, Available online 8 April 2020

https://www.sciencedirect.com/science/article/pii/S2095633920300216

## Distinct and combined impacts of climate and land use scenarios on water availability and sediment loads for a water supply reservoir in northern Morocco

Fatiha Choukri, Damien Raclot, Mustapha Naimi, Mohamed Chikhaoui, ... Yannick Pépin In Press, Corrected Proof, Available online 4 April 2020

https://www.sciencedirect.com/science/article/pii/S2095633920300198

#### Atrazine removal from water by activated charcoal cloths

Javier M. Gonzalez, Lynnette R. Murphy, Chad J. Penn, Veera M. Boddu, Laura L. Sanders In Press, Corrected Proof, Available online 3 April 2020 https://www.sciencedirect.com/science/article/pii/S2095633920300186

## Combating wind erosion through soil stabilization under simulated wind flow condition - Case of Kuwait

Hana'a Burezq

In Press, Corrected Proof, Available online 10 March 2020

https://www.sciencedirect.com/science/article/pii/S2095633920300174

## Experimental study on the effects of multiple factors on spring meltwater erosion on an alpine meadow slope

Xiaonan Shi, Fan Zhang, Li Wang, Muhammad Dodo Jagirani, ... Guanxing Wang In Press, Corrected Proof, Available online 22 February 2020 https://www.sciencedirect.com/science/article/pii/S2095633920300150

## Tillage and no-tillage effects on physical and chemical properties of an Argiaquoll soil under long-term crop rotation in Buenos Aires, Argentina

Ana Clara Sokolowski, Barbara Prack McCormick, Javier De Grazia, José E. Wolski, ... Mónica B. Barrios

In Press, Corrected Proof, Available online 22 February 2020

https://www.sciencedirect.com/science/article/pii/S2095633920300162

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### Contents of Issue 4, 2020 for IJSR

Papers Published in the *International Journal of Sediment Research* Volume 35, No. 4, 2020 Pages 315–430 (August 2020)

## Modeling the effect of sediment concentration on the flow-like behavior of natural debris flow

Leonardo Schippa Pages 315-327

## Stochastic evolution of hydraulic geometry relations in the lower Yellow River of China under environmental uncertainties

Xiaolong Song; Deyu Zhong; Guangqian Wang; Xiaonan Li Pages 328-346

## Numerical simulation of sediment deposition and trapping efficiency estimation in settling basins, considering secondary flows

EsmailLakzian, HassanSaghi, OmidKooshki Pages 347-354

## Computational fluid dynamics modeling of abutment scour under steady current using the level set method

Mohammad Saud Afzal; Han Bihs; Lalit Kumar Pages 355-364

#### Sediment dynamics and temporal variation of runoff in the Yom River, Thailand

Matharit Namsai<sup>;</sup> Butsawan Bidorn<sup>;</sup> Seree Chanyotha<sup>;</sup> Ruetaitip Mama<sup>;</sup> Nathamon Phanomphongphaisarn Pages 365-376

## Performance of riffle structures on the stabilization of two successive knick points over a sandy bed

Afshin Fouladi Semnan; Mohammad Reza Jaefarzadeh Pages 377-385

### A GPU-based numerical model coupling hydrodynamical and morphological processes

Jingming Hou; Yongde Kang; Chunhong Hu; Yu Tong; Baozhu Pan; Junqiang Xia Pages 386-394

## A time-splitting pressure-correction projection method for complete two-fluid modeling of a local scour hole

Kambiz Farahi Moghadam; Mohammad Ali Banihashemi; Peyman Badiei; Ali Shirkavand Pages 395-407

### Contents of Issue 4, 2020 for IJSR

Soil erosion and sediment interception by check dams in a watershed for an extreme rainstorm on the Loess Plateau, China

Leichao Bai; Nan Wang; Juying Jiao; Yixian Chen; Bingzhe Tang; Haolin Wang; Yulan Chen; Xiqin Yan; Zhijie Wang

Pages 408-416

Hydrodynamics and suspended particulate matter retention in macrotidal estuaries located in Amazonia-semiarid interface (Northeastern-Brazil)

Vinicius Henrique Macieldos Santos; Francisco Joséda Silva Dias; Audálio Rebelo Torres; Rômulo Araújo Soares; Laís Costa Tertoa Antônio Carlos Lealde Castro; Ricardo Luvizotto Santos; Marco Valério Jansen Cutrimd

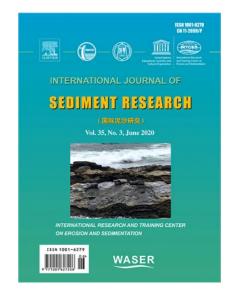
Pages 417-429

#### Full papers are available at ScienceDirect:

https://www.sciencedirect.com/journal/international-journal-of-sediment-research with free access to the paper abstracts.

International Journal of Sediment Research (IJSR), the Official Journal of The International Research and Training Center on Erosion and Sedimentation and The World Association for Sedimentation and Erosion Research, publishes scientific and technical papers on all aspects of erosion and sedimentation interpreted in its widest sense.

The subject matter is to include not only the mechanics of sediment transport and fluvial processes, but also what is related to geography, geomorphology, soil erosion, watershed management, sedimentology, environmental and ecological impacts of sedimentation, social and economical effects of sedimentation and its assessment, etc. Special attention is paid to engineering problems related to sedimentation and erosion.





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Rosa M. Poch (Spain) Samir El-Swaify (USA) Samran Sombatpanit (Thailand)

William Critchley (UK) Winfried Blum (Austria)

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(Names are arranged in alphabetical order)