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## HOT NEWS

ISSUE 6, 2021



### Contents

International Forum on Land Degradation, Soil Conservation and Sustainable Development, 2021– The Third Circular 2-6

Earth Day Program of Iranian Watershed Management Association 7-8

Let crop residues rot in the field -- it's a climate win 9-10

Updated submission data of ISWCR in June 2021 11

Contents of Issue 3, 2021 for ISWCR 12-14

Contents of Issue 4, 2021 for IJSR 15-16

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## International Forum on Land Degradation, Soil Conservation and Sustainable Development, 2021- The Third Circular

### 1. INTRODUCTION

The International Forum on Land Degradation, Soil Conservation and Sustainable Development, 2021 (LASOSU2021) will be held on 21-23 August 2021 in the Grand Cypress Teda Dalian, China, to provide an avenue for scientists to discuss pressing issues on soil loss facing our profession and society. Presently a total of 259 papers have been accepted, of which 66 are submitted by the first authors outside of China. The conference will include 2 slots for Keynote Speeches, 1 slot for Focus Group Discussion, and 25 slots for Parallel Sessions.

### 2. SCHEDULE & VENUE

#### (1) Venue

All participants from the low-risk areas of COVID-19 in China are encouraged to take part in LASOSU2021 which will be held in the Grand Cypress Teda Dalian located at 205 Zhongnan Road, Zhongshan District, Dalian, China (Accessory 1). Other participants may attend the meeting via the software VooV meeting, and the participants will receive the ID and SN of the VooV meeting in early August.

#### (2) Meeting

Arrival at 9:00-22:00, 21 August 2021 (Saturday)

Presentations during 22-23 August 2021

#### (3) Programme

The general programme of the conference is shown as follows. Please refer to Accessory 2 for details.



22 August 2021	08:00-08:50	Welcoming Ceremony
	09:10-12:00	Keynote Speeches
	13:30-15:05	Parallel Sessions
	15:05-15:55	Focus Group Discussion
	15:55-17:30	Parallel Sessions
23 August 2021	08:30-12:00	Parallel Sessions
	13:30-16:35	Parallel Sessions
	16:45-17:30	Closing Ceremony

### 3. TYPES OF PRESENTATIONS

#### (1) Oral Presentation

All participants who prefer to present oral presentations are required to send the pre-recorded oral presentations to the conference team via the email [xz xu2018@126.com](mailto:xz xu2018@126.com) by 31 July 2021.

#### (2) Poster Presentation

63 posters are anticipated to be demonstrated in LASOSU2021. The vertical size of the poster may not exceed 1.0 m × 1.5 m, and the author's institute and paper's number are essential in the poster. The posters are required to be displayed within a fixed time.

### 4. BOARD OF ACADEMIC COMMITTEE

**Presidents:** Bojie Fu, Rattan Lal (USA)

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### 5. SUPERVISORS AND ORGANIZERS

#### (1) Supervisors

World Association of Soil and Water Conservation, Italian Association of Agricultural Engineer-

ing (Italy), and Soil Erosion Division of Chinese Society of Soil and Water Conservation

## **(2) Organizers**

Dalian University of Technology, and University of Padova (Italy)

## **(3) Co-organizers**

Institute of Soil and Water Conservation of CAS & MWR, Beijing Normal University, Huazhong Agricultural University, Xi'an University of Technology, Italian Association for Soil and Water Bioengineering (Italy), Beijing Forestry University, Tsinghua University, Key Laboratory of Process and Control of Soil Loss on the Loess Plateau, Shandong Agricultural University, Southwest University, Fujian Agriculture and Forestry University, Yunnan University, and Shandong Division of Chinese Society of Soil and Water Conservation.

## **(4) Sponsors**

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## **7. REGISTRATION**

### **(1) Check-in**

The participants may check in at the Guest Hall of Grand Cypress Teda Dalian during 9:00-22:00, 21 August 2021.

Affected by the COVID-19 pandemic, international visits become unavailable, so only Chinese participants are encouraged to be registered in Dalian, all international participants are welcomed to share reports online.

### **(2) Traveling and Accommodation Information**

Please upload the traveling and accommodation information online referring to Accessories 3 and 4. **The due dates to submit the accommodation and traveling messages are 31 July and 10**

**August, respectively.** The participants who have already registered online may supplement their traveling and accommodation information based on registered messages (Accessory 3). Others may register following Accessory 4. The conference team will prearrange the accommodation and collection services for the participants according to the registration information.

### (3) Registration Fee

Here are the registration fees for the participants attending LASOSU2021 on site in Dalian:

Participant	Registration Fee
Regular participant	CNY ¥2300
Student or entourage	CNY ¥1500

The registration fee includes the access to conference and parallel sessions, lunch and refreshment breaks as scheduled in the conference program, and symposium dinner. The accommodation during the conference will be arranged at your own expense. Please refer to Accessory 4 for the payment method. The regular participants have the opportunity to present oral or poster presentations, and they will receive the conference manuals, representative cards, proceedings, meal vouchers, and other materials in the check-in hall on 21 August 2021. The entourages may attend the meeting and have dinners with the regular participants, but they will not receive the conference manual, representative card, and proceedings. Accessory 5 shows a template of the invitation letter for participant, which may help you to raise travel funds.

### 8. Why sponsor?

One platform, many connections. As a conference sponsor, you'll be able to: (i) strengthen your business and establish new clients through corporate visibility; and (ii) exhibit and distribute your marketing, business development and promotional materials. The conference will adhere to the principle of mutual benefit and win-win cooperation while discussing sponsorship matters with the sponsors. We provide promotion of your brand in the conference materials (Accessory 6). For further information, please contact Drs Yihang Li: xz xu2018@126.com, 18525405667.

### 9. CONTACTS

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*More information:* [http://meeting.dlut.edu.cn/meeting/list\\_en.asp?id=2710&nid=1511](http://meeting.dlut.edu.cn/meeting/list_en.asp?id=2710&nid=1511)

### Detailed Programme of LASOSU2021

Date	Time	Event	Venue
21/Aug/2021	09:00-22:00	Registration	Guest Hall
22/Aug/2021	08:00-08:50	Welcoming Ceremony	4 <sup>th</sup> Floor of Banquet Hall
	08:50-09:10	Tea & Coffee break	
	09:10-12:00	Keynote Presentations	4 <sup>th</sup> Floor of Banquet Hall
	12:00-13:30	Lunch Break	1 <sup>st</sup> Floor of Restaurant
	13:30-15:05	Parallel Sessions	Hall A1
			Hall B
			Hall C
	15:05-15:55	Focus Group Discussion	Theatre
	15:05-15:25	Tea & Coffee break	
	15:55-17:30	Parallel Sessions	Theatre
Hall A1			
Hall B			
18:00-20:00	Conference Banquet	Hall C	
		Hall D	
23/Aug/2021	08:30-10:05	Parallel Sessions	Hall A1
			Hall A2
			Hall B
			Hall C
			Hall D
	10:05-10:25	Tea & Coffee break	
	10:25-12:00	Parallel Sessions	Hall A1
			Hall B
			Hall C
	12:00-13:30	Lunch Break	1 <sup>st</sup> Floor of Restaurant
13:30-15:05	Parallel Sessions	Hall A1	
		Hall A2	
		Hall B	
		Hall C	
		Hall D	
15:05-15:25	Tea & Coffee break		
15:25-16:35	Parallel Sessions	Hall A1	
		Hall B	
		Hall C	
16:35-17:30	Closing Ceremony	4 <sup>th</sup> Floor of Banquet Hall	
17:30-20:00	Buffet Dinner	1 <sup>st</sup> Floor of Restaurant	

## Earth Day Program of Iranian Watershed Management Association

*En. Mahin Kalehhouei<sup>a</sup> and Prof. Dr. Ali Talebi<sup>b</sup>*

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World Earth Day is a good opportunity to raise awareness about the conservation of ecosystems in which human society can thrive. Land conservation is a necessity to achieve this goal. In 1970, in response to the environmental crisis, April 22nd (Ordibehesht 2nd, Iranian Calendar) was designated as the Clean Earth Day. Iran also joins other countries in this event and holds an Earth week all over the country every year.

The theme of this year's World Earth Day, "Land Reclamation" has been chosen. The great number of challenges and opportunities in land reclamation measures have made it the most important issue of Clean Earth Day. Therefore, the theme of this year's concept of clean earth in Iran was named as land reclamation along with increasing productivity for sustainable development. Although this year's social activities have been canceled due to the Covid19 Pandemic, the students' committee of the Iranian Watershed Management Association has acted symbolically to demonstrate the importance of the subject by considering the prevailing conditions in the country. The Watershed Management Society of Iran would like to thank the students of the Student Committee. The society also thanks Prof. Dr. SHR Sadeghi for his persistent supports and providing the opportunity to prepare this report. In the following, some pictures have been given to demonstrate a glance of the activities done for the commemoration of Earth Day in Iran.



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## Let crop residues rot in the field -- it's a climate win

For quite some time, farmers and researchers have been focusing on how to bind carbon to soil. Doing so makes food crops more nutritious and increases yields.

However, because carbon is converted into CO<sub>2</sub> when it enters the atmosphere, there is a significant climate benefit to capturing carbon in soil as well.

Too much carbon finds its way into the atmosphere. Should we fail to reverse this unfortunate trend, we will fail to achieve the Paris Agreement's goal of reducing greenhouse gas emissions by 40 percent by 2030, according to CONCITO, Denmark's Green Think Tank.

As such, it is important to find new ways of sequestering carbon in soil. This is where a team of researchers from the University of Copenhagen and the Technical University of Munich enter the picture.

In their new study, they argue for the potential of simply allowing agricultural crop residues to rot in fields.

"Fragments of dead plants in soil are often considered as fast food for microbes and fungi. But our study demonstrates that plant residues actually play a more significant role in forming and sequestering carbon in soil than what was once thought," explains Kristina Witzgall, a PhD Candidate at the Technical

University of Munich and the study's lead author.

In the past, researchers mainly focused on carbon storage in the surfaces of minerals like clay. However, the new results demonstrate that plant residues themselves have the ability to store carbon, and perhaps for longer than once supposed.

This is because a number of important processes take place directly upon the surface of these plant remains.

"We demonstrate that agricultural crop residues are absolutely central to carbon storage and that we should use them in a much more calculated way in the future. Plant residues make it possible for carbon, in all likelihood, to be stored in soil for roughly four times longer than if they aren't added," states Carsten Müller, the study's co-author and an associate professor at the University of Copenhagen's Department of Geosciences and Natural Resource Management.

### **Fungi and soil clumps store carbon**

To understand how plant residue sequesters carbon, it is important to know that plant tissue already contains carbon absorbed by plants from the atmosphere via photosynthesis. As plant matter rots, carbon can be transferred into the soil in a number of ways.

"Our analysis shows that plant residues, as they interact with fungi, play a surprisingly large role in carbon storage. As fungi fling their white strands around plant fragments, they 'glue' them together with the soil. The fungi then consume the carbon found in the plant matter. In doing so, they store carbon in the soil," explains Carsten Müller.

In addition to fungi, the researchers' analyses also show that the soil structure itself determines the amount of carbon that can be stored.

"When soil is glued together in large hard lumps by the stickiness of bacteria and fungi, plant residues are shielded from being consumed by bacteria and fungi, which would otherwise eat and then emit some of the carbon as CO<sub>2</sub> into the atmosphere," says Kristina Witzgall.

She goes on to say that while carbon can be stored in soil from weeks to a thousand years, the usual duration is about 50 years.

### **Reducing CO<sub>2</sub> in the future**

The method of leaving crop residues like stalks, stubble and leaves to rot is not unheard of when it comes to enhancing agricultural land.

However, deploying rotten plants as a tool to store carbon should be taken more seriously and considered as a strategy to be expanded, according to the researchers behind the new study.

"The fertile and climate-friendly agricultural lands of the future should use crop residue as a way of sequestering carbon. We will also be conducting experiments where we add rotten plant matter deeper into the soil, which will allow carbon to be stored for even longer periods of time," says Carsten Müller.

If we work to create better conditions for carbon sequestration in soil, we could store between 0.8 and 1.5 gigatonnes of carbon annually. By comparison, the world's population has emitted 4.9 gigatonnes of carbon per year over the past 10 years.

All in all, the researchers' findings can be used to understand the important role and promise of crop residues for carbon storage in the future.

However, Kristina Witzgall goes on to say that a variety of initiatives are needed to increase carbon sequestration, such as crops that can absorb atmospheric carbon and the restoration of lost forests.

### **Story Source:**

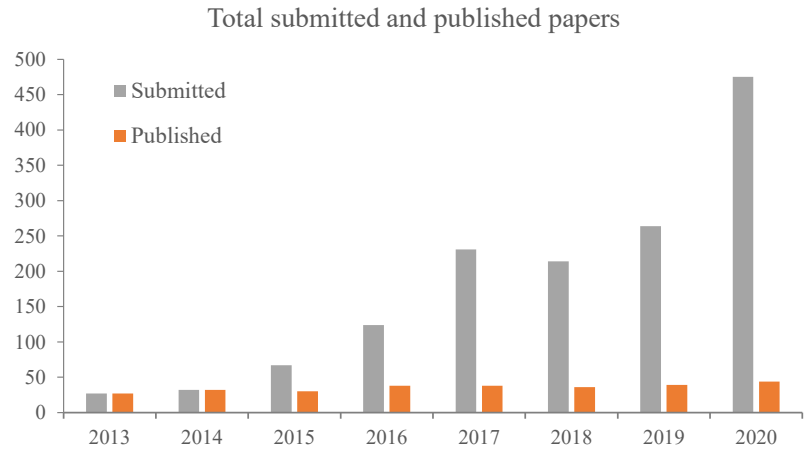
*Materials provided by University of Copenhagen - Faculty of Science. Note: Content may be edited for style and length.*

<https://www.sciencedaily.com/releases/2021/07/210712122126.htm>

## Updated submission data of ISWCR in June 2021

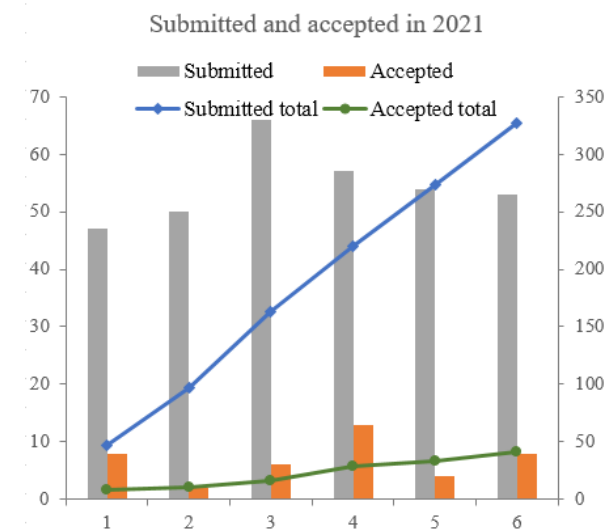
### Annual Volume of Submissions and Publishing since 2013

Year	Published	Submitted
2013	27	27
2014	32	32
2015	30	67
2016	38	124
2017	38	231
2018	36	214
2019	39	264
2020	44	475



### Monthly Submissions & Acceptance in the current year (2021)

Month	Submitted	Accepted
1	47	8
2	50	2
3	66	6
4	57	13
5	54	4
6	53	8



The International Soil and Water Conservation Research (ISWCR), initiated in June 2013, is a quarterly academic journal in English and publishes in Science Direct of Elsevier with open access globally. Since initiation, ISWCR has developed rapidly and established a good reputation in both international academia and publishing industry. It was indexed by Chinese Science Citation Database (CSCD) in April 2015, covered by SCOPUS in January 2017, and was indexed by Emerging Sources Citation Index (ESCI) of Clarivate Analytics in October 2017. In July 2019, ISWCR was officially indexed by SCIE. The Impact factor of ISWCR is 3.770 in 2019, and 6.027 in 2020.

## Contents of Issue 3, 2021 for ISWCR

---

### **Recent advances in assessment of soil erosion vulnerability in a watershed**

Shachi Pandey, Parmanand Kumar, Miodrag Zlatic, Raman Nautiyal, Vijender Pal Panwar

Pages 305-318

<https://www.sciencedirect.com/science/article/pii/S2095633921000216>

### **A hillslope version of the revised Morgan, Morgan and Finney water erosion model**

**Geert Sterk**

Pages 319-332

<https://www.sciencedirect.com/science/article/pii/S2095633921000149>

### **Is the runoff coefficient increasing or decreasing after ecological restoration on China's Loess Plateau?**

Haiyan Zheng, Chiyuan Miao, Guanghui Zhang, Xiaoyan Li, ... Jiaojiao Gou

Pages 333-343

<https://www.sciencedirect.com/science/article/pii/S2095633921000435>

### **Advantages and disadvantages of terracing: A comprehensive review**

Chuxiong Deng, Guangye Zhang, Yaojun Liu, Xiaodong Nie, ... Damei Zhu

Pages 344-359

<https://www.sciencedirect.com/science/article/pii/S2095633921000228>

### **Soil conservation and sustainable development goals(SDGs) achievement in Europe and central Asia: Which role for the European soil partnership?**

Hakkı Emrah Erdogan, Elena Havlicek, Carmelo Dazzi, Luca Montanarella, ... Ronald Vargas

Pages 360-369

<https://www.sciencedirect.com/science/article/pii/S2095633921000204>

### **How to model the effect of mechanical erosion control practices at a catchment scale?**

Elizeu Jonas Didoné, Jean Paolo Gomes Minella, Daniel Gustavo Allasia Picilli

Pages 370-380

<https://www.sciencedirect.com/science/article/pii/S2095633921000174>

### **Small dams/reservoirs site location analysis in a semi-arid region of Mozambique**

António dos Anjos Luís, Pedro Cabral

Pages 381-393

<https://www.sciencedirect.com/science/article/pii/S2095633921000198>

### **Seasonal changes of soil erosion and its spatial distribution on a long gentle hillslope in the Chinese Mollisol region**

Lei Wang, Fenli Zheng, Gang Liu, Xunchang J. Zhang, ... Xujun Liu

Pages 394-404

<https://www.sciencedirect.com/science/article/pii/S2095633921000186>

### **Characteristics of unsaturated soil slope covered with capillary barrier system and deep-rooted grass under different rainfall patterns**

Yangyang Li, Alfredo Satyanaga, Harianto Rahardjo

Pages 405-418

<https://www.sciencedirect.com/science/article/pii/S2095633921000241>

### **The soil configuration on granite residuals affects Benggang erosion by altering the soil water regime on the slope**

Xiaoqian Duan, Yusong Deng, Yu Tao, Yangbo He, ... Jiazhou Chen

Pages 419-432

<https://www.sciencedirect.com/science/article/pii/S209563392100023X>

### **Soil erosion assessment by RUSLE with improved P factor and its validation: Case study on mountainous and hilly areas of Hubei Province, China**

Pei Tian, Zhanliang Zhu, Qimeng Yue, Yi He, ... Muxing Liu

Pages 433-444

<https://www.sciencedirect.com/science/article/pii/S2095633921000411>

**Generation of a long-term daily gridded precipitation dataset for the Upper Indus Basin (UIB) through temporal Reconstruction, Correction & Informed Regionalization-“ReCIR”**

Asim Jahangir Khan, Manfred Koch

Pages 445-460

<https://www.sciencedirect.com/science/article/pii/S2095633921000150>

**In-depth analysis of soil management and farmers’ perceptions of related risks in two olive grove areas in southern Spain**

José A. Gómez, Ana Sánchez Montero, Gema Guzmán, María-Auxiliadora Soriano

Pages 461-473

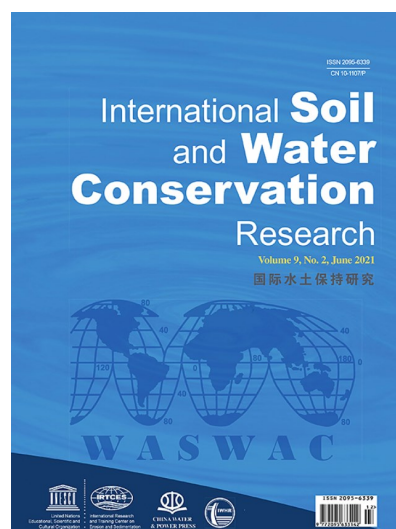
<https://www.sciencedirect.com/science/article/pii/S2095633921000137>

**Rainfall partitioning in young clonal plantations Eucalyptus species in a subtropical environment, and implications for water and forest management**

Décio Oscar Cardoso Ferreto, José Miguel Reichert, Rosane Barbosa Lopes Cavalcante, Raghavan Srinivasan

Pages 474-484

<https://www.sciencedirect.com/science/article/pii/S2095633921000034>



## Contents of Issue 4, 2021 for IJSR

Papers Published in the *International Journal of Sediment Research* Volume 36, No. 4, 2021  
Pages 449-565 (August 2021)

### 1. Interfacial instability of sand patterns induced by turbulent shear flow

Sk Zeeshan Ali, Subhasish Dey

Pages 449-456

### 2. Channel morphologic processes of a highly sinuous bend approaching neck cutoff by bank erosion in the middle Yangtze River

Zhiwei Li, Hanyuan Yang, Junqiang Xia, Meirong Zhou, Shanshan Deng, Yingzhen Wang

Pages 457-467

### 3. Effects of length and application rate of rice straw mulch on surface runoff and soil loss under laboratory simulated rainfall

Misagh Parhizkar, Mahmood Shabanpour, Manuel Esteban Lucas-Borja, Demetrio Antonio Zema, Siyue Li, Nobuaki Tanaka, Artemio Cerdà

Pages 468-478

### 4. Bioremediation perspective of historically contaminated sediment with polycyclic aromatic hydrocarbons

~~Snežana Maletić · Jelena Beljin · Dragana Tamindžija · Marko Grčić · Jelena Molnar Jazić · Marijana Kragulj Isakovski · Srđan Rončević~~

Pages 479-488

### 5. Multifractal features of the particle-size distribution of suspended sediment in the Three Gorges Reservoir, China

Jinlin Li, Xiubin He, Jie Wei, Yuhai Bao, Qiang Tang, Jean de Dieu Nambajimana, Gratien Nsabi-  
mana, Dil Khurram

Pages 489-500

## **6. Factors influencing the removal of fine non-cohesive sediment by vortex settling basin at small river abstraction works**

Kuria Kiringu, Gerrit Basson

Pages 501-511

## **7. Comparative study of multilayer perceptron-stochastic gradient descent and gradient boosted trees for predicting daily suspended sediment load: The case study of the Mississippi River, U.S.**

Sadra Shadkani, Akram Abbaspour, Saeed Samadianfard, Sajjad Hashemi, Amirhosein Mosvai, Shahab S. Band

Pages 512-523

## **8. Adsorption of cobalt by using inorganic components of sediment samples from water bodies**

Rocío Montes de Oca-Palma, Marcos Solache-Ríos, Melania Jiménez-Reyes, José Juan García-Sánchez, Perla Tatiana Almazán-Sánchez

Pages 524-531

## **9. Phosphate mineral accumulation in lake sediment to form a secondary phosphate source: A case study in lake sediment around Eppawala Phosphate Deposit (EPD) in Sri Lanka**

Nimila Dushyantha, Nalin Ratnayake, Hemalal Panagoda, Chulantha Jayawardena, Amila Sandaruwan Ratnayake

Pages 532-541

## **10. The settling of resuspended lake sediment related to physicochemical properties of particles of different sizes: Implication for environmental remediation**

Zhao Wei, Youze Xu, Yanyan Zhao, Yuanyuan Zhao, Leilei Bai, Helong Jiang, Changhui Wang

Pages 542-554

## **11. The effects of adsorptive materials on microbial community composition and PAH degradation at the sediment cap - water interface**

Giovanna Pagnozzi, Danny D. Reible, Kayleigh Millerick

Pages 555-565





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(Names are arranged in alphabetical order)