

The European School of Sustainability Science and Research (ESSSR)

Report

September 2018 – September 2020



Foreword



This report summarizes achievements of the *European School of Sustainability Science and Research* – in short: ESSSR – by looking back on the past two years of its operations. From a nucleus of 12 founding members at the beginning in 2018, the School has grown to a powerful European consortium comprising more than 50 higher education institutions. The network, with members from a total of 19 European countries to date, seeks to infuse sustainability science into research and teaching. Over the first two years, ESSSR organized a large number of scientific events, and its members produced an impressive amount of publications published in peer-reviewed journals, as well as books. ESSSR also runs a dedicated PhD programme, and is developing a new Master’s programme which is expected to be implemented in the near future.

On the following pages, we briefly summarize the key achievements during the first two years.

As we celebrate our second anniversary, we would like to thank HAW Hamburg for providing the resources necessary to get it started. We also express our gratitude to our partners across Europe, for the hard work and for their support to ESSSR, which is now playing a key role in the implementation of the United Nations’ Sustainable Development Goals.

We look very forward to continue working on sustainability related matters within the framework of the School, and avail ourselves for further information. I hope that you may continue to support ESSSR.

Prof. Dr. (mult.) Dr. h.c. (mult.) Walter Leal

Chairman, European School of Sustainability Science and Research

*Head of the Research and Transfer Centre “Sustainability and Climate Change Management”
(FTZ-NK) at the Hamburg University of Applied Sciences*

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1. Introduction

The European School of Sustainability Science and Research, ESSSR in short, has been brought to life based on the perceived need to explore new ideas, develop new approaches and new methods in the field of sustainability science, to meet current and future needs. **Founded in September 2018 at the Hamburg University of Applied Sciences, the School is an inter-university consortium composed by members which share an interest on sustainability science and on matters related to sustainable development.** It is a key organization, filling in a gap in respect of the coordination of sustainability science teaching and research at European universities seen today (see also box below).

ESSSR's Mission

“To provide a framework upon which teaching and research within the remit of sustainability science may be further developed at European universities, by means of joint, digitally-oriented teaching programmes, research projects, PhD training and quality scientific publications to be published in high calibre journals”.

To kick-start its operations, the School has received seed funding from HAW Hamburg. This was meant to support the set up and operations of ESSSR over the first 24 months. The eleven founding members of the university consortium, which is chaired by Prof Walter Leal, Head of the Research and Transfer Centre “Sustainability and Climate Change Management” (FTZ-NK), met in early 2019 for the inauguration of the School. During this official event, the cornerstones of cooperation and the schedule for the following 24 months were agreed upon. ESSSR undertake activities focusing on these four areas:

- (1) **Capacity-building:** Courses on sustainability science, especially online ones, hence furthering the digitalisation of teaching and learning
- (2) **Attract third party funding:** Develop joint research projects on sustainability science
- (3) **Knowledge transfer:** Research publications on sustainability science
- (4) **Promotion of young talents:** Joint training of PhD students on sustainability science, as well as post-doctoral positions and fellowships

The main activities per category are documented further on the following pages. They reflect the successful operation and manifold achievements of ESSSR, which is currently by 54 European member universities.

1.1 ESSSR team and scientific support

The ESSSR Team consists of its founder **Prof. Dr. Walter Leal** as well as four scientific employees

- **Franziska Wolf**, Deputy Head and EU-Project Manager
- **Natalie Parfeniuk**, EU-Project Manager
- **Nico Ulmer**, EU-Project Manager
- **Cintia Nunes**, EU-Project Manager

All of the scientific employees are involved in the administration of ESSSR, correspondences with existing as well as potential new members, preparations of publications, and project applications. For the past two years, the ESSSR has been working with the following young researchers:

- **Fernanda Frankenberger**, PhD Candidate
- **Amanda Lange Silva**, PhD Candidate
- **Barbara Fritzen Gomez**, PhD Candidate
- **Claudio Ruy Portela de Vasconcelos**, PhD candidate
- **Luana Damke**, PhD candidate

The School has received many applications and will continue to support young sustainability researchers, also over the next years.

1.2 ESSSR Futures

ESSSR is embarking on a **major drive to foster sustainability research in Europe** and, through initiatives such as the *World Sustainable Development Teach in Day* (see Page 8, Box 1), **around the world**. Titled “**ESSSR Futures**” and to be undertaken over the period 2020-2030, the new initiative consists of joint bidding led by ESSSR in cooperation with its members, for a variety of research projects on matters related to sustainable development, to be funded by national, European and non-European sources. Along with its members, **ESSSR intends to fill in the many research gaps seen in the field of sustainability research today**. Between 2020 and 2030, **ESSSR intends to mobilise Euro 60 million in research funding**, to be shared across the partnership. Both the ESSSR Coordinating Office in Hamburg, Germany, and its members spread across Europe, initiate and participate in sustainability related research projects – those projects and the many publications in peer-reviewed journals deriving from them, providing a solid and long-lasting contribution towards the achievements of the Sustainable Development Goals.

1.3 Current state of membership

After 2 years of existence, **the ESSSR network now consists of 54 members**: Its original 11 founding members as well as 43 associate members (as of 28.8.2020, see Figure 1 for European outreach) in 19 European countries. The ESSSR members meet biannually to report on achievements, consolidate activities, and initiate common research projects and exchange experiences and best practices in the field of sustainability science.



Figure 1: Location of ESSSR Members in Europe
(Source: Map: © OpenStreetMap contributors)

2. ESSSR’s key action areas

The following sections present ESSSR’s activities and initiatives in the course of the last two years, and includes ESSSR Publications, the programme PhD by publications, as well as the Master degree in Sustainable Development Goals Implementation (MSDGI), currently in preparation.

2.1 ESSSR publications

Publications are a significant tool to draw attention to ESSSR as well as to transfer research results. From the beginning of ESSSR in 2018 until August 2020, ESSSR and its members managed to publish a total of 38 papers in renowned Journals such as the International Journal of Sustainability in Higher Education, and the Journal of Cleaner Production, among others (see Annex). Furthermore, 12 books building the series “Concise Guides to the United Nations Sustainable Development Goals” were published through Emerald Publishing Limited, led by the ESSSR team and partners. The detailed list of all publications can be seen on the ESSSR website: <https://esssr.eu/publications/>.

2.2 PhD by publications

During the kick off meeting in 2019, Prof. Liz Price from Manchester Metropolitan University (MMU), United Kingdom, presented the **ESSSR PhD Programme**, which offers experienced sustainability researchers an opportunity to obtain a PhD degree over the **PhD by Publication Track** of MMU. Such a model stipulates the supervision on the part of both MMU academic and further ESSSR members. The programme is specifically tailored to personnel working at universities (lecturers, associate professors, assistant professors), who do not yet have a PhD. In order to be able to get accepted to the ESSSR PhD programme, candidates need to possess a Master’s degree, previous publishing experience as well as at

least five years working experience. Tuition fees apply. As of August 2020, ESSSR received more than 100 expressions of interest, and the first PhD students have enrolled in the programme.

2.3 Master degree in Sustainable Development Goals Implementation (MSDGI)

The University of Malta, together with Manchester Metropolitan University, is developing a **Masters** programme on “**Sustainable Development Goals Implementation**” (**MSDGI**) within the auspices of ESSSR. The development of this **Masters** programme stems from one of the main aims of the ESSSR: *to contribute to the education of next generation of sustainability scientists, by means of on-line courses and joint PhD programmes on sustainability science*. The study course will be chiefly run through digital learning units, additionally supported by Summer Schools. Among the lectures, developers and Master programme coordinators there are various members of the ESSSR, managed by the University of Malta. In total, six ESSSR member universities are involved in creating this online Master’s program as shown in Table 1. The programme is expected to commence and welcome its first national and international students from October 2021.

Table 1: Overview of thematic modules of the ESSSR Master Programme

Unit	Name of the Unit	Contributing University
1	An introduction to the SDGs	Manchester Metropolitan University (MMU)
2	Principles of Sustainable Development	Šiauliai University
3	Humans Society and the Environment	University of Malta (UoM)
4	Achieving the SDGs through education	UoM
5	Management and planning for SDGs	MMU
6	Sustainable Development–Public administration, Good governance, human rights, Legislation	CBS International Business School
7	Implementation Strategies and Case Studies	Aristotle University
8	Research Methods	Turkish Education Association University / MMU / UoM
Thesis		ALL

2.4 Initiatives in 2019

ESSSR has been working on a number of initiatives, namely developing successful projects such as the Horizon 2020 project “*Bio-Plastics Europe*”. It has also organised digital events such as the *Worldwide Online Climate Conferences (Climate2020)* and as well as produced numerous project applications

submitted to Horizon 2020, EuropeAid and ERASMUS+, among others. Table 2 presents a short summary. ESSSR members are prioritized in any new project application and are involved in the proposal writing according to their response and expertise.

Table 2: Projects, applications and initiatives by ESSSR

Projects / ESSSR involvement	ESSSR applications
Online Conference CLIMATE2020 (Hamburg Open Online University, GIZ)	2 <i>Connect</i> applications (digital learning)
2 Erasmus+ applications (SD-CoHErence; SD Competence Framework)	2 <i>Horizon</i> Calls (Coastal Mgt; Microplastics)
Zukunft Umwelt Gesellschaft (ZUG): integrating Climate Change in German school curricula	German DAAD HEI Excellence Initiative
German Federal Environmental Foundation (DBU); Symposium Language +Sustainability)	European Climate Initiative (sust. Transport)

Table 3 presents a summary of the Symposia organized by ESSSR in 2019 within the *Accelerating Sustainable Development Series*, taking place all the way from Brazil, India and up to Fiji.

Table 3: Symposia organized by ESSSR in 2019

Symposia - Accelerating Sustainable Development Series	Place	Date
Sustainability Reporting in Higher Education	Scotland, UK	14./15.03.2019
International Symposium on Climate Change and the Role of Education	Lincoln, UK	12./13.04.2019
2nd World Symposium on Sustainability Science and Research	Curitiba, Brazil	01. - 03.04.2019
Climate Change and the Hydrological Regime	Novi Sad, Serbia	26. - 28.06.2019
Accelerating the Implementation of SD in Research Programmes	Turin, Italia	01./02.07.2019
Universities and Climate Change: Understanding and managing the extreme impacts of climate change	Warsaw, Poland	04. /05.07.2019
2nd Symposium on Climate Change Adaptation in the Pacific Region	Lautoka, Fiji	21./22.08.2019
Accelerating the Implementation of SD in the Curriculum	Stockholm, Sweden	10. - 11.09.2019
3rd World Symposium on Climate Change Adaptation	Akure, Nigeria	11. - 13.09.2019
Accelerating the Implementation of SD in Campus Activities and Programmes	La Coruna, Spain	02./03.12.2019
Sustainable Development Symposium in the Asia-Pacific	M.I.T.S Gwalior, India	19. - 21.12.2019

2.5 Initiatives in 2020

Due to the COVID 19 situation, which has restricted presence meetings, only a fraction of the planned meetings and symposia for 2020 was conducted. Among these, the most successful ones were the “Worldwide Online Climate Conference CLIMATE2020” with 3,000 delegates, the 5th World Symposium on Sustainable Development at Universities, held in the frame of the the BUP Symposium 2020: Innovation and Research for a Sustainable Baltic Region on 27-28 August 2020, and the Hamburg Sustainability Session #01 on Decarbonisation of the Industry in cooperation with Ernst & Young. For late 2020, ESSR develops a global initiative, the “World Sustainable Development Teach-In Day”, a decade-long movement to foster sustainability all over the world (see Box 1).

Box 1: Word Sustainable Development Teach-In Day

The World Sustainable Development Teach in Day 2020

(WSDTID) is a major online event that aims to accelerate progress towards achieving the UN Sustainable Development Goals (SDGs) at the grassroots level by focusing on sustainable education. It seeks to **infuse sustainability thinking into current education systems** and inspire current and future students by reorienting educational practices and also to mobilize and equip teachers with **solid, hands-on knowledge about the SDGs** so that they can integrate this into their curriculum/teaching. The event adopts an **open access format**, thereby facilitating networking and knowledge transfer within a truly international, digital learning environment.

Academic staff from universities all over the world are encouraged to partake in this global sustainability movement by contributing presentation slides designed in an open educational resources (OER) style, prepared in **English, German, French, Portuguese or Spanish** language and related to any of the four categories listed below. The presentations will then be collated and made accessible in the WSDTID website [Digital Learning for Sustainable Development](#). As of 8/2020, more than 200 contributions from all over the world were submitted, the action is expected to reach tens of thousands of participants worldwide.



Figure 2: The WSDTID Logo

2.6 Outreach

The ESSSR team regularly reaches out to members considering new calls, bids and opportunities for collaboration. Communication happens via Email, biannual newsletters, a dedicated LinkedIn Page with more than 100 followers (as of 8/2020, see Figure 3) as well as biannual Board meetings.

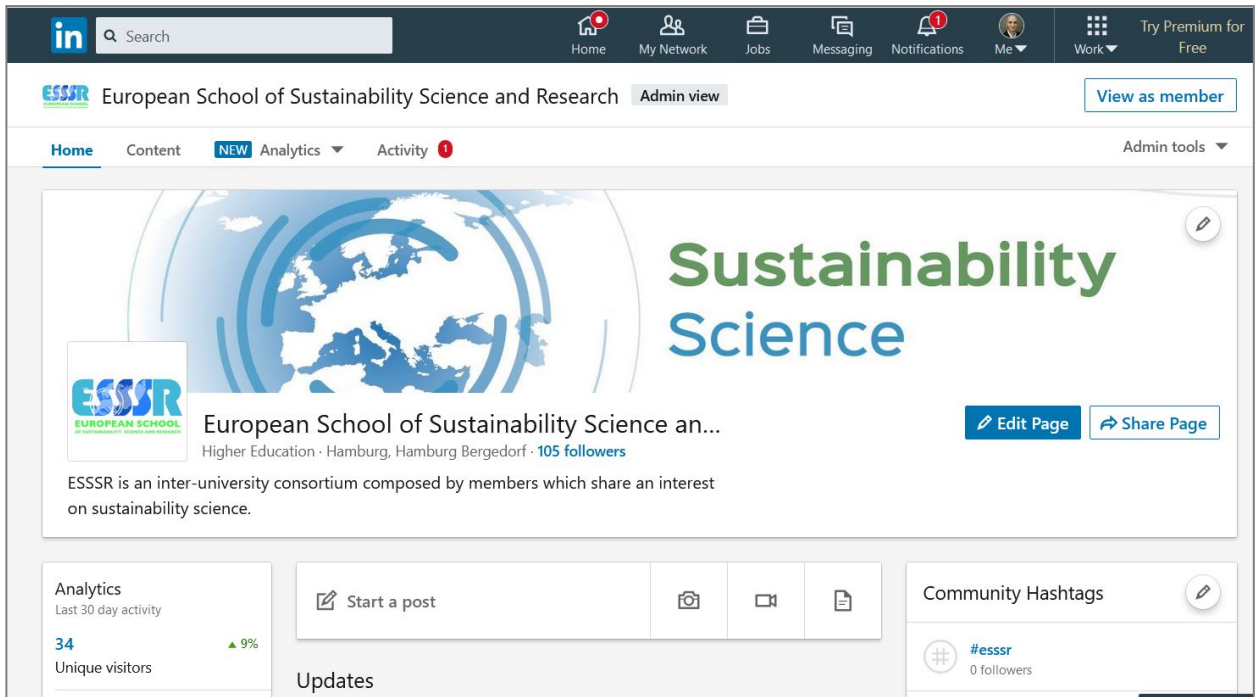


Figure 3: ESSSR's LinkedIn page with 105 followers

During the biannual board meetings, ESSSR presents current developments, and invites all its members to join and share their work and developments during the last six months as well. Due to the COVID19 situation, the last Board Meeting took place online in March 2020, which is also be the case for the board meeting held in September 2020.

3. Outlook

ESSSR will continue its operations also from 2021 onwards in its key areas of activity, contributing to the development of new approaches and new methods in the field of sustainability science at the local, national, regional and international levels, in order to meet current and future needs.

After two years, however, ESSSR has to adapt to the changing conditions, meaning transforming itself into a self-sufficient entity. First and foremost, this will take place through attracting new project funding, but

also further opportunities will be explored, e.g. sponsored events, introducing a sustainability label, and membership fees.

As founding member of the brandnew “Deutsche Gesellschaft für Nachhaltigkeit an Hochschulen“ (since 2020), the School will also actively try to infuse more sustainability thinking into higher education.

4. Contact

For further information regarding the ESSSR contact the ESSSR team under ESSSR@ls.haw-hamburg.de or visit the following web site <https://esssr.eu/>

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Annex

#	Paper	Author	Journal	Year
1	Sustainable development policies as indicators and pre-conditions for sustainability efforts at universities: Fact or fiction?	Walter Leal Filho, Luciana Londero Brandli, Deisi Becker, Constantina Skanavis, Aristeia Kounani, Chrysoula Sardi, Dimitra Papaioannidou, Arminda Paço, Ulisses Azeiteiro, Luiza Olim de Sousa, Schalk Raath, Rudi Wessel Pretorius, Christine Shiel, Valeria Vargas, Gregory Trencher, Robert W. Marans	International Journal of Sustainability in Higher Education	2018-01-02
2	The role of higher education in promoting sustainable agriculture	Piotr Prus	Journal of East European Management Studies (JEEMS)	2018-07-18
3	Using the sustainable development goals towards a better understanding of sustainability challenges	W. Leal Filho, S. K. Tripathi, J. B. S. O. D. Andrade Guerra, R. Giné-Garriga, V. Orlovic Lovren, J. Willats	International Journal of Sustainable Development & World Ecology	2018-08-01
4	The role of transformation in learning and education for sustainability	W. Leal Filho, S. Raath, B. Lazzarini, V.R. Vargas d, L. de Souza, R. Anholon, O.L.G. Quelhas, R. Haddad, M. Klavins, V.L. Orlovic	Journal of Cleaner Production	2018-10-20
5	Handbook of Climate Change Resilience	Walter Leal Filho	Springer Nature Switzerland AG 2020	2019
6	Encyclopedia of Sustainability in Higher Education	Walter Leal Filho	Springer Nature Switzerland AG	2019
7	Climate Change, Health and Mosquito-Borne Diseases: Trends and Implications to the Pacific Region	Walter Leal Filho, Svenja Scheday, Juliane Boenecke, Abhijit Gogoi, Anish Maharaj, and Samuela Korovou	International Journal of Environmental Research and Public Health	2019
8	About the triggering of UN sustainable development goals and regenerative sustainability in higher education	Giulia Sonetti, Martin Brown and Emanuele Naboni	Sustainability	2019-01-07
9	Effect of transnational climate networks on climate experiments: the Nilüfer Municipality	Neslihan Kulozu Uzunboy	Environment, Development and Sustainability	2019-02-23

10	An integrated approach to assess the vulnerability to erosion in mangroves using GIS models in a tropical coastal protected area	José Guilherme Moreira Simões Vieira, Joana Salgueiro, Amadeu Mortágua Velho da Maia Soares, Ulisses Azeiteiro, Fernando Morgado	Emerald	2019-03-08
11	The integration of social responsibility and sustainability in practice: Exploring attitudes and practices in Higher Education Institutions	Walter Leal Filho, Federica Doni, Valeria Ruiz Vargas, Tony Wall, Ann Hindley, Lez Rayman-Bacchus, Kay Emblen-Perry, Jennifer Boddy, Lucas Viega Avila	Journal of Cleaner Production	2019-05-20
12	Climate Change Scepticism at Universities: A Global Study	Walter Leal Filho, Mark Mifsud, Petra Molthan-Hill, Gustavo J. Nagy, Lucas Veiga Ávila, and Amanda Lange Salvia	Sustainability	2019-05-25
13	Implementing Innovation on Environmental Sustainability at Universities Around the World	Walter Leal Filho, Kay Emblen-Perry, Petra Molthan-Hill, Mark Mifsud, Leendert Verhoef, Ulisses Miranda Azeiteiro, Paula Bacelar-Nicolau, Luiza Olim de Sousa, Paula Castro, Ali Beynaghi, Jennifer Boddy, Amanda Lange Salvia, Fernanda Frankenberger, and Elizabeth Price	Sustainability	2019-07-11
14	Climate change education for universities: A conceptual framework from an international study	Petra Molthan-Hill, Nicholas Worsfold, Gustavo J. Nagy, Walter Leal Filho, Mark Mifsud	Journal of Cleaner Production	2019-07-20
15	Flipped Classroom as an Active Learning Methodology in Sustainable Development Curricula	Marian Buil-Fabregá, Matilde Martínez Casanovas, Noemí Ruiz-Munzón and Walter Leal Filho	Sustainability	2019-08-23
16	Barriers and challenges to plastics valorisation in the context of a circular economy: case studies from Italy	Angelo Paletta, Walter Leal Filho, Abdul-Lateef Balogun, Eleonora Foschi, Alessandra, Bonoli	Journal of Cleaner Production	2019-08-27
17	Sustainable Development Goals and sustainability teaching at universities: Falling behind or getting ahead of the pack?	Walter Leal Filho, Chris Shiel, Arminda Paço, Mark Mifsud, Lucas Veiga Ávila, Luciana Londero Brandli, Petra Molthan-Hill, Paul Pace, Ulisses M. Azeiteiro, Valeria Ruiz Vargas, Sandra Caeiro	Journal of Cleaner Production	2019-09-20
18	Aktuelle Ansätze zur Umsetzung der UN-Nachhaltigkeitsziele	Walter Leal Filho	Springer-Verlag GmbH Deutschland	2019-10
19	Analysis of emerging technologies in the hydropower sector	Ioannis Kougias, George Aggidis, François Avellan, Sabri Deniz, Urban Lundin, Alberto Moro, Sebastian Muntean, Daniele Novara, Emanuele Quaranta and Nicolaos Theodossiou	Renewable and Sustainable Energy Reviews	2019-10
20	The role of higher education institutions in sustainability initiatives at the local level	Walter Leal Filho, Valeria Ruiz Vargas, Amanda Lange Salvia, Luciana Londero Brandli, Eric Pallant, Maris Klavins, Subhasis Ray, Sara Moggi, Marija Maruna, Elisa Conticelli, Martin Amogre Ayanore, Vesela	Journal of Cleaner Production	2019-10-01

		Radovic, Bhumika Gupta, Salil Sen, Arminda Paço, Eleni Michalopoulou, Fiffy Hanisdah Saikim, Hock Lye Koh, Fernanda Frankenberger, Wasan Kanchanamukda, Dênis Antônio da Cunha, Noor Adelyna Mohammed Akib, Amelia Clarke, Tony Wall, Mentore Vaccari		
21	Higher Education Institutions as a Transformation Platform under the Sustainable Development Goals Framework	Inés López López, Marcos Bote, Longinos Marín Rives, Alicia Rubio Bañón	European Journal of Sustainable Development	2019-10-01
22	A comparative study of approaches towards energy efficiency and renewable energy use at higher education institutions	Walter Leal Filho, Amanda Lange Salvia, Arminda do Paço, Rosley Anholon, Osvaldo Luiz Gonçalves Quelhas, Izabela Simon Rampasso, Artie Ng, Abdul-Lateef Balogun, Bozhil Kondev, Luciana Londero Brandli	Journal of Cleaner Production	2019-11-10
23	Sustainable Practices in Logistics Systems: An Overview of Companies in Brazil	Vitor W. B. Martins, Rosley Anholon, Osvaldo L. G. Quelhas and Walter Leal Filho	Sustainability	2019-11-10
24	The contribution of Regional Centers of Expertise for the implementation of the 2030 Agenda for Sustainable Development	Kalterina Shulla, WalterLeal Filho, Salim Lardjane, Jan Henning Sommer, Amanda Lange Salvia, Christian Borgemeister	Journal of Cleaner Production	2019-11-10
25	Assessing the Impacts of Climate Change in Cities and their Adaptive Capacity: towards transformative approaches to climate change adaptation and poverty reduction in urban areas in a set of developing countries	Walter Leal Filho, Abdul-Lateef Balogun, Olawale Emmanuel Olayide, Ulisses M. Azeiteiro, Desalegn Y. Ayal, Pastor David Chavez Muñoz, Gustavo J.Nagy, Paulette Bynoe, Otienoh Oguge, N. Yannick Toamukum, Mustafa Saroar, Chunluan Li	Science of The Total Environment	2019-11-20
26	Good Health and Well-Being	Leal Filho, W., Wall, T., Azul, A.M., Brandli, L., Özuyar, P.G.	Springer	2020
27	Indigenous Amazonia, Regional Development and Territorial Dynamics	Leal Filho, Walter, King, Victor T., Borges de Lima, Ismar	Springer	2020
28	Active emigration from climate change-caused seawater intrusion into freshwater habitats	C. Venâncio, R. Ribeiro, I. Lopes	Environmental Pollution	2020
29	Managing Climate Change Adaptation in the Pacific Region	Walter Leal Filho (Ed.)	Springer	2020
30	The influence of salinization on seed germination and plant growth under mono and polyculture	CátiaVenâncio, Ruth Pereira, IsabelLopes	Environmental Pollution	2020-01-14

31	Impact of Nitrogen Fertigation on Watermelon Yield Grown on the Very Light Soil in Poland	Rolbiecki, R., Rolbiecki, S., Piszczek, P., Figas, A., Jagosz, B., Ptach, W., Prus, P., Kazula, M.J.	Agronomy	2020-02-02
32	Viewpoint: accelerating the implementation of the SDGs	Walter Leal Filho	Emerald Insight	2020-03
33	Sustainability Leadership in Higher Education Institutions: An Overview of Challenges	Walter Leal Filho, João Henrique Paulino Pires Eustachio, Adriana Cristina Ferreira Caldana, Markus Will, Amanda Lange Salvia, Izabela S. Rampasso, Rosley Anholon, Johannes (Joost) Platje, and Marina Kovaleva	Sustainability	2020-05-06
34	Sustainable development education in the context of the 2030 Agenda for sustainable development	K. Shulla, W. Leal Filho, S. Lardjane, J. H. Sommer & C. Borgemeister	International Journal of Sustainable Development & World Ecology	2020-06
35	Public Policies for Just Transition: Local Content, Employment, and Human Capital	Stella Tsani	SpringerLink	2020-06-01
36	COVID-19 and the UN Sustainable Development Goals: Threat to Solidarity or an Opportunity?	Walter Leal Filho, Luciana Londero Brandli, Amanda Lange Salvia, Lez Rayman-Bacchus, Johannes Platje	Sustainability	2020-07-01
37	Sovereign Wealth Funds and Public Financing for Climate Action	Stella Tsani, Indra Overland	SpringerLink	2020-07-15
38	Heading Towards an Unsustainable World: Some of the Implications of not achieving the SDGs	Walter Leal Filho, Franziska Wolf, Amanda Lange Salvia, Ali Beynaghi, Kalterina Shulla, Marina Kovaleva , Claudio R. P. Vasconcelos	Discover Sustainability	2020-09-04