

LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : JURNAL ILMIAH

Judul Jurnal Ilmiah (Artikel) : Sustainable Solid Waste Management Strategies for Higher Education Institutions: Diponegoro University, Indonesia Case Study

Jumlah Penulis : 6 orang (Mochamad Arief Budihardjo, Natasya Ghinna Humaira, Soraya Annisa Putri, Bimastyaji Surya Ramadan, Syafrudin Syafrudin and **Eflita Yohana**)

Status Pengusul : penulis Ke-6

Identitas Jurnal Ilmiah :

- a. Nama Jurnal : Sustainability
- b. Nomor ISSN : 2071-1050
- c. Vol, No., Bln Thn : Volume 13, Issue 23, 2021
- d. Penerbit : MDPI
- e. DOI artikel (jika ada) : <https://doi.org/10.3390/su132313242>
- f. Alamat web jurnal : <https://www.mdpi.com/2071-1050/13/23/13242>
- Alamat Artikel : https://mdpi-res.com/d_attachment/sustainability/sustainability-13-13242/article_deploy/sustainability-13-13242.pdf
- g. Terindex : Scopus, Q1

Kategori Publikasi Jurnal Ilmiah : ☒ Jurnal Ilmiah Internasional
 (beri ✓ pada kategori yang tepat) ☐ Jurnal Ilmiah Nasional Terakreditasi
☐ Jurnal Ilmiah Nasional Tidak Terakreditasi

Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Reviewer		Nilai Rata-rata
	Reviewer I	Reviewer II	
a. Kelengkapan unsur isi jurnal (10%)	4,00	3,50	3,75
b. Ruang lingkup dan kedalaman pembahasan (30%)	12,00	11,00	11,50
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	11,00	11,00	11,00
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	12,00	11,50	11,75
Total = (100%)	39,00	37,00	38,00
Nilai Pengusul = (40% x 38,00)/5 = 3,04			

Semarang,

Reviewer 2



Prof. Dr. Ir. Hadiyanto, S.T., M.Sc., IPU
 NIP. 197510281999031004
 Unit Kerja : Departemen T.Kimia FT UNDIP

Reviewer 1



Prof. Dr. Moh. Djaeni, S.T., M.Eng.
 NIP. 197102071995121001
 Unit Kerja : Departemen T.Kimia FT UNDIP

LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : JURNAL ILMIAH

Judul Jurnal Ilmiah (Artikel) : Sustainable Solid Waste Management Strategies for Higher Education Institutions: Diponegoro University, Indonesia Case Study

Jumlah Penulis : 6 orang (Mochamad Arief Budihardjo, Natasya Ghinna Humaira, Soraya Annisa Putri, Bimastyaji Surya Ramadan, Syafrudin Syafrudin and **Eflita Yohana**)

Status Pengusul : penulis Ke-6

Identitas Jurnal Ilmiah :

a. Nama Jurnal	: Sustainability
b. Nomor ISSN	: 2071-1050
c. Vol, No., Bln Thn	: Volume 13, Issue 23, 2021
d. Penerbit	: MDPI
e. DOI artikel (jika ada)	: https://doi.org/10.3390/su132313242
f. Alamat web jurnal	: https://www.mdpi.com/2071-1050/13/23/13242
Alamat Artikel	: https://mdpi-res.com/d_attachment/sustainability/sustainability-13-13242/article_deploy/sustainability-13-13242.pdf
g. Terindex	: Scopus, Q1

Kategori Publikasi Jurnal Ilmiah : ☒ Jurnal Ilmiah Internasional
 (beri ✓ pada kategori yang tepat) ☐ Jurnal Ilmiah Nasional Terakreditasi
☐ Jurnal Ilmiah Nasional Tidak Terakreditasi

Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Maksimal Jurnal Ilmiah			Nilai Akhir Yang Diperoleh
	Internasional	Nasional Terakreditasi	Nasional Tidak Terakreditasi	
	40	☐	☐	
a. Kelengkapan unsur isi jurnal (10%)	4,00			4,00
b. Ruang lingkup dan kedalaman pembahasan (30%)	12,00			12,00
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	12,00			11,00
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	12,00			12,00
Total = (100%)	40,00			39,00
Nilai Pengusul = (40% x 39,00)/5 = 3,12				

Catatan Penilaian artikel oleh Reviewer :

1. Kesesuaian dan kelengkapan unsur isi jurnal:

Penulisan artikel telah sesuai dengan ketentuan jurnal Sustainability, yang terdiri dari pendahuluan, metode dan alat, hasil, pembahasan, kesimpulan, dan referensi. Artikel telah sesuai dengan bidang ilmu pengusul/anggota penulis.

2. Ruang lingkup dan kedalaman pembahasan:

Artikel ini membahas secara detail penentuan strategi pengelolaan sampah di lingkungan kampus Universitas Diponegoro. Berdasarkan analisis, diperoleh bahwa pembentukan badan pengelolaan sampah, pengembangan infrastruktur, pemantauan pengelolaan sampah secara online, dan peningkatan kesadaran melalui sosial media merupakan langkah yang dapat dilakukan untuk mewujudkan pengelolaan sampah yang berkelanjutan di lingkungan kampus Undip. Data yang digunakan pada artikel ini sudah cukup lengkap yang meliputi data timbulan sampah di setiap unit di Universitas Diponegoro. Artikel ini dapat menjadi acuan pengelolaan sampah yang berkelanjutan pada lingkup perguruan tinggi. Pembahasan telah dilakukan secara mendalam dengan membandingkan dengan pengelolaan sampah di beberapa perguruan tinggi di luar negeri.

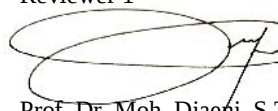
3. Kecukupan dan kemutakhiran data/informasi dan metodologi:

Metodologi pada artikel ini sudah sesuai dan mudah untuk dipahami. Data timbulan sampah di setiap unit beserta komposisinya juga disajikan termasuk jumlah mata kuliah yang mendukung sustainability, gender dan kepedulian sivitas akademika terhadap pengelolaan sampah, Artikel ini memiliki nilai kebaruan yang baik dengan 30 referensi dari total 39 referensi merupakan referensi yang mutakhir (kurang dari 10 tahun). Originalitas artikel ini ditunjukkan oleh Turnitin similarity index = 8%.

4. Kelengkapan unsur dan kualitas terbitan:

Jurnal ini diterbitkan oleh penerbit internasional bereputasi baik yang telah terindeks oleh SCOPUS dengan nilai H-indeks 85 dengan kualifikasi Q1, ISSN 2071-1050, dan SJR 0,61.

Semarang,
Reviewer 1



Prof. Dr. Moh. Djaeni, S.T., M.Eng.
NIP. 197102071995121001

Unit Kerja : Departemen T.Kimia FT UNDIP

LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : JURNAL ILMIAH

Judul Jurnal Ilmiah (Artikel) : Sustainable Solid Waste Management Strategies for Higher Education Institutions: Diponegoro University, Indonesia Case Study

Jumlah Penulis : 6 orang (Mochamad Arief Budihardjo, Natasya Ghinna Humaira, Soraya Annisa Putri, Bimastyaji Surya Ramadan, Syafrudin Syafrudin and **Eflita Yohana**)

Status Pengusul : penulis Ke-6

Identitas Jurnal Ilmiah :

a. Nama Jurnal	:	Sustainability
b. Nomor ISSN	:	2071-1050
c. Vol, No., Bln Thn	:	Volume 13, Issue 23, 2021
d. Penerbit	:	MDPI
e. DOI artikel (jika ada)	:	https://doi.org/10.3390/su132313242
f. Alamat web jurnal	:	https://www.mdpi.com/2071-1050/13/23/13242
Alamat Artikel	:	https://mdpi-res.com/d_attachment/sustainability/sustainability-13-13242/article_deploy/sustainability-13-13242.pdf
g. Terindex	:	Scopus, Q1

Kategori Publikasi Jurnal Ilmiah : ☒ Jurnal Ilmiah Internasional
 (beri ✓ pada kategori yang tepat) ☐ Jurnal Ilmiah Nasional Terakreditasi
☐ Jurnal Ilmiah Nasional Tidak Terakreditasi

Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Maksimal Jurnal Ilmiah			Nilai Akhir Yang Diperoleh
	Internasional	Nasional Terakreditasi	Nasional Tidak Terakreditasi	
	40	☐	☐	
a. Kelengkapan unsur isi jurnal (10%)	4,00			3,50
b. Ruang lingkup dan kedalaman pembahasan (30%)	12,00			11,00
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	12,00			11,00
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	12,00			11,50
Total = (100%)	40,00			37,00
Nilai Pengusul = (40% x 37,00)/5 = 2,96				

Catatan Penilaian artikel oleh Reviewer :

a) Kesesuaian dan kelengkapan unsur isi jurnal:

Artikel ini terdiri dari pendahuluan, peralatan dan metode, hasil, diskusi, kesimpulan, dan referensi. Kelengkapan unsur pada artikel sudah sangat baik, dan artikel disusun oleh pengusul/anggota penulis dengan bidang ilmu yang relevan.

b) Ruang lingkup dan kedalaman pembahasan:

Artikel ini membahas tentang strategi pengelolaan sampah dengan ruang lingkup lingkungan kampus Universitas Diponegoro. Data yang disajikan pada artikel ini cukup detail dan beragam dengan pembahasan yang sangat baik dan mudah dipahami. Artikel ini menunjukkan bahwa tingkat kesadaran civitas akademika memiliki pengaruh yang paling signifikan terhadap timbulan sampah yang dihasilkan di lingkungan kampus Undip, sehingga perlu adanya upaya pendukung untuk menciptakan praktik pengelolaan sampah yang berkelanjutan di lingkungan Undip, termasuk penggunaan sosial media untuk meningkatkan kesadaran lingkungan di kalangan mahasiswa. Hasil penelitian ini juga sesuai dengan penelitian sebelumnya tentang peningkatan kinerja pengelolaan sampah. Pembahasan dilakukan secara mendalam melalui kajian organisasi pengelola sampah, pengembangan fasilitas pengelolaan sampah, sistem pemantauan pengelolaan sampah dan peningkatan kesadaran civitas akademika.

c) Kecukupan dan kemutakhiran data/informasi dan metodologi:

Metodologi penelitian yang digunakan sudah jelas, dengan menggunakan data terbaru yang diambil di masa aktif perkuliahan. Data yang digunakan juga berasal dari survey dan sampling timbulan sampah di setiap unit. Artikel ini memiliki 30 referensi yang terbaru (kurang dari 10 tahun) dari total 39 referensi yang digunakan. Orisinalitas artikel ditunjukkan dengan Turnitin similarity index = 8%.

d) Kelengkapan unsur dan kualitas terbitan:

Jurnal ini merupakan jurnal internasional bereputasi dengan penerbit Multidisciplinary Digital Publishing Institute yang telah terindeks oleh SCOPUS, dengan ISSN 2071-1050, H indeks 85 dengan kualifikasi Q1, SJR 2020: 0,61.

Semarang,
 Reviewer 2

Prof. Dr. Ir. Hadiyanto, S.T., M.Sc., IPU
 NIP. 197510281999031004
 Unit Kerja : Departemen T.Kimia FT UNDIP



1 of 1

Download Print E-mail Save to PDF Add to List More... >

Sustainability (Switzerland) • Open Access • Volume 13, Issue 23 • December-1 2021 • Article number 13242

Document type

Article • Green Open Access

Source type

Journal

ISSN

20711050

DOI

10.3390/su132313242

View more ▾

Sustainable solid waste management strategies for higher education institutions: Diponegoro university, indonesia case study

Budihardjo M.A.^a ✉ , Humaira N.G.^b ✉ , Putri S.A.^b ✉ , Ramadan B.S.^b ✉ , Syafrudin S.^a ✉ , Yohana E.^c ✉

Save all to author list

^a Department of Environmental Engineering, Universitas Diponegoro, Semarang, 50275, Indonesia

^b Environmental Sustainability Research Group, Department of Environmental Engineering, Faculty of Engineering, Universitas Diponegoro, Semarang, 50275, Indonesia

^c Department of Mechanical Engineering, Faculty of Engineering, Universitas Diponegoro, Semarang, 50275, Indonesia

Full text options ▾ Export

Abstract

Author keywords

Indexed keywords

SciVal Topics

Metrics

Funding details

Abstract

Effective solid waste management strategies are recognized as efforts to achieve campus sustainability. The university campus is currently considered the center of various activities involving students, lecturers, staff, and other parties contributing to the consumption pattern of energy, water, and other resources. This study aims to estimate the quantity and compositions of waste generated on the

Cited by 0 documents

Inform me when this document is cited in Scopus:

Set citation alert >

Related documents

Integrated solid waste management strategy of a large campus: A comprehensive study on METU campus, Turkey

Bahçelioğlu, E. , Buğdaycı, E.S. , Doğan, N.B. (2020) *Journal of Cleaner Production*

Characterization of solid wastes as a tool to implement waste management strategies in a university campus

Nolasco, E. , Vieira Duraes, P.H. , Pereira Gonçalves, J. (2021) *International Journal of Sustainability in Higher Education*

Assessment of sustainable recycling at The University of Jordan

Moqbel, S. , Abu-Zurayk, R. , Bozeya, A. (2020) *International Journal of Sustainability in Higher Education*

View all related documents based on references

Find more related documents in Scopus based on:

Authors > Keywords >



Source details

Sustainability

Open Access ⓘ

Scopus coverage years: from 2009 to 2022

Publisher: Multidisciplinary Digital Publishing Institute (MDPI)

ISSN: 2071-1050

Subject area: Social Sciences: Geography, Planning and Development

Environmental Science: Environmental Science (miscellaneous)

Computer Science: Computer Science (miscellaneous)

Engineering: Building and Construction

View all ▾

Source type: Journal

View all documents >

Set document alert

Save to source list Source Homepage

CiteScore 2021
5.0 ⓘ

SJR 2021
0.664 ⓘ

SNIP 2021
1.310 ⓘ

CiteScore CiteScore rank & trend Scopus content coverage

Improved CiteScore methodology

CiteScore 2021 counts the citations received in 2018-2021 to articles, reviews, conference papers, book chapters and data papers published in 2018-2021, and divides this by the number of publications published in 2018-2021. [Learn more >](#)

CiteScore 2021 ▾

5.0 = $\frac{181,699 \text{ Citations 2018 - 2021}}{36,485 \text{ Documents 2018 - 2021}}$

Calculated on 05 May, 2022

CiteScoreTracker 2022 ⓘ

5.6 = $\frac{268,642 \text{ Citations to date}}{47,983 \text{ Documents to date}}$

Last updated on 05 January, 2023 • Updated monthly

CiteScore rank 2021 ⓘ

Category	Rank	Percentile
Social Sciences		
Geography, Planning and Development	#99/747	86th
Environmental Science		
Environmental Science (miscellaneous)	#20/133	85th

[View CiteScore methodology >](#) [CiteScore FAQ >](#) [Add CiteScore to your site ↗](#)

[Sign In / Sign Up \(/user/login\)](#)
[Submit \(https://susy.mdpi.com/user/manuscripts/upload?journal=sustainability\)](https://susy.mdpi.com/user/manuscripts/upload?journal=sustainability)

Search for Articles:

Advanced Search

[Journals \(/about/journals\)](#) / [Sustainability](#) /


Journal Description

Sustainability

Sustainability is an international, cross-disciplinary, scholarly, **peer-reviewed** (https://www.mdpi.com/editorial_process) and open access journal of environmental, cultural, economic, and social sustainability of human beings. It provides an advanced forum for studies related to sustainability and sustainable development, and is published semimonthly online by MDPI. The **Society for Urban Ecology (SURE)** (<https://www.society-urban-ecology.org/>), **Canadian Urban Transit Research & Innovation Consortium (CUTRIC)** (<http://cutric-crituc.org/>), and **International Council for Research and Innovation in Building and Construction (CIB)** (<https://cibworld.org/>), are affiliated with *Sustainability* and their members receive discounts of the article processing charge.

- **Open Access** (<https://www.mdpi.com/openaccess>) — free for readers, with **article processing charges (APC)** (<https://www.mdpi.com/journal/sustainability/apc>) paid by authors or their institutions.
- **High visibility:** indexed within **Scopus** (<https://www.scopus.com/sourceid/21100240100>), **SCIE and SSCI (Web of Science)** (https://mjl.clarivate.com/search-results?issn=2071-1050&hide_exact_match_fl=true&utm_source=mjl&utm_medium=share-by-link&utm_campaign=search-results-share-this-journal), **GEOBASE** (https://www.elsevier.com/solutions/engineering-village?utm_source=eiorg&utm_medium=redirect&utm_campaign=301&utm_content=/%3f), **Inspec** (<https://www.theiet.org/publishing/inspec/inspec-content-coverage/>), **AGRIS** (<https://agris.fao.org/agris-search/index.do>), **RePEc** (<https://ideas.repec.org/>), **CAPUS / SciFinder** (https://sso.cas.org/as/authorization.oauth2?response_type=code&client_id=scifinder-n&redirect_uri=https%3A%2F%2Fscifinder-n.cas.org%2Fpa%2Foidc%2Fcb&state=eyJ6aXAiOiJERUYiLCJhbGciOiJkaXIiLCJlbmMiOiJBMTI4Q0JDLUhTMjU2liwia2lkIjoianMiLCJzdWZmaX) and many **other databases** (<https://www.mdpi.com/journal/sustainability/indexing>).
- **Journal Rank:** **JCR** - Q2 (*Environmental Sciences*) / **CiteScore** - Q1 (*Geography, Planning and Development*)
- **Rapid Publication:** manuscripts are peer-reviewed and a first decision provided to authors approximately 15.4 days after submission; acceptance to publication is undertaken in 3.9 days (median values for papers published in this journal in the first half of 2021).
- **Recognition of Reviewers:** reviewers who provide timely, thorough peer-review reports receive vouchers entitling them to a discount on the APC of their next publication in any MDPI journal, in appreciation of the work done.
- **Testimonials:** See [what our authors say about Sustainability \(https://www.mdpi.com/authors/testimonials#Sustainability\)](https://www.mdpi.com/authors/testimonials#Sustainability).

[Vol. 12 \(2020\) \(/2071-1050/12\)](#)
[Vol. 11 \(2019\) \(/2071-1050/11\)](#)
[Vol. 10 \(2018\) \(/2071-1050/10\)](#)
[Vol. 9 \(2017\) \(/2071-1050/9\)](#)
[Vol. 8 \(2016\) \(/2071-1050/8\)](#)
[Vol. 7 \(2015\) \(/2071-1050/7\)](#)
[Vol. 6 \(2014\) \(/2071-1050/6\)](#)
[Vol. 5 \(2013\) \(/2071-1050/5\)](#)
[Vol. 4 \(2012\) \(/2071-1050/4\)](#)
[Vol. 3 \(2011\) \(/2071-1050/3\)](#)
[Vol. 2 \(2010\) \(/2071-1050/2\)](#)
[Vol. 1 \(2009\) \(/2071-1050/1\)](#)

 (/toggle_desktop_layout_cookie)
 




Affiliated Society:



https://serve.mdpi.com/www/my_files/cliik.php?oaparams=0bannerid=6010zoneid=4cb=61244c8436oad

Editorial Board

- **Editorial Board**
- **Environmental Sustainability and Applications Section** (/journal/sustainability/sectioneditors/environment_and_resources)
- **Social Ecology and Sustainability Section** (/journal/sustainability/sectioneditors/aspects_of_sustainability)
- **Economic and Business Aspects of Sustainability Section** (/journal/sustainability/sectioneditors/management_aspects_of_sustainability)
- **Sustainable Engineering and Science Section** (/journal/sustainability/sectioneditors/engineering_and_science)
- **Energy Sustainability Section** (/journal/sustainability/sectioneditors/energy_sustainability)
- **Sustainable Urban and Rural Development Section** (/journal/sustainability/sectioneditors/urban_and_rural_development)
- **Sustainable Agriculture Section** (/journal/sustainability/sectioneditors/agriculture_food_and_wildlife)
- **Sustainable Education and Approaches Section** (/journal/sustainability/sectioneditors/education_and_approaches)
- **Tourism, Culture, and Heritage Section** (/journal/sustainability/sectioneditors/culture_and_heritage)
- **Sustainable Chemical Engineering and Technology Section** (/journal/sustainability/sectioneditors/sustainablechemistry)
- **Sustainable Transportation Section** (/journal/sustainability/sectioneditors/Sustainable_Transportation)
- **Geography and Sustainability Section** (/journal/sustainability/sectioneditors/geography_sustainability)



Back to Top

- **Psychology of Sustainability and Sustainable Development Section** ([/journal/sustainability/sectioneditors/Psychology_Sustainable_Development](https://journal/sustainability/sectioneditors/Psychology_Sustainable_Development))
- **Resources and Sustainable Utilization Section** ([/journal/sustainability/sectioneditors/resources_sus_utilization](https://journal/sustainability/sectioneditors/resources_sus_utilization))
- **Air, Climate Change and Sustainability Section** ([/journal/sustainability/sectioneditors/climate_change_sustainability](https://journal/sustainability/sectioneditors/climate_change_sustainability))
- **Sustainability, Biodiversity and Conservation Section** ([/journal/sustainability/sectioneditors/sustainability_biodiversity_conservation](https://journal/sustainability/sectioneditors/sustainability_biodiversity_conservation))
- **Sustainable Food Section** ([/journal/sustainability/sectioneditors/food_sust](https://journal/sustainability/sectioneditors/food_sust))
- **Health and Sustainability Section** ([/journal/sustainability/sectioneditors/health_sus](https://journal/sustainability/sectioneditors/health_sus))
- **Hazards and Sustainability Section** ([/journal/sustainability/sectioneditors/hazards_%20sustainability](https://journal/sustainability/sectioneditors/hazards_%20sustainability))
- **Sustainable Materials Section** ([/journal/sustainability/sectioneditors/Materials_sus](https://journal/sustainability/sectioneditors/Materials_sus))
- **Sustainable Management Section** ([/journal/sustainability/sectioneditors/management_sustainability](https://journal/sustainability/sectioneditors/management_sustainability))
- **Green Building Section** ([/journal/sustainability/sectioneditors/building_sustainability](https://journal/sustainability/sectioneditors/building_sustainability))
- **Soil Conservation and Sustainability Section** ([/journal/sustainability/sectioneditors/Soil_Conservation_Sustainability](https://journal/sustainability/sectioneditors/Soil_Conservation_Sustainability))
- **Waste and Recycling Section** ([/journal/sustainability/sectioneditors/waste_recycling_sus](https://journal/sustainability/sectioneditors/waste_recycling_sus))
- **Sustainable Oceans Section** ([/journal/sustainability/sectioneditors/Sustainable_Oceans](https://journal/sustainability/sectioneditors/Sustainable_Oceans))
- **Sustainable Water Management Section** ([/journal/sustainability/sectioneditors/Sustainable_Water_Management](https://journal/sustainability/sectioneditors/Sustainable_Water_Management))
- **Pollution Prevention, Mitigation and Sustainability Section** ([/journal/sustainability/sectioneditors/Pollution_Prevention_Mitigation](https://journal/sustainability/sectioneditors/Pollution_Prevention_Mitigation))
- **Bioeconomy of Sustainability Section** ([/journal/sustainability/sectioneditors/bioeconomy_sustainability](https://journal/sustainability/sectioneditors/bioeconomy_sustainability))

Editors (15)



Prof. Dr. Marc A. Rosen

★ (<https://clarivate.com/hcr/2017-researchers-list/#freeText%3DRosen>) **Website** (<https://ontariotechu.ca/experts/feas/marc-a.-rosen.php>) **SciProfiles** (<https://sciprofiles.com/profile/11194>)

Editor-in-Chief

Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G 0C5, **Canada**

Interests: sustainability; sustainable development; energy; efficiency; environmental impact; economics; ecology; sustainable engineering and design

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Paolo S. Calabrò

Website (https://www.unirc.it/scheda_persona.php?id=769) **SciProfiles** (<https://sciprofiles.com/profile/527004>)

Section Editor-in-Chief

Department of Civil, Energy, Environmental and Materials Engineering, Università Degli Studi Mediterranea di Reggio Calabria, Via Graziella, Loc. Feo di Vito, 89122 Reggio Calabria, **Italy**

Interests: anaerobic digestion; biogas; environmental engineering; landfill; waste management

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Idiano D'Adamo

Website (<https://www.diag.uniroma1.it/users/idiano%20dadam>) **SciProfiles** (<https://sciprofiles.com/profile/115588>)

Section Editor-in-Chief

Department of Computer, Control and Management Engineering Sapienza University of Rome, Via Ariosto 25, 00185 Rome, Italy

Interests: bioeconomy; biomethane; circular economy; e-waste; economic analysis; photovoltaic; renewable energy; sustainability; waste management

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Steve W. Lyon

Website1 (<https://senr.osu.edu/our-people/steven-w-lyon>) **Website2** (<https://senr.osu.edu/our-people/steven-w-lyon>)

Section Editor-in-Chief

School of Environment and Natural Resources, Ohio State University, Columbus, OH 43210, **USA**

Interests: hydrology; water resources; sustainable development

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Tan Yigitcanlar

Website (<https://staff.qut.edu.au/staff/tan.yigitcanlar>) **SciProfiles** (<https://sciprofiles.com/profile/93377>)

Section Editor-in-Chief

School of Architecture & Built Environment, Queensland University of Technology, 2 George Street, Brisbane, QLD 4000, **Australia**

Interests: smart technologies communities, cities, and urbanism; sustainable and resilient cities; communities and urban ecosystems; knowledge-based development of cities and innovation districts

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Raf Dewil

Website (<https://liw.kuleuven.be/onderzoek/petlab/about-petlab/team-folder/rafdewil>)

Section Editor-in-Chief

Department of Chemical Engineering, Process and Environmental Technology Lab, KU Leuven, Leuven, **Belgium**

Interests: advanced wastewater treatment; advanced oxidation processes; resource recovery; biofuels; sustainable chemical processes; renewable chemicals; biomass conversion processes



Prof. Dr. Annamaria Di Fabio

Website (<https://www.unifi.it/p-doc2-2015-0-A-2b333c2e3527-0.html>) **SciProfiles** (<https://sciprofiles.com/profile/401832>)

Section Editor-in-Chief

Department of Education, Languages, Intercultures, Literatures and Psychology (Psychology Section), University of Florence, 50135 Florence, Italy

Interests: healthy organizations; positive psychology in organizations; organizational psychology; personality traits and individual differences; emotional intelligence; prevention; career counseling; vocational psychology; psychology of sustainability and sustainable development

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Tomonobu Senjyu

Website (<http://sm1001.skr.u-ryukyu.ac.jp/>) **SciProfiles** (<https://sciprofiles.com/profile/325550>)

Section Editor-in-Chief

Department of Electrical and Electronics Engineering, University of the Ryukyus, Nishihara, Okinawa 903-0213, Japan

Interests: high-efficiency energy conversion system; renewable energy in small islands; optimization of power system operation and control

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Manfred Max Bergman

Website (<https://soziologie.philhist.unibas.ch/de/personen/manfred-max-bergman/>) **SciProfiles** (<https://sciprofiles.com/profile/158629>)

Section Editor-in-Chief

Chair of Social Research and Methodology, Department of Social Sciences, University of Basel, Petersgraben 11, 4051 Basel, Switzerland

Interests: empirical research on society and economy; leadership; industry initiatives; sustainable consumption; mobility; corporate responsibility

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Iain J. Gordon

Website (<https://www.linkedin.com/in/iain-gordon-4b426b6/>) **SciProfiles** (<https://sciprofiles.com/profile/201744>)

Section Editor-in-Chief

1. Fenner School for Environment and Society, Australian National University, Acton, ACT 2100, Australia

2. Central Queensland University, Townsville, QLD 4810, Australia

3. Land and Water, CSIRO, QLD 4810, Australia

4. James Hutton Institute, Aberdeen AB10 8QH, UK

Interests: conservation; biodiversity; agriculture; food security; climate change

Special Issues, Collections and Topics in MDPI journals

[Vol. 12 \(2020\) \(/2071-1050/12\)](#)
[Vol. 11 \(2019\) \(/2071-1050/11\)](#)
[Vol. 10 \(2018\) \(/2071-1050/10\)](#)
[Vol. 9 \(2017\) \(/2071-1050/9\)](#)
[Vol. 8 \(2016\) \(/2071-1050/8\)](#)
[Vol. 7 \(2015\) \(/2071-1050/7\)](#)
[Vol. 6 \(2014\) \(/2071-1050/6\)](#)
[Vol. 5 \(2013\) \(/2071-1050/5\)](#)
[Vol. 4 \(2012\) \(/2071-1050/4\)](#)
[Vol. 3 \(2011\) \(/2071-1050/3\)](#)
[Vol. 2 \(2010\) \(/2071-1050/2\)](#)
[Vol. 1 \(2009\) \(/2071-1050/1\)](#)

[⌕ \(/toggle_desktop_layout_cookie\)](#)  



https://serve.mdpi.com/www/my_files/cliik.php?oaparams=0bannerid=3323zoneid=4cb=6eba3a0a7eoad

Sustainability, Volume 13, Issue 23 (December-1 2021) – 495

articles

- Issues are regarded as officially published after their release is announced to the [table of contents alert mailing list \(/journal/sustainability/toc-alert\)](#).
- You may [sign up for e-mail alerts \(/journal/sustainability/toc-alert\)](#) to receive table of contents of newly released issues.
- PDF is the official format for papers published in both, html and pdf forms. To view the papers in pdf format, click on the "PDF Full-text" link, and use the free [Adobe Reader \(https://www.adobe.com/\)](https://www.adobe.com/) to open them.

Order results

Publication Date

Result details

Normal

Section

All Sections

[Show export options](#) ▾

Open Access Review

  [\(/2071-1050/13/23/13428/pdf\)](#)

[Occurrence and Effects of Antimicrobials Drugs in Aquatic Ecosystems \(/2071-1050/13/23/13428\)](#)

by Ronield Fernandez, Nieves R. Colás-Ruiz, Hernando José Bolívar-Anillo, Giorgio Anfuso and Miriam Hampel

Sustainability **2021**, *13*(23), 13428; <https://doi.org/10.3390/su132313428> (registering DOI) - 04 Dec 2021

Abstract Currently, thanks to the development of sensitive analytical techniques, the presence of different emerging pollutants in aquatic ecosystems has been evidenced; however, most of them have not been submitted to any regulation so far. Among emerging contaminants, antimicrobials have received particular attention in [...]. [Read more.](#)

(This article belongs to the Topic [From Coastal Engineering to Integrated Coastal Zone Management \(/topics/coastal_zone\)](#))

Open Access Article

  [\(/2071-1050/13/23/13427/pdf\)](#)

[Adaptive Nonsingular Fast Terminal Sliding Mode Control for Maximum Power Point Tracking of aWECS-PMSG \(/2071-1050/13/23/13427\)](#)

by Muhammad Maaruf, Md Shafiullah, Ali T. Al-Awami and Fahad S. Al-Ismaail

Sustainability **2021**, *13*(23), 13427; <https://doi.org/10.3390/su132313427> (registering DOI) - 03 Dec 2021

Abstract This paper investigates maximum power extraction from a wind-energy-conversion system (WECS) with a permanent magnet synchronous generator (PMSG) operating in standalone mode. This was achieved by designing a robust adaptive nonsingular fast terminal sliding mode control (ANFTSMC) for the WECS-PMSG. The proposed scheme [...]. [Read more.](#)

(This article belongs to the Special Issue [Sustainable Energy Systems: Emerging Technologies and Practices in Renewable Energy Storage \(/journal/sustainability/special_issues/energy_systems_technologies_practices_storage\)](#))

► [Show Figures](#)

[\(/sustainability/sustainability-13-13427/article_deploy/html/images/sustainability-13-13427-g001-550.jpg\)](#) [\(/sustainability/sustainability-13-13427/article_deploy/html/images/sustainability-13-13427-g002-550.jpg\)](#) [\(/sustainability/sustainability-13-13427/article_deploy/html/images/sustainability-13-13427-g003-550.jpg\)](#) [\(/sustainability/sustainability-13-13427/article_deploy/html/images/sustainability-13-13427-g004-550.jpg\)](#) [\(/sustainability/sustainability-13-13427/article_deploy/html/images/sustainability-13-13427-g005-550.jpg\)](#) [\(/sustainability/sustainability-13-](#)

13244/article_deploy/html/images/sustainability-13-13244-g006-550.jpg) (/sustainability/sustainability-13-13244/article_deploy/html/images/sustainability-13-13244-g007-550.jpg)

Open Access Article

⌵ ⌵ (/toggle_desktop_layout_cookie) ⌵ ⌵
⌵ ⌵ (/2071-1050/13/23/13243/pdf)

Can Financial Constraints and Regulatory Distance Reduce Corporate Environmental Irresponsibility? (/2071-1050/13/23/13243)

by [Haiquan Wu](https://sciprofiles.com/profile/author/MTRGcWIJVDJ2M2QvRC9Ma24vT2YxeG5iRC9MZGhHYXhVZ2dwV2UxK1VSND0=) (<https://sciprofiles.com/profile/author/MTRGcWIJVDJ2M2QvRC9Ma24vT2YxeG5iRC9MZGhHYXhVZ2dwV2UxK1VSND0=>),
[Wenli Liao](https://sciprofiles.com/profile/1931666) (<https://sciprofiles.com/profile/1931666>), [Zhifang Zhou](https://sciprofiles.com/profile/1011407) (<https://sciprofiles.com/profile/1011407>) and
[Yi Li](https://sciprofiles.com/profile/author/bzNyRjJZW5vQjhkaWIFaXhiS3FiQUxxMm5DUHNQdi80NEF0RIIXS1NybZ0=) (<https://sciprofiles.com/profile/author/bzNyRjJZW5vQjhkaWIFaXhiS3FiQUxxMm5DUHNQdi80NEF0RIIXS1NybZ0=>)
Sustainability 2021, 13(23), 13243; <https://doi.org/10.3390/su132313243> (<https://doi.org/10.3390/su132313243>) - 30 Nov 2021
Viewed by 264

Abstract As global environmental problems become increasingly severe, corporate social (environmental) responsibility has become a hot topic in research, but there is still a lack of clear understanding of corporate environmental irresponsibility behavior and the driving factors behind this behavior. Our research aims to [...] [Read more.](#)

(This article belongs to the Section [Environmental Sustainability and Applications](/journal/sustainability/sections/environment_and_resources) (/journal/sustainability/sections/environment_and_resources))

Open Access Article

⌵ ⌵ (/2071-1050/13/23/13242/pdf)

Sustainable Solid Waste Management Strategies for Higher Education Institutions: Diponegoro University, Indonesia Case Study (/2071-1050/13/23/13242)

by [Mochamad Arief Budiardjo](https://sciprofiles.com/profile/1603096) (<https://sciprofiles.com/profile/1603096>),
[Natasya Ghinna Humaira](https://sciprofiles.com/profile/author/c2FsK1VReUllaHFNaZJPT2FUTkwyS01DMkVhaDhaTndZZZFzFaStTS1hIODU1Z) (<https://sciprofiles.com/profile/author/c2FsK1VReUllaHFNaZJPT2FUTkwyS01DMkVhaDhaTndZZZFzFaStTS1hIODU1Z>),
[Soraya Annisa Putri](https://sciprofiles.com/profile/author/WVQ2MmN5S0VTd3hUemx3SXNlVm5HWmoxMXkvVFd0bHJEaIVFQVFNTmRGbHdz) (<https://sciprofiles.com/profile/author/WVQ2MmN5S0VTd3hUemx3SXNlVm5HWmoxMXkvVFd0bHJEaIVFQVFNTmRGbHdz>),
[Bimastyaji Surya Ramadan](https://sciprofiles.com/profile/1631374) (<https://sciprofiles.com/profile/1631374>),
[Syafudin Syafrudin](https://sciprofiles.com/profile/author/V24vMEwzMIU0dJBGTzVNOXBHRFBKY3IUUEFueThTdmFsTk5MbmVrVEhCRT0=) (<https://sciprofiles.com/profile/author/V24vMEwzMIU0dJBGTzVNOXBHRFBKY3IUUEFueThTdmFsTk5MbmVrVEhCRT0=>)
and
[Eflita Yohana](https://sciprofiles.com/profile/599820) (<https://sciprofiles.com/profile/599820>)
Sustainability 2021, 13(23), 13242; <https://doi.org/10.3390/su132313242> (<https://doi.org/10.3390/su132313242>) - 30 Nov 2021
Viewed by 305

Abstract Effective solid waste management strategies are recognized as efforts to achieve campus sustainability. The university campus is currently considered the center of various activities involving students, lecturers, staff, and other parties contributing to the consumption pattern of energy, water, and other resources. This [...] [Read more.](#)

(This article belongs to the Topic [Solid Waste Management](/topics/Solid_Waste_Management) (/topics/Solid_Waste_Management))

► Show Figures

(/sustainability/sustainability-13-13242/article_deploy/html/images/sustainability-13-13242-g001-550.jpg) (/sustainability/sustainability-13-13242/article_deploy/html/images/sustainability-13-13242-g002-550.jpg) (/sustainability/sustainability-13-13242/article_deploy/html/images/sustainability-13-13242-g003-550.jpg) (/sustainability/sustainability-13-13242/article_deploy/html/images/sustainability-13-13242-g004-550.jpg) (/sustainability/sustainability-13-13242/article_deploy/html/images/sustainability-13-13242-g005-550.jpg)

Open Access Article

⌵ ⌵ (/2071-1050/13/23/13241/pdf)

Targeting Smartphone Use While Driving: Drivers' Reactions to Different Types of Safety Messages (/2071-1050/13/23/13241)

by [Laura Šeibokaitė](https://sciprofiles.com/profile/685028) (<https://sciprofiles.com/profile/685028>),
[Rasa Markšaitytė](https://sciprofiles.com/profile/author/S1hNuNBIRnJUOVhDbEIXd3BZMkpESIZPNW9PUUxNN0M1L2ZuTVVLL24rdz0=) (<https://sciprofiles.com/profile/author/S1hNuNBIRnJUOVhDbEIXd3BZMkpESIZPNW9PUUxNN0M1L2ZuTVVLL24rdz0=>),
[Aukšė Endriulaitienė](https://sciprofiles.com/profile/393252) (<https://sciprofiles.com/profile/393252>),
[Justina Slavinskienė](https://sciprofiles.com/profile/author/aWJjZUR6Z2NOBWhZVEw2NDkweUFSaEVlczE0NUEyNmJhZmpMdVZ0TkI2dz0=) (<https://sciprofiles.com/profile/author/aWJjZUR6Z2NOBWhZVEw2NDkweUFSaEVlczE0NUEyNmJhZmpMdVZ0TkI2dz0=>),
[Dainora Šakinytė](https://sciprofiles.com/profile/author/ajVjMjAxV0J5eU1ydjkdOFVwSkNTTUlwSkp4bmgzQkNZb3FiVzRPNEJrST0=) (<https://sciprofiles.com/profile/author/ajVjMjAxV0J5eU1ydjkdOFVwSkNTTUlwSkp4bmgzQkNZb3FiVzRPNEJrST0=>) and
[Gerda Tamajevaitė](https://sciprofiles.com/profile/author/djMrZ0tLKzI4NjhlU2FFb2xBL2xlektDVXU3WVNnekZVa2JTSXpleVpYQT0=) (<https://sciprofiles.com/profile/author/djMrZ0tLKzI4NjhlU2FFb2xBL2xlektDVXU3WVNnekZVa2JTSXpleVpYQT0=>)
Sustainability 2021, 13(23), 13241; <https://doi.org/10.3390/su132313241> (<https://doi.org/10.3390/su132313241>) - 30 Nov 2021
Viewed by 249

Abstract Only a few previous studies analyzed the effectiveness of road safety messages targeting smartphone use while driving and only several of them used messages from an ongoing road safety campaign. Thus, contributing to the field, this study aimed at testing the effectiveness of [...] [Read more.](#)

► Show Figures

(/sustainability/sustainability-13-13241/article_deploy/html/images/sustainability-13-13241-g001-550.jpg)

Open Access Review

⌵ ⌵ (/2071-1050/13/23/13240/pdf)

A Policy Review of Green Hydrogen Economy in Southern Africa (/2071-1050/13/23/13240)

by [Katundu Imasiku](https://sciprofiles.com/profile/1856462) (<https://sciprofiles.com/profile/1856462>),
[Fortunate Farirai](https://sciprofiles.com/profile/author/Z3Z0dXJOTHZKS0xCVlp5STIOeXBNV284aHRCZWpNaFIBbVFRK2tDK3BzND0=) (<https://sciprofiles.com/profile/author/Z3Z0dXJOTHZKS0xCVlp5STIOeXBNV284aHRCZWpNaFIBbVFRK2tDK3BzND0=>),

Article

Sustainable Solid Waste Management Strategies for Higher Education Institutions: Diponegoro University, Indonesia Case Study

Mochamad Arief Budihardjo ^{1,*} , Natasya Ghinna Humaira ², Soraya Annisa Putri ², Bimastyaji Surya Ramadan ², Syafrudin Syafrudin ¹ and Eflita Yohana ³

¹ Department of Environmental Engineering, Universitas Diponegoro, Semarang 50275, Indonesia; syafrudin@lecturer.undip.ac.id

² Environmental Sustainability Research Group, Department of Environmental Engineering, Faculty of Engineering, Universitas Diponegoro, Semarang 50275, Indonesia; natasyaghinna@alumni.undip.ac.id (N.G.H.); sorayaannisap@alumni.undip.ac.id (S.A.P.); bimastyaji@live.undip.ac.id (B.S.R.)

³ Department of Mechanical Engineering, Faculty of Engineering, Universitas Diponegoro, Semarang 50275, Indonesia; efnan2003@gmail.com

* Correspondence: ariefbudihardjo@lecturer.undip.ac.id



Citation: Budihardjo, M.A.; Humaira, N.G.; Putri, S.A.; Ramadan, B.S.; Syafrudin, S.; Yohana, E. Sustainable Solid Waste Management Strategies for Higher Education Institutions: Diponegoro University, Indonesia Case Study. *Sustainability* **2021**, *13*, 13242. <https://doi.org/10.3390/su132313242>

Academic Editors: Gabriela Ionescu, Ioannis Katsoyiannis, Marco Ragazzi, Elena Magaril, Elena Rada, Paolo Viotti, Hussain H. Al-Kayiem, Marco Schiavon and Natalia Sliusar

Received: 7 November 2021

Accepted: 18 November 2021

Published: 30 November 2021

Abstract: Effective solid waste management strategies are recognized as efforts to achieve campus sustainability. The university campus is currently considered the center of various activities involving students, lecturers, staff, and other parties contributing to the consumption pattern of energy, water, and other resources. This study aims to estimate the quantity and compositions of waste generated on the Universitas Diponegoro (UNDIP) campus, identify the causes of waste generation, evaluate the relationships between variables through statistical analysis, and recommend possible strategies to reduce solid waste generation. The results show that the simultaneous contribution of the student-gender ratio, student awareness level, administrative staff background, and green space amounted to 67.7% of the waste generation at UNDIP. Therefore, these four factors need to be a concern for campus authorities in their efforts to handle campus waste. Student awareness in particular was determined to be the only factor that significantly affects solid waste generation. UNDIP may implement proper environmental education through sustainability courses in each faculty to reduce solid waste in higher education institutions since it has the most significant impact. Outcomes of this study could be used as a reference to develop sustainable campus strategies, recycling plans, and comprehensive waste management in higher education.

Keywords: campus sustainability; solid waste management; factors affecting; statistical analysis

Publisher's Note: MDPI stays neutral with regard to jurisdictional claims in published maps and institutional affiliations.



Copyright: © 2021 by the authors. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (<https://creativecommons.org/licenses/by/4.0/>).

1. Introduction

Universities generate significant municipal solid waste [1]. Various activities involving students, lecturers, administrative staff, and other parties contribute to the consumption patterns of energy, water, and other resources that influence the environment either directly or indirectly. The effects can be in the forms of increased air pollution, water pollution, and generated waste, particularly solid waste. As an educational institution, universities have moral and ethical obligations to work fairly with the environment and lead in environmental waste management. In many studies, solid waste management (SWM) has been a major component in achieving institutional sustainability [2–7]. The adaption of SWM sustainability within the university campus has enormous potential to reduce the amount of municipal solid waste, establishing a model for the community [8]. The integration of a sustainable/green campus through solid waste management sustainability plans has been achieved by several universities, including the University of Kansas, Harvard University, Cornell University, University of Connecticut, and Virginia Tech University [9].

Article

Targeting Smartphone Use While Driving: Drivers' Reactions to Different Types of Safety Messages

Laura Šeibokaite *, Rasa Marksaityte, Aukse Endriulaitiene , Justina Slavinskienė, Dainora Šakinytė and Gerda Tamajevaitė

Psychology Department, Vytautas Magnus University, 44248 Kaunas, **Lithuania**; rasa.marksaityte@vdu.lt (R.M.); aukse.endriulaitiene@vdu.lt (A.E.); justina.slavinskiene@vdu.lt (J.S.); dainora.sakinyte@stud.vdu.lt (D.Š.); gerda.tamajevaitė@stud.vdu.lt (G.T.)

* Correspondence: laura.seibokaite@vdu.lt; Tel.: +37-037327824

Abstract: Only a few previous studies analyzed the effectiveness of road safety messages targeting smartphone use while driving and only several of them used messages from an ongoing road safety campaign. Thus, contributing to the field, this study aimed at testing the effectiveness of two types of social messages (threat appeal and threat appeal together with safe behavior role modelling) targeting smartphone use while driving. Ninety-three drivers were randomly assigned to two experimental ($n_1 = 26$; $n_2 = 37$) and one control ($n = 29$) groups. Each experimental group was presented with one 30 s length video message to reduce or stop smartphone use while driving. Messages differed in terms of threat appeal and modelling of safe behavior. The control group was presented with a 30 s length video clip showing neutral driving related content. The results revealed that threat appeals (alone or together with a safe role model) resulted in less positive emotions when compared to the control group's reported emotional reactions. The message with threat appeal only also resulted in more negative emotions compared to the control group. With regards to behavioral intentions, road safety messages used in this study had minor effectiveness: the threat appeal message reduced the intentions to use smartphones while driving, only when previous behavior has been controlled. In sum, messages targeting smartphone use while driving were effective at least to some extent in changing drivers' emotions and intentions not to be involved in targeted behavior, but the effect was minor and threat appeal only showed higher effectiveness.

Keywords: smartphone use while driving; road safety message; threat appeal; emotional reactions; behavioral intentions



Citation: Šeibokaite, L.; Marksaityte, R.; Endriulaitiene, A.; Slavinskienė, J.; Šakinytė, D.; Tamajevaitė, G.

Targeting Smartphone Use While Driving: Drivers' Reactions to Different Types of Safety Messages. *Sustainability* **2021**, *13*, 13241. <https://doi.org/10.3390/su132313241>

Academic Editor: Elżbieta Macioszek

Received: 22 October 2021

Accepted: 26 November 2021

Published: 30 November 2021

Publisher's Note: MDPI stays neutral with regard to jurisdictional claims in published maps and institutional affiliations.



Copyright: © 2021 by the authors. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (<https://creativecommons.org/licenses/by/4.0/>).

1. Introduction

Many studies confirmed that illegal smartphone use while driving impairs driving performance [1–3] and contributes significantly to the risk of traffic accident or injury [4–6]. However, the use of smartphones became an integral part of everyday life due to the possibility of instant communication with others and easy access to information searches or social networking [7–9]. Consequently, the number of drivers that text, talk or access the web while driving is still growing [5,10,11]. Thus, distracted driving due to in-vehicle smartphone use has become an increasing issue of road safety [12].

1.1. Effectiveness of Safety Messages Targeting Smartphone Use While Driving

Enhanced public awareness through social marketing or educational campaigns might be effective means of the prevention of risky smartphone use while driving [13]. Unfortunately, a large part of the knowledge on the effectiveness of road safety campaigns was based on the research using messages targeting speeding and drunk driving. The research on the effectiveness of road safety messages targeting smartphone use while driving is scarce. Hayashi and colleagues found that threat appeal significantly reduced drivers'

Article

Can Financial Constraints and Regulatory Distance Reduce Corporate Environmental Irresponsibility?

Haiquan Wu ¹, Wenli Liao ¹ , Zhifang Zhou ^{1,*} and Yi Li ²

¹ School of Business, Central South University, Changsha 410083, China; wuhq2618186@163.com (H.W.); liaowenly@163.com (W.L.)

² Finance Office, East China Normal University, Shanghai 200062, China; 18270886591@163.com

* Correspondence: zzf3721@csu.edu.cn; Tel.: +86-139-7483-9572

Abstract: As global environmental problems become increasingly severe, corporate social (environmental) responsibility has become a hot topic in research, but there is still a lack of clear understanding of corporate environmental irresponsibility behavior and the driving factors behind this behavior. Our research aims to reveal the factors affecting corporate environmental irresponsibility from both internal and external perspectives. Inside enterprises, financial constraints will affect the degree of capital adequacy and thus affect the environmental behavior of enterprises. Externally, the fulfillment of corporate environmental responsibility will be affected by external regulatory pressure. Taking 399 A-share listed companies in China's heavily polluting industries as the research objects, this paper empirically analyzes the influence paths and internal mechanisms of financial constraints and regulatory distance on corporate environmental irresponsibility, and it further divides regulatory distance into physical regulatory distance and power regulatory distance. This paper's findings show that both financial constraints and physical regulatory distance were positively correlated with corporate environmental irresponsibility in China, and that the positive correlation between physical regulatory distance and corporate environmental irresponsibility was more significant in non-state-owned enterprises. In addition, financial constraints and regulatory distance have a complementary effect on corporate environmental irresponsibility. These findings can reduce the environmental risks posed by enterprises and help them to avoid environmental irresponsibility.

Keywords: financial constraints; regulatory distance; corporate environmental irresponsibility; gender diversity



Citation: Wu, H.; Liao, W.; Zhou, Z.; Li, Y. Can Financial Constraints and Regulatory Distance Reduce Corporate Environmental Irresponsibility? *Sustainability* **2021**, *13*, 13243. <https://doi.org/10.3390/su132313243>

Academic Editor: Ioannis Nikolaou

Received: 25 October 2021

Accepted: 23 November 2021

Published: 30 November 2021

Publisher's Note: MDPI stays neutral with regard to jurisdictional claims in published maps and institutional affiliations.



Copyright: © 2021 by the authors. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (<https://creativecommons.org/licenses/by/4.0/>).

1. Introduction

At the current stage of rapid economic development in China, domestic enterprises are presented with many external development opportunities, and most of them have a strong impulse to expand. Compared with western countries, financing constraints are common in Chinese enterprises. The capital market is one of the external factors that influences the environmental behavior of enterprises. Financial constraints can have a negative impact on the business. For example, financial constraints restrain business innovation [1–3], increase financial irregularities in enterprises [4], and affect corporate social responsibility [5].

With the increasing awareness of global environmental protection, stakeholders are requiring companies to take on more social and environmental responsibilities, and calls for corporate social responsibility and environmental responsibility are rising [6–8]. Managers, companies, governments, and other stakeholders are increasingly paying attention to how to improve corporate environmental responsibility. In fact, such discussion is a necessity at higher levels in the organization. When corporate environmental irresponsible behavior occurs, it can be difficult to discuss the responsibility issue at a higher level. It can be difficult to move beyond the basics to consider broader issues. Only after ensuring that companies do not engage in environmentally irresponsible behavior can there be a basis for