New Trends and Issues Proceedings on Advances in Pure & Applied Sciences

ISSUE 14 January 2022

Selected Papers of

9th Global Conference on Environmental Studies *(CENVISU-2021)*

14 - 16 October 2021
Grand Park Lara Hotel Convention Center
Antalya, Turkey
(Online Conference)

Proceedings

Editor

Assoc. Prof. Dr. Murat Sonmez
Middle East Technical University Northern Cyprus, North Cyprus

Page: 01-88

www.propaas.eu

Birleşik Dünya Araştırma BD CENTER İnovasyon ve Yayıncılık Merkezi

ISSN: 2547-880X

New Trends and Issues Proceedings on Advances in Pure and Applied Sciences is a multi-dimensional journal which covers all aspects of scientific and technical disciplines including pure and applied sciences, health, environmental and material sciences, applied natural sciences including physics, chemistry and biology, application of scientific inventions for medical purposes, advances in technology, computer science and communication technology. This journal serves as a platform that fosters new applications for all scientists engaged in research and development in these fast growing fields in an international arena.

Title Changes

The former name of *AWER Procedia Advances in Applied Sciences* (ISSN: 2301-2706) has been changed to *Global Journal on Advances in Pure and Applied Sciences* (ISSN 2421-8049) on 8 September 2015. Then, name of *Global Journal on Advances in Pure & Applied Sciences* on has been currently changed to *New Trends and Issues Proceedings on Advances in Pure and Applied Sciences* (ISSN: 2547-880X) since 23 November 2016. These changes were made with the approval of International ISSN Center (http://www.issn.org/ (http://www.issn.org/)).

Announcements

Index Copernicus (https://un-pub.eu/ojs/index.php/paas/announcement/view/52)

2022-01-03

The PROPAAS has passed the evaluation process positively and is indexed in the **ICI Journals Master List database for 2020**.

Current Issue

No. 14 (2022): Selected paper of 9th Global Conference on Environmental Studies (CENVISU-2021)



Published: 2022-02-14

Articles

Impact of liberal democracy toward deforestation In East Kotawaringin, Central Kalimantan, Indonesia (https://un-pub.eu/ojs/index.php/paas/article/view/6781)

Dhefara Sahidha Aurella, Ezra Surya Aji, Karema Margareth Lolong, Rusdi J. Abbas

01-12

pdf (https://un-pub.eu/ojs/index.php/paas/article/view/6781/8395)

Green metric sustainability index: Evaluation of Turkish universities in the Top 500 category in 2020 (https://un-pub.eu/ojs/index.php/paas/article/view/6782)

Gamze Altun, Murat Zencirkiran

13-22

pdf (https://un-pub.eu/ojs/index.php/paas/article/view/6782/8397)

Evaluating the right to live in a healthy environment during the covid-19 pandemic (https://un-pub.eu/ojs/index.php/paas/article/view/6783)

Ali Cem Sonmez, Murat Zencirkıran

23-29

pdf (https://un-pub.eu/ojs/index.php/paas/article/view/6783/8398)

Evaluating the green infrastructure concept in combating climate change (https://un-pub.eu/ojs/index.php/paas/article/view/6784)

Sena Yanık, Banu Öztürk Kurtaslan

30-37

pdf (https://un-pub.eu/ojs/index.php/paas/article/view/6784/8399)

Sustainable tourism and environmental degradation in the Rin-jani-Lombok Unesco Global Geopark (https://un-pub.eu/ojs/index.php/paas/article/view/6794)

Diemas Sukma Hawkins, Dhiya Nisrina Pawitranti Rahma Budi, Ananda Bilqis Shafira, Rusdi J. Abbas

38-50

register

Home (https://un-pub.eu/ojs/index.php/paas/index)

Abstracting & Indexing (https://un-pub.eu/ojs/index.php/paas/indexing)

Make a Submission (https://un-pub.eu/ojs/index.php/paas/about/submissi

Publication Ethics (https://un-pub.eu/ojs/index.php/paas/pubet)

Open Access Policy (https://un-pub.eu/ojs/index.php/paas/oap)

Copyright Agreement Form (https://un-pub.eu/copyrightform/index.php/paas-copyright-form)

Online First (https://un-pub.eu/ojs/index.php/paas/onlinefirst)

Register (https://un-pub.eu/ojs/index.php/paas/user/register)

Login (https://un-pub.eu/ojs/index.php/paas/login)

About the Journal (https://un-pub.eu/ojs/index.php/paas/about)

Editorial Board (https://un-pub.eu/ojs/index.php/paas/about/editorial

Author Guidelines (https://un-pub.eu/ojs/index.php/paas/about/submissi

Archives (https://un-pub.eu/ojs/index.php/paas/issue/archive)

Archives 2006-2015 (http://archives.un-pub.eu/index.php/paas/issue/archive)

Proofreading-Editing (http://www.taeg-center.org/proofreading/)

Publisher (https://www.un-pub.eu/publisher/)

openaccess

OPEN ACCESS (https://en.wikipedia.org/wiki/Open_acces

index_logo

PDF (https://un-pub.eu/ojs/index.php/paas/article/view/6794/8407)

Management of liquid digestate in biogas plants (https://un-pub.eu/ojs/index.php/paas/article/view/6795)

Sena Gençoğlu, Mehmet Sinan Bilgili

51-62

PDF (https://un-pub.eu/ojs/index.php/paas/article/view/6795/8408)

Changes in Cadmium (Cd) concentrations in some plants depending on traffic density (https://un-pub.eu/ojs/index.php/paas/article/view/6797)

Kaan Işınkaralar

63-70

PDF (https://un-pub.eu/ojs/index.php/paas/article/view/6797/8409)

Relation between energy efficient glasses and energy expenditures in buildings (https://un-pub.eu/ojs/index.php/paas/article/view/6798)

Aynur Kazaz , Ender Yetim

71-88

PDF (https://un-pub.eu/ojs/index.php/paas/article/view/6798/8410)

View All Issues ❯ (https://un-pub.eu/ojs/index.php/paas/issue/archive)

(https://publons.com/journal/80304/new-trends-and-issues-proceedings-on-advances-in-p)

(https://un-pub.eu/ojs/index.php/paas/oap)

orcid

(https://orcid.org/)

fa

(https://www.facebook.com/Awer-Center-World-1708769969374287/)

Â© 2021 UN-PUB.EU (http://www.un-pub.eu/) | Powered by OJS/ Open Journal Systems (https://pkp.sfu.ca/ojs/) | Public Knowledge Project (https://pkp.sfu.ca/)

Platform & workflow by OJS / PKP

(https://un-pub.eu/ojs/index.php/paas/about/aboutThisPublishingSystem)

New Trends and Issues Proceedings on Advances in Pure and Applied Sciences

Issue 14, (2022) 13-22

www.propaas.eu

Selected paper of 10th Global Conference on Environmental Studies (CENVISU-2022) Antalya, Turkey
13 – 15 October 2021(ONLINE CONFERENCE)

Green metric sustainability index: evaluation of Turkish universities in the Top 500 category in 2020

Gamze Altun*[1], Bursa Uludağ University, Faculty of Agriculture, Department of Landscape Architecture, Gorukle Campus, Bursa. gamzealtun@uludag.edu.tr https://orcid.org/0000-0003-3959-9893
Murat Zencirkiran [2], Bursa Uludağ University, Faculty of Agriculture, Department of Landscape Architecture, Gorukle Campus, Bursa. mzencirkiran@uludag.edu.tr https://orcid.org/0000-0003-0051-8937

Suggested Citation:
Gamze A. & Murat Z. Green Metric Sustainability Index: Evaluation of Turkish Universities in the Top 500 Category in 2020. *New Trends and Issues Proceedings on Advances in Pure and Applied Sciences*. 0(14), 13-22.

Received from October 17,2021; revised from December 14,2021; accepted from February 9,2022.
Selection and peer review under responsibility of Prof. Dr. Dogan Ibrahim, Near East University, Cyprus.
©2022 Birlesik Dunya Yenilik Arastirma ve Yayincilik Merkezi. All rights reserved.

Abstract

University sustainability activities have become increasingly important as interest in sustainable campuses has grown. Several sustainability indexes, such as University League, Sustainability Tracking, Assessment Rating System, and Green Metric, that increase awareness of sustainability, are used in university evaluations. This study aims to examine international environmental sustainability Indexes and make comparisons were between them. The Green Metric ranking system, which is known to be the most preferred among the sustainability evaluation indexes, and in which demanding international universities participate through an online survey, were examined. In this study, we consider the Turkish universities in the top 500 in the 2020 Green Metric ranking as material. When the Green Metric ranking results for 2020 are examined, it is seen that there has been an increase in the number of participating countries, and 45 universities from Turkey are included in this ranking. To determine the category with the highest impact on the success of these universities, universities with different rankings despite having the same overall score were compared.

Keywords: Green Campus; Green Metric; Sustainable Campus; Sustainability Index.

* ADDRESS FOR CORRESPONDENCE: Gamze Altun* , Bursa Uludağ University, Faculty of Agriculture, Department of Landscape Architecture, Gorukle Campus, Bursa,Turkey
E-mail address: gamzealtun@uludag.edu.tr

1. Introduction

With the acceleration of industrialization in the 1970s, the increase in environmental problems on a global scale caused a common concern all over the world. The awareness that environmental problems, which increase their impact rapidly, will irreversibly affect the planet we live in, has led to the start of the environmental movement all over the world, especially in Europe and America. The United Nations Conference on the Human Environment (Stockholm Conference) was held in Sweden on 5-16 June 1972 on this subject, and the foundations of the concept of sustainability were laid in the Human Environment Declaration adopted at the conference (Bozlagan, 2007; Karci, 2019). Although the concept began to be discussed in political circles in the seventies to question the effects of human activities and natural resource consumption, for the first time in today's sense it was included in the United Nations' report called Brundtland in 1987 that sought solutions to issues such as eradication of poverty, equitable distribution of benefits from natural resources, population control and development of environmentally friendly technologies (Yalciner, 2018; Altun & Zencirkiran, 2021).

Among the many definitions of the concept, the most accepted one is made by the United Nations as “meeting the needs of the present without compromising the ability of future generations to meet their own needs." has been defined (United Nations, 1991). This awareness of sustainable development has emerged from the need for the balance that should exist between the environment, economy, and society, and its spread is thought to be possible only through knowledge transfer. Higher education institutions, which function effectively in the transfer of all kinds of knowledge, should act as a bridge between the transfer of scientific knowledge on sustainability and the implementation of sustainability practices (Guerra et al., 2018; Pereira Ribeiro et al., 2021).

Ensuring sustainability on university campuses has become a topic of increasing interest in the world, especially given the increasing power and returns of the pro-sustainability movement (Alshuwaikhat & Abubakar, 2008; Velazquez, Munguia, Platt, & Taddei, 2006; Ribeiro et al., 2020). Green campus initiatives, which are born due to the importance of the subject and focus on providing sustainable infrastructure on university campuses, reducing environmental impacts and economic costs, and increasing student awareness about the concept of sustainable development, are some of the strategies created and implemented by higher education institutions to promote sustainable development (Patel & Patel, 2012; Chalfoun, 2014; Hayder, 2017; Mafongosi, Awuzie, & Talukhaba, 2018; Ribeiro et al., 2020).

Higher education institutions who want to introduce environmental issues to society and integrate sustainability into their education and research programs with increasing concerns about environmental problems and the need to find solutions to climate change started the green campus studies. In this way, it is aimed to improve many important issues such as increasing environmental performance by increasing public awareness, reducing the cost of campus maintenance, efficient use of energy and water on campus, and good management of waste and green areas (Geng, Liu, Xue, & Fujita, 2013).

1.1. Related studies

In this context, many sustainable and green campus applications have been planned in state and foundation universities in our country, and many of them have been implemented. For example, the Hamlin Building at Bogazici University, the foundation of which was laid in 1868, was restored in 2011, the facade and roof of the building were completely renovated after the necessary repairs were made, and the building was given the title of Turkey's first green university building with Leed "GOLD" Certificate. Again, an LED lighting system was applied in a part of Bogazici University campus, 30% increase in energy efficiency has been achieved thanks to LED bulbs that last 10 times longer than conventional bulbs, where some of the energy is converted into heat (Anonymous 2020a).

In a study carried out for purposes such as continuing the water cycle, protecting natural drainage areas, contributing to the city's water cycle by improving forest areas, trees, and other open green areas, as well as reducing greenhouse gas emissions at Yildiz Technical University; a green area arrangement was made on an area of 240,310 m2 on the campus. To reduce the mains water used in the landscaping areas of the campus, the rainwater flowing from the roof gutters is collected in a 50-ton rain harvesting tank. The economic and smart systems with sensors, applied throughout the campus, irrigate open green areas by using the water in the rain harvesting tank (Anonymous 2020b). Again at Yildiz Technical University, in the 2018-2019 academic year, a total of 206 courses were given at all levels related to environment and sustainability. It has been reported that more than 100 scientific publications are made every year in the fields of environment and sustainability throughout the university, and a research income of over 3,000,000 TL is obtained in the field of sustainability within the scope of scientific projects (Anonymous 2020c).

A total of 6 kilometers of bicycle and pedestrian path project is under construction in Istanbul Technical University Ayazaga Campus. Bicycle rental will be carried out at the stations established within the campus. In addition, the construction of the ITU Bicycle House has been started to provide services such as discounted bicycle sales, bicycle repair, and maintenance, bicycle rental to campus residents. Again in ITU Ayazaga Campus, renovation and improvement works were carried out in the parking lots to reduce the traffic and carbon emissions and the damages to the trees and natural life in the forest, the student and guest parking lots were moved to central locations, and the shuttle vehicles were directed to an area away from the forest (Anonymous 2021a). As can be seen, different green campus implementations are carried out in many Turkish universities today.

1.2. Purpose of study

Today's universities want to make a name for themselves and set an example with their sustainable and environmentalist activities as well as their academic achievements. To measure the success of universities in this regard, many university sustainability ranking systems have been created and higher education has begun to be evaluated and ranked based on their sustainable activities (Altun & Zencirkiran, 2021). These ranking systems, created for evaluating and reporting sustainability performance, are valuable tools both to expand the success of high-achieving organizations and to provide entry points for organizations taking their first steps towards sustainability (UNEP, 2021). This study aims to examine international environmental sustainability Indexes and make comparisons were between them.

2. Material and Method

2.1. Material

In this study, the University League, Sustainability Tracking and Assessment Rating System, and GreenMetric international sustainability indexes, which evaluate the sustainability activities of universities, and Turkish universities that managed to be in the top 500 in the 2020 Green Metric ranking are considered as material.

2.2. Procedure

The study consists of four phases that support each other:

1. Literature review of sustainable campus and green campus concepts,

2. Examination and comparison of the University League, Sustainability Tracking and Assessment Rating System and GreenMetric international sustainability indexes,

3. Comparison of Turkish universities in the top 500 in the GreenMetric 2020 ranking based on points and categories,

4. Interpretation of the findings.

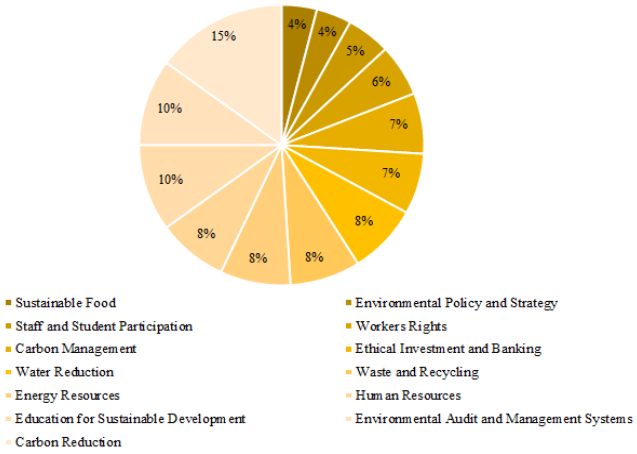
3. Results

3.1. Collected data

3.1.1. University League (UL)

The system, which evaluates British universities in terms of their environmental and sustainable actions (Anonymous 2021b), poses more than 100 questions (such as does the university have a public carbon management plan, does the university have a public sustainable food policy, does the university commit to education for sustainable development) to participating universities within the framework of 13 sustainability topics with different percentages of importance (Anonymous 2021c; Anonymous 2021d).

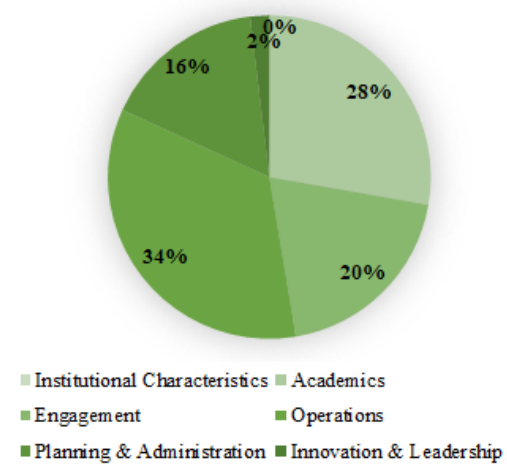
Figure 1
University League categories



3.1.2. Sustainability Tracking and Assessment Rating System (STARS)

STARS is a transparent, self-reporting system created to measure the sustainability performance of universities and colleges. The STARS reporting framework consists of several indicators organized in six categories (Figure 2): Education and Research, Business, Planning, Management and Participation, and Innovation. It aims to facilitate the sharing of information between institutions about the practices implemented to improve the sustainability approaches of universities, and also to make comparisons between institutions by using a common measurement set (Anonymous, 2019).

Figure 2
Sustainability Tracking and Assessment Rating System categories



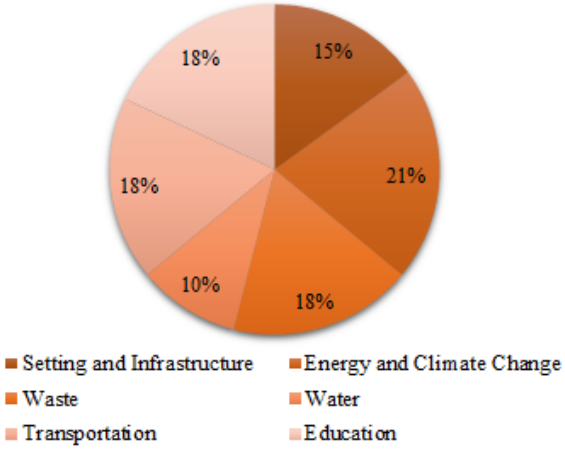
3.1.3. Green Metric (GM)

It is an initiative started by the University of Indonesia in 2010. Its purpose is to evaluate policies and activities on green campuses to promote a culture of sustainability in higher education institutions (Raggazi & Ghidini, 2017). Since it applies to universities in both developed and developing countries, it is the first of its kind in environmental management systems globally (Suwartha & Sari 2013; Ozdogan, 2018).

The system presents the results of a survey asking participating universities about their sustainability policies and activities (Anonymous, 2021e). Various indicators are provided by the participating universities for each category in the index, and a specific score is assigned to each indicator. The final score is the sum of the scores obtained for each indicator (Raggazi & Ghidini, 2017).

When the 6 categories in the system (Figure 3) and the sub-headings of these categories are examined, it is thought that it is aimed to present an evaluation tool to higher education institutions on the sustainable human, economic and environmental practices by conducting such a survey, evaluating and presenting the results to the public.

Figure 3
Green Metric categories



3.1.4. Turkish universities in the top 500 in the 2020 Green Metric ranking

Table 1
The total and category-based scores of Turkish universities in the top 500 in the 2020 Green Metric ranking and their averages

No	Rank	University	Total Score	Setting & Infrastructure	Energy & Climate Change	Waste	Water	Transportation	Education & Research
1	71	Istanbul Technical University	7800	1050	1225	1575	850	1475	1625
2	103	Middle East Technical University	7500	1125	1150	1200	825	1525	1675
3	142	Erciyes University	7175	1100	1250	1200	750	1375	1500
4	143	Ozyegin University	7175	825	1175	1350	650	1450	1725
5	148	Cyprus International University	7150	975	1400	1125	825	1475	1350
6	165	Ege University	7050	1075	1175	1200	700	1425	1475
7	186	Aksaray University	6900	1025	1150	1575	475	1275	1400
8	208	Hitit University	6700	900	1400	1800	400	1425	775
9	217	Izmir Institute of Technology	6675	1175	1175	1350	575	1475	925
10	244	Yildiz Technical University	6425	800	975	1050	800	1525	1275
11	269	Bartin University	6275	950	1150	1050	575	1350	1200
12	273	Yeditepe University	6250	725	1325	1125	675	1325	1075
13	295	Afyon Kocatepe University	6150	775	1350	1350	250	1450	975
14	303	Zonguldak Bulent Ecevit University	6150	775	1350	1350	250	1450	975
15	310	Sakarya University	6100	1150	1225	900	425	1325	1075
16	321	Cappadocia University	6050	775	950	1350	350	1425	1200
17	335	Cukurova University	5950	1325	975	525	350	1475	1300
18	340	Inonu University Malatya	5925	825	1250	900	450	1425	1075
19	380	Dokuz Eylul University	5650	1000	925	975	500	1200	1050
20	405	Baskent University	5575	975	1075	1050	400	1250	825
21	406	Mersin University	5575	1175	750	1125	300	1075	1150
22	408	Mugla Sitki Kocman University	5550	700	1400	825	250	1125	1250
23	412	Tokat Gaziosmanpasa University	5550	1200	775	975	475	1175	950
24	418	Istanbul Sabahattin Zaim University	5500	525	1375	1575	300	1000	725
25	442	Sabanci University	5375	1100	1050	1125	700	725	675
26	450	Suleyman Demirel University	5325	750	925	1575	250	1050	775
27	451	Nigde Omer Halisdemir University	5325	825	875	1275	350	1100	900
		Average Value	6252,78	948,15	1140,74	1202,78	507,41	1309,26	1144,44

Table 2

According to the standings of Turkish universities in itself, the top 500 Green Metric ranking for 2020; classifications created to be evaluated under high, medium, and low achievement groups.

	Total Score	Setting & Infrastructure	Energy & Climate Change	Waste	Water	Transportation	Education & Research
High	7800-6976	1325-1059	1400-1184	1800-1376	850-651	1525-1260	1725-1376
Medium	6975-6150	1058-792	1183-967	1375-950	650-450	1259-993	1375-1025
Low	6149-5325	791-525	966-770	949-525	449-250	992-725	1024-675

3.2. Comparison of University League, Sustainability Tracking and Assessment Rating System and Green Metric University Sustainability Assessment Systems

Researches show that with the increasing interest in sustainability activities in higher education, various international indexes have been created to measure university sustainability. Among these indexes, University League (UL), Sustainability Tracking and Assessment Rating System (STARS), and Green Metric (GM), which are known to be more reliable and applicable and more preferred by the participants due to their easy access to their criteria and their importance percentages, were examined and compared. As a result of the examinations, it is seen that the reasons and objectives of the emergence of all three indices are generally the same, that they cover all dimensions of sustainability, including environmental, economic, and social, and that these dimensions are handled with a holistic approach. It is understood from the main topics covered by UL, STARS, and GM sustainability assessment systems that although there are differences between the categories and the percentages of the importance of their categories, all three of them meet at the same point with their assessment of the sustainability of people, buildings and green spaces within the campus.

When these three indices are examined in terms of the importance of their criteria, the highest percentage belongs to the "Energy and Climate" categories in GM, "Carbon Reduction" in UL, and "Academics" in STARS. The parameters with the lowest percentage of importance are “Water” in GM, “Policy and Strategy” with equal percentages in UL, “Sustainable Food” and “Innovation and Leadership” in STARS. When the indices are examined in terms of the diversity of the categories they have, it is seen that UL (13) has the highest number of categories, while STARS and GM have an equal number of categories (6 each).

3.2. Evaluation of Turkish Universities in the Top 500 in the GreeMetric Ranking of 2020

Examining Turkish universities, which are in the top 500 in the 2020 ranking of the GreenMetric index, which is the most preferred among university sustainability assessment tools, is important for a better understanding of the policies and practices that lead these universities to success. The universities in Table 1 were evaluated in terms of their total scores and the scores they had in each category. As a result of the evaluations, it is seen that:

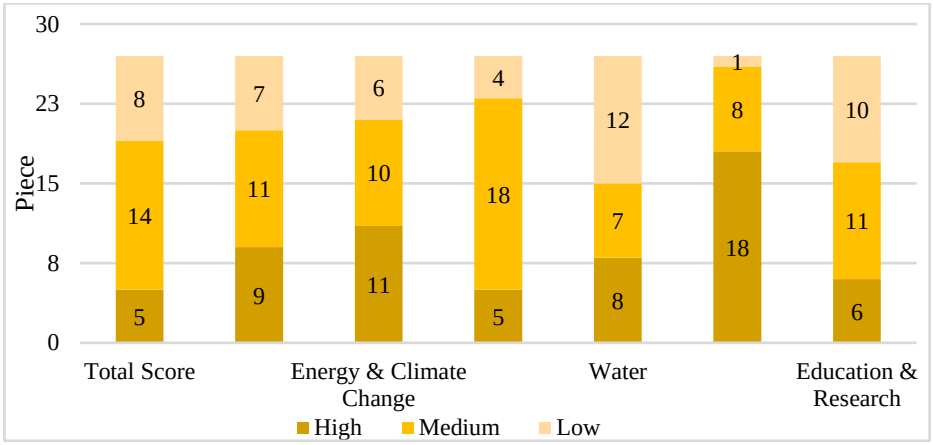
1. There are 27 Turkish universities in the Top 500 in the Green Metric Ranking of 2020 (Table 1). The total score average of these universities is 6252.78 and these universities are in the medium success category (Table 2) with a rate of 51.85%.

2. According to Table 2, universities with high achievement are in the minority at the rate of 18.52%.

3. When the scores of the universities based on categories are compared, the highest number of high achievements belongs to the transportation category (66.67%), and the highest number of low achievements belongs to the water category (29.63%) (Figure 4). Accordingly, the highest average "transportation" and the lowest average "water" belong to the categories. (Table 1).

Figure 4

The numerical distribution of universities according to the categories in Table 2.



4. Although the total scores of some universities in the list (Table 1) are equal, they have score differences based on category.

4. Discussion

When examined in terms of the contents of 3 different indexes (UI, STARS, and GM) created to evaluate sustainability in higher education; it is seen that all three of them fully address the social, environmental, and economic aspects of sustainability and include these issues in detail in their categories and sub-categories. The fact that many different indicators measuring sustainability have been developed in universities since the day the concept of sustainability was born indicates that indicators are open to development and change. It is thought that indicators should be constantly updated to keep up with the changing age and developing technology (Altun & Zencirkiran, 2021).

It is seen that a total of 912 universities participated in the UI Greenmetric world university rankings in 2020, and some of the participating universities did not ensure most of the categories but were still included in the list. This situation creates the impression that each participating university ensures the criteria of being a green campus. For this reason, the system should set a threshold value that we can have an idea about the minimum level of sustainability that a university should provide, and at least not include universities that do not exceed this value in the list. Because sustainability requires the environmental, social, and economic aspects to be considered as a whole, it is thought that the minimum level of success that universities should achieve should be determined based on categories and sub-categories.

As mentioned before, although the system is at the forefront with its global feature, it is believed that the survey is not of such a quality that participants from all over the world can respond under equal conditions. Considering the geographical and climatic conditions, development levels, cultures, and educational opportunities of the countries (Ragazzi & Ghidini, 2017), it is clear that universities cannot have equal conditions on the main subjects addressed in the GM, especially in the waste, energy and water categories. Limiting participation by determining a minimum sustainability standard will allow a fairer ranking.

5. Conclusion

It is believed that the system should describe the scores offered by the universities in a concrete way such as sufficient, insufficient, successful, unsuccessful or high, low to perceive the sustainability level and success of each university more clearly and qualitatively. In this way, it will be possible to evaluate, such as X university is successful in the waste and energy categories, but unsuccessful in the water category.

Again, as mentioned before, some universities in the list are ranked consecutively even though they have equal total scores. It should be explained is the factor that determines whether these universities are at the up or the down in the success ranking. Although there are some shortcomings (discussed by many scientists up to the present), sustainability assessment tools are useful as they serve as a guide in ensuring sustainability in universities. The existence of a standard guideline for a green campus reduces the question marks and assists universities with the policies and procedures they should follow.

References

Alshuwaikhat, H. M., & Abubakar, I. (2008). An integrated approach to achieving campus sustainability: Assessment of the current campus environmental management practices. Journal of Cleaner Production, 16(16), 1777-1785. https://www.sciencedirect.com/science/article/pii/S0959652607002545

Altun, G., & Zencirkiran M. (2021). University sustainability: Evaluation of international university sustainability ranking systems. In M. Zencirkiran(Ed.), Current practices in landscape architecture (planning, design and landscape plants) (pp. 157-183). Ankara: Night Publishing.

Anonymous 2020a. *Boğaziçi Üniversitesi Çevresel Sürdürülebilirlik Raporu 2019.* Retrieved August 12, 2021 from http://www.boun.edu.tr/Assets/Documents/Dosyalar/2020_Cevresel_Surdurulebilirlik_Raporu.pdf

Anonymous 2020b. *Akıllı Yeşil Kampüs. Su.* Retrieved August 12, 2021 from https://kampus.yildiz.edu.tr/calismalarimiz/su/

Anonymous 2020c. *Akıllı Yeşil Kampüs. Eğitim ve Araştırma.* Retrieved August 12, 2021 from https://kampus.yildiz.edu.tr/calismalarimiz/egitim-ve-arastirma/

Anonymous 2021a. *Bisiklet ve Yaya Öncelikli İTÜ.* Retrieved August 12, 2021 from https://yesilkampus.itu.edu.tr/yesil-kampus/bisiklet-ve-yaya-oncelikli-itu

Anonymous 2021b. *About People & Planet.* Retrieved August 13, 2021, from https://peopleandplanet.org/about/about-us

Anonymous 2021c. *Green League. Brunel University London.* Retrieved August 13, 2021, from https://www.brunel.ac.uk/about/environment/green-league

Anonymous 2021d. *Methodology.* Retrieved August 13, 2021, from https://peopleandplanet.org/university-league-methodology

Anonymous, 2019. *STARS Technical Manual.* Retrieved August 8, 2021, from https://stars.aashe.org/wp-content/uploads/2019/07/STARS-2.2-Technical-Manual.pdf

Anonymous, 2021e. UI GreenMetric World University Rankings: Background of The Ranking. UI Green Metric. Retrieved August 14, 2021, from https://greenmetric.ui.ac.id/about/welcome

Bozloğan, R. (2007). Surdürülebilir Gelişme Düşüncesinin Tarihsel Arka Planı. Kocaeli Üniversitesi Sosyal Siyaset Konferansları, 1012-1028, Retrieved from http://iibf.kocaeli.edu.tr/ceko/ssk/kitap50/39.pdf

Chalfoun, N. (2014). Greening university campus buildings to reduce consumption and emission while fostering hands-on inquiry-based education. *Procedia Environmental Sciences,* (20), 288-297. doi:10.1016/j.proenv.2014.03.036

Geng, Y., Liu, K., Xue, B., & Fujita, T. (2013). Creating "green university" in China: a case of Shenyang University. Journal of Cleaner Production, (61), 13-19. https://www.sciencedirect.com/science/article/pii/S0959652612003514

Guerra, J. B. S. O., Garcia, J., de Andrade Lima, M., Barbosa, S. B., Heerdt, M. L., Berchin, I. I. (2018). A proposal of a Balanced Scorecard for an environmental education program at universities. J. Clean. Prod. 172, 1674–1690. https://www.sciencedirect.com/science/article/pii/S0959652616320418

Gamze A. & Murat Z. Green Metric Sustainability Index: Evaluation of Turkish Universities in the Top 500 Category in 2020. *New Trends and Issues Proceedings on Advances in Pure and Applied Sciences*. 0(14), 13-22.

Hayder, G. (2017). Impact of green campus initiatives on carbon footprint of the university campus: awareness of students. Journal of Energy and Environment, 10(1). Retrieved from http://journal.uniten.edu.my/ojs3/index.php/jee/issue/view/42

Karci D. A. (2019). Examination of the environmentally sustainable campus model in the example of Ege University. (Master Dissertation), Ege University, Izmir. https://dergipark.org.tr/en/pub/zfdergi/issue/56006/638112

Mafongosi, K. N., Awuzie, B. O., & Talukhaba A. A. (2018). Exploring stakeholders' perceptions of the green campus initiative in south African higher education institutions. Journal of Construction Project Management and Innovation, 8(1), 2209-2218. https://journals.co.za/doi/abs/10.10520/EJC-13438e660b

Özdoğan, B., & Civelekoğlu, G. (2019). Development of national environmental sustainability index for university campuses. Journal of Engineering Sciences and Design, 7 (1), 65-80. https://dergipark.org.tr/en/pub/jesd/article/464843

Patel, B., & Patel P. (2012). Sustainable campus of Claris life sciences through green initiatives Renew. Sustain. Energy Rev., 16(7), 4901-4907. https://www.sciencedirect.com/science/article/pii/S1364032112002468

Pereira R. J. M., Hoeckesfeld, L., Dal Magro, C. B., Favretto, J., Barichello, R., Lenzi, F. C., Secchi, L., Montenegro de Lima, C. R., & Salgueirinho Osório de Andrade Guerra, J. B. (2021). Green campus initiatives as sustainable development dissemination at higher education institutions: Students' perceptions. Journal of Cleaner Production, 312, 127671. https://www.sciencedirect.com/science/article/pii/S0959652621018898

Raggazi, M., & Ghidini F. (2017). Environmental sustainability of universities: a critical analysis of a green ranking. *Energy Procedia*, 119, 111-120. https://www.sciencedirect.com/science/article/pii/S1876610217325961

Ribeiro, J. M. P., Autran, A., Santa, S. L. B., Jonck, A. V., Magtoto, M., Faraco, R. Á., & Andrade J. B. S. O. (2020). Identifying and overcoming communication obstacles to the implementation of green actions at universities: a case study of sustainable energy initiatives in south Brazil. *Universities as Living Labs for Sustainable Development*, Springer, Cham, pp. 103-119. doi:10.1007/978-3-030-15604-

Suwartha, N., & Sari, R. F. (2013). Evaluating UI GreenMetric as a tool to support green universities development: assessment of the year 2011 ranking. *Journal of Cleaner Production* 61, 46-53. https://www.sciencedirect.com/science/article/pii/S0959652613001054

UNEP 2021. The UNEP Sustainable University Framework. Retrieved from https://wedocs.unep.org/bitstream/handle/20.500.11822/36341/USUF.pdf

United Nations World Commission on Environment and Development (1991). Ortak Geleceğimiz, Belkıs Çırakçı (çev.), *Türkiye Çevre Sorunları Vakfı Yayını*, Ankara. https://www.un.org/en/academic-impact/sustainability

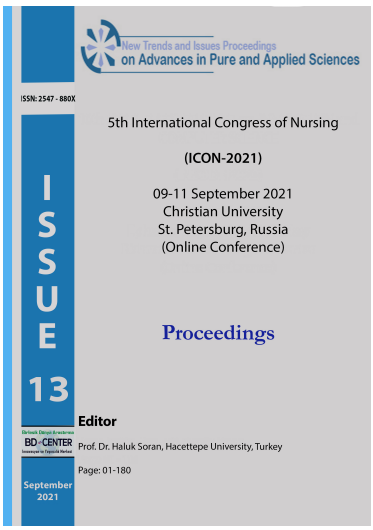
Velazquez, L., Munguia, N., Platt, A., & Taddei, J. (2006). Sustainable university: what can be the matter? Journal of Cleaner Production, 14(9–11), 810-819. https://www.sciencedirect.com/science/article/pii/S0959652606000199

Yalçıner E. Ö. (2018). Sustainable urban planning and design: World examples. Ankara: Gazi Bookstore. https://avesis.gazi.edu.tr/yayin/65ab1b89-025a-4d33-a556-cd88ffdd47d5/surdurulebilir-kentsel-planlama-ve-tasarimdunya-ornekleri



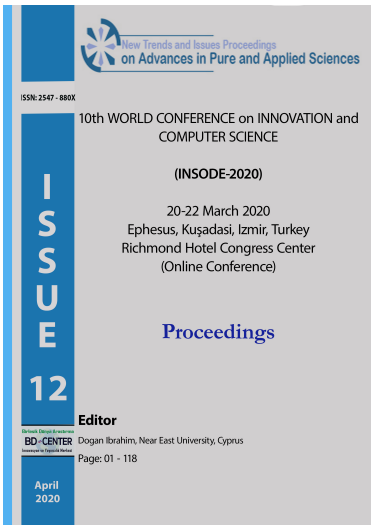
(https://un-pub.eu/ojs/index.php/paas/issue/view/457)

Selected paper of 9th Global Conference on Environmental Studies (CENVISU-2021) (https://un-pub.eu/ojs/index.php/paas/issue/view/457)
No. 14 (2022)



(https://un-pub.eu/ojs/index.php/paas/issue/view/453)

Selected paper of 5th International Congress of Nursing (ICON-2021) (https://un-pub.eu/ojs/index.php/paas/issue/view/453)
No. 13 (2021)



(https://un-pub.eu/ojs/index.php/paas/issue/view/345)

Selected Paper of 10th World Conference on Innovation and Computer Science (INSODE-2020) (https://un-pub.eu/ojs/index.php/paas/issue/view/345)
No. 12 (2020)

Selected Paper of 3rd International Congress of Nursing (ICON-2019) (https://un-pub.eu/ojs/index.php/paas/issue/view/293)
No. 11 (2019)

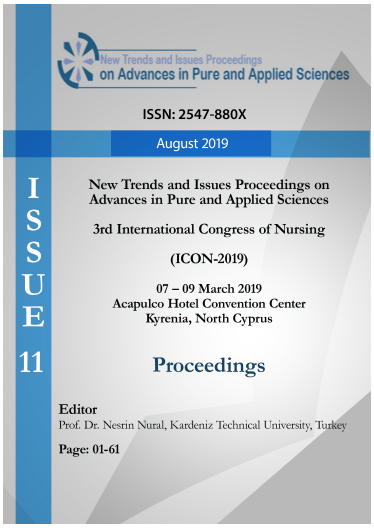
register

Home (https://un-pub.eu/ojs/index.php/paas/index)
Abstracting & Indexing (https://un-pub.eu/ojs/index.php/paas/indexing)
Make a Submission (https://un-pub.eu/ojs/index.php/paas/about/submissi
Publication Ethics (https://un-pub.eu/ojs/index.php/paas/pubet)
Open Access Policy (https://un-pub.eu/ojs/index.php/paas/oap)
Copyright Agreement Form (https://un-pub.eu/copyrightform/index.php/paas-copyright-form)
Online First (https://un-pub.eu/ojs/index.php/paas/onlinefirst)
Register (https://un-pub.eu/ojs/index.php/paas/user/register)
Login (https://un-pub.eu/ojs/index.php/paas/login)
About the Journal (https://un-pub.eu/ojs/index.php/paas/about)
Editorial Board (https://un-pub.eu/ojs/index.php/paas/about/editorial
Author Guidelines (https://un-pub.eu/ojs/index.php/paas/about/submissi
Archives (https://un-pub.eu/ojs/index.php/paas/issue/archive)
Archives 2006-2015 (http://archives.un-pub.eu/index.php/paas/issue/archive)
Proofreading-Editing (http://www.taeg-center.org/proofreading/)
Publisher (https://www.un-pub.eu/publisher/)

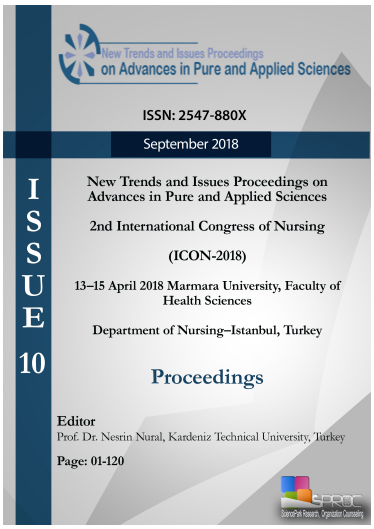
openaccess

OPEN ACCESS (https://en.wikipedia.org/wiki/Open_acces

index_logo



(https://un-pub.eu/ojs/index.php/paas/issue/view/293)



(https://un-pub.eu/ojs/index.php/paas/issue/view/243)

Selected Paper of 2nd International Congress of Nursing (ICON-2018) (https://un-pub.eu/ojs/index.php/paas/issue/view/243)
No. 10 (2018)



(https://un-pub.eu/ojs/index.php/paas/issue/view/176)

Selected Papers of 3rd Global Conference on Material Sciences (GCMAS-2017) (https://un-pub.eu/ojs/index.php/paas/issue/view/176)
No. 9 (2017)

Selected Papers of 4th World Conference on Health Sciences (HSCI-2017) (https://un-pub.eu/ojs/index.php/paas/issue/view/175)
No. 8 (2017)

(https://publons.com/journal/80304/new-trends-and-issues-proceedings-on-advances-in-p)

(https://un-pub.eu/ojs/index.php/paas/oap)

orcid

(https://orcid.org/)

fa

(https://www.facebook.com/Awer-Center-World-1708769969374287/)



(https://un-pub.eu/ojs/index.php/paas/issue/view/175)



(https://un-pub.eu/ojs/index.php/paas/issue/view/198)

Selected Papers of 2nd World Conference on Health Sciences (H-SCI 2015) (https://un-pub.eu/ojs/index.php/paas/issue/view/198)
No. 7 (2016)

Â© 2021 UN-PUB.EU (http://www.un-pub.eu/) | Powered by OJS/ Open Journal Systems (https://pkp.sfu.ca/ojs/) | Public Knowledge Project (https://pkp.sfu.ca/)

Platform & workflow by OJS / PKP

(https://un-pub.eu/ojs/index.php/paas/about/aboutThisPublishingSystem)

Abstracting & Indexing

(http://www.infobaseindex.com/index.php)

ACADEMIA

(http://www.citefactor.org/journal/index/14614/global-journal-on-advances-in-pure-and-applied-sciences#.Wz9btNUzbIU)

(http://journalseeker.researchbib.com/view/issn/2421-8049)

(https://search.crossref.org/?q=New+Trends+and+Issues+Proceedings+on+Advances+in+Pure+and+Applied+Sciences)

(https://scholar.google.com.tr/scholar?hl=en&as_sdt=0%2C5&q=New+Trends+and+Issues+Proceedings+on+Advances+in+Pure+and+Applied+Sciences&btnG=)

register

Home
(https://un-pub.eu/ojs/index.php/paas/index)
Abstracting & Indexing
(https://un-pub.eu/ojs/index.php/paas/indexing)
Make a Submission
(https://un-pub.eu/ojs/index.php/paas/about/submissi
Publication Ethics
(https://un-pub.eu/ojs/index.php/paas/pubet)
Open Access Policy
(https://un-pub.eu/ojs/index.php/paas/oap)
Copyright Agreement Form
(https://un-pub.eu/copyrightform/index.php/paas-copyright-form)
Online First
(https://un-pub.eu/ojs/index.php/paas/onlinefirst)
Register
(https://un-pub.eu/ojs/index.php/paas/user/register)
Login
(https://un-pub.eu/ojs/index.php/paas/login)
About the Journal
(https://un-pub.eu/ojs/index.php/paas/about)
Editorial Board
(https://un-pub.eu/ojs/index.php/paas/about/editorial
Author Guidelines
(https://un-pub.eu/ojs/index.php/paas/about/submissi
Archives You can find all other published issues of the journal from the link provided below.
(https://un-pub.eu/ojs/index.php/paas/issue/archive)
Archives 2006-2015
(http://archives.un-pub.eu/index.php/paas/issue/archive)
Proofreading-Editing
(http://www.taeg-center.org/proofreading/)
Publisher
(https://www.un-pub.eu/publisher/)

openaccess

OPEN ACCESS

(https://en.wikipedia.org/wiki/Open_acces

index_logo

(https://publons.com/journal/80304/new-trends-and-issues-proceedings-on-advances-in-p)

(https://un-pub.eu/ojs/index.php/paas/oap)

orcid

(https://orcid.org/)

fa

(https://www.facebook.com/Awer-Center-World-1708769969374287/)

Â© 2021 UN-PUB.EU (http://www.un-pub.eu/) | Powered by OJS/ Open Journal Systems (https://pkp.sfu.ca/ojs/) | Public Knowledge Project (https://pkp.sfu.ca/)

Platform & workflow by OJS / PKP

(https://un-pub.eu/ojs/index.php/paas/about/aboutThisPublishingSystem)

SEARCH

new trends and issues

Advanced Search

In : ☐ Journals ☐ Articles

Search Results : Found 2

Listing 1 - 2 of 2 |



Journal

New Trends and Issues Proceedings on Advances in Pure and Applied Sciences

ISSN/EISSN :

There is no printed version of the journal. / 2421-8049

Publisher : Sciencepark Research Organization and Counseling

Subject : Pure and Applied Sciences - Proceedings

Country : Cyprus **Language :** English

Start year : 2013



Journal

New Trends and Issues Proceedings on Advances in Pure and Applied Sciences

ISSN/EISSN :

There is no printed version of the journal. / 2421-8049

Publisher : Sciencepark Research Organization and Counseling

Subject : Pure and Applied Sciences - Proceedings

Country : Cyprus **Language :** English

Start year : 2013

Listing 1 - 2 of 2 |

Publisher Login / Register

Journals Recently Accepted for Inclusion

Add Articles

© 2013 InfoBase Index | Powered by INFOBASEINDEX

Search UPLOAD TOOLS Premium Gamze



New Trends and Issues Proceedings on Advances in Pure and Applied Sciences

Near East University, Faculty of Education, Faculty Member | Education

www.propaas.eu

... more

3 Followers | 6 Following | 1,260 Total Views

FOLLOW MESSAGE

PAPERS

Coastal resource use and management on Kilwa Island, southern Swahili Coast, Tanzania

This study analyzed the exploitation and sharing of coastal resources in Swahili maritime society... more

Save to Library Download

2 Views

2264-13848-2-PB.pdf

Save to Library Download

1 View

citefactor.org/journal/index/14614/global-journal-on-advances-in-pure-and-applied-sciences#.Yhc_aehBzIV

CiteFactor Home About Us Impact Factor Publishers Suggest Contact Logi

Top Publication Journals

BUSINESS, ECONOMICS & MANAGEMENT
CHEMICAL & MATERIAL SCIENCES
ENGINEERING & COMPUTER SCIENCE
HEALTH & MEDICAL SCI
HUMANITIES, LITERATURE & ARTS
LIFE SCIENCES & EARTH SCIENCES
PHYSICS & MATHEMATICS
SOCIAL SCIENCES

Ad closed by Google

Categories

Articles 201751
Journals 22735

News

Journal Impact Factor Report 2021
Date: 14th February, 2021

Submit Journal for Impact Factor Evaluation
Date: 10th May, 2020

Submit Your Journal for Indexing
Date: 10th May, 2020

Journal Impact Factor Report 2020
Date: 22nd April, 2020

Journal Impact Factor Report 2018
Date: 24th November, 2018

World's Largest Indexing of Scholarly Journals

Citefactor Member Journals
» Get Journal Impact Factor
» Research Paper Indexing
» Millions of Subscribers

Global Journal on Advances in Pure and Applied Sciences

Global Journal on Advances in Pure & Applied Sciences is a multi-dimensional journal which covers all aspects of scientific and technical disciplines including pure and applied sciences, health, environmental and material sciences, applied natural sciences including physics, chemistry and biology, application of scientific inventions for medical purposes, advances in technology, computer science and communication technology. This journal serves as a platform that fosters new applications for all scientists engaged in research and development in these fast growing fields in an international arena. Global Journal on Advances in Pure & Applied Sciences will publish selected double-blind peer-reviewed papers from conferences with an emphasis in these applied disciplines. Conferences should be relevant to an international audience, with a focused theme and cover timely topics. The aim of the journal is to publish original research, development and review articles to contribute to the development of all these areas.

URL: http://sproc.org/paas/

Keywords: Pure and applied sciences

ISSN: There is no printed version of the journal.

EISSN:2421-8049

Subject: Social Sciences

Publisher: Sciencepark Research Organization and Counseling LTD.

Year: 2013

Country: Cyprus

Research Paper Indexed by Citefactor - Not Available

Views: 1004

Search

Keywords

Journals Articles

Advance Search

EOI Electronic Object Identifier

Note: Get EOI for Journal/Conference/ Thesis paper. (contact: eoi@citefactor.org).

RESEARCH PAPER INDEXING

Scholarly Articles Indexing Process Now started for All Citefactor Member &Verified Journals >>

POWERED BY CiteFactor

ResearchBib Share Your Research, Maximize Your Social Impacts
Sign for Notice Everyday Sign up >> Login English

Academic Resource Index ResearchBib

Home Paper Archives Journal Indexing Research Conference Research Position

Main Menu
My Profile
My Journal
Add Journal
Searching By
Search More ...
PARTNERS

Advertise Your Business Here
Text Link
AdBanner
Contact Us ?

Like 1 Tweet

Advertisement

New Trends and Issues Proceedings on Advances in Pure and Applied Sciences (ISSN: 2421-8049)

Publisher: Sciencepark Research Organization and Counseling

ISSN-L: 2421-8049

E-ISSN: 2421-8049

IF(Impact Factor): 2022 Evaluation Pending

Website: http://www.propaas.eu

1. Global Journal on Advances in Pure and Applied Sciences
2. New Trends and Issues Proceedings on Humanities and Social Sciences
3. Advances in Pure and Applied Chemistry
4. Bulletin of Pure and Applied Sciences - Section F Geological Sciences
5. Journal of Pure and Applied Mathematics: Advances and Applications

Description

New Trends and Issues Proceedings on Advances in Pure and Applied Sciences is a multi-dimensional journal which covers all aspects of scientific and technical disciplines including pure and applied sciences, health, environmental and material sciences, applied natural sciences including physics, chemistry and biology, application of scientific inventions for medical purposes, advances in technology, computer science and communication technology. This journal serves as a platform that fosters new applications for all scientists engaged in research and development in these fast growing fields in an international arena.

New Trends and Issues Proceedings on Advances in Pure and Applied Sciences will publish selected double-blind peer-reviewed proceedings from conferences with an emphasis in these applied disciplines. Conferences should be relevant to an international audience, with a focused theme and cover timely topics. The aim of the journal is to publish original research, development and review articles to contribute to the development of all these areas.

Last modified: 2017-06-03 07:36:37

Volumes

No Archives

About
ResearchBib
Careers
Contact us

Legal
Terms of Service
Privacy Policy
Ad Choices
Cookies

© 2022 ResearchBib. All Rights Reserved.

Green metric sustainability index: Evaluation of Turkish universities in the Top 500 category in 2020

G Altun, M Zencirkiran - New Trends and Issues Proceedings on …, 2022 - un-pub.eu

University sustainability activities have become increasingly important as interest in sustainable campuses has grown. Several sustainability indexes, such as University League, Sustainability Tracking, Assessment Rating System, and Green Metric, that increase awareness of sustainability, are used in university evaluations. This study aims to examine international environmental sustainability Indexes and make comparisons were between them. The Green Metric ranking system, which is known to be the most preferred …

☆ Save 99 Cite »

Showing the best result for this search. See all results

Editorial Team

Editor-in-Chief

Prof. Dr. Haluk Soran (https://www.akademikbilgisistemi.com/akademisyen/prof-dr-haluk-soran/), Hacettepe University, Turkey (Retired)

Editorial Board

Health Sciences

Nilgün Sarp (https://www.researchgate.net/profile/Nilgun_Sarp), Istanbul Bilgi University, Turkey

Nesrin Asti (https://www.researchgate.net/profile/Nesrin_Asti), Istanbul Arel University, Turkey

Paul Bennett (https://www.swansea.ac.uk/staff/human-and-health-sciences/psychology/p.d.bennett/), Swansea University, UK

Efsun Ezel Esatoğlu (http://cv.ankara.edu.tr/kisi.php?id=esatoglu@health.ankara.edu.tr&deger=1), Ankara University, Turkey

Supat Chupradit**,** (https://th.linkedin.com/in/drsupat) Chiang Mai University, Thailand

Environmental Sciences

Murat Sönmez (http://users.metu.edu.tr/sonmez/), Middle East Technical University Northern Cyprus Campus, Cyprus

Nehir Varol, (http://bemyo.ankara.edu.tr/akademik-personel-2/) Ankara University, Turkey

Material Sciences

Osman Adıgüzel (https://abs.firat.edu.tr/oadiguzel), Fırat University, Turkey

Technology

Ahmed MancyMosa (https://scholar.google.com/citations?hl=en&user=MY3B7LUAAAAJ), Al-Mansour University College, Iraq

International Advisory Board

M. Abd El-Aty (https://scholar.cu.edu.eg/?q=abdelaty/biocv), University of Cairo, Egypt

Alpaslan, M. Necdet (http://debis.deu.edu.tr/akademiktr/index.php?cat=3&akod=19912509), Dokuz Eylul University, Turkey

Aron Rose (https://medicine.yale.edu/education/ethics/people/aron_rose.profile), Yale University School of Medicine

Afet Arkut (http://www.ciu.edu.tr/en/academic/faculties/faculty-health-sciences/academic-staff?cv=aarkut), Cyprus International University, North Cyprus

Adam Lee (https://uk.linkedin.com/in/adam-lee-07b41310), Cardiff University, UK

Anthony Cheetham (https://www.nanodtc.cam.ac.uk/directory/anthony-cheetham), University of Cambridge, UK

Ballesteros Florencio (https://scholar.google.com.ph/citations?user=HUOeMhYAAAAJ&hl=en), C. Jr., University of the Philippines Diliman, Philippines

Bob Lawrence (https://www.jhsph.edu/faculty/directory/profile/404/robert-s-lawrence), Johns Hopkins Center for Global Health, Baltimore, Maryland

Cetin Bolcal (https://www.researchgate.net/profile/Cetin_Bolcal), Istanbul Kültür University, Turkey

Chang-jun Liu (https://ca.linkedin.com/in/chang-jun-liu-6b509242), FRSC,Tianjin University, China

Christos Zerefos (http://www.bioacademy.gr/faculty-details/GMg/christos), University of Athens, Greece

Dietmar Hutmacher (https://www.tri.edu.au/staff/dietmar-hutmacher), Queensland UnivDanai Papadatou, University of Athens, Faculty of Nursingersity of Technology, Australia

David Bouslough (https://www.lifespan.org/david-b-bouslough-md-mph), Warren Alpert Medical School of Brown University

Deniz Dolden (http://debis.deu.edu.tr/akademiktr/index.php?cat=3&akod=19940385), Dokuz Eylul University, Turkey

Ehud Gazit (https://en-lifesci.tau.ac.il/profile/ehudg), Tel Aviv University, Israel

Elizabeth Bradley (https://en.wikipedia.org/wiki/Elizabeth_H._Bradley), Yale University, US

Fatma Eti Aslan (https://scholar.google.com/citations?user=NlbTZTsAAAAJ&hl=en), AcÄ±badem University, Turkey

Fatma Oz (http://www.hemsirelik.hacettepe.edu.tr/tr/profdr_fatma_oz_-153), Hacettepe University, Turkey

Fahrettin Yakuphanoglu (https://abs.firat.edu.tr/fyhanoglu), Fırat University, Turkey

Gianluca Ciardelli (https://didattica.polito.it/pls/portal30/sviluppo.scheda_pers_swas.show?m=16036), Politecnico di Torino, Italy

Greta R. Patzke (https://www.chem.uzh.ch/en/research/groups/patzke/curriculumVitae.html), University of Zurich, Switzerland

Gail W. Stuart (https://www.researchgate.net/scientific-contributions/39307603_Gail_W_Stuart), Medical University of South Carolina

Geoffrey Tabin (https://medicine.utah.edu/faculty/mddetail.php?facultyID=u0497737), University of Utah, USA

Grant Miller (https://profiles.stanford.edu/norman-miller), Stanford University, USA

Giti Karimkhanlooei (https://www.researchgate.net/profile/Giti_Karimkhanlooei), Zanjan University of Medical Sciences, Iran

Hasan Mandal (http://myweb.sabanciuniv.edu/hmandal/), Sabancı University, Turkey

Huseyin Uzunboylu (https://scholar.google.com/citations?user=hK_2rl8AAAAJ&hl=en), Near East University, North Cyprus

Henny Van Lanen (https://www.researchgate.net/profile/Henny_Van_Lanen), Wageningen University, Netherlands

James Durrant (https://en.wikipedia.org/wiki/James_Robert_Durrant), Imperial College London, UK

Jin Young Kim (https://www.researchgate.net/scientific-contributions/2076599697_Jin_Young_Kim), Seoul National University, Seoul, South Korea

register

Home (https://un-pub.eu/ojs/index.php/paas/index)

Abstracting & Indexing (https://un-pub.eu/ojs/index.php/paas/indexing)

Make a Submission (https://un-pub.eu/ojs/index.php/paas/about/submissi

Publication Ethics (https://un-pub.eu/ojs/index.php/paas/pubet)

Open Access Policy (https://un-pub.eu/ojs/index.php/paas/oap)

Copyright Agreement Form (https://un-pub.eu/copyrightform/index.php/paas-copyright-form)

Online First (https://un-pub.eu/ojs/index.php/paas/onlinefirst)

Register (https://un-pub.eu/ojs/index.php/paas/user/register)

Login (https://un-pub.eu/ojs/index.php/paas/login)

About the Journal (https://un-pub.eu/ojs/index.php/paas/about)

Editorial Board (https://un-pub.eu/ojs/index.php/paas/about/editorial

Author Guidelines (https://un-pub.eu/ojs/index.php/paas/about/submissi

Archives You can find all other published issues of the journal from the link provided below. (https://un-pub.eu/ojs/index.php/paas/issue/archive)

Archives 2006-2015 (http://archives.un-pub.eu/index.php/paas/issue/archive)

Proofreading-Editing (http://www.taeg-center.org/proofreading/)

Publisher (https://www.un-pub.eu/publisher/)

openaccess

OPEN ACCESS (https://en.wikipedia.org/wiki/Open_acces

index_logo

Jamie Jones (https://www.linkedin.com/in/jnjones), Kellogg School of Management
Jeanne Marazzo (https://www.researchgate.net/scientific-contributions/2052893541_Jeanne_Marrazzo), University of Washington, US
Jesus Garcia Lobardo (https://www.uah.es/es/estudios/profesor/Jesus-Garcia-Laborda/), Universidad de Alcala, Spain
Joel Finkelstein (https://sunnybrook.ca/research/team/member.asp?t=10&m=60&page=527), Sunnybrook Health Sciences Centre, Toronto, ON
John Nestler (https://intmed.vcu.edu/about/leadership/nestler.html), Virginia Commonwealth University School of Medicine
Haluk Soran (https://www.linkedin.com/in/haluk-soran-33043036), Hacettepe University, Turkey
Hannele Turunen (https://www.uef.fi/web/hoitotiede/hannele-turunen), Faculty of Health Sciences, University of Eastern Finland
Howard. S. Wheater (https://sens.usask.ca/people/faculty/core-faculty/wheater-howard.php), University of Saskatchewan, Canada
İlkay Salihoğlu (https://kyrenia.edu.tr/home/academic/faculties/faculty-of-maritime-management-and-administration/departments/maritime-management-administration/academic-staff/prof-dr-ilkay-salihoglu/?lang=en), University of Kyrenia, Cyprus
Komilis, Dimitris (https://gr.linkedin.com/in/dimitrios-komilis-m-sc-ph-d-4540a125), Democritus University of Thrace, Greece
Kobus Maree (http://www.kobusmaree.org/), Pretoria University, South Africa
Kunio Awaga (http://advmat.chem.nagoya-u.ac.jp/mem_awaga_e.html), Nagoya University, Japan
Karol Watson (https://www.uclahealth.org/karol-watson), Professor of Medicine
Kavita Kavita Vedhara (https://www.nottingham.ac.uk/medicine/people/kavita.vedhara), University of Nottingham
Lapo Bogani (https://uk.linkedin.com/in/lapo-bogani-50a59254), University of Stuttgart, Germany
Laura Esserman (https://www.google.com/search?q=Laura+Esserman%2C+University+of+California%2C+USA&oq=Laura+Esserman%2C+University+of+California%2C+U[illegible]69i57.669j0j4&sourceid=c[illegible]8), University of California, USA
Lyberatos Gerasimos (https://www.researchgate.net/profile/Gerasimos_Lyberatos), National Technical University of Athens, Greece
Markus Antonietti (http://www.mpikg.mpg.de/colloid-chemistry/director/markus-antonietti), Max Planck Institute of Colloids and Interfaces, Potsdam, Germany
Mehmet Ozer (https://tr.linkedin.com/in/mehmet-ozer-ab5461b1), Istanbul Kültür University, Turkey
Margaret McConnell (https://www.hsph.harvard.edu/margaret-mcconnell/), Harvard School of Public Health, Boston
Maciej Wilczak (https://www.researchgate.net/profile/Maciej_Wilczak), Faculty of Health Sciences,Poznan Ãœniversity of Medical Sciences, Poland
Melissa McNeil (https://profiles.dom.pitt.edu/dgim/faculty_info.aspx/McNeil4818), University of Pittsburgh Medical Center
Michael Guiver (https://www.pubfacts.com/author/Michael+D+Guiver), National Research Council of Canada, Canada
Mikdat Kadıoglu (https://uubf.itu.edu.tr/en/academics/meteorological-engineering/staff/prof-dr-mikdat-kadioglu), Istanbul Technical University, Turkey
Murat Sonmez (https://ncc.metu.edu.tr/getprofile/sonmez), Middle East Technical Universty, Cyprus
Neil Hyatt (https://scholar.google.at/citations?user=25A0ad8AAAAJ&hl=en),The University of Sheffield, UK
Nehir Varol (http://bemyo.ankara.edu.tr/akademik-personel-2/), Ankara University, Turkey
Nikos Thomaidis (https://www.researchgate.net/profile/Nikolaos_Thomaidis), University of Athens, Greece
Nermin Olgun (https://tr.linkedin.com/in/nermin-olgun-38666848), AcÄ±badem University, Turkey
Patrick Grant (http://www.materials.ox.ac.uk/peoplepages/grant.html) , University of Oxford, UK
Pasquale Patrizio (https://www.researchgate.net/profile/Pasquale_Patrizio), Yale University, US
Paul Bennett (https://www.swansea.ac.uk/staff/human-and-health-sciences/psychology/p.d.bennett/), Swansea University, UK
Peter Hotez (https://www.bcm.edu/people/view/peter-hotez-m-d-ph-d/b1846a47-ffed-11e2-be68-080027880ca6), Baylor College of Medicine
Peter Skabara (https://www.gla.ac.uk/schools/chemistry/staff/peterskabara/), University of Strathclyde, UK
Rasit Turan (http://users.metu.edu.tr/turanr/), Middle East Technical University, Turkey
Richard Gross (https://www.acs.org/content/acs/en/careers/college-to-career/chemists/richard-gross.html), NYU Poly, USA
Rincon Cardana (http://sobipro.manizales.unal.edu.co/index.php/directorio-institucional/1849-FABIO-RINCON-CARDONA), Universidad Nacional de Colombia, Colombia
San Miguel Guillermo, (https://www.researchgate.net/profile/Guillermo_San_Miguel) Universidad Politecnica de Madrid, Spain
Savita Chandra (https://in.linkedin.com/in/dr-savita-chandra-00b07b80), Goa Medical College and Hospital, India
Stephen Mann FRS, (http://www.stephenmann.co.uk/) University of Bristol, UK
Steven McIntosh (https://www.researchgate.net/scientific-contributions/85426464_Steven_McIntosh), Lehigh University, USA
Steven M Ross (https://education.jhu.edu/directory/steven-m-ross-phd/), Johns Hopkins University, USA
Sven Wagner (https://www.linkedin.com/company/sails-for-science-foundation), Sails for Science Foundation, Germany
Thomas Albrecht-Schmitt (https://www.chem.fsu.edu/bio-t.php?userID=1230), University of Notre-Dame, USA
Thorsten Wagener (http://www.bristol.ac.uk/engineering/people/thorsten-wagener/), University of Bristol, UK
Timothy Swager (https://lemelson.mit.edu/winners/timothy-m-swager), Massachusetts Institute of Technology, USA

(https://publons.com/journal/80304/new-trends-and-issues-proceedings-on-advances-in-p)

(https://un-pub.eu/ojs/index.php/paas/oap)

orcid

(https://orcid.org/)

fa

(https://www.facebook.com/Awer-Center-World-1708769969374287/)

Note: *All members of international advisory board articles' indexed in SSCI.*

Â© 2021 UN-PUB.EU (http://www.un-pub.eu/) | Powered by OJS/ Open Journal Systems (https://pkp.sfu.ca/ojs/) | Public Knowledge Project (https://pkp.sfu.ca/)



(https://un-pub.eu/ojs/index.php/paas/about/aboutThisPublishingSystem)