



Goal 15 – Life on Land



Our Aim

In order to achieve the SDG 15 which aims to protect, restore, and foster sustainable use of terrestrial ecosystems, managing forests sustainably, battling desertification, halting and reversing land degradation, and promoting biodiversity conservation. AASTMT is a leading institution at the local, Arab and international levels, and has made an effort to achieve the following goals:

- 1- Educational and training programs with international standards for students to be aware of how to protect ecosystem and how to contribute sustainable use of land.
- 2- Waste management and plastic recycling policy.
- 3- Arranging initiatives like climutopia, stop food loss and waste and energy management.

Last Year Recorded

Worldwide 306

Egypt 7

Our Progress through 20/21

Teaching

Environmental Studies 1

https://aast.edu/pheed/show_course11.php?get_code=AR362

Engineering Geology

https://aast.edu/pheed/show_course11.php?get_code=CB361

Environmental & Sanitary Engineering



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https://aast.edu/pheed/show_course11.php?get_code=CB532

Environmental Control and Energy in Buildings

https://aast.edu/pheed/show_course11.php?get_code=CB533

Special Topics in Environmental Engineering

https://aast.edu/pheed/show_course11.php?get_code=CB534

Virtual Environments

https://aast.edu/pheed/show_course11.php?get_code=CS453

Initiatives

1- World earth day

<https://aastmtic2.aast.edu/sri/sdg15/15.3.5.pdf>

April 2021
يوم الأرض العالمي
 22 أبريل
 تحت رعاية
 سعادة الأستاذ الدكتور / اسماعيل عبد الفشار اسماعيل شرج
 رئيس الأكاديمية العربية للعلوم والتكنولوجيا والنقل البحري
أول احتفالية 1970
 يحتفل في هذا المنهال
 الأستاذ الدكتور / هشام الصكر
 استراتيجيات
 المستدامة
 الأرضية
 البيئية
 لتحديات التنمية
 المستدامة
 On the usage of Earth
 observations to address
 key environmental
 challenges along the
 sustainable
 development goals
 وكان يوم الخميس الموافق
 2021/4/22 في تمام الساعة
 12:30 ظهرا بتوقيت القاهرة

2- Engineers for the future Egypt

<https://rayetmisr.com/30466-2/>



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3- climotupia





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https://aast.edu/en/sdg/goals.php?menutab=22&unit_item=1213&page_id=12130000

حماة المناخ Climate protectors

In the framework of COP 27 which will be held in Sharm in November 2022, the Arab Academy for Science, Technology, and Maritime Transport (AASTMT) organize the Climate Protectors Initiative at **Abou Kir Campus, Alexandria, Egypt**.

This event seeks to

- Raise the awareness of young people, to be involved in taking an active role in their local communities.
- Practice some skills for reducing the carbon footprint of participants in their daily life by changing some habit.
- Exemplify green opportunities for work and development.
- Help the Participants to develop ideas, initiatives and projects that support and enhance the adaptation and resilience of local communities to climate change.

27-28 February 2022





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4- prepare for green

https://aast.edu/en/news.php?unit_id=419&language=1&event=40&get_event_type=1



5- Go green

http://www.aast.edu/en/news.php?page=12&event=22&unit_id=531&language=1&get_event_type=1

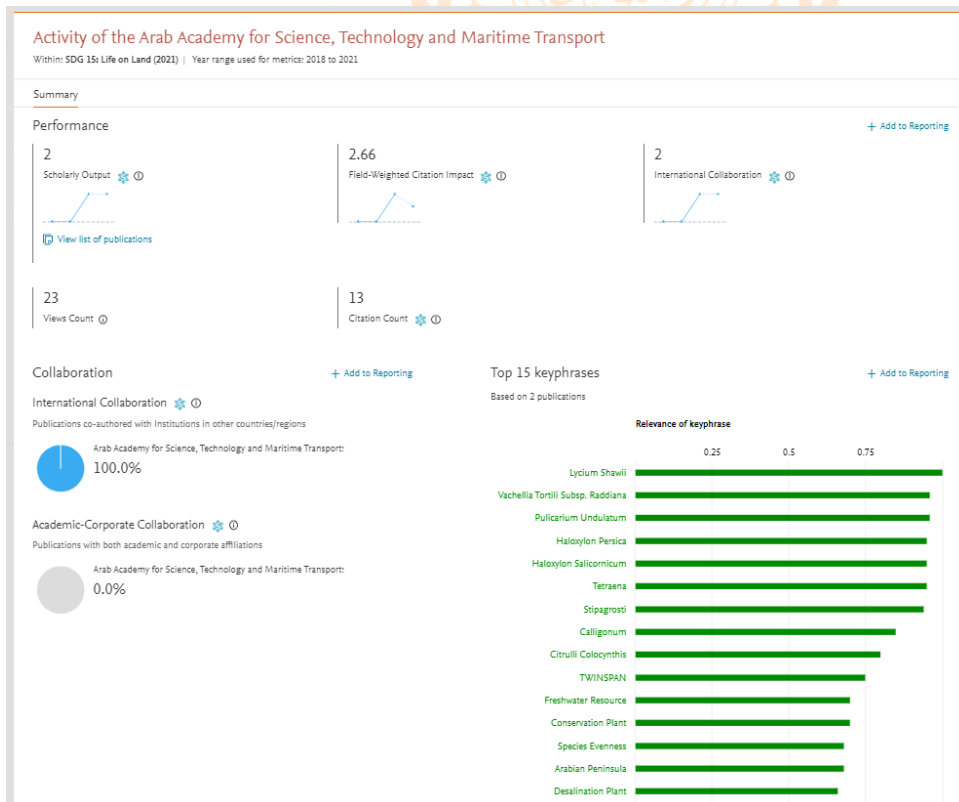


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Research

https://aast.edu/en/sdg/goals.php?menutab=7&unit_item=1215&page_id=121500003





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- High Level Renewable and Energy Efficiency Master Courses
- Knowledge exchange in sustainable Fisheries management and Aquaculture in the Mediterranean region

https://aast.edu/en/sdg/goals.php?menutab=10&unit_item=1213&page_id=121300007

Public Engagement

- 1- Symposium on the role of the media in raising environmental awareness and the “Be prepared for the green” initiative

<https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.elmogaz.com%2F698920&psig=AOvVaw3Fn9R0hxf2OcmGZJAp77pg&ust=1667849102771000&source=images&cd=vfe&ved=OC A0QjRxqFwoTCLjcqJ2kmvsCFQAAAAAdAAAAABAE>



- 2- Ministry of Environment Honors the Academy

<https://aast.edu/en/csr/news.php?unit=1&event=3779&language=2>

- 3- No plastic bags

<https://www.bing.com/search?q=google+translate&form=ANNT11&refig=299ffe94c282407c87f59d1b69d4215c&sp=6&q=AS&pq=google&sk=AS5&sc=10-6&cvid=299ffe94c282407c87f59d1b69d4215c>



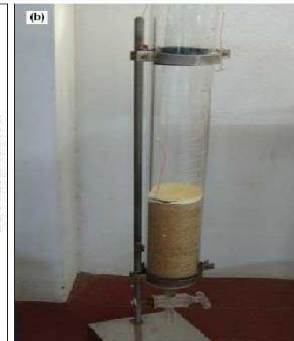
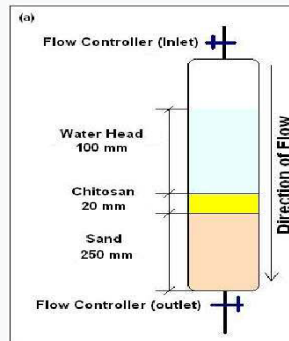
Case Study

Mention brief Details about one of the research or initiatives and then mention the output

(Note: try to add statistics for any of the above points)

Synthesis and Characterization of Metal-Organic Frameworks in Petroleum Oil-Contaminated Wastewater

One of the research that utilizing in various environmental applications such as the treatment of industrial contaminated wastewater with carcinogenic heavy metals and microorganisms to achieve sustainable use of water and land and use of this water for agricultural irrigation. The aim of the research includes the preparation and characterization of metal-organic framework/composites. The hydrogel composite consist of [chitosan & 1-MOF (Metal Organic Framework 'Zirconium Chloride)] and act as adsorbent.



Results

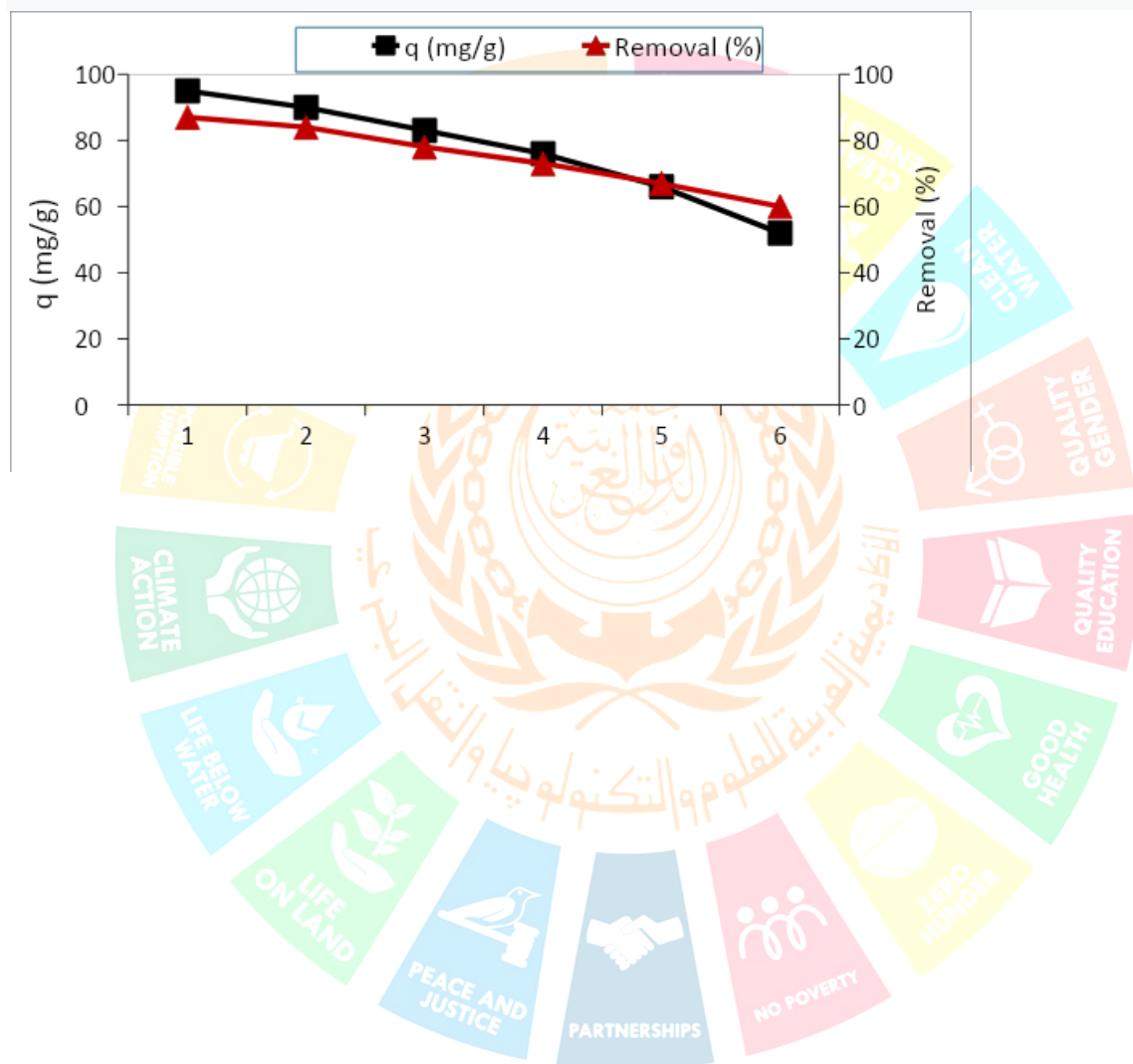
Reusability

The reusability of the adsorbent is a very important factor from an economic point of view since it affects directly on the production cost of adsorbents. In this study, the ability of the prepared CS-MOF (UIO-66-NH₂) adsorbent to be reuse in the adsorption of heavy metal was studied via conducting the adsorption-desorption experiments as investigated. The results indicated that adsorbent still has good adsorption properties after conducting six repeated adsorption-desorption cycles. Where, the removal (%) of heavy metal still exceeded 60 % after six-cycles with maximum adsorption capacity reached 52 mg/g. This reveals that the developed adsorbent



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beads could be used efficiently as a reusable and ecofriendly adsorbent for removing of ions from their aqueous solution.





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This research won the second place in IEEE from special track and made it to the finals in India



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#lamHKN

PRELIM OF
YESIST12
AGE OF INNOVATION

Mu Beta Chapter of IEEE Eta Kappa Nu
AASTMT Alexandria

CONGRATULATIONS
SPECIAL TRACK

2

EMB
Years Of Excellence

HKN

AASTMT ALEX
Special Club

RUNNER UP

50
Years Of Excellence

HKN
IEEE-Eta Kappa Nu

Mu Beta Chapter
Arab Academy for Science, Technology
& Maritime Transport (AASTMT)

QUALITY
GENDER
EDUCATION



[بالاكاديمية العربية بابي قير | عقدت لأول مرة في مصر فعاليات المرحلة \(IEEE-YESIST12\) فعاليات المرحلة التمهيدية للمسابقة الدولية](#)
[| ...و التي IEEE-HKN Mu Beta Chapter من تنظيم فرع الجمعية الشرفية للمنظمة الدولية IEEE-YESIST12 التمهيدية للمسابقة الدولية](#)
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