



Pharos University in Alexandria
Vice President for Graduate Studies & Research
International Ranking committee



THE Impact Ranking SDG9 Report

SDG

9

Industry, Innovation
and Infrastructure





SDG 9 Industry, Innovation and Infrastructure

Investments in infrastructure – transport, irrigation, energy and information and communication technology – are crucial to achieving sustainable development and empowering communities in many countries. Innovation through links to industry is explored.

Industry, Innovation and Infrastructure Events

Protocol on Cooperation Between PUA and ANRPC



The highly ranked delegation from Alexandria National Refine & Petrochemical Company (ANRPC) visited PUA on Wednesday, March 9th, 2022. The delegation was headed by Chem. Salah Gaber Bahnasy, Chairman and Managing Director. It also included Eng. Ghada Abdul Hameed, Technical Office Director-General, Acc. Mohammad Ali Assi, Assistant Director for Financial Affairs, Chem. Essam Qabari, Director-General of Industrial Safety, Chem. Hany Mahmoud, Director-General of Operations, Mr. Abdul Latif Nazrah, Director-General of Public Relations. The delegation was welcomed in PUA's Council Hall on the 3rd floor by Prof. Dr. Mahmoud Mohy El Din, PUA's President, Prof. Dr. Ramadan Abu El Ella, Vice-President for Community Service and Environment Development, Prof. Dr. Abbas Anwar, Head of Petrochemical Engineering, Prof. Dr. Mohammad Yehia Al Mekki, Lecturer in the Faculty of Engineering, Chem. Hossam Anwar, Lecturer in the Petrochemical Engineering Department, and Dr. Fathy Lecturer in the Petrochemical Engineering Department.

Both parties discussed the possibilities of mutual cooperation in the training field and participation in solving the technical issues, to which PUA can help find practical solutions. Further, both parties agreed on the necessity of optimal utilization of the possibilities available to each respective party in conformity with the state's strategy in terms of connecting the industrial institutions with production sites, and the Egyptian scientific and academic institutions to achieve the developmental objectives of the Egyptian society. To this end, both parties

agreed on a protocol for cooperation that was signed by Prof. Dr. Mahmoud Mohy El-Din, as PUA President and Chem. Salah Gaber Bahnasy, as Chairman and Managing Director of ANRPC.

<https://www.pua.edu.eg/protocol-on-cooperation-between-pua-and-anrpc/>

Faculty of Engineering Organizes a Workshop: Industry 4.0 and Digital Twinning in Effective Teaching

Due to the implications of Industry 4.0, major changes occurred to the businesses that strongly affected manufacturing processes and competitive features of local and international companies, industries, and systems.

In this regard, the Faculty of Engineering, PUA organized a workshop that aims at contributing to the discussion on the effect of Industry 4.0 through surveying academic and industrial viewpoints. This can be done through the application of the technologies of the 21st century Industry 4.0. These technologies include Smart Manufacturing, Industrial Internet of Things, PC-based Controls, Autonomous Things (AuT), AR/VR, and Artificial Things, which are considered the core of Industry 4.0.



<https://www.pua.edu.eg/faculty-of-engineering-organizes-a-workshop-industry-4-0-and-digital-twinning-in-effective-teaching/>

PUA's Faculty of Engineering Sign a Cooperation Protocol with TÜV AUSTRIA



In the context of supporting the academic study of the Faculty students, providing them with practical and field experiences, and linking the curricula with industrial fields to achieve the sought integration, Prof. Dr. Mohamed Gaber Abou Ali, Dean of the Faculty of Engineering along with a group of the Faculty professors welcomed Mr. Osama El-Sayed Ibrahim, Regional Director of TÜV AUSTRIA, on Wednesday, January 26, 2022. The meeting included the signing of a cooperation protocol between PUA's Faculty of Engineering and TÜV Austria.

In addition, during this meeting, aspects of cooperation between the two parties were tackled. These aspects included providing training opportunities and specialized workshops for the faculty students, and providing experienced staff to supervise the students' research and projects at the faculty, which would provide solutions to some of the industry's problems. In a similar context, the faculty organizes training programs, workshops, conferences, and seminars for the company's employees. It also provides academic consultations in light of the experience of its professors to solve some of the company's problems, which requires conducting research and studies in this regard.



<https://www.pua.edu.eg/puas-faculty-of-engineering-sign-a-cooperation-protocol-with-tuv-austria/>

PUA Signs a Protocol on Cooperation with Alexandria Specialty Petroleum Products Company (ASPPC)

On Early Tuesday, 22 Feb 2022, a high-ranking delegation of Alexandria Specialty Petroleum Products Company (ASPPC) visited PUA. The delegation was headed by Chem. Dr. Mosaad Attia Al Qasabi, Chairman and Managing Director. The delegation also included Eng. Eid Qassim, Assistant Director of Production, Eng. Ayman Hegazi, Assistant Director of Technical Affairs, Dr. Tariq Abbas, Assistant Director of Marketing, Acc. Ez Abdul Salam, Director-General of Supplies, Dr. Bassim Abdullah, Director-General of Technology and Development.



The delegation was hosted in PUA's Grand Hall by Prof. Dr. Mahmoud Mohy El-Din, President, Prof. Ramadan Abu El-Ala, Vice President of Community Service & Environment Development Affairs, Prof. Dr. Prof. Mohamed Gaber Abou Ali, Dean of the Faculty of Engineering, Prof. Dr. Gamal Elbhery, Dean of the Faculty of Computer Science & Artificial Intelligence, Prof. Dr. Mohamed Yahia Al Mekki, Professor of Engineering, and a number of faculty members of the Faculty of Engineering.



Both parties discussed mutual cooperation possibilities in training fields and participating in solving the technical issues, to which PUA can contribute in finding practical solutions. Thus, the parties agreed on the necessity



of the optimal use of each party's available capabilities in a manner compliant with the state's strategy in terms of connecting the industrial institutions with production sites, and the Egyptian scientific and academic institutions to achieve the developmental objectives of the Egyptian society. To this end, both parties agreed on a protocol for cooperation that was signed by Prof. Dr. Mahmoud Mohy El-Din, as PUA President and Chem. Dr. Mosaad Attia Al Qasabi, as Chairman and Managing Director of Alexandria Specialty Petroleum Products Company (ASPPC).

<https://www.pua.edu.eg/pua-signs-a-protocol-on-cooperation-with-alexandria-specialty-petroleum-products-company-asppc/>

Protocol on Cooperation Between PUA and Alexandria Mineral Oils Company (AMOC)

A prestigious delegation from Alexandria Mineral Oils Company (AMOC) headed by Chem. Ehab Ahmed Abdul Halim, Chairman and Managing Director, visited PUA on early Monday 07/02/2022. It included Mrs. Hala Wagih, Assistant Director for Training and Human Resources Development, and Mrs. Rania Al Maleki, Director-General for Media and External Affairs, Eng. Mohammad Abdul Razaq, Director-General of the Public Administration for Chemical Labs, along with other leading staff members. The delegation was welcomed in PUA's Grand Hall by Prof. Dr. Ramadan Abu Al Ella, Vice-president for Community Services and Environment Development, Prof. Dr. Mohamed Gaber Abou Ali, Dean of the Faculty of Engineering, Prof. Dr. Gamal Behiry, Dean of the Faculty of Computer Science and Artificial Intelligence, Prof. Dr. Mohammad Yahia Al Mekki, Faculty of Engineering, as well as other faculty members of the Faculty of Engineering.

Both Parties have tackled the prospects of mutual cooperation in training fields, and participation in solving the technical issues, to which PUA can contribute in finding practical solutions. Accordingly, both parties have agreed on making optimal use of their respective capabilities in a manner compliant with the state's strategy in terms of connecting industrial institutions and production sites, with the Egyptian Scientific and Academic Institutions to achieve the developmental objectives of the Egyptian society. To achieve that, a protocol on cooperation has been signed by Prof. Dr. Ramadan Abu Al Ella, PUA's Vice-president for Community Services and Environment Development and Chem. Ehab Ahmed Abdul Halim, as Chairman and Managing Director of Alexandria Mineral Oils Company (AMOC).



<https://www.pua.edu.eg/protocol-on-cooperation-between-pua-and-alexandria-mineral-oils-company-amoc/>

Cooperation Protocol between Pharos University and Arab Organization for Industrialization

A high-level delegation from the Arab Organization for Industrialization visited Pharos University (P.U.A), and the delegation was headed by Major General /Ahmed Abdel Aziz – chairman of the board of directors of the electronics factory in the organization. The delegation included Dr. Essam Mansour – Advisor to the chairman of the board of directors of the electronics factory and Eng. Ashraf Khalil – head of the Human Resources



sector. The two parties discussed the possibilities of cooperation in the fields of scientific research, training and participation in solving technical problems for the sake of carrying out research and patents and benefiting from the scientific and human capabilities at Pharos university and the Arab Organization for Industrialization. The delegation was received by Prof. /Mahmoud Mohy Al-Din – President of the University, Prof. /Ramadan Abu Al-Ela – Vice President for Community Service and Environmental Development Affairs, Prof. / Mohammed Gabar Abo Ali Faculty of Engineering Dean, Prof. / Mohammed Naem Faculty of Engineering Vice Dean, and Prof./ Mohammed Yahia Al-Makki Professor at the Faculty of Engineering, and a number of teaching staff committee at the Faculty. Both parties agreed on the optimal use of the resources to move to the rank of developed countries and achieving the developmental desired aims of the Egyptian society and to accomplish the above





the both parties signed a cooperation protocol signed by Prof./ Mahmoud Mohy El-Din as a Pharos University President Also Major General/ Ahmed Abdel Aziz – authorized by Lieutenant General chairman of the organization.

<https://www.pua.edu.eg/cooperation-protocol-between-pharos-university-and-arab-organization-for-industrialization/>

Cooperation Protocol between Pharos University and Electronic Research Institute

Implementing what was agreed on between Pharos University and Electronic Researches Institute during a visit of a delegation headed by Dr./ Shereen Abd Al-Qadar – in charge of the institute president to Pharos University and on Wednesday 17/11/2021, and a high delegation from Pharos University headed by Dr./ Ramadan Abo Al-Alaa University Vice President for Society Service Affairs visited the institute on Tuesday 14/12/2021. And the delegation included: Prof./ Mohammed Gabar – Engineering Faculty Dean and Prof./ Mohammed Naem – Vice Dean of Engineering faculty- Prof./ Mohammed Abd Al-Rahman – Electric Engineering head of the department and Dr./ Nabil Rashwan teacher at the Electronic Engineering department. The delegation was received by Dr./ Shereen Abd Al-Qadar – in charge of the institute president and the visit was done by: Dr. Ahmed Attia – in charge of the Microwave Engineering head of the department and Dr./ Magad Naqib –High Energy head of department and Dr./ Ghada Farouq – In charge of information researches head of department, and Dr./ Haitham Husien Abd Alluah Professor at microwave department and Eng./ Sameer Husien head of central laboratories at the institute. The university delegation inspected the central laboratories and the specialized laboratories (Nano Technology, Precise Electronics, photonic cells and high energy) as well as the building of the emerging companies and business leading buildings, both parties agreed that the cooperation would be different axes including student training in the institute laboratory and supervision and following up the graduation projects. Also, the business leading technological incubators in the electronic and communication field and information technology to expand the cooperation foundation in the industry and implement projects and research to serve the community.



<https://www.pua.edu.eg/cooperation-protocol-between-pharos-university-and-electronic-researches-institute/>



Courses that Support Industry, Innovation and Infrastructure

No	Faculty in Pharos University	Course name	Course code	SDG of relevance
1	Pharmacy	Good Manufacturing Practices	PPC E02	SDG9
2	Tourism	Entrepreneurship in Hospitality Industry (Elective)		SDG9
3	Mass Communication	Communication and Development	COM 103	SDG 1 - SDG 2 - SDG 7 - SDG 9 -SDG 11
4	Mass Communication	Electronic media Laboratory	EMED 300	SDG 4 -SDG 9
5	Mass Communication	Journalism Laboratory	JOR 300 - PRS 300	SDG 4 -SDG 9
6	Mass Communication	Marketing communication Laboratory	MC 300	SDG 4 -SDG 9
7	Mass Communication	Advertising &Public Relations Laboratory	PR 300	SDG 4 -SDG 9
8	Mass Communication	Public relations in industrial and educa	PR 407	SDG 9
9	Mass Communication	TV production Laboratory	PTV 300	SDG 4 -SDG 9
10	Mass Communication	Documentary film and programs production	PTV 302	SDG 9
11	Mass Communication	TV product marketing	PTV 400	SDG 9
12	Mass Communication	Production of television drama	PTV 403	SDG 9
13	Tourism and Hotel Management	Introduction to Tourism and Hospitality	THM 201	SDG 1 - SDG 3 - SDG 4 - SDG 8 - SDG 9
14	Tourism and Hotel Management	Franchising in Tourism and Hospitality	THM 211	SDG 9 - SDG 12
15	Tourism and Hotel Management	Quality Mgt. in Tour&Hospital Enterprise	THM 271	SDG 8 - SDG 9 - SDG 11 - SDG 12



No	Faculty in Pharos University	Course name	Course code	SDG of relevance
16	Tourism and Hotel Management	Tourism Transportation	TM 312	SDG 9
17	Tourism and Hotel Management	Industry Internship (1)	TM 391	SDG 8 - SDG 9 - SDG 12 - SDG 16 - SDG 17
18	Tourism and Hotel Management	Industry Internship 2	TM 392 - TM 493 - TM 494	SDG 8 - SDG 9 - SDG 12 - SDG 16 - SDG 17
19	Tourism and Hotel Management	Tourism Project 1	TM 481 - TM 482	SDG 8 - SDG 9 - SDG 11 - SDG 12 - SDG 17
20	Tourism and Hotel Management	Entrepreneurship in Hospitality Industry	HM 419	SDG 9
21	Tourism and Hotel Management	Resort and Condominium Management	HM 411	SDG 7 - SDG 9
22	Tourism and Hotel Management	Hospitality Facilities Planning&Design	HM 451	SDG 6 - SDG 7 - SDG 9 - SDG 11
23	Tourism and Hotel Management	Hospitality Project 2	HM 482	SDG 7 - SDG 9
24	Tourism and Hotel Management	Creative Awareness	GEN 201_T	SDG9
25	Tourism and Hotel Management	E-Marketing for Tourism and Hospitality	THM 421	SDG9
26	Tourism and Hotel Management	Real Estate Valua. for Tour.&Hospital.	THM 444	SDG9
27	Tourism and Hotel Management	Airline Reservation System&Ticketing	TM 331 - TM 332	SDG9



No	Faculty in Pharos University	Course name	Course code	SDG of relevance
28	Tourism and Hotel Management	Travel Agency and Front Desk Management	TM 333	SDG9
29	Tourism and Hotel Management	Hotel Management Information Systems	HM 313	SDG9
30	Tourism and Hotel Management	Automated Travel Systems	TM 431	SDG9
31	Tourism and Hotel Management	Tourism Management Technology Application	TM 441	SDG9
32	Arts and Design	Field Training	FT 001	SDG 4 - SDG 5 - SDG 9 - SDG 12
33	Arts and Design	Permanent and Mobile Exhibitions	AD 311	SDG 9 - SDG 11
34	Arts and Design	Visual Composition	MA 221	SDG 4 - SDG 9
35	Arts and Design	Digital Imaging	MA 251	SDG 9 - SDG 11
36	Arts and Design	Digital Illustration	MA 253	SDG 9 - SDG 11
37	Arts and Design	Video Editing (1)	MA 255	SDG 4 - SDG 9
38	Arts and Design	Video & Animation Design and Theory	MA 331	SDG9 - SDG 11
39	Arts and Design	Sound Design	MA 362	SDG 9 - SDG 11
40	Arts and Design	Productivity printing technology	G 365 - G 366	SDG 9 - SDG12
41	Arts and Design	Typography (1)	GD 471 - GD 472 - MA 271 - MA 371 - GD 571	SDG 4 - SDG 6 - SDG 7 - SDG 9 - SDG11 - SDG 14 - SDG 15
42	Arts and Design	Interior Design	D 221 - D 222	SDG 9
43	Arts and Design	Visual Studies	D 231 - D 232	SDG 4 - SDG 9
44	Arts and Design	Building Construction	D 361 - D 362	SDG9
45	Arts and Design	Technical Working Details	D 363	SDG9
46	Arts and Design	Working Details	D 365	SDG9



No	Faculty in Pharos University	Course name	Course code	SDG of relevance
47	Arts and Design	Arts of Fantasy and Science Fiction	TD 535	SDG 9
48	Arts and Design	Marketing and Consumer Psychology	I 532	SDG9
49	Arts and Design	Detailed Drawings	ID 423 - ID 424 - ID 522	SDG 9
50	Arts and Design	Furniture Design	ID 425	SDG 9 - SDG 12 - SDG 11
51	Arts and Design	Graduation Project Research	ID 581	SDG 7 - SDG 9 - SDG 11 - SDG 13
52	Arts and Design	Graduation Project	ID 582	SDG 7 - SDG 9 - SDG 11 - SDG 13
53	Arts and Design	Materials Technology	MD 461	SDG 9
54	Finance and Administrative Sciences	Information Management	BT 316 - BT 422	SDG 9
55	Finance and Administrative Sciences	Research Project	BT 742 - BT 851	SDG 1 - SDG 2 - SDG 8 - SDG 9 - SDG 12 - SDG 13 - SDG 16
56	Finance and Administrative Sciences	Strategic Info. System	BT 852	SDG 9
57	Physical Therapy	Industrial Physical Therapy	PTEL 002	SDG 3 - SDG 9
58	Physical Therapy	Rehabilitation technology	PTEL 007	SDG 3 - SDG 9
59	Arts and Design	Advanced Motion Graphics	AV 421	SDG 9 - SDG 11
60	Arts and Design	Editing Esthetics	AV 433	SDG 9 - SDG 11
61	Arts and Design	Directing for the Screen	AV 566	SDG 9 - SDG 11
62	Arts and Design	Digital photography	TD 411 - MA 361	SDG 4 - SDG 5 - SDG 7 - SDG 9 - SDG 11
63	Arts and Design	Television Scenery Design	TD 421	SDG 7 - SDG 9
64	Arts and Design	Cinema Scenery Design	TD 422	SDG 9 - SDG 12
65	Arts and Design	Theatrical Scenery Design	TD 423 - TD 424	SDG 7 - SDG 9 - SDG 12
66	Arts and Design	Computer Aided Design	TD 425 - TD 426	SDG 9



No	Faculty in Pharos University	Course name	Course code	SDG of relevance
67	Arts and Design	Costume Design	TD 427	SDG 9 - SDG 12
68	Arts and Design	Modern Art	TD 441	SDG 4 - SDG 9
69	Arts and Design	Audio and Visual	TD 461 - TD 462	SDG 7 - SDG 9
70	Arts and Design	Theatrical Techniques	TD 463	SDG 4 - SDG 9
71	Arts and Design	Digital Character Design	TD 521	SDG 7 - SDG 9
72	Arts and Design	Scenography	TD 531	SDG 4 - SDG 9
73	Arts and Design	Musical Appreciation	TD 532	SDG 9
74	Arts and Design	Sociology & Psychology of Design	TD 533	SDG 7 - SDG 9
75	Arts and Design	History of Cinema	TD 541	SDG 7 - SDG 9
76	Arts and Design	Implementation Models (Maquette)	TD 561	SDG 9 - SDG 12
77	Arts and Design	Technology of Contemporary Theater	TD 562	SDG 7 - SDG 9
78	Arts and Design	Graduation Project Research	TD 581	SDG 7 - SDG 9 - SDG 12 - SDG 11
79	Arts and Design	Graduation Project	TD 582	SDG 7 - SDG 9 - SDG 12 - SDG 11
80	Arts and Design	Drawing	D 211 - D 212 - ID 411 - MD 411	SDG 9
81	Arts and Design	Geometric Projection	D 213	SDG 9
82	Arts and Design	Shading Theory	D 233	SDG 9
83	Arts and Design	Technical Equipment	D 366	SDG 6 - SDG 9 - SDG 12
84	Arts and Design	Applications of Art Works in Interior D	ID 571	SDG 9
85	Arts and Design	Landscape	ID 412	SDG 9 - SDG 11 - SDG 13
86	Arts and Design	Interior Architecture Theories	ID 431	SDG 7 - SDG 9 - SDG 11
87	Arts and Design	Landscape Architecture	ID 524	SDG 9 - SDG 11 - SDG 13
88	Arts and Design	Criticism & Analysis in Interior Design	ID 531	SDG 4 - SDG 9 - SDG 12
89	Arts and Design	Architectural Render	ID 551	SDG 9 - SDG 7 - SDG 11



Publications that Address Industry, Innovation and Infrastructure

Title	Authors	Year	Citations	Field-Weighted Citation Impact	Sustainable Development Goals (2023)
Chitosan based adsorbents for the removal of phosphate and nitrate: A critical review	Eltaweil, A.S. Omer, A.M. El-Aqapa, H.G. Gaber, N.M. Attia, N.F. El-Subruiti, G.M. Mohy-Eldin, M.S. Abd El-Monaem, E.M.	2021	74	3.66	SDG 6 SDG 9 SDG 14
Bio-inspired green manufacturing of plasmonic silver nanoparticles/Degussa using Banana Waste Peduncles: Photocatalytic, antimicrobial, and cytotoxicity evaluation	El-Desouky, N. Shoueir, K.R. El-Mehasseb, I. El-Kemary, M.	2021	33	3.73	SDG 9
Oil spill clean-up using combined sorbents: a comparative investigation and design aspects	Tayeb, A.M. Farouq, R. Mohamed, O.A. Tony, M.A.	2020	32	2.23	SDG 9 SDG 12 SDG 14
Evaluation of the accuracy of orthodontic models prototyped with entry-level LCD-based 3D printers: a study using surface-based superimposition and deviation analysis	Lo Giudice, A. Ronsivalle, V. Rustico, L. Aboulazm, K. Isola, G. Palazzo, G.	2022	17	10.48	SDG 9



Title	Authors	Year	Citations	Field-Weighted Citation Impact	Sustainable Development Goals (2023)
Towards a secure signature scheme based on multimodal biometric technology: Application for iot blockchain network	Hassen, O.A. Abdulhusein, A.A. Darwish, S.M. Othman, Z.A. Tiun, S. Lotfy, Y.A.	2020	15	1.98	SDG 9
Synthesis of hexagonal nanozinc by arc discharge for antibacterial water treatment	Khalil, A.M. El-Khatib, A.M. El-Khatib, M.	2019	9	0.51	SDG 6 SDG 9
Silver/Snail Mucous PVA Nanofibers: Electrospun Synthesis and Antibacterial and Wound Healing Activities	El-attar, A.A. El-wakil, H.B. Hassanin, A.H. Bakr, B.A. Almutairi, T.M. Hagar, M. Elwakil, B.H. Olama, Z.A.	2022	7	1.71	SDG 9
Magnetohydrodynamic Fluid Flow due to an Unsteady Stretching Sheet with Thermal Radiation, Porous Medium, and Variable Heat Flux	Megahed, A.M. Ghoneim, N.I. Reddy, M.G. El-Khatib, M.	2021	6	0.73	SDG 7 SDG 9
Potential cardioprotective effect of octreotide via NOXs mitigation, mitochondrial biogenesis and MAPK/Erk1/2/STAT3/NF-k β pathway attenuation in isoproterenol-induced myocardial infarction in rats	Khalifa, A.A. El Sokkary, N.H. Elblehi, S.S. Diab, M.A. Ali, M.A.	2022	4	1.59	SDG 3 SDG 7 SDG 9 SDG 12
Applicability of Using Natural Fibers for Reinforcing Concrete	El-Nadoury, W.W.	2020	4	1.49	SDG 9



Title	Authors	Year	Citations	Field-Weighted Citation Impact	Sustainable Development Goals (2023)
Sustainable Indicators Framework for Strategic Urban Development: A Case Study of Abu Teeg City in Assiut, Egypt	Ragheb, G. El-Wahab, M.A. Ragheb, R.A.	2022	3	0.76	SDG 8 SDG 9 SDG 11 SDG 12 SDG 17
Achieving Sustainability in Smart Cities & Its Impact on Citizen	Naguib, I.M. Ragheb, S.A.	2022	2	0.51	SDG 8 SDG 9 SDG 11 SDG 17
A Secure Signature Scheme for IoT Blockchain Framework Based on Multimodal Biometrics	Lotfy, Y.A. Darwish, S.M.	2021	2	0.57	SDG 9
Air quality estimation using remote sensing and GIS-spatial technologies along Al-Shamal train pathway, Al-Qurayyat City in Saudi Arabia	Al-Alola, S.S. Alkadi, I.I. Alogayell, H.M. Mohamed, S.A. Ismail, I.Y.	2022	1	0.45	SDG 3 SDG 9 SDG 11 SDG 13
Exergy analysis of a turbo expander: Modeling and simulation	El-Husseiny, A. Farouq, R. Farag, H.A. El Taweel, Y.	2021	1	0.2	SDG 9 SDG 17
Comparative Greenness Metric Estimates for Content Uniformity Testing of Anti-Cov-2, GS-5734 in Commercial Vials: Validated Micellar Electrokinetic Chromatographic Assay	Elonsy, S.M. Kamal, M.F. Hamdy, M.M.A. Abdel Moneim, M.M.	2022	1	0.55	SDG 3 SDG 9
On the Location of a Constrained k- Tree Facility in a Tree Network with Unreliable Edges	Aboutahoun, A.W. Fares, E.	2019	0	0	SDG 9
Measuring employees' service innovative behaviour in the egyptian tourism companies	Shouk, M.A.A. Hilaly, H.N. Attallah, N.F.	2019	0	0	SDG 9 SDG 17



Title	Authors	Year	Citations	Field-Weighted Citation Impact	Sustainable Development Goals (2023)
H-Seed: Vision for smart city	Shehata, H.M. Bakr, A.F. Hassan, A.	2020	0	0	SDG 9 SDG 11
Business trends: Application of blockchain technology in the petrochemical industry	Ezzat, A.A.	2020	0	0	SDG 9
Recycling of Conditioned Alum Sludge Use as an Adsorbent for Decolorization of Effluents From the Textile Industry	Tayeb, A. Abdelmoez, W. Farouq, R. Gedawy, H.	2022	0	0	SDG 6 SDG 9 SDG 12