

Dr. Sherif Ali Younis

Associate Professor
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Summary:

Total Citation 3849, Scopus citation count (3,338 by 2,856 documents), H-Index (Google Scholar) 37, i10-index 79, H-index (Scopus) 35, Research Gate: 121 Research Items, Research Interest Score 2,032, Reads 34,424.

Home pages:

- ⇒ Scopus Author ID: 23502615100
- ⇒ WOS Researcher ID: L-1229-2016
- ⇒ <https://Orcid.org/0000-0002-4139-5251>
- ⇒ https://scholar.google.com/citations?user=A_ISJwUAAAAJ&hl=ar
- ⇒ <https://publons.com/researcher/1330742/sherif-ali-younis/>
- ⇒ <https://sciprofiles.com/profile/DrSherifali>
- ⇒ <https://escipub.com/welcome-dr-sherif-a-younis/>
- ⇒ <https://www.linkedin.com/in/drsherifali>
- ⇒ <https://www.researchgate.net/profile/Sherif-Younis-2>
- ⇒ <https://www.peeref.com/authors/bVXoa5DzoRBj>

Biography:

Dr. Sherif A. Younis is an associate professor at the Egyptian Petroleum Research Institute (EPRI). He joined EPRI as an assistant researcher in 2007, received an M.Sc. in Chemistry and Biochemistry from Mansura University (Egypt) in 2010, then a Ph.D. degree in Applied Chemistry from Ain Shams University (Egypt) in 2013. In 2016, he joined Laboratoire de Chimie de Coordination (LCC)-CNRS, Université de Toulouse (France) as a postdoctoral (one year) on a research project related to applied materials science in environmental chemistry and renewable/green energy (H₂) production. In late 2017, he was assigned as a lecturer in the petrochemical program at the Faculty of Science, Mansoura University (Egypt). In 2018, he moved to the Department of Civil & Environmental Engineering at Hanyang University (South Korea) for two years, performing multidisciplinary research studies on environmental nanotechnology and air purification/ pollution control. In 2021, he joined the faculty staff (as an assistant

professor) of nanotechnology for postgraduate studies at Cairo University, Egypt. The research interests and activities of Dr. Younis are in the field of applied materials science in environmental and energy fields within the interface of environmental chemistry, renewable energy, and chemical engineering.

The research interests of Dr. Younis are related to applied materials science in multidisciplinary fields, such as environmental nano-(bio)-technologies, air pollution control, water/wastewater treatment, soil reclamation, sustainable environmental management, colorimetric/electro-sensing, photo/thermal catalytic applications, waste-to-resources conversion, CO₂ capture/conversion, VOCs adsorption removal, energy harvesting, and renewable/green fuel production. His work also involves mathematical modeling for equilibrium, kinetics, thermodynamics studies, and experimental data interpretation using various statistical analyses and models. The comprehensive research contribution to these areas led to the publication of more than 105 articles (experimental and review papers) in peer-reviewed ISI and SCOPUS-indexed Journals, two research patents, two book chapters, Top 2% of World-Ranking-Scientists by Stanford-Elsevier 2023 & 2024, and a silver medal award at the 2nd Beirut International Innovation Exhibition - BIIS 2021. Besides, over the past decade, he has participated as (i) a membership/ co-principal investigator in many research projects; (ii) editorial board member (EBM) in 4 scientific journals published by MDPI, Universal Wiser Publishers; (iii) Guest Editor of the special issue “Advances in Materials for Separations: Energy and Environment” in the MDPI-journal /Separations/ (IF: 3.344, ISSN 2297-8739; ranks 37/87 (Q2) in the "CHEMISTRY, ANALYTICAL" category, indexed by Scopus and Web of Science); (iv) supervisor of 8 graduate students (M.Sc. and Ph.D.); (v) an invited speaker in more than 26 scientific workshops and conferences; (vi) a reviewer for more than 20 peer-reviewed ISI, Scopus/WoS-indexed journals, and (vii) a technical committee member for multiple international conferences.

(1) Employment History:

⇒ Egyptian Petroleum Research Institute (EPRI), Egypt.

- June 2022 ~: EPRI Scientific Coordinator for the project entitled “Special study for the establishment of innovative scientific and research congregation of Upper Egypt”.
- March 2023 ~: Deputy of the applied research project entitled: “Chemical treatment of black compounds in petroleum and industry”.
- Jan. 2022 ~August 2023: Member of the board of directors and technical manager of the water analytical unit at Central Laboratories.
- Feb. 2020 ~: Associate professor of Analytical and Environmental Chemistry, Analysis and Evaluation Dept.
- Feb. 2014 to Feb. 2019: Researcher of Chemistry, Analysis and Evaluation Dept.
- May 2011 to Feb. 2014: Assistant Researcher of Chemistry, Analysis and Evaluation Dept.
- June 2007 to May 2011: Researcher Assistant Chemistry, Analysis and Evaluation Dept.

⇒ Mansoura University, Egypt.

- Oct. 2017 to May 2018: Lecturer of the Petrochemical program, Chemistry department.

⇒ Cairo University, Egypt

- Dec. 2020 to June 2021: Research staff at the Faculty of Nanotechnology for Postgraduate Studies, El-Sheikh Zayed Branch Campus, Cairo University.

⇒ Université de Toulouse, France.

- Nov. 2016 to July 2017: Postdoctoral at Laboratoire de Chimie de Coordination (LCC) UPR 8241 CNRS –Composante ENSIACET-INPT under the supervision of Prof. Philippe SERP (Topic: Materials Science & photocatalysis for wastewater treatment & hydrogen production).

⇒ Hanyang University, Republic of Korea (South Korea).

- August 2023 ~ : Invited Scientist (Associate Professor) in the research group of Distinguished Prof. Dr. Ki-Hyun Kim, Air Quality & Materials Application Lab, Department of Civil & Environmental Engineering, Hanyang University.
- Nov. 2018 ~ Nov. 2020: Invited Scientist (Assistant Professor-Postdoc) in the research group of Distinguished Prof. Dr. Ki-Hyun Kim, Air Quality & Materials Application Lab, Department of Civil & Environmental Engineering, Hanyang University.

(2) Educational History

- Sept. 2011 – Jan. 2014: Ph.D. in Applied Chemistry, Faculty of Science, Ain-Shams University, Egypt
Ph.D. topic Title: “*Non-Conventional Techniques for Tertiary Treatment of Petroleum Refinery Wastewater*”
- Sept. 2008 – Dec. 2010: M.Sc. in Chemistry and Biochemistry, Faculty of Science (Damietta Branch), Mansoura University, Egypt.
M.Sc. Topic Title: “*Microbial Metabolism of Dibenzothiophene and Other Poly Nuclear Aromatic Hydrocarbons in Oil-Polluted Water*”
- Sept. 2006 to August 2007: Pre-M.Sc. course in Chemistry and Biochemistry, Faculty of Science (Damietta Branch), Mansoura University, Egypt.
- Sept. 2001 to May 2005: B.Sc. in Chemistry and Biochemistry, Faculty of Science (Damietta Branch), Mansoura University, Egypt. (Grade: 82.34%, 2nd Rank).

(3) Professional Research & Academic Experiences

(A) Research experts are in the area of:

1. **Materials Science:** Synthesis and characterization of nanostructured (*i.e.*, metals nanoparticles, metals oxides nanomaterials, magnetite, perovskite nanocrystals, nano-molecules, and nanofluids), metal-organic frameworks (MOFs), coordination polymeric composites, and carbon allotropes (*i.e.*, graphene, graphene oxides, carbon nitrides, etc.) materials through chemical and green processes and their applications in the environmental and energy fields.
2. **Environmental/ Energy Applications:** Environmental (Air-Water-Soil) purification technologies, water desalination, adsorption, photo-electro-catalysis, advanced oxidation processes (AOPs), colorimetric and electrochemical sensing, photo-electro-thermal catalytic processes, energy harvesting, hydrogen & biofuel production, pollutions risk assessment, waste-to-resources recycle, and sustainable environmental management.

(B) Academic & Teaching positions:

1. **Sep. 2024 – Dec. 2024:** Lecturer at the Department of Civil & Environmental Engineering, Hanyang University (Republic of Korea):
✓ Fall semester course topic “Catalysis and Adsorption Technologies.”
2. **Dec. 2020 - June 2021:** Lecturer in the Nanobiotechnology Program, Faculty of Nanotechnology for Postgraduate Studies, Cairo university.
3. **Jan. 2019 - June 2020:** Lecturer at the Department of Civil & Environmental Engineering, Hanyang University (Republic of Korea):
✓ Academic English writing: Research articles & thesis.
4. **Sept. 2017 – May 2018:** Lecturer in the Petrochemical program, Faculty of Science, Mansoura University (Egypt):
✓ CHEM 212: Separation Methods: Principles, Applications, Instrumentation, and Economic Factors.
✓ PETROCHEM 39: Major Petroleum Refinery Products.
5. **Feb. 2014 - Nov. 2018:** Lecturer at EPRI Central Laboratories and Training Center for Summer training courses:
✓ Water Chemistry: Hydrological Cycle, Analysis Tools, Management and Protection Protocols, and Treatment Technologies.
✓ Advances in Analytical Chemistry and Separation Technologies for Industrial and Scientific Applications.
✓ Air Pollution Control and mitigation technologies
✓ Petroleum Industry and Refinery Products.
✓ Future of Alternative Clean Water and Energy Resources.
✓ Bioremediation and Biofuel Production Technologies
✓ Environmental Pollutions Sources: Risk Assessment, Control, and Impacts on Health and Environments (Water-Soil-Climate).
✓ Adsorption: Principles, Kinetic & Isotherm Modeling, and Reaction Mechanism in Environmental Remediation.
✓ Standard analytical methods for environmental pollutants and risk hazardous analysis.
6. **Oct. 2010 - Jan. 2014:** Teaching Assistant at EPRI and Private Egyptian Training Centers, Cairo, Egypt.
✓ Liquid Chromatography Technologies (Principles and Instrumentations) and their Industrial Applications
✓ Wastes Recycle & Pollutions Risks: Monitoring & Health and Environmental (Water-Soil-Climate) Impacts

(4) Technical Skills & Training modules:

(A) Technical & Analytical Experts

- Egyptian Standard Specifications for analyzing commercial products at the Ministry of Industry and Foreign Trade, Egypt.
- Applied scientific research to entrepreneurship, Cairo University, Egypt.
- Product Development and Innovation and Industrial Systems and Operations Management, Faculty of Engineering, Ain Shams University, Egypt.
- Quality control management of ISO/IEC17025 and statistical analysis budget, National Institute of Standards, Egypt.
- Liquid Chromatography analysis (UPLC, HPLC, GPLC, and IEC Dionex ICS-1100 and DX600).
- Gas Chromatography analysis (GC-FID, GC-FPD, and GC-MS).
- Spectroscopy analysis (AAS, FTIR, UV-Vis/NIR-Diffuse, Raman, X-ray photoelectron spectroscopy, X-ray diffraction, DLS, and Zeta potential).
- Chemical and morphological analysis (BET analysis, TG/DTA, XRD, Field emission SEM, HR-TEM, and AFM).

(B) Computer Proficiencies

- ✓ DOS, Visual Basic, Quick Basic, and C++ programming, Microsoft office package (ICDL-4), Microsoft Power BI, and Google Data Studio.
- ✓ **Statistical package software:** Design Expert, MINITAB, IBM SPSS, STATISTICS, GAUSS View, Hyperchem, etc.

(C) Training modules and Webinars

- ⇒ **Participate in multiple training modules in DKA | DAAD -Egypt (<http://dka.daadcairo.org/>)**
 - ⊗ Ethics in Science module
 - ⊗ Curriculum Design and Development
 - ⊗ Effective Cooperation and Communication in Team
 - ⊗ Public Speaking Skills
 - ⊗ Presentation Skill
 - ⊗ Dealing with Change
 - ⊗ Self-Management & Marketing
- ⇒ **Training modules in EPRI-Egypt, DAAD-Cairo, LCC-CNRS-France, and Hanyang University-Republic of Korea.**
 - ⊗ The training modules involve (1) Procedures of Scientific Research (including Ethics Policies of Scientific Research, Ethics in Science, Problem-Solving Thinking Skills, Organizing Scientific Conferences, and Research Projects Competitive Local and Global Program), (2) Chemical Laboratory Risk Hazardous, (3) Work Management, and (4) Thesis and academic research writing skills in English.
- ⇒ **WIPO- World Intellectual Property Organization “<https://www.wipo.int>”:**
 - ⊗ Participate in two courses on (i) Egyptian intellectual property (code: DL101AEG20S3) from November 9 to December 26, 2020, and (ii) a general course on intellectual property (code: DL101E21S1) from February 8 to March 24, 2021.
- ⇒ **Udemy and Research Academy platforms- Participate in the online courses topics “How to Write and Publish a Research Paper- A Complete Guide” (9.5 hours, May 2020) and “Writing Skills module” (July, 2020).**
- ⇒ **Egyptian Knowledge Bank (EKB), Knowledge E, SCImago, and Elsevier publisher**
 - ⊗ Essential Skills & Marketing Knowledge for Implementers (EKB, 15 Nov. 2022).
 - ⊗ Creating & Supporting Research-Based Business(EKB, 2 Nov. 2022).
 - ⊗ Research Centers Ranking, SCImago (22 March 2022).

- ✘ Science Communication Program, emphasizes Communicating Research to Funders & Commercial Partners (02 - 28 June 2021).
- ✘ Capacity Building & SCImago Institutional Ranking (April - May 2021).
- ✘ Scimago Ranking for RC's in Egypt workshops (Oct. 2021).
- ✘ Rankings, Scimago SIR Ranking: Sources & Methodology (Nov., 2021; Jan., 2022; March 2022).
- ✘ Climate Change Mitigation and Adaptation With Reaxys: Analyzing Results (March 20, 2022).
- ✘ Scimago 2022 Research Centers Ranking Webinar (March 22, 2022).
- ⇒ **Embassy of Italy (Cairo) & Academy of Scientific Research and Technology (ASRT)**
 - ✘ Green Economy Academy 2022-summer school on “Renewable Energy”, held at the Akenathon Ballroom of the GRAND NILE TOWER Hotel, Cairo, Egypt (4th to 6th July-2022) and Sekem, Egypt (7th July-2022).
 - ✘ Science Diplomacy Workshop: Climate Change in the Broader Mediterranean Area, 9-10 October 2022.
- ⇒ **Other training & scientific modules**
 - ✘ Human Rights & Violence Prevention Education (Hanyang University, 2023 – 2024)
 - ✘ Coronavirus-Prevention & treatment (Almentor platform: March 23,2020)
 - ✘ Lessons Learned from Around the World in Dealing with COVID-19 (Harvard Medical School, April 14, 2020).
 - ✘ Let's Break the Chain of COVID-19 Infection (Mohammed Bin Rashid University of Medicine and Health Sciences, March 2020).

(D) Language Proficiencies

- ✓ **Arabic:** Mother language.
- ✓ **English:** Excellent speaking, listening, reading, and writing (IELTS & TOEFL)
- ✓ **French:** French course held by Institut Français d’Egypte (IFE) (80 hours).
- ✓ **Korean:** Basic Korean course (level 1) held by Hanyang University (200 hours).

(5) Scientific Communications: Professional Experiences

I. Awards/ Honors/ Prizes

- ✓ Silver Medal award in the 2nd Beirut International Innovation Show- BIIS-2021 (8 -10 April 2021), organized by the National Association for Science and Research - Focal Point Middle East / IFIA FPME. The award was given for the research innovation entitled “Method for the preparation of zero-valent metals nanoparticles of iron or silver or bimetallic iron and silver using phenols extracted from industrial wastewater as reducing agent”.
- ✓ Top 2% of World-Ranking-Scientists by Stanford-Elsevier 2023 & 2024.

II. Research Projects:

- P1.** August 2023~: Principle investigator (PI) of a project entitled “Management of greenhouse gas emissions through boosting CO₂ capture, separation, and storage based on a hybrid sorption technology” by a grant from the National Research Foundation of Korea (NRF) funded by the Ministry of Science and ICT (MSIT) of the Korean government (Brain Pool Program No: RS-2023-00222393).
- P2.** June 2023~: Principle investigator (PI) of a project entitled “Construction of dual-function materials for effective capture and conversion of greenhouse gases (GHG) into renewable fuels as a potent solution for decarbonization” by a grant from the National Research Foundation of

- Korea (NRF) funded by the Ministry of Science and ICT (MSIT) of the Korean government (Creative Challenge Grant No: RS-2023-00243840).
- P3.** October 2022 – August 2023: Research member in the STDF-project ID 46888 “An Integrated Process for the Production of Sustainable Clean Fuels with the Design and Implementation of an Exhaust Gas Tracking and Analysis Device to Achieve the Climate Race towards Zero Emissions and Resilience.”
- P4.** March 2021~ : Research member in the project entitled “Use of non-photocatalytic and advanced functional materials for the construction of high-efficiency air purification system” by a grant from the National Research Foundation of Korea (NRF) funded by the Ministry of Science and ICT (MSIT) of the Korean government (Grant No: 2021R1A3B1068304).
- P5.** July 2021 ~ August 2023: Co-PI in the STDF-project ID 45614 “A clean and sustainable environment via the recruitment of marine macroalgae and artificial intelligence for the green synthesis of value-added products and nanomaterials.”
- P6.** June 2021~ June 2023: Research member in the Chinese-Egyptian Research Fund (CERF), supported by the STDF Project ID 43140 “Applications of Ecofriendly Ionic Liquids for Smart and Green Valorization of Waste Biomass into Liquid Fuels.”
- P7.** Nov. 2019 ~ August 2023: Principal Investigator (PI: Research Supervisor) for funded M.Sc. granted project under title “Continuous Purification and Management of Industrial Wastewaters Using Hybrid Reclamation Catalyzed by A New Aluminum-Based Coagulant with Carbon-Sorbent Produced from Local Wastes” under the frame of the Ministry of Scientific Research (Egypt)- Academy of Scientific Research and Technology (ASRT) for supporting Scientists for Next Generation (SNG) in Water management and rationalization (M.Sc. Student name: Hanan Hassan; Grant reference no: ASRT/SNG/W/2018-09).
- P8.** Oct. 2018~ Nov. 2021: Research member in the project entitled “Integrated techniques for environmental monitoring and management” by a grant from the National Research Foundation of Korea (NRF) funded by the Ministry of Science and ICT (MSIT) of the Korean government (Grant No: 2016R1E1A1A01940995).
- P9.** March 2018- Feb 2021: Scientific committee membership in the agreement protocol of cooperation between Central Laboratories- EPRI and Ministry of Environment Egypt “Risk assessment of the Egyptian Environments to preserve the natural resources and ensure continuity in the promotion of sustainable development.”
- P10.** Oct. 2009 – Oct. 2012: Research member in the EPRI project ID.1625 “Fingerprinting and biomarker characterization of Petroleum Crude Oil in Egypt.”
- P11.** June 2010- June 2015: Research member in the STDF project ID. 1255 “Development of Nano-Particle Biocatalyst Technology for Biodesulfurization of Petroleum Distillates.”
- P12.** Nov. 2016- July 2017: Principal Investigator (PI) in the STDF-IFE project ID. 26470 “Synthesis and characterization of new hybrid Co/Zn-MOFs-porous materials for photocatalytic hydrogen production and storage from wastewater” under the frame of international research projects with Institut Francais d’Egypte (IFE I.D. 882180A). The research project was supervised by Prof. Philippe SERP, Head of the Catalysis and Fine Chemistry group at LCC UPR 8241 CNRS – composante ENSIACET-INPT, France.
- P13.** Membership in various research projects headed by Prof. Ki-Hyun Kim at the Department of Civil & Environmental Engineering, Hanyang University (South Korea) related to research on technology development for monitoring and managing indoor air pollutants and improving indoor air quality improvement (2018.11.01 ~ 2020.10.31).
1. Research on technology development for indoor air quality management (No. 202000000001855 Foundation Corporation Future Future Partners; 2020.06.01 ~ 2021.05.31).
 2. Integrated single technology for monitoring and management of indoor air pollutants (KRF, No. 202000000001750 (2020.06.01 ~ 2021.03.31) & 201900000002515 (2019.08.01 ~ 2020.05.31)).

3. Development of indoor air treatment technology at high-speed conditions (No. 202000000000773 HUY academy group; 2020.03.01 ~ 2021.02.28).
4. Advanced research on the odorant pollutant analysis systems (Ace N Co. Ltd, No. 202000000000060 (2020.01.01 ~ 2020.12.31) and 201900000000248 (2019.01.01 ~ 2019.12.31)).
5. Synthesis of metal-organic frameworks with higher adsorption capacity for air purification (No. 201900000000183 HYU Industry-Academy cooperation group, 2019.03.01 ~ 2021.02.28).
6. Development and performance evaluation of de-odorization sorbent materials as a tool for air Filtration (No. 201800000000213 Samsung Electronics Co., Ltd, 2018.04.01 ~ 2018.09.30).
7. Integrated monitoring and management technology for atmospheric air pollution (No. 2018000000002810 KRF, 2018.10.01 ~ 2019.07.31).
8. Development and industrialization of intelligent deodorant material for air purification based on filter structure/sorbent systems (No. 2019000000002515 KRF (2019.08.01 ~ 2020.05.31) and 201800000000213 Samsung Electronics Co., Ltd (2018.04.01 ~ 2018.09.30)).

III. Academic & Research Supervision Experiences:

- 🔍 Supervisor for 10 research theses (M.Sc. and Ph.D.) on topics related to applied materials science in environmental and energy applications, as follow:

A) M.Sc. Theses

- M1.** May 2021 ~: title “Spectroscopic study for the effect of some alkali and transition metals on titanium dioxide photocatalytic properties”, Ain Shams University, Egypt (Student Name: Omnia Ismail Mohamed).
- M2.** Jan. 2019 ~: title “Continuous Purification and Management of Industrial Wastewaters Using Hybrid Reclamation Catalyzed by A New Aluminum-Based Coagulant with Carbon-Sorbent Produced from Local Wastes”, Cairo University, Egypt (Student name: Hanan Hassan)
- M3.** Sep. 2018 ~: title “Economic preparation of photocatalyst adsorbent material based waste recycle for wastewater treatment”, Cairo University, Egypt (Student name: Marwa Sabry)
- M4.** Feb. 2015 – July 2018: title “Functionalized Natural biopolymer with nanostructured materials for removal of volatile organic compounds (VOCs) from oil/gas plant wastewaters” Ain Shams University, Egypt (Student Name: Mohamed Adel).
- M5.** Oct. 2014 - Oct. 2016: title “Study of Optimum conditions of removal Astrazon dye from water by economic granular activated carbon from date palm seeds”, Alazhar University, Egypt (Student name: Yousef Ahmed).

B) Ph.D. theses

- P1.** Jan. 2019 ~: title “Synthesis and Evaluation of Some Ion Exchangers for Pre-Desalination and Corrosion Inhibition in Saline Water”, Mansoura University, Egypt (Student name: Sherif Abdel-Fattah).
- P2.** May 2016~ July 2023: title “Extraction of aromatic compounds from diesel fuel using Fabricating nanomaterials”, Damietta University, Egypt (Student name: Mohamed Abdel Hakeem).

P3. Sep. 2014 – Dec. 2016: title “Improve the remediation of phenolic compounds from aqueous solution by combined adsorption and catalytic oxidation using solid waste-based nanomaterial,” Alazhar University, Egypt (Student name: Israa Mohamed El-Fawal).

P4. Oct. 2014 – July 2018: title “Synthesis and Characterization of nano-composites magnetic carbon and their applications for the treatment of produced water”, Ain Shams University, Egypt (Student name: Mohamed Omar Abdel Salam)

C) Graduated Research Projects (GRPs) at MSA University (October University for Modern Sciences and Arts), Egypt:

GRP1. Oct. 2021 – Feb. 2022: title “The role of Ag_3PO_4 on the photocatalytic activity of ZnO in wastewater treatment”, Petroleum & biotechnology program, MSA University (Student name: Ali Hefnawy)

GRP2. Oct. 2021 – Feb. 2022: title “ Synthesis and evaluation on the performance of ferrofluid for organic dye removal”, Petroleum & biotechnology program, MSA University (Student name: Mary Gharby)

GRP3. Oct. 2021 – Feb. 2022: title “ Synthesis of surface-modified activated carbon using Gamma irradiation for adsorption of barium and strontium from water solution”, Petroleum & biotechnology program, MSA University (Student name: Mohamed Hessin)

IV. Volunteering Research Activities

A. Reviewer member for the following ISI/SCI- Journals:

- | | |
|---|--|
| ✎ Adsorption Journal | ✎ Journal of environmental management |
| ✎ Water Resources Management Journal | ✎ Egyptian Journal of Petroleum |
| ✎ Journal of Environmental Chemical Engineering | ✎ Environmental Research Journal |
| ✎ Chemical Engineering Journal | ✎ Fuel Journal |
| ✎ Korean Journal of Chemical Engineering | ✎ Journal of Cleaner Production |
| ✎ Nanoscale Research Letters | ✎ Environmental Research |
| ✎ Journal of Petroleum Science and Engineering | ✎ Journal of Applied Microbiology |
| ✎ Materials Today Chemistry | ✎ Environmental Science and Pollution Research |
| ✎ RSC advance | |

B. Reviewer and committee member for the following international conferences:

- ✎ Reviewer for 2016-International Conference on Water Resource and Environment (WRE2016), Shanghai, China. (<http://paper.academicconf.com/reviewers.aspx?confname=WRE2016>).
- ✎ Reviewer for the 5th International Conference on Materials Science and Engineering (CMSE 2016-China).
- ✎ Reviewer for the 6th Global Conference on Materials Science and Engineering (CMSE 2017), October 24th - 27th, 2017, Beijing, China.
- ✎ Reviewer for the 4th International Conference on Water Resource and Environment (WRE 2018-Taiwan) July 17 -21, 2018 Kaohsiung City, Taiwan. (<http://www.wreconf.org/>) (<http://paper.academicconf.com/Expert/PaperList.aspx>).

- ✍ Technical Program Committee (TPC) member for the APCBEES Conference: the 8th-International Conference on Environmental Science and Technology (ICEST 2017), Technical University of Madrid (UPM), Madrid, Spain (12-14 June 2017).
- ✍ Technical Program Committee (TPC) member for the Global Summit on Applied Science, Engineering, and Technology (GSASET-2020; December 1 - 2) Vancouver, Canada. "<https://www.thescientist.com/applied-science-engineering/organizing-committee.php>"
- ✍ Technical Program Committee (TPC) member for 2021: 2nd International Conference on Innovative Solutions in Hydropower and Environmental Engineering (HECE 2021), organized by the China University of Geosciences, December 24-25, 2021, Hangzhou, China. <http://www.heecconf.com/PEOPLE.html>
- ✍ Technical Program Committee (TPC) member for 2021 The Second International Conference on Energy Material and Energy Technology (EMET 2021), November 19 -21, 2021 (Online meeting).
- ✍ Advisory Board Member & Invited Keynote Speaker for "International Conference on Recent Advancements in Nanotechnology for Sustainable Development" (ICRANS-22), held by Maharaja Agrasen University, India on 11-12 November 2022 (<https://icransd.mau.edu.in/>)
- ✍ Scientific Committee Member for International Conference On Materials Advancements and Technology Research for Leading-edge Science (MATRLS-23), organized by the Centre of Excellence in Nanotechnology of Maharaja Agrasen University, India , 15-16 September, 2023 (www.matrls-mau.com).
- ✍ Technical Program Committee (TPC) member for The 4th International Conference on Energy Material and Energy Technology (EMET 2024), November 18-20, 2024, Haikou, China.

C. Membership Activities:

- **Oct. 2022~:** Guest Editor of the special issue "Advances in Materials for Separations: Energy and Environment" in the MDPI-journal /Separations/ (IF: 3.344, ISSN 2297-8739; ranks 37/87 (Q2) in the "CHEMISTRY, ANALYTICAL" category), indexed by Scopus and Web of Science. https://www.mdpi.com/journal/separations/special_issues/O1RS696HQU
- **Dec. 2022~:** Editorial Board Membership of "Green and Low-Carbon Economy" Journal (GLCE), Singapore BON VIEW PUBLISHING PTE. LTD.: <https://ojs.bonviewpress.com/index.php/GLCE/ebm>
- **Nov. 2022~:** Editorial Board Membership of "Universal Journal of Green Chemistry", Universal Wiser Publisher (UWP). UJGC: <https://ojs.wiserpub.com/index.php/UJGC/>
- **Jan 2022 ~:** Editorial Board Membership of "Organic Chemistry Plus" (OCP) Journal, Universal Wiser Publisher, <https://ojs.wiserpub.com/index.php/OCP/about/editorialTeam>
- **Jun 2022 ~:** Review Editor on the Editorial Board of Soil Pollution & Remediation (specialty section of Frontiers in Soil Science), Frontiers' community of editors.
- **Sept. 2021 ~:** Editorial Board Membership of "Acta Scientific Biotechnology" (ASBT), licensed under a Creative Common Attribution 4.0 International License Based on a work at <https://actascientific.com>; "<https://www.actascientific.com/ASBT-EB.php>"
- **July 2021 ~:** Editorial Board Membership of "**International Journal of Environmental Pollution Control, Environmental Sciences and Studies (IJEPCSS)**". Publisher: Serials Publications and Distributors "<https://theserialsgroup.com/ijepcss.php>"

- **June 2021~:** Editorial Board Membership of “**Sustainable Chemical Engineering**” **Journal**, - Universal Wiser Publisher “<https://ojs.wiserpub.com/index.php/SCE/about/editorialTeam>”
- **Sept. 2018 ~:** Editorial Board Membership of **Scientific Research and Reviews Journal**, eSciPub “<http://escipub.com/welcome-dr-sherif-a-younis/>”
- **Jan. 2018 ~:** Editorial Board Membership of **Natural Resources Conservation and Research Journal**, EnPress Publisher, LLC. (website: <http://systems.enpress-publisher.com/index.php/NRCR/about/editorialTeam>)
- **March 2018 ~:** Member of the joint scientific committee between Central Laboratories at EPRI and the Ministry of Environment Egypt.
- **Dec. 2017 ~:** Editorial Board Membership of the **International Journal of Energy and Environmental Science (IJEES)**. (<http://www.sciencepublishinggroup.com/j/ijeess>)
- **July 2016 ~:** Member of the **Society of Petroleum Engineers (SPE)**.
- **July 2015 to 2016:** Member of the **Royal Society of Chemistry**.
- **May 2014 ~:** Member of the **Society of Petroleum and Mineral Resources**.
- **Feb. 2014 ~:** Member of the **Academy of Sciences of the Egyptian Youth (EYAS)**.
- **Feb. 2014 ~:** Senior members of the **Asia-Pacific Chemical, Biological & Environmental Engineering Society (APCBEEES)**.
- **Jan. 2014 ~:** Technical Senior and head manager of Liquid Chromatography & Atomic spectroscopic unit at EPRI- central analytical laboratories (EPRI-CL), Egypt.
- **Jan. 2014 ~:** Research member at the analysis and evaluation department council, EPRI- Egypt.
- **July 2007 - Jan. 2014:** Research member at the central analytical laboratories, EPRI (EPRI-CL), Egypt.
- **Sept. 2009 - Nov. 2018:** Technical research member of ISO/IEC 17025 committee- EPRI, Egypt.
- **2008 –2012:** Research member in the scientific team at the Petroleum Biotechnology Division- EPRI.
- **June 2005 ~:** Membership of the **Syndicate of Scientific Professions**.

(6) Publications & Research Work Achievements

❖ *Patents:*

- 🔍 Method for the preparation of zero-valent metals nanoparticles of iron or silver or bimetallic iron and silver using phenols extracted from industrial wastewater as reducing agent. Egyptian Patent By: **Sherif A. Younis**, Essra M. El-Fawal, Waleed I. El-Azab, Yasser M. Moustafa. (EG/P/2016/1688- **Patent No. EG/P/2019/29214**)
- 🔍 A novel method for the determination of zinc ions from water samples associated with crude petroleum oil with zinc-titanium oxy-nitride over zinc-phthalic frameworks using screen-printed electrodes. Egyptian Patent Application No. 151/2018-Egypt. By: **Sherif A. Younis**, Tamer Awad, Gehad G. Mohamed. (*under evaluation*)

❖ *Book Chapters:*

- 🔍 **Sherif A. Younis**; Mohamed Elshafie; Yasser M. Moustafa, Textile effluent treatment and recycling. **Chapter 19**, In Roshan Paul and Thomas Gries (eds) book of “Sustainable Innovations

in the Textile Industry”, *Woodhead Publishing*, Elsevier Inc., 2024, 505-539.
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- ✎ Vanish Kumar, **Sherif A. Younis**, Kumar Vikrant, Ki-Hyun Kim, Trends in advanced materials for sustainable environmental remediation. In "Advanced Materials for Sustainable Environmental Remediation". *Terrestrial and Aquatic Environments*, Elsevier, 2022. 1-29.
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- ✎ Nassar H.N., **Younis S.A.** (2019) From Priority Contaminants to Emerged Threat: Risk and Occurrence-Based Analysis for Better Water Management Strategies in Present and Future. **Chapter 02, In: Elvis Fosso-Kankeu (eds) Handbook of “Nano and Bio-Based Technologies for Wastewater Treatment: Prediction and Control Tools for the Dispersion of Pollutants in the Environment”**, published by Wiley, Scrivener publishing.
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- ✎ **Younis S.A.**, El-Fawal E. M., Serp P. (2018) Nano-wastes and the Environment: Potential Challenges and Opportunities of Nano-waste Management Paradigm for Greener Nanotechnologies. In: Hussain C. (eds) *Handbook of Environmental Materials Management*. Springer, Cham. https://doi.org/10.1007/978-3-319-58538-3_53-1. (ISBN 978-3-319-58538-3).

❖ List of Research Publications:

1. Understanding oxidation potential and degradation mechanism of acid-treated TiO₂ coupled g-C₃N₄ S-scheme heterojunction photocatalyst for the removal of gaseous formaldehyde, *Separation and Purification Technology* 356 (Part A), 129862, 2025.
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2. Design a variety of cation exchange hydrogel resins using gamma irradiation to remove hard/scale metal cations from saline water under different circumstances, *Scientific Reports*, vol. 14 (1), 30512, 2024. <https://doi.org/10.1038/s41598-024-82603-4>.

Authors: Sherif AF Romeeh, **Sherif A. Younis**, Mohamed M Ghobashy, Yasser M Moustafa, Magdy Y Abdelaal, MA Deyab

3. Adsorption dynamics of gaseous toluene with and without formaldehyde and water vapors on composites of UiO-66-NH₂ and microporous carbon, *Chemical Engineering Journal*, vol. 498, 155605, 2024. <https://doi.org/10.1016/j.cej.2024.155605>

Authors: Shaoqing Sun, Swati Verma, Bhaskar Anand, **Sherif A. Younis**, Danil W Boukhvalov, Ki-Hyun Kim

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❖ List of National/International Conferences and Workshops:

- 1) S. A. Younis, Advances of nanotechnologies in environmental pollution control International Conference On Materials Advancements and Technology Research for Leading-edge Science (MATRLS-23), Maharaja agrasen university, India , 15-16 September, 2023 (Keynote speaker).
- 2) S. A. Younis and Nour Sh. El-Gendy, A potential pathway for effective management of marine macroalgae to produce value-added products and wastewater treatment in a circular economy context, 10th International (38th Annual) Conference on Corrosion Mitigation and Surface Protection Technologies, Organized by Egyptian Corrosion Society (ECS: www.egycorr.net), Hurghada, Egypt, 12 - 15 December 2022.
- 3) S. A. Younis, Applications of nanotechnology in mitigating environmental pollution: A perspective to alleviate climate change, International Conference on Recent Advancements in Nanotechnology for Sustainable Development” (ICRANS-22), held by Maharaja Agrasen University, India on 11-12 November 2022.
- 4) S. A. Younis, “Nanotechnology in combating environmental pollution: progress, opportunities, and challenge” workshop program on Climate Change, Environmental Impact And Adaptation Mechanisms, TICO office, Cairo University, Egypt (24 October 2022).
- 5) S. A. Younis, Mitigating Climate Change Through Air Pollution Control: Reduce Emission of VOC Pollutants, First workshop program on Climate Change Adaptation Strategies for Buildings and

- Horticulture (CCASH-1), National Research Institute of Astronomy and Geophysics (NRIAG), Helwan, Egypt (May 25 -26, 2022).
- 6) **S. A. Younis**, Nanotechnology and Nanowaste management: A balanced view, Annual International Conference on Basic and Applied Sciences, Faculty of Science (Girls), Al-Azhar University - Al-Azhar Conference Hall - Nasr City, Egypt, March 28-30, 2022.
 - 7) **S. A. Younis**, Novel eco-friendly approach for the synthesis of bimetallic Ag/Fe nanoparticles by phenolic wastewater and their environmental applications, EPRI-SRTA City workshop on “Water Management: Future Challenges and Opportunities”, hosted by The City of Scientific Research and Technological Applications (SRTA city), Alexandria, Egypt, November 15th, 2021.
 - 8) **S. A. Younis**, Nanotechnology *versus* Nanowaste and their interaction with the environment: Global Framework and sustainable development. PART-VIII of the E-Talk series webinar on “NANOTECHNOLOGY: Smart Materials: Research: Commercialization” Hosted by Maharaja Agrasen University, India, 16th August 2021.
 - 9) **S. A. Younis**, M. A. Abdel-Aziz, Y. M. Moustafa, M.H. Khalil, The utilization of carbon/lignin biocomposite as a recyclable sorbent for in-situ removal of BTX from petroleum wastewater. The 8th International Conference on Environmental Pollution and Remediation (ICEPR'18), Madrid, Spain, August 19 - 21, 2018.
 - 10) **S. A. Younis**, Philippe SERP, Facile Microwave Synthesis of Hybrid ZnTiON@S-C₃N₄ Heterostructure Nanosheets for Solar-Remediation of Blue Dyes from Wastewater, *International Conference on Sustainable Energy and Environment Sensing (SEES 2018)*, Fitzwilliam College, University of Cambridge, Cambridge city, United Kingdom, 18-19 June 2018.
 - 11) **S. A. Younis**, Nanotechnology for sustainable active packaging: Synthesis, characterization and application, NRC workshop attendance, *Egypt, 25-June 2018*.
 - 12) **S. A. Younis**, Essra M. El-Fawal, Y. M. Moustafa, Fabrication of optical AlZnO catalyst deposited on carbon nanomaterial substrates for solar -enhanced wastewater decontamination. *The 21th International Conference on Petroleum, Mineral Resources and Development (PMRD)*, 20-22 February, Egypt (2018).
 - 13) **S. A. Younis**, P. SERP, Y. M. Moustafa, New synthesis of sulfur doped carbon nitride wrapped with ZnTiO₂-xNx *nanowires* for enhanced solar remediation of textile wastewater and hydrogen production, *The 21th International Conference on Petroleum, Mineral Resources and Development (PMRD)*, 20-22 February, Egypt (2018).
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 - 15) **S. A. Younis**, Green synthesis of nanostructured materials from waste-products and their application in desalination and water treatment and evaluation of nanomaterials reused safety factor: Protective and retroactive strategies, *ASRT, Egypt, 5-June 2016*.
 - 16) **S. A. Younis**, Solar-energy materials and applications: solar photoconversion and renewable green environmental-energy resources, *Faculty of Engineering, Ain Shams University, Egypt, 5-May, 2016*.
 - 17) R. A. Elsalamony, H. M. Gobara, **S. A. Younis**, “Potential Application of 15%Mo/SBA-15 Photocatalyst For Removal of Multiple Organic Pollutants From Water Environment” *Sustainable Vital Technologies In Engineering and Informatics*, 8-10 November, British University, Egypt (2016).
 - 18) R. A. Elsalamony, H. M. Gobara, **S. A. Younis**, “Effect of Titania ratio in ZnO/TiO₂-SiO₂ nanocomposite materials on photocatalytic degradation of phenol” *6th International Conference of the Arab Federation for Sustainable Development*, 8-10 May, Ain Shams University, Egypt (2016).

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- 24) **S. A. Younis**, A. Abd-Elaziz, A. I. Hashem, “Enhanced organic pollutants removal by a novel SH and CN functionalities pyrrole derivative onto CaO-g-C₃N₄ adsorbent”, *The 19th International Conference on Petroleum, Mineral Resources and Development (PMRD)*, 22-24 February, Egypt (2016).
- 25) E.A. Motawea, **S. A. Younis**, Y.M. moustafa, “Adsorption behavior of chlorophenols onto functionalized SiO₂-alginate beads: Optimization and modeling”, *The 19th International Conference on Petroleum, Mineral Resources and Development (PMRD)*, 22-24 February, Egypt (2016).
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I, hereby, declare that all the above information given is entirely accurate to the best of my knowledge.

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