

Two-page summary

Name: Professor Tawfik A. Saleh

ORCID: 0000-0002-3037-5159

Affiliation: King Fahd University of Petroleum & Minerals (Chemistry and Advanced Materials).

As per Scopus

h-index 98, Citations: 42306; FWCI 3.543

As per Google Scholar

	All	Since 2020
Citations	51982	36596
h-index	112	100
i10-index	470	459

1. The impact of my published work

Dr. Saleh's publications have substantially influenced the fields of nanomaterials, adsorption technologies, carbon-based composites, and water remediation. Several experimental and review articles coauthored are highly cited and widely used as reference material by researchers and scientists working on nanomaterial synthesis and pollutant removal. Examples of impactful themes in the output include: (a) adsorption mechanisms and isotherms for heavy-metal removal, (b) engineered carbon nanomaterials and composites for water purification, and (c) photocatalytic and catalytic methods for degradation/desulfurization. These contributions have accelerated understanding and adoption of carbon-based adsorbents across environmental and chemical engineering research communities. Notable high-visibility outputs (book chapters and journal articles) and contributions to multi-author reviews indicate my role in shaping research agendas in the chemistry of nanomaterials and materials sciences. The works are frequently cited in follow-on studies and review papers. These evidences include both scholarly impact (citations, reuse of methods) and practical relevance.

Evidence : https://research.com/u/tawfik-a-saleh?utm_source=chatgpt.com

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Tawfik A. Saleh

King Fahd University of Petroleum and Minerals
Saudi Arabia



D-Index & Metrics

Discipline name	D-Index	World Ranking	Current World Ranking	National Ranking	Current National Ranking	Publications	Citations
Materials Science	96	1026	983	9	9	438	38129
Chemistry	97	1232	1101	12	12	447	40048

2. My scientific contributions to the publications

a) Technical expertise and experimental innovation

My work demonstrates repeated technical leadership in synthesizing and characterizing nanomaterials (carbon nanotubes, graphene oxide composites, carbon-based adsorbents, activated carbons) and integrating them with metal/metal-oxide nanoparticles for enhanced sorption and catalytic performance. I have contributed protocol-level knowledge (synthesis parameters, surface functionalization, thermal/chemical treatment) that others replicate and extend. Representative topics include desulfurization of fuels using nanoparticle-loaded carbons, metal ion adsorption, and the design of photocatalytic composites.

b) Methodological contributions

Several of my papers provide rigorous synthesis protocols, scientific analysis, isotherms, kinetic, and thermodynamic analyses (including comparative evaluations of models), which help standardize how the experiments are reported and interpreted in the community. My work often couples material characterization (BET, FTIR, TGA, SEM/TEM, XRD) with materials performance metrics, enabling clear structure–property–performance correlations that are valuable to both academic and industrial readers.

c) Collaborative and interdisciplinary roles

I frequently author and coauthor with researchers from multiple institutions and disciplines (materials science, chemical engineering, and environmental engineering), indicating contributions that span synthesis, characterization, and application testing. These collaborations have helped translate lab-scale materials into application-relevant performance studies (e.g., process columns, photocatalytic degradation tests), demonstrating the practical applicability of my scientific findings.

3. Research leadership

a) Mentorship and capacity building

Dr. Saleh has supervised graduate students and postgraduates (as documented on institutional pages and editorial bios), contributing to the training of the next generation of researchers in nanomaterials and water treatment. Dr. Saleh's supervision record supports the development of skilled researchers who continue to work in adsorption and environmental remediation.

b) Editorial and professional service

Dr. Saleh serves on editorial boards and as an editor/contributing editor of specialist journals and book volumes, reflecting recognition by peers and a role in shaping the scientific record (peer review standards, topical special issues, and invited chapters). This editorial engagement amplifies my leadership in setting research priorities and ensuring quality in published work.

c) Strategic collaborations & knowledge transfer

Dr. Saleh profile shows numerous international collaborations and contributions to multi-author books and handbooks, which indicate an ability to coordinate cross-institution projects and synthesize knowledge across subfields. Such roles are key for securing multidisciplinary funding

and for translating lab discoveries toward engineering solutions. I have been conducting several industrial projects.

4. Evidence of research outcomes and real-world relevance

Applied research themes:

Dr. Saleh applied work, such as on nanomaterials, adsorptive desulfurization, pollutant removal, and nanocomposite adsorbents, addressing pressing industrial and environmental challenges (fuel purification, wastewater treatment). These topics have immediate practical relevance and are attractive to funders seeking translational research.

Educational and outreach contributions:

Book chapters and edited volumes (on nanotechnology in oil & gas, polymer membranes, and environmental nanomaterials) underscore a role in disseminating knowledge to students, industry practitioners, and policymaking audiences.

5. Appreciation and acknowledgment

With the external and internal funds by the Deanship of Research and KFUPM admin, our lab builds on a strong foundation of nanomaterials research, synthesis of optimized nanocomposites, trains many students, and transfers protocols and training to industrial partners. My track record of high-impact publications, cross-disciplinary collaborations, and editorial leadership provides the technical and organizational capacity to deliver these outcomes and more.


References

<https://www.scopus.com/authid/detail.uri?authorId=35103346400>



Scopus

Saleh, Tawfik A.

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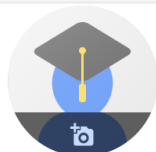
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Dr. Tawfik A. Saleh 

King Fahd University of Petroleum & Minerals

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I am also the top researcher in the field of chemistry from Saudi Arabia worldwide, as per the Research.com. <https://research.com/u/tawfik-a-saleh>

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I am also top in the Prior Five years as per Highly Ranked Scholars

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Top 10 Researchers from Saudi Arabia

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Saudi Arabia has emerged as a significant hub for scientific research in the Middle East. Here's a look at the Top 10 Researchers from Saudi Arabia who are making substantial impacts in their respective fields. For a more comprehensive understanding of this list and its methodology, you can refer to [the detailed article](#). The [TopResearchersList Website](#) offers a Searchable Database for the Top 2% of Scientists, providing easy access to information about these leading researchers.

Saleh, Tawfik A.

King Fahd University of Petroleum and Minerals




Field: Physics & Astronomy
Sub Field: Chemical Engineering
Overall Rank: 96
Subfield Rank: 2 out of 79314

Professor Saleh has made significant contributions to chemical engineering, with applications spanning environmental remediation and advanced materials. His innovative approaches to nanomaterials and their applications have garnered international recognition.

[TopResearchersList Profile: https://topresearcherslist.com/Home/Profile/761994](https://topresearcherslist.com/Home/Profile/761994)

Demirbas, Ayhan

King Abdulaziz University



Field: Enabling & Strategic Technologies
Sub Field: Energy

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