Curriculum Vitae

Dr. Tawfik A. Saleh

Distinguished University Professor

Chemistry Department

King Fahd University of Petroleum and Minerals

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1. Resume

1.1. Personal

- **Full Name:** Tawfik Abdo Saleh Awadh
- **Nationality:** Kingdom of Saudi Arabia
- **Nationality: Saudi**
- **Social Status:** Married,
- **Languages:** English & Arabic
- **Current address:** Department of Chemistry, King Fahd University of Petroleum & Minerals (KFUPM), Dhahran 31261, KSA
- **E-mail:** tawfik@kfupm.edu.sa; tawfikas@hotmail.com
- **Homepage:** http://faculty.kfupm.edu.sa/CHEM/tawfik/
- **Scopus information:** Author ID: 35103346400, Saleh, Tawfik A. King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia
- **Scopus: h-index >99, citation >42000 Citations by 25,953 documents, FWCI 3.55**
- **Google scholar: h-index >111, i-index 468; citation 51400 https://scholar.google.com/citations?hl=ar&user=MMtsgsIAAAAJ&view_op=list_works&sortby=pubdate**
- **Phone:** (office) +966-13-860-1734, (mobile) +966-506065323
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1.2. Education

2007-2011 Ph.D. student in Chemistry, Chemistry Department, King Fahd University of Petroleum & Minerals, Title of thesis: **"**Synthesis and Characterization of Carbon Nanotube-Based Composites and their Applications for Water Treatment**"**. Supervisor Prof. Vinod Kumar Gupta

2004-2007 Master of Science in Chemistry, Chemistry Department, King Fahd University of Petroleum & Minerals,
Title of thesis: **"**Flow Injection Analysis and Differential Electrolytic Potentiometry For Cyanide Determination**"**. Supervisor Prof. Abulkibash

1.3. Professional/Academic Experience

2023-Now Distinguished University Professor, KFUPM

2021-2023 Professor, Department of Chemistry, King Fahd University of Petroleum & Minerals (KFUPM)

2017-2020 Associate professor, Department of Chemistry, King Fahd University of Petroleum & Minerals (KFUPM)

2012-2016 Assistant professor, Department of Chemistry, King Fahd University of Petroleum & Minerals (KFUPM)

Sep. 2011–Aug. 2012 Post-doctoral Associate, KFUPM

2002–2004 Water purification unit, and quality analysis,

1.4. Industrial Experience

- Employment with water purification unit, and quality analysis
- Work on several projects with Saudi Aramco
- Work on several projects with SABIC
- Work on a research project with Baker Hughes
- Work on a research project with Haliburton
- Work on a research project with Addar Chemical Company
- Work on a research project with TAQA
- Work on a research project with SWCC
- Work on a research project with Waraq Com.
- Work on a research project with Maaden Com.

1.5. Honors/Awards

- **2021 Highly Cited Award in 2023.**
- **2021 Highly Cited Award in 2022.**
- **2021 Highly Cited Award in 2021.**
- **2020 Highly Cited Award in 2020.**
- **2019 Highly Cited Award in 2019.**
- **2018 Highly Cited Award in 2018.**
- **2022 Excellence in Academic Advising Award.**
- **2019 Distinguished Researcher Award.**
- **2018 Distinguished Teaching Award.**
- **2018 ACS, Certificate appreciation of the best paper in material contents, ACS, USA**
- **2016 ACS, Certificate appreciation of the best paper in material contents, ACS, USA**
- **2011 Certificate of E-learning strategy in the second e-learning and distance learning international conference, Riyadh 2011, the title of the paper "**Effectiveness of E-Learning in the Chemistry Laboratory"
- **2009 ICDL (International Computer Driving License Certificate)**

1.6. Faculty Performance Evaluation at KFUPM

- Received DISTINGUISHED Overall Performance Evaluation every academic year at KFUPM. 2012-2021

1.7. Objectives

The main objectives are to contribute to the advancement and dissemination of knowledge pertaining to the chemistry and material science fields of study through teaching, research, industrial collaboration, publications, and effective participation in short courses and local and international scientific meetings.

1.8. Career Development

- Participated in a number of International, Regional and Local conferences, symposia and workshops.
- Participated in educational workshops and activities
- Participated in industerial research activites.
- Participated in numerous other activities

1.9. Areas of Research and Consulting Interests

- Synthesis of materials, nanomaterials, polymeric and hybrid materials
- Characterization using spectroscopic and electrochemical techniques
- Sorption, Catalysis and Photodegradation

1.10. Professional Affiliation

- Member of American chemical society (ACS)
- Member of International educational society
- Member of Editorial board of many international journals

1.11. Skills, IT Experience and Other abilities

- **ICDL certificate, computer driving licence**
- **Computer literate (Software MS office: Word, Excel; PowerPoint, Database, Chemistry Program: Chem Draw) & ICDL**
- **Chemical drawing programs**
- **Work well under different conditions**
- **Able to work in a team**

- **Organized and efficient worker**
- **Punctual and Reliable**
- **Training**

  I have actively participated in workshops organized by the Chemistry department, the Deanship of Academic Development (DAD) at KFUPM. I also went for training to Energy center, KACST, Riyadh for training on polymer/nanomaterials hybrid for enhancing mechanical properties of the wires, I also received a one-month summer grant under the Junior Faculty program during summer.

1.12. References

Available upon request.

2. Teaching Related Activities

2.1. Teaching Statement

I believe that scientific research should go in parallel with educational research. It is preferable to have an excellent teacher who is an excellent researcher. Thus, the motivation for working as a faculty member at the University is not only that I like scientific research but also I feel affection for teaching and interacting with students. I have been developing and improving my teaching skills and strategies. Evidence is the involvement in several educational activities and the educational publications I have achieved such as papers and conferences related to E-Learning and Educational Strategies. I have publications in several prestigious journals such as The Journal of Effective Teaching, Chemical Education Journal, Chemical Engineering Education Journal, Chemical educator, Japan chemical society Journal, Journal of Computer Chemistry Japan, NanoEducation.

I have excellent teaching experience. My teaching record evaluation is excellent; up to 9**.7 of 10 (students' evaluation)** at King Fahd University of Petroleum and Minerals. Before that, I have experience teaching at the University of Science and Technology as a Lecturer.

I strongly believe in the importance of education to society and the community, and teaching has provided me with the most rewarding professional experiences. The knowledge accumulated by researchers and practitioners would be more valuable if it can be shared through teaching.

While working with undergraduate and graduate students as an instructor, I found teaching a very rewarding experience. I had spent some years teaching at the University of science and technology as a lecturer teaching general and analytical courses with labs. Then, during my MS and Ph.D. studies, I was engaged with duties that involved teaching general chemistry and analytical chemistry laboratories. As a faculty member, I had the chance to teach different courses at the graduate and undergraduate levels including, general chemistry, instrumental analysis, environmental chemistry, chemometrics, spectroscopy, direct research, and senior project courses; and laboratories.

As I am a teacher interacting with generations of students, I developed different teaching strategies and used E-learning, with self-motivation. I have participated in various conferences, like the International Conference of E-learning & distance learning. Besides, I have executed and performed an educational project supported by the Deanship of Academic Development, titled "*Concept Maps as a Learning Strategy: Implementation and Evaluation*".

I found many opportunities to teach students different courses such as Introductory, analytical, and material chemistry; for graduate and undergraduate students. I was appointed as a lecturer at the

university of science and technology and awarded *Excellency certificate* in teaching. At King Fahd University of Petroleum and Minerals, I gain more experience in teaching, and I got the best evaluation of 9.7 out of 10.

With students having little background in chemistry, it is important to teach how they can approach the real object efficiently and effectively. For undergraduate students, I try to approach the students at their level of knowledge in chemistry without compromising the content of the course. For example, in a general chemistry course for non-chemistry majors, my efforts are directed toward explaining to them the rules of chemistry that govern our everyday life. In an upper-division course like analytical and material chemistry for sophomores, the focus is on providing examples of analysis of samples, drugs, and natural products as well as applications of analytical chemistry in petroleum, pharmaceutical, and agrochemical industries to make it obvious for them that chemistry has a very important role in our modern life. In an advanced course offered to chemistry students at the junior or senior levels, I try to have a more interactive approach to engage the students in the class by assigning literature articles and asking the students to present them. This does not only help the students to stay in touch with the recent developments in chemistry, but also develop their skills in reading literature articles.

My experience in teaching made me realize that the teacher's responsibilities are not only to motivate students to learn but also to present the subject interestingly and engagingly that can show the beauty of the discipline and its applicability to solve real problems. To share and create teamwork ability, I worked with many graduate and undergraduate students as a research mentor and closely advised on their graduation projects. Many students of those won and got Awards in various conferences and occasions.

I am interested in teaching a variety of courses (General, Analytical, Material Chemistry, and Characterization of materials, etc.), undergraduate and graduate-level courses. I plan to integrate nanotechnology into a general chemistry course and design courses related to nanomaterials that would complement the current curriculum for senior undergraduates and graduates. The courses will mainly focus on the latest chemistry research. Thus, I have worked to develop and propose courses such as *Chemistry of Energy: Materials and Usage, Chemistry of water, Modern Techniques for Materials Characterization.*

Tawfik Abdo Saleh

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2.2. Teaching philosophy

My teaching philosophy is summarized as:

- ✓ To develop and utilize teaching strategies that support disseminate knowledge / subject to students in an interesting and easily understandable methodology
- ✓ To transfer the knowledge that I gained to the next generation.
- ✓ To apply a teaching strategy that relies on **minds-on and hands-on learning** and **inquiry-based learning**.
- ✓ To link theory with the application
- ✓ To prepare and encourage students to face the challenges; **mind storm-based teaching**
- ✓ To focus on scientific temper and moral values so that students can contribute effectively to the Country's progress and compete internationally
- ✓ This along with the **cooperative learning** and **discussion** is used to ensure that students are engaged in the learning process

2.3. Courses Taught

2.2.1. At KFUPM:

I had the chance to teach different courses; graduate and undergraduate courses; class and laboratory courses. The following is the list of courses I taught with their evaluation

* Teaching Evaluation for courses taught at KFUPM

Instructor's Name:	Tawfik Abdo Saleh Awadh	Department:	Chemistry

Term Code	Course Number	Course Name	Section No.	Activity Type	No. of Stud	No. of Eval	Evaluation Score	Instructor Average
20242	CHEM-101	Prin. of Chemical Science I	1	Lec	27	27	9.52	9.41
20242	CHEM-101	Prin. of Chemical Science I	2	Lec	23	23	9.09	9.41
20242	CHEM-101	Prin. of Chemical Science I	3	Lec	26	26	9.41	9.41
20242	CHEM-640	Analytical Spectroscopy	1	Lec	23	18	9.61	9.41
20241	CHEM-545	Envr Chem Analy. Adv Instrumen	1	Lec	27	27	9.7	9.79
20241	CHEM-542	Electroanalytical Chemistry	1	Lec	26	26	9.91	9.79
20232	CHEM-545	Environmental Analytical Chem	1	Lec	22	22	9.67	9.7
20232	CHEM-640	Analytical Spectroscopy	1	Lec	24	24	9.75	9.7
20231	CHEM-545	Envr Chem Analy. Adv Instrumen	1	Lec	17	17	9.5	9.67
20231	CHEM-542	Electroanalytical Chemistry	1	Lec	21	21	9.94	9.67
202220	CHEM-642	Chemometrics	1	Lec	19	19	9.49	9.57
	CHEM-321	Instrumental Analysis for Engs	1	Lec	29	29	9.65	9.57
202210	CHEM321	Instrumental Analysis for Engs	1	Lec	13	13	9.81	9.78
	CHEM321	Instrumental Analysis for Engs	1	Lec	13	13	9.71	9.78

	CHEM324	Instrumental Chemical Analysis	1	Lec	3	3	10	9.78
20210	CHEM321	Instrumental Analysis for Engs	1	Lec	24	24	9.42	9.52
	CHEM321	Instrumental Analysis for Engs	1	Lec	10	10	9.62	9.52
	CHEM324	Instrumental Chemical Analysis	1	Lec	6	6	9.71	9.52
202110	CHEM221	Quantitative chemical analysis	1	Lec	7	7	9.93	9.59
	CHEM222	Quantitative chemical analysis Lab	1	Lab	7	7	9.93	9.59
	CHEM321	Instrumental Analysis for Engs	1	Lec	20	20	9.35	9.59
202020	CHEM-321	Instrumental Analysis for Engs	03	LEC	31	30	9.34	9.33
	CHEM-321	Instrumental Analysis for Engs	56	LAB	45	30	9.39	9.33
	CHEM-321	Instrumental Analysis for Engs	54	LAB	26	16	9.26	9.33
202010	CHEM-321	Instrumental Analysis for Engs	01	LEC	48	30	9.73	9.65
	CHEM-321	Instrumental Analysis for Engs	03	LEC	45	30	9.66	9.65
	CHEM-321	Instrumental Analysis for Engs	57	LAB	26	16	9.56	9.65
201920	CHEM-321	Instrumental Analysis for Engs	01	LEC	32	26	9.68	9.60
			54	LAB	16	13	9.42	9.60
	CHEM-426	Advanced Instr.l Analysis Lab	51	LAB	6	5	9.64	9.60
	CHEM-479	Chemistry Seminar	01	SEM	6	4	9.66	9.60
201910	CHEM-101	General Chemistry I	13	LEC	35	25	9.72	9.50
			14	LEC	33	27	9.55	9.50
			15	LEC	35	28	9.22	9.50
201820	CHEM-321	Instrumental Analysis for Engs	52	LAB	11	7	9.01	9.04
			55	LAB	6	4	9.05	9.04
	CHEM-642	Chemometrics	01	LEC	16	15	9.05	9.04
201810	CHEM-321	Instrumental Analysis for Engs	02	LEC	28	10	9.56	9.46
			53	LAB	15	6	9.35	9.46

			56	LAB	16	9	9.48	9.46
201720	CHEM-321	Instrumental Analysis for Engs	03	LEC	24	9	9.62	9.53
			51	LAB	12	4	9.02	9.53
			53	LAB	13	4	9.96	9.53
201710	CHEM-321	Instrumental Analysis for Engs	03	LEC	28	20	9.84	9.53
			51	LAB	16	8	9.50	9.53
			56	LAB	14	5	9.25	9.53
201620	CHEM-323	Instrumental Chemical Analysis	01	LEC	25	12	9.15	9.39
			51	LAB	13	6	9.63	9.39
201610	CHEM-323	Instrumental Chemical Analysis	51	LAB	14	11	9.47	9.33
			57	LAB	13	5	9.22	9.33
	CHEM-642	Chemometrics	01	LEC	8	8	9.29	9.33
201530	CHEM-101	General Chemistry I	53	LAB	18	12	9.53	9.37
			57	LAB	17	13	9.22	9.37
201520	CHEM-101	General Chemistry I	04	LEC	39	22	9.17	9.19
			05	LEC	34	17	9.06	9.19
			06	LEC	37	27	9.34	9.19
201510	CHEM-101	General Chemistry I	10	LEC	33	18	9.49	9.15
			11	LEC	34	21	9.18	9.15
			12	LEC	33	14	8.78	9.15
201420	CHEM-323	Instrumental Chemical Analysis	55	LAB	14	7	9.15	9.16
			56	LAB	14	7	8.60	9.16
	CHEM-640	Analytical Spectroscopy	01	LEC	5	4	9.72	9.16
201410	CHEM-323	Instrumental Chemical Analysis	05	LEC	34	22	8.08	8.91
			54	LAB	15	8	8.96	8.91
	CHEM-642	Chemometrics	01	LEC	14	12	9.71	8.91
201320	CHEM-323	Instrumental Chemical Analysis	01	LEC	34	20	9.08	9.10
			02	LEC	35	15	9.11	9.10
			57	LAB	16	9	9.11	9.10
201310	CHEM-101	General Chemistry I	07	LEC	27	24	8.77	8.98
			08	LEC	27	19	9.28	8.98
			09	LEC	27	23	9.24	8.98
	CHEM-323	Instrumental Chemical Analysis	54	LAB	10	4	8.62	8.98

201230	CHEM-101	General Chemistry I	04	LEC	20	12	8.81	8.70
			05	LEC	32	19	8.76	8.70
			06	LEC	29	16	8.53	8.70
201220	CHEM-323	Instrumental Chemical Analysis	02	LEC	30	23	9.11	9.02
			03	LEC	30	21	9.25	9.02
			51	LAB	16	13	8.57	9.02
			53	LAB	16	12	9.16	9.02
201210	CHEM-102	General Chemistry II	56	LAB	4	4	8.94	8.96
	CHEM-323	Instrumental Chemical Analysis	01	LEC	31	16	8.89	8.96
			52	LAB	16	12	9.06	8.96
201120	CHEM-102	General Chemistry II	53	LAB	17	10	9.20	9.43
	CHEM-111	Basics: Environmental Chemistry	01	LEC	30	21	9.66	9.43
201030	CHEM-101	General Chemistry I	52	LAB	18	15	9.79	9.51
			57	LAB	19	15	9.22	9.51
201020	CHEM-102	General Chemistry II	55	LAB	17	12	8.84	8.98
			61	LAB	17	11	9.12	8.98
201010	CHEM-101	General Chemistry I	55	LAB	19	15	9.71	9.71
			65	LAB	18	16	9.71	9.71
200930	CHEM-101	General Chemistry I	52	LAB	17	13	9.23	9.11
			57	LAB	19	12	9.00	9.11
200920	CHEM-101	General Chemistry I	56	LAB	18	12	9.26	9.45
			79	LAB	18	12	9.64	9.45
200910	CHEM-101	General Chemistry I	73	LAB	18	12	9.05	9.29
			91	LAB	15	11	9.53	9.29
200830	CHEM-101	General Chemistry I	53	LAB	19	13	9.16	9.23
			58	LAB	20	12	9.30	9.23
200820	CHEM-101	General Chemistry I	56	LAB	18	14	9.47	9.47
200810	CHEM-101	General Chemistry I	55	LAB	20	16	9.12	9.14
			66	LAB	19	17	9.16	9.14
200730	CHEM-101	General Chemistry I	55	LAB	15	10	9.34	9.25
			60	LAB	20	11	9.17	9.25
200720	CHEM-101	General Chemistry I	54	LAB	15	10	9.32	9.32
			75	LAB	12	9	9.33	9.32

200710	CHEM-101	General Chemistry I	51	LAB	15	14	8.82	8.84
			69	LAB	16	14	8.87	8.84

2.2.3. <u>At University of Science and Technology as a lecturer:</u>

- General Chemistry
- General Chemistry Lab
- Analytical Chemistry
- Organic Chemistry Lab
- Biochemistry
- Analytical Chemistry Lab

2.4. Course Coordination

- Instrumental chemical analysis (CHEM 323).
- Corrdinator of Minor Program in Chemsitry

2.5. Courses Development & Online Course Development

- The Chemistry Department went through a major curriculum revision. I was in charge of modifying the content of the Analytical chemistry courses. I worked also with the division for further revision of the courses.

- New textbooks for CHEM 323, 540, and CHEM 640: I was a committee member that was in charge of reviewing the current textbooks. The committee proposed new textbooks as a replacement for the currently used books.

- Development and proposal of new courses: I work on the development of some course and I proposed:
- CHEM 646 Chemistry of Water: Course Description: This course discusses the chemistry of water. The discussion includes the properties of water, fundamentals of aquatic chemistry and its chemical process, phase interactions in aquatic chemistry. The course also discusses water pollution; nature and other types of water pollutants, water treatment, and chemical analysis of water and wastewaters.
- CHEM 647 Chemistry of Energy: Materials and Usage (3-0-3); Course Description: This course covers the chemistry of the materials and processes as applied to energy systems. Topics include chemistry of energy resources, energy generation, and storage; analysis of energy conversion in electrochemical, and photoelectric processes. The synthesis of materials for hydrogen production, fuel cells, and photovoltaics are discussed. Materials for energy applications utilizing fuel reforming, hydrogen and synthetic fuel production, fuel cells, hydrogen, renewable resources, over a range of sizes and scales are discussed. The course also deals with different forms of energy storage and transmission, and optimal source utilization and fuel-life cycle analysis.

- CHEM 645 Modern Techniques for Materials Characterization: Course Description: This course discusses theories behind materials and nanomaterials characterization and analysis. The discussion includes the theories behind advanced microscopic techniques, and optical spectroscopic techniques and other characterization techniques.
- CHEM617 Chemistry and Physics of Nanomaterials: Course Description: Fundamental chemical concepts and basic ideas needed to calculate the difference between the bulk properties of matter and the properties of aggregates. Tools needed to probe matter at the nanoscale level. Examples of nanoscale materials such as monolayers, fulleries, clusters, biomolecules etc., and their applications.
- I also work in improving the current course CHEM 642; Chemometrics (3-0-3); Course Description: Statistical data analysis, Analysis of Variance (ANOVA), Computer Software (Minitab, Sigmaplot, Simca, Modde, etc.), Experimental Design, Factorial Designs and Analysis, Fractional Factorials, Response Surface Methodology, Second-order Designs, Application of the chemical Optimization by simplex, methods in Multivariate analysis. This course was offered 2 times.

2.6. Curriculum Development

- Self Assessment of Chemistry and minor in chemistry Programs in the Chemistry Department, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia.
- Curriculum development for the graduate chemistry programs in chemistry Department.

2.7. Lab Development

Involved in the development of the following Labs:

- Materials Preparation Lab
- Surface area analysers Lab
- SERS Lab
- Teaching instrumental analysis Lab

3. Students Supervision

3.1.Graduate Student Supervision: Thesis and Dissertation

Students who have not yet Defended & Passed:

Student ID	Student Name	Faculty's Role	Major	Degree	Thesis Title
201205540	Faisal Abdullah Alrasheed	**Advisor**	CHEM	PHD	

202317250	Manar Khaled Obeidat	**Advisor**	CHEM	MS	Synthesizing graphene oxide-based polymers and Exploring their properties and Subsequent applications
202321050	Mariem Ben Slimene	**Advisor**	CHEM	MS	Synthesis of quantum dots and 2D nanomaterials: Experimental and computational investigation of their properties and activities
202391790	Maha Aqeel A Alaqeel	**Advisor**	CHEM	PHD	
201907070	Ayoub Awaji	**Advisor**	CHEM	PHD	Exploring the efficacy of polymer nanocomposites for corrosion prevention synthesis, characterization and assessment
202391810	Marwah Ahmed Y Alabdulrahem	**Advisor**	CHEM	PHD	
201806800	Mauliady Satria	**Advisor**	CHEM	PHD	Synthesis of Quantum Dots-based Materials and Study of Their Properties for Potential Applications in Nanoscience
202210240	Maimuna Zarewa	**Advisor**	CHEM	PHD	CONVERSION OF REFINERY RESIDUE INTO ELECTROCATALYSTS: A STUDY OF THEIR ELECTROCATALYTIC APPLICATIONS.
202103630	Abbas Abdullahi Adamu	**Advisor**	CHEM	PHD	
202309970	Zuhur Jameel Q Ali	**Advisor**	CHEM	PHD	
202203720	Mosaab Ahmed Elbager Ahmed	**Co-Advisor**	CE	PHD	DEVELOPMENT OF EFFICIENT SOLID WASTE BASED ADSORBENT FOR WASTEWATER TREATMENT
202203120	Alanud Saad F Almelehi	**Co-Advisor**	CHEM	PHD	Preparation, Characterization, and Photoelectrochemical Studies of Cu2O Photocathode for Hydrogen Production
201406280	Umar Cheche Abubakar	**Co-Advisor**	CHEM	PHD	Investigating the Role of Active Phase Decomposition in Deactivation of Hydrodesulfurization Catalysts
202320210	Montassar Bouzidi	**Member**	CHEM	MS	Single Vs Dual-Atom Transition Metal-Decorated $B_{12}N_{12}$ Nanocages for Hydrogen Evolution Reactions: A DFT-Assisted Machine Learning Study
202390430	Aya Rezaiguia	**Member**	LS	MS	Green-Synthesized TiO2 Photocatalyst using Pomegranate Peel for Solar Greywater Disinfection
202390470	Ferdous Adda	**Member**	LS	MS	Pomegranate-Enhanced Solar Photo-Fenton Process for Greywater Disinfection and Reuse
202213620	Wan Ryan Asri	**Member**	CHEM	MS	Development of carbon nanodots and study of their fluorescence properties
202315610	Mohamed Abdelmaged Hussein	**Member**	CHEM	MS	Thermo-assisted Photocatalytic Dehydrogenation of Methanol for COx-free Hydrogen and Formaldehyde Production
201381730	Mazen Anwar Abdullah	**Member**	CE	PHD	Development Of a Novel Concrete Coating for CO_2 Sequestration and Sustainable Infrastructure: Experimental Investigation and Atomistic Simulation
202210960	Atheer Alatawi	**Member**	CHEM	PHD	Nanostructured single-layer vs. multi-layer SERS-based substrates for ultra-low concentration detection of bio-active molecules
202202600	Elham Saud A Alkhulaify	**Member**	CHEM	PHD	Design and fabrication of nanofiltration membranes for water desalination and detoxification
202215080	Waad Ghurm A Alshehri	**Member**	CHEM	MS	Development of Chloride Sensor Based on Dye Fluorescence Quenshing
202206440	Abd. Rahman,	**Member**	CHEM	MS	Synthesizing Green Heterogeneous ZnO/SiO2 Catalysts from Date Leaves Ash for Sustainable Biodiesel Production from Waste Cooking Oil
201381650	Ismail Mohammed Mudhaffar	**Member**	CE	PHD	Development of Sustainable Corrosion Inhibitors for Reinforced Concrete Structures: Experimental Investigation and Molecular Simulation
202113390	Khaled Ososs	**Member**	CHEM	PHD	CYCLOPOLYMERIZATION OF DIALLYLAMINE SALTS TO LINEAR AND CROSS-LINKED POLYMERS CONTAINING MOTIFS OF CROWN ETHER FOR SELECTIVE EXTRACTION OF LITHIUM-ION

Students who have already Defended & Passed:

Student ID	Student Name	Faculty's Role	Major	Degree	Thesis Title
201706270	Abdullahi Biodun Olabintan	**Advisor**	CHEM	PHD	Development and Optimization of 2D Layered Material Supported Cathodes for High-Performance Metal-ion Batteries
202303090	Shamah Eid Alharbi	**Advisor**	CHEM	MS	Design and Optimization of Functionalized Porous Nanomaterials Synthesized from Waste for Advanced Water Applications
202214700	Zahradeen Muhammad	**Advisor**	CHEM	MS	Synthesis and characterization of carboxylic-based polymers and their efficiency as corrosion inhibitors
202204940	Momodou A. Jallow	**Advisor**	CHEM	MS	Synthesis of graphene modified with copolymers as shale hydration inhibitors.
201908170	Mohammad Yahya Aljizani	**Advisor**	CHEM	MS	Synthesis and Characterization of Green Polymeric Composites and Their Use as Corrosion Inhibitors
202103630	Abbas Abdullahi Adamu	**Advisor**	CHEM	MS	Development of thin film nanocomposite supported membranes for Highly Efficient Water Purification.
202007740	Radwan Yagoob Bakor	**Advisor**	CHEM	MS	Development of Selective Data Processing-based Method to Identify Organo-Chloride in Pyrolyzed Municipal Plastic Waste
202007400	Abdulaziz Abdullah Nasser Alharbi	**Advisor**	CHEM	MS	Preparation of functionalized nanoparticles and Their Use in Corrosion Treatment
201806860	Muhammad Haroon Haroon	**Advisor**	CHEM	PHD	High-Throughput Screening to Enhance D-π-A Interaction in Functional Materials: Exploring the Synergistic Effects and Applications
201806160	Mulya Mohammad Nur	**Advisor**	CHEM	MS	Development of nanostructured materials as inhibitors: synthesis, and evaluation studies
201806800	Mauliady Satria	**Advisor**	CHEM	MS	Synthesis of Highly Functionalized Nanoparticles for Water Ultra-Purification
201801240	Salah Jaber Almutairi	**Advisor**	CHEM	MS	Development of Sampling Methods and Analysis of Beryllium in Fume Dust using Filters
201303050	Kabiru Haruna	**Advisor**	CHEM	PHD	Development of functionalized Graphene Oxide based corrosion inhibitors for oil field applications
201430620	Ali Hashim Alnasser	**Advisor**	ENVS	MS	Carbon-nanostructures based materials for removal of organic contaminants from wastewater
201904650	Ali Ibrahim Alkenani	**Advisor**	CHEM	MS	Graphene-based Membranes for Enhanced Performance of Water Purification
201705790	Suaibu Olamitunbosun Badmus	**Advisor**	ENVS	MS	Optimization of Conditions for the treatment of contaminated water using carbon-polymers composite
201706270	Abdullahi Biodun Olabintan	**Advisor**	CHEM	MS	Synthesis and Characterization of Carbon-based Nanocomposites for Efficient Removal of Hydrocarbons from Water
201602840	Islam Ali Elsayed	**Advisor**	CHEM	PHD	Synthesis Of Molybdenum-Based Catalysts Loaded On Nanocomposite Supports And Their Catalytic Evaluation
201708610	Mukaila Abiodun Ibrahim	**Advisor**	CHEM	MS	Development of Shale Inhibitors for Water Based Fluids: Synthesis, and Evaluation Studies
201402300	Ihsan Budi Rachman	**Advisor**	CHEM	MS	Synthesis of dual–purpose nano resins for sorption of toxic metal ions and organic contaminants
201205540	Faisal Abdullah Alrasheed	**Advisor**	CHEM	MS	Carbon- based Nanomaterials for adsorptive desulfurization of selected Sulfur Compounds from Liquid Fuels
201308050	Mutasem Mohammad Al-Shalalfeh	**Advisor**	CHEM	MS	Synthesis and Characterization of silver and gold based- nanoparticles and their efficiency for some drugs determination
201304590	Taye Damola Shuaib	**Advisor**	CHEM	MS	Synthesis, characterization and application of bimetallic-based nanocomposites for hydrocracking of naphthalene.
201306290	Gaddafi Ibrahim Danmaliki	**Advisor**	ENVS	MS	Adsorptive Evaluation of Nanoparticles Loaded Carbon Derived from Used Tires
201302430	Auwal Muhammad Musa	**Advisor**	ENVS	MS	Adsorption Evaluation of Cross-linked Polymers for Water treatment

201102030	Mohamad Omar Mohamad Wafik Alfawakhiry	**Advisor**	CHEM	MS	Synthesis, characterization and photocatalytic application of nanostructured tungsten oxide/graphene nanocomposites
201806520	Nasurullah Abdul Wahid Mahar	**Co-Advisor**	CHEM	PHD	Synthesis and characterization of MXenes-based conductive surfaces for Electro-Spectro Applications
201102170	Abdullah Abdulkarem Ba-Saleh	**Co-Advisor**	CE	PHD	Preparation of Modified Adsorbents from Waste and Natural Materials for Wastewater Treatment
201305270	Adamu Aminu Idris	**Co-Advisor**	CHEM	MS	Electrochemical Behaviour and Application of Phosphorus Modified Zeolite Carbon Paste Electrodes.
202205020	Mariam Farghaly	**Member**	CHEM	MS	Synthesis, Characterization, and Investigation of the Anticancer Activity of Gold(I) Complexes of Phosphine Sulfide Ligands
201404260	Waleed Ahmed Yaslam Al-Awsh	**Member**	CE	PHD	Development of a universal cement behavior model using molecular-level simulations and laboratory nano-testing techniques
202007700	Ismaeel Mohammad Ahmed Alshnkiti	**Member**	MSE	MS	Effect of reduced graphene oxide content on the morphology and structure of egg shell derived magnesium doped hydroxyapatite composite using microwave processing
200772970	Ali Adnan Altattan	**Member**	MSE	MS	Effect of Microwave Power and Magnesium Content on the Structure of Magnesium Substituted Hydroxyapatite Composite derived from Eggshell
202112390	Hassan Ali Amasha	**Member**	CHEM	MS	Design and Synthesis of Porous Organic Polymers for Environmental Remediation
202113830	Majeed Yahya Almashniwi	**Member**	CHEM	MS	Development of carbon-based nanomaterials for Volatile Organic Compounds adsorption
201805320	Muhammad Abdul Waheed	**Member**	CE	PHD	A universal nano-level constitutive (mechano-volume change) model for swelling clayey soils
202101410	Musa Sani Dangombe	**Member**	CHEM	MS	Solvent-Dependent Analysis of Alkylcyanobiphenyls and Development of Liquid Crystals-Based Sensors For Heavy Metal Ions Detection
201513450	Basiru Olayinka Yusuf	**Member**	CHEM	PHD	Supported Metal-Oxide Catalysts for More Efficient Conversion of Waste Vegetable Oils into Biofuel
201003760	Wael Mhd Amen Mahfoz	**Member**	CHEM	PHD	BALL-MILLED PALM-DERIVED CARBON FOR FABRICATION OF ELECTROCHEMICAL PHENOLIC COMPOUND SENSORS AND SUPERCAPACITORS.pdf
201406420	Yassir Mubarak Mustafa	**Member**	CE	PHD	Usage of Earth Materials in Construction: Experimental and Statistical Approaches
200927910	Ibrahim Nabil Al-Duais	**Member**	CE	PHD	DEVELOPMENT OF NON-CARBONATE BINDERS UTILIZING INDIGENOUS MATERIALS
201708930	Muhammad Haroon	**Member**	CHEM	PHD	Surface Enhanced Raman Scattering-Electrochemical Methods for Characterization of Selected Therapeutic Drugs: Spectroscopic and DFT Study
201605240	Soban Afzal	**Member**	ME	MS	Preparation and Characterization of Graphene Oxide/Ferrite Composite via Polyol Method
201194090	Anwar Qasem Al-Gamal	**Member**	ME	MS	
201304090	Ahmed Abdi Hassan	**Member**	CHEM	PHD	SYNTHESIS OF IRON AND COBALT CONTANING IONIC LIQUIDS AND THEIR APPLICATION IN MICROEXTRACTION AND ADSORPTION
201194070	Nadhem Abdulhameed Ismail	**Member**	CHE	MS	FUNCTIONALIZED POLYMER-BASED MATERIALS AS SCALE AND CORROSION INHIBITORS
201409900	Ahmed Younes Alsaudi	**Member**	PHYS	PHD	Investigation of O2 Line Broadening in Nano-porous Alumina Using Gas in Scattering Media Absorption Spectroscopy
201706150	Musa Azeez Oluwadamilare	**Member**	CHEM	MS	Synthesis of Metal-Modified Nitrogen Doped Activated Carbon for Ultra-deep Desulfurization
201707330	Chidera Churchill Nnadiekwe	**Member**	CHEM	MS	Improving Antifouling and Antimicrobial Capacity of Reverse Osmosis Desalination Membrane by the Sol-Gel Coupling of Silanes
201404260	Waleed Ahmed Yaslam Al-Awsh	**Member**	CE	MS	Experimental Assessment and Numerical Validation of the Thermal Performance of Concrete Walls

201513410	Abideen Ojo Salawudeen	**Member**	ENVS	MS	Removal of Phenol and Cadmium ion from Contaminated Water by Polymeric Modified Graphene Nanomaterials
201407200	Muhammad Murhaf Alasad Albakri	**Member**	CHEM	MS	New designed Thiophenol based polymers and polymer/CNT composites for toxic heavy metal ion removal
201080780	Saddam Ahmed Al-Hammadi	**Member**	CHE	MS	Preparation of Molybdenum Based Catalysts Supported on Alumina for Hydrodesulfurization of Liquid Fuels
201404880	Abdulmujeeb Toluwase Onawole	**Member**	CHEM	MS	QUANTUM CHEMICAL AND SPECTROSCOPIC STUDIES OF CLOTRIMAZOLE AND RESORCINOL
200760590	Ammar Mohammed Alshammari	**Member**	CE	MS	Assessment of Volume Change and Microstructure of Calcareous Soils Contaminated with Sulfuric and Phosphoric Acids
200836420	Mohamad Khaled Estaitie	**Member**	CHEM	MS	SYNTHESIS AND CHARACTERIZATION OF NEW POLYBENZOXAZINE BISPHENOL-S BASED TERPOLYMERS FOR TOXIC METAL ION REMOVAL FROM WASTEWATER
201404120	Isaiah Olabisi Adelabu	**Member**	CHEM	MS	SYNTHESIS OF NEW CROSS-LINKED MELAMINE BASED POLYAMINES IMPREGNATED CARBON NANOTUBE COMPOSITES FOR TOXIC METAL ION REMOVAL
201310930	Khaled Mohammed Alaqad	**Member**	CHEM	MS	The applicability of electrodes modified with nanomaterials in potentiometric titrations and in cyclic voltammetric determinations of some drugs
201303050	Kabiru Haruna	**Member**	CHEM	MS	Conformational and Spectroscopic Properties of Halo-substituted Anilines: Experimental and Computational Study
201202540	Nadir Mohammed Osman	**Member**	CHEM	MS	Removal of some heavy metals using a resin prepared by free radical polymerization of grafted date-oalm-wood copolymer with different vinyl monomers
201302930	Adekolapo Adeniran Adesida	**Member**	CHEM	MS	Synthesis and Characterization of Graphitic Carbon Nitride Based Nano Structured Composites
201304350	Ismail Abdulazeez	**Member**	CHEM	MS	Development, Characterization and Electrochemical Behavior of La and Ce Incrporated Zeolite Modified Electrodes.
201305310	Oluwafemi Seun Akintola	**Member**	CHEM	MS	Synthesis and Modification of New Linear Polyamines via Mannich Polycondensation Reaction and their Applications in Wastewater Treatment.
201107390	Mohammed Salah Ahmed Abdelbassit	**Member**	CHEM	MS	Adsorption of Chloromethanes from water using activated carbon / metal oxides Nanoparticles
201003760	Wael Mhd Amen Mahfoz	**Member**	CHEM	MS	Design and Fabrication of Immunochromatographic Strip Biosensor for Breast Cancer Protein Biomarkers Analysis

3.2. Undergraduate Student Supervision

1. AHMAD ALI AL-SHAIKH, s200458420@kfupm.edu.sa, BS student, senor project CHEM 471, CHEM 472, (role: advisor). He won the **third position award** in the High education conference in Saudi Arabia SSC6, 2015 Synthesis of Graphene Membrane with Enhanced Flux, Rejection Performance.
2. Ahmed Salem AlJameel, s201174870@kfupm.edu.sa, CHEM 471, CHEM 472. He won the **outstanding certificate award** in the American Chemical Society (ACS) conference in USA, Synthesis of Hybrid Material of Silver Nanoparticle, decorated-graphene and polyamide: with sorption evaluation as Removal of Metal Pollutants for Water Purification, BS student (role: advisor)

201205540 ALRASHEED, FAISAL A.
201308050 AL-SHALALFEH, MUTASEM M.

201363210 ALLUHAIDAN, AYMAN A.
201364010 ALSAEEDI, MOHAMMED F.
201402300 RACHMAN, IHSAN B.

Ahmed Mohammed Alghamdi , KFUPM ID#: 20185599, Title: Synthesis of MXenes-based active catalysts

Name: Abdulaziz mohammed aldhawyan, ID: 201914890, Synthesis and characterization of 2D based materials toward energy application

Mohamed Y. Al-Jezan, ID 201571270, Evaluation of CaCO3 polymeric scale inhibitor

CHEM489, Osama Alhomoud , 201584290, Development of filter packed with polymeric materials for pollutants removal from water

CHEM489, Turki Almayef 201559190, Synthesis of Polymeric based nanocomposites for Water Purification,

CHEM388 Salman Redah Alsadah, 201449360, Removal of sulfate ions by using nanostructured porous materials

CHEM 388 Ahmad Al-Shaikh, s200458420, Synthesis of Graphene/Polyamide Membrane with Enhanced Flux, Rejection Performance

CHEM 488 Ahmad Al-Shaikh, s200458420, Desulfurization Of Crude Oil

CHEM 471, Name: Ahmed Salem AlJameel, ID# 201174870, Title: Synthesis of Hybrid Materials of Silver Nanoparticles Decorated Graphene and Polyamide

3.3.Educational Project

Educational Research Project Funded

Source	Title	Role	Status
DAD	Concept Maps as a Learning Strategy: Implementation and Evaluation	Principle investigator	Completed
DAD	Implement IBL in teaching during CHEM321 course	Principle investigator	Completed
DAD	Implement IBL in teaching during CHEM542 course	Principle investigator	Completed
DAD	Implement IBL in teaching during CHEM545 course	Principle investigator	Completed
DAD	Implement IBL in teaching during CHEM642 course	Principle investigator	Completed

4. Community Service Activities

Community service is important and considered part of our life as education and research. I have involved myself in several tasks related to community, from committees to society. I published several newspaper articles, which are also meant for social awareness. Other example, I have been part (member) of four members who worked in "Science for community" "***العلوم في خدمة المجتمع***" which introduces different activities for several schools and community centers. Activities include workshops, public lectures, shows, etc. We also have established a website

http://s4c.kfupm.edu.sa/home/people/?lang=en

some of the services can be summarized as:

Training Workshops

Scientific demonstration

Scientific articles

Public lectures

Consultation

Meeting with the teachers from schools and discussing the teaching strategies, etc.

For more information see http://s4c.kfupm.edu.sa/home/people/?lang=en

Examples of other community services include the involvement in several committees as in next sections.

4.1. Departmental Committees

Contributed in several committees as chair or member, examples are:

Year	Committee	Type
2011/2012	Graduate Committee	Standing
2012/2013	Seminar Committee	Standing
2013/2014	Graduate Committee	Standing
2014/2015	Graduate Committee	Standing
	Best Teaching Award Committee	Standing
2013/2014	Graduate Committee	Standing
2015/2017	Research Committee	Standing
2015/2018	Research Committee	Standing
2017/2018	Outreach Program Committee	Standing
2018/2019	Outreach Program and community services	Standing
2019/2020	Outreach Program and community services	Standing
Several Other committees		

4.2. Academic Group Coordination

- Corrdinator of Minor Program in Chemsitry

4.3. College Committees:

- Teaching Excellence Award Committee
- Research Award Committee

4.4. University Committees

Contributed in several committees as chair or member, examples are:

- The Research Committee
- Curriculum Development Committees
- Programs Development Committees
- The Library Affairs Committee

- Promotion Committees

4.5. Ad hoc Committees

Chemistry Department:

Ad hoc committee for improving the undergradaute research

Ad hoc Committee for Evaluating Chemistry Students' Papers for the Seventh Scientific Conference for Students of Higher Education in K.S.A.

Ad hoc Committee for Evaluating Chemistry Students' Papers for the sixth Scientific Conference for Students of Higher Education in K.S.A.

Ad hoc Committee for Evaluating Chemistry Students' Papers for the fifth Scientific Conference for Students of Higher Education in K.S.A.

Ad hoc committee for Best Teaching Award

Ad hoc committee for selecting text books for analytical courses

College committee:

Graduate program revision (2013/2014)

Teaching Award (2017/2018)

University Level:

Research Committee

Ad hoc committee for minor program

Ad hoc committee for improving the undergradaute research

Cordontator of the program for improving the chemsitry teaching skills of high scool teachers

Cordontation of the Mawhibah program

Promotion Committees

Promotion Committee for Dr Muhammad Nawaz Tahir for the promotion from assistant to associate professor

Promotion Committee for Dr Asif Hilal for the promotion to Research Scientist-I

Promotion Committee for Dr Basheer for the promotion to professor

Promotion Committee for Dr Dr Oladepo for the promotion from assistant to associate professor

Promotion Committee for Hatim Dafalla for the promotion to Research Scientist-I

Promotion Committee for Dr. A. Madhan Kumar for the Research Scientist-I

Promotion Committee for Saheed A Ganiyu to associate professor

Promotion Committee for Dr Umoren for the promotion to professor

4.6. Educational activities for community services

providing training for schools, students, برنامج ابداعIbdaa program. Mawhibah Program, برنامج موهبه, and several other activities

4.7. Industrial Short Course Coordination

Coordination and delivering of several industrial short courses

4.8. Membership in editorial/advisory boards

Member in editorial board of several journals

Name of the journal	Website of the journal
Member in Materials Science for Energy Technologies	https://www.sciencedirect.com/journal/materials-science-for-energy-technologies
Editorial member in American Journal of Nano Research and Applications	http://www.sciencepublishinggroup.com/journal/editorialboard?journalid=226
Editorial member in Journal of Environment and Ecology	http://macrothink.org/journal/index.php/jee/about/editorialTeam
Editorial member in Spectral Analysis Review	http://www.scirp.org/journal/EditorialBoard.aspx?JournalID=2450#.Vw0IaPl94dU
Editorial member in Swift Journals	http://www.swiftjournals.org/sjerr/board.php
Editorial member in Detection	http://www.scirp.org/journal/EditorialBoard.aspx?JournalID=2454#.Vw0ISvl94dU
Editorial member in International Journal of Social Science Research	http://www.macrothink.org/journal/index.php/ijssr/about/editorialTeam

Editorial member in American Journal of Environmental Protection	http://www.sciencepublishinggroup.com/journal/editorialboard?journalid=163
Editorial member in Science Journal of Education	http://www.sciencepublishinggroup.com/journal/editorialboard?journalid=197
Editorial member in Research in Environmental Studies	http://www.swiftjournals.org/sjres/board.php

4.9. Consulting Services

I have worked in several consulting services, Examples are
Review of many funding agencies of the proposals
Technical Consulting for several projects

4.10. Reviewing Research Project Reports and Proposals

A number of Project proposals and reports have been reviewed. These include

- KACST Projects
- SABIC Projects
- KFUPM Projects
- KFUPM RI Projects
- Qatar QNRF Projects

5. Research Activities

I have been involved and participated in several research activities.

5.1. Research Statement

My main research interest focus on materials, nanomaterials, composites, polymeric composite, hybrid nanomaterials including but not limited to; metal oxides nanoparticles, carbon nanotube/metal oxides composites, graphene/metal oxides, activated and porous carbons. This kind of material requires characterization by different techniques including FTIR, UV-Vis, Raman, NMR, XRD, FRD, TEM, SEM, AFM, in addition to electrochemical techniques like cyclic voltammetry, square wave, polarimetry, potentiometry, etc. Besides, I have an interest in the applications of the synthesized nano-materials in different fields, such as sorption, photocatalysis, catalysis, analysis, etc. In particular, my current work is dedicated to the synthesis of carbon

nanotube, graphene, porous carbon-based composites and their applications as catalysts, sorbents, and membranes. I did work on the synthesis and characterization of nanomaterials including metal oxides using chemical methods such as sol-gel methods and physical methods such as laser ablation methods.

I had worked on the preparation of materials with sensing surfaces, activated by electrochemical methods, for sensing of different targets such as cyanide, and detection of different drugs such as chlorpheniramine, verapamil, amlodipine, and promethazine in pharmaceutical applications. Besides, I did work on the simultaneous volumetric detection of guanine and adenine using cyclic voltammeter and different electrochemical methods under the application of glassy carbon.

I have done work on the synthesis of nanomaterials, including but not limited to; carbon nanotube/metal oxides composites, CNT/MO/polymeric materials. Specifically, the following materials have been synthesized by chemical methods, carbon nanotube/tungsten oxide, carbon nanotube/zinc oxide, carbon nanotube/iron oxide, carbon nanotube/alumina, carbon nanotube/titania, carbon nanotube/tungsten oxide coated on ceramic, and carbon nanotube/tungsten oxide/polyamide/polysulfone. These materials have been examined and tested for different applications, as a catalyst for photodegradation in batch and coated on rotating disk and for simultaneous oxidation and sorption, and as adsorbents for separation of different targets. The characterization of the materials and analysis has been conducted using various equipment. I have done collaborative work with scientists in different departments at KFUPM, like CENT, LRG, and outside KFUPM like scientists from KACST, KSU, IIT, MIT, KAU, Najran University. As a result, we have published excellent work. Part of my habit, I would like to continue working in collaboration with other scientists from different institutes.

My future work will primarily focus on membranes' design, catalytic-surfaces' design and understanding the mechanisms of how the activity of metal oxides is enhanced by supports or substrates. More attention can be given to the interaction between the substrates and polymeric materials in the hybrid materials and how we can enhance the utilization of such materials in research areas including but not limited to: sorption, photocatalysis, catalysis, and membrane design, etc.

I am interested to work on projects related to nanotechnology and its applications. My desire to collaborate with others translates into research achievements. I am open to new ideas and able to

create ideas or work on any ideas. The aim is to learn more from collaboration and be more a valuable asset to the institute.

Tawfik Abdo Saleh
Email: tawfikas@hotmail.com
Mobile: 00966506065323

5.2. Research Interest

- Synthesis of materials, nanomaterials, composites and hybrid materials
- Characterization using spectroscopic and electrochemical techniques
- Sorption, Catalysis, photodegradation
- Analysis and detection
- Applications of the nanomaterials and hybrid materials in water and energy

5.3. Research Leadership and Development of Laboratories

I have developed excellent research leadership skills, which is evidenced through patents, number of publications, quality of publications, research proposals, and science citations and applied research projects. Some of my published papers have been listed in top 25 as cited by Science Direct. In spite of my heavy commitment to my basic research area of nanomaterials and materials chemistry and teaching activities, I managed to keep my research active to cover diversified fields by developing the applications in various engineering and scientific problems as per needs of the community at international large and the local in particular and in synchronization with the national plans.

I have published good scientific papers in international refereed journals and conferences such as Small, Applied Materials, Applied catalysis B, Colloids Communications, and many other journals and national and regional conferences. Many Patents on my latest inventions have been published by US patent office. My research work has been cited in various international journals. I have interacted and shared my knowledge (through seminars) with the scientific community at KFUPM, other universities of the Kingdom and even at the international forums. I have floated many original and innovative ideas for different research projects, which have been tested experimentally

and accepted for publications in journals. I have not only worked in my major field of chemistry but also contributed reasonably well to interdisciplinary fields such as Nanotechnology, Material Science, Chemistry, Electrical & Mechanical Engineering and Environmental Science, Earth Science (Geology), Civil Engineering, Petrochemical & Refining and Petroleum Engineering. I have collaborated with scientists from these departments (e.g. Chemistry, Chemical, Mechanical, Earth Sciences, Civil, and others).

I have submitted many Research proposals and numerous technical discussion papers (ideas) to Saudi-Aramco, SABIC, Saudi Desalination Company, KACST, and to other local industries/organizations in the Kingdom. I have managed, co-coordinated and supervised and completed many research projects in the above mentioned areas of basic and applied nature funded internally and externally by clients. I have compiled many Scientific/ Technical reports regarding these projects.

I have participated in reviewing many research papers for various international journals like Scientific reports, nature communication, Journal of material chemistry A and many others. I also worked as a reviewer of many proposals (local, regional and international) from various agencies and universities.

I have been on different occasions external examiner for Master and Ph. D. students from local and international Universities. I supervised MS and PH.D students. I have been supervisor/co-supervisor for master and senior projects. I have taught different chemistry courses as outlined in the CV. My professional and community services covers different activities like teaching, co-ordination and participation in many committees, organizing exhibition, short course and supervising senior projects.

Based on accomplishments in the research, teaching, marketing and other activities, ALL my annual performance evaluation for the all years have been rated as “OUTSTANDING” A+, and I have been awarded Highly Cited Awards,3 times from 2018, 2019, and 2020 which is only awarded to top 1% highly cited. In addition, I have been awarded many national and international awards such as Award for Excellence in Research, Best Teaching Award and best academic advising award. I am also one of the recipient of the Best Research Paper award, instituted by the Ministry of Education in 2021. Due to my research profiles, I have been selected as a member Editorial Boards of many Journals. Apart from these distinctions, I have collaborations (Research

Projects & Thesis Co-Supervisions) with departments, universities such as MIT,USA, National University Singapore.

5.4. Laboratory Development Activities:

Worked on the development of the following laboratory activities and focus areas:

- of lab for the synthesis of nanomateraials using chemical methods (sole gel, precipitation etc) for various applications in the field of wastewater purification, environment, fuel, and petrochemicals and others.
- Devloping lab for the synthesis of Super Hydrophobic, Hydrophilic and Olieophobic surfaces for oil water separation and self cleanings surfaces using coating, spin coating and cost effective pressurized spray coating techniques developed at Chemistry dep. KFUPM.
- Developed an Environmental Lab for monitoring and removal of water pollutants, Water treatment and for trace pollutants analysis using self-developed photoacoustic spectrometer.
- Developing of characterization methods for nanomaterials and composites
- Working as principal investigator /task leader on various projects of applied nature in joint collaboration with academic departments and RI centers. Designed and developed various experiments to carry out the applied research projects. Most of the research work has been published in refereed journals, conference proceedings as well as in project reports.
- Completed many projects (long term and short term) of basic and applied nature funded externally and internally by KFUPM as listed in under project section.

5.5. Leadership in Research Projects (Completed or under Progress)

Completed a number of research projects in various areas of Chemistry, such as

Research Projects Funded

Number	Source	Title	Role	Status
13-PET393-04	NSTIP	Development of advanced nanomaterials for ultra-deep desulfurization via reactive adsorption technique	PI	Completed

		Evaluated with high recommendation		
AT.34-8	KACST	Fabrication of nano-substrates and application of surface-enhanced Raman spectroscopy (SERS) for pharmaceutical interest	PI	Completed
12-PET3009-04	NSTIP	Enhanced Desulfurization of Fuels Using A Film-Shear Reactor and Membrane	Co-I	Completed
10-WAT1400-04	NSTIP	Development of effective adsorbents from waste rubber tires for wastewater treatment	Co-I	Completed

PI: Principal Investigator, Co-I: Co-investigator, KACST: King Abdulaziz City for Science and Technology, NSTIP: National Science, Technology and Innovation Plan, DSR: Deanship of Scientific Research

DSR funded Projects

Several projects have been conducted with industries including Aramco, SABIC, Sipchem, MAADEN, etc.

DSR funded Projects

Projects as PI

DF201019	1/4/2021	1/4/2023	S.R. 160.1k	201	Design and development of novel hetero-architectured materials for applications in highly efficient high power laser diodes, solar cells and biosensors
DF201004	1/4/2021	1/4/2023	S.R. 219.5k	201	Next-generation multifunctional ternary nanostructured materials for low cost and high-performance energy storage devices
DF191026	1/4/2020	1/4/2023	S.R. 190.5k	191	Development of New Highly Effective Phosphor/Luminescence Materials for New Generation Emission Display Devices and White LEDs
DF191016	1/4/2020	1/4/2023	S.R. 172.8k	191	Synthesis of hybrid nanomaterials (metal/metal oxide/ rGO) for enhanced electrocatalytic and fuel cell applications

F181006	15/04/2019	15/04/2022	S.R. 280.2k	181	Carbon nanomaterials Functionalized with Organic Conjugated Polymers as Low Cost and High-Performance Chemical, Gas and Bio-sensors for Applications in Environment and Healthcare Fields
DF181001	15/04/2019	15/04/2022	S.R. 228.7k	181	Organic-inorganic hybrid microporous polymeric nanocomposites for the photoreduction of CO2-Applications in environment and energy technologies
IN171017	15/04/2018	15/04/2021	S.R. 286k	171	Valorisation of bio-products and their chemical modifications with polymers for Environmental applications
IN171021	1/1/2018	1/1/2021	S.R. 290k	171	Synthesis of magnetic-nanoparticle modified-clays and investigation of their efficiency for water purification
IN161011	11/4/2017	11/4/2020	S.R. 248.2k	162	Synthesis of Hybrid Polymeric Nanomaterials and their applications for Deep Water Purification in column system
IN131053	1/9/2014	1/9/2017	S.R. 226k	132	A novel class of dual-purpose resins for simultaneously removal of toxic metal ions and organic contaminants
JF121009	1/5/2013	1/4/2014	S.R. 55k	122	Synthesis of carbon nanotube/silica nanocomposite with insight into the chemical interaction; and sorption activity

Projects as Co-I

DF191043	1/9/2020	1/9/2022	S.R. 274.7k	191	Nanoparticle-based surface-enhanced Raman
DF191035	1/4/2020	1/10/2022	S.R. 300k	191	Developing Cost-Effective and Energy-Effective
DF191009	1/4/2020	1/10/2022	S.R. 287.7k	191	Development of a universal cement behavior
DF181023	15/04/2019	15/04/2022	S.R. 205.1k	181	Evolutionary Multi-objective Optimization
MOHE1408	1/1/2015	1/10/2015	S.R. 340k	142	مبادرة المكتب العلمي Science Office
IN131036	1/6/2014	1/12/2015	S.R. 257.3k	132	Synthesis and Characterization of Novel ...
NUS15105	1/4/2015	31/03/2018	S.R. 999k	81	Development of Novel Catalysts for Hydro ...

As consultant

SR201005	1/2/2021	31/12/2021	S.R. 82.44k	192	Removal of oil-related organic contamination
SR181013	15/02/2019	15/01/2020	S.R. 73.19k	181	Z-Scheme Nanostructured Metal Sulfides
SR171022	1/9/2018	1/2/2020	S.R. 56.1k	172	Synthesis of Silica/Polyamides nanocomposite

5.6. Reports

A number of research project progress and Final reports.
Self Assessment Report for the Chemistry program in the Chemistry Department, KFUPM, Dhahran, Saudi Arabia, June 2003.
Several others

5.7. Citations

Scopus: Publications have been cited more than 21000 times by other researchers. List available upon request.

Google Scholar: >25000 citations

Highly Cited researcher for the years 2018, 2019, 2020, 2021

5.8. H-Index

Scopus: **84** (Excluding all self-citations and co-author citations.)
Google Scholar: **h-index 93**

5.9. Publications, Journals and reviews

Refereed Journal Publications:

The following have been extracted from Ph.D. and M.Sc. or published before the assistant professor:,

[J1] **Tawfik A. Saleh**, VK Gupta, 2012, Synthesis and characterization of alumina nano-particles polyamide membrane with enhanced flux rejection performance, Separation and purification technology 89, 245-251

[J2] **Tawfik A. Saleh**, AM Abulkibash, AE Ibrahim, 2012, Portable system of programmable syringe pump with potentiometer for determination of promethazine in pharmaceutical applications, Saudi Pharmaceutical Journal 20 (2), 155-160

[J3] VK Gupta, R Jain, A Mittal, **Tawfik A. Saleh**, A Nayak, S Agarwal, S Sikarwar, 2012, Photo-catalytic degradation of toxic dye amaranth on TiO 2/UV in aqueous suspensions, Materials Science and Engineering: C 32 (1), 12-17

[J4] MA Gondal, **Tawfik A. Saleh**, Q Drmosh, 2012, Optical Properties of Bismuth Oxide Nanoparticles Synthesized by Pulsed Laser Ablation in Liquids, Science of Advanced Materials 4 (3-4), 507-510

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[J6] **Tawfik A. Saleh**, VK Gupta, 2012, Column with CNT/magnesium oxide composite for lead (II) removal from water, Environmental Science and Pollution Research 19 (4), 1224-1228

[J7] MA Gondal, **Tawfik A. Saleh**, QA Drmosh, 2012, Synthesis of nickel oxide nanoparticles using pulsed laser ablation in liquids and their optical characterization, Applied Surface Science 258 (18), 6982-6986

[J8] **Tawfik A. Saleh**, 2011, Sensing of chlorpheniramine in pharmaceutical applications by sequential injector coupled with potentiometer, Journal of Pharmaceutical Analysis 1 (4), 246-250

[J9] **Tawfik A. Saleh**, VK Gupta, 2011, Functionalization of tungsten oxide into MWCNT and its application for sunlight-induced degradation of rhodamine B, Journal of Colloid and interface Science 362 (2), 337-344

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[J11] **Tawfik A. Saleh**, AM Abulkibash, 2011, Application of dc and mark-space bias differential electrolytic potentiometry for determination of cyanide using a programmable syringe pump, Applied Water Science 1 (1-2), 67-72

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[J16] VK Gupta, R Jain, **Tawfik A. Saleh**, A Nayak, S Malathi, S Agarwal, 2011, Equilibrium and thermodynamic studies on the removal and recovery of safranine-T dye from industrial effluents, Separation Science and Technology 46 (5), 839-846

[J17] MA Gondal, QA Drmosh, **Tawfik A. Saleh**, ZH Yamani, 2011, Growth of metal oxide nanoparticles using pulsed laser ablation technique, SPIE OPTO, 794013-794013-7

[J18] VK Gupta, S Agarwal, **Tawfik A. Saleh**, 2011, Synthesis and characterization of alumina-coated carbon nanotubes and their application for lead removal, Journal of hazardous materials 185 (1), 17-23

[J19] AN Kawde, **Tawfik A. Saleh**, 2011, Electrochemical investigation of glassy carbon paste electrode and its application for guanine and ssDNA detection, Chem. Sens 1, 18-24

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[J25] AEE Ibrahim, **Tawfik A. Saleh**, AM Abulkibash, KEE Ibrahim , 2010,Chemometric Optimization of Sequential Injection Spectrophotometric Method for Chlorpheniramine Determination in Pharmaceutical Formulations, Flow Injection Anal 27 (1), 26-31

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[J29] **Tawfik A. Saleh**, VK Gupta, AA Al-Saadi, 2013, Adsorption of lead ions from aqueous solution using porous carbon derived from rubber tires: Experimental and computational study, Journal of colloid and interface science 396, 264-269

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[J32] VK Gupta, **Tawfik A. Saleh**, AA Al-Saad, 2013, A study of the characteristics of activated carbons produced from waste rubber tire and adsorption of cadmium, Global Journal on Advances Pure and Applied Sciences, volume1, ISSN: 2301-2706

[J33] MA Gondal, TF Qahtan, MA Dastageer, **Tawfik A. Saleh**, YW Maganda, 2013, Effects of oxidizing medium on the composition, morphology and optical properties of copper oxide nanoparticles produced by pulsed laser ablation, Applied Surface Science 286, 149-155

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[J37] **Tawfik A. Saleh**, MN Siddiqui, AA Al-Arfaj, 2014, Synthesis of multiwalled carbon nanotubes-titania nanomaterial for desulfurization of model fuel, Journal of Nanomaterials 2014, 194

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[J42] A Jamiu, **Tawfik A. Saleh**, SA Ali, 2015, Synthesis of a unique cross-linked polyzwitterion/anion with an aspartic acid residue and its use for Pb 2+ removal from aqueous solution, RSC Advances 5 (53), 42222-42232

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[J44] **Tawfik A. Saleh**, Gaddafi I. Danmaliki, Nanocomposites and Hybrid Materials for Adsorptive Desulfurization, IGI 1, 129-153

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[J50] **Tawfik A. Saleh**, SA Haladu, SA Ali, 2015 A novel cross-linked pH-responsive tetrapolymer: Synthesis, characterization and sorption evaluation towards Cr (III), Chemical Engineering Journal 269, 9-19

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[J52] **Tawfik A. Saleh**, AA Al-Saadi, Surface characterization and sorption efficacy of tire-obtained carbon: experimental and semiempirical study of rhodamine B adsorption, Surface and Interface Analysis 47 (7), 785-792

[J53] F Zare, M Ghaedi, A Daneshfar, S Agarwal, I Tyagi, **Tawfik A. Saleh**, VK Gupta, 2015, Efficient removal of radioactive uranium from solvent phase using AgOH–MWCNTs nanoparticles: Kinetic and thermodynamic study, Chemical Engineering Journal 273, 296-306

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Work after promotion to Associate Professor (1/1/2017):

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5.10. Refereed Conference Publications with Proceeding:

[C1] M Satria, TA Saleh, SE Putri, Advanced Multigrowth-Catalyst Approach for Efficient Synthesis of {Zn} Si Q-Dots through Ripple Effect Utilization: Photocatalytic Activity Test, 248th ECS Meeting (October 12-16, 2025)

[C2] M Zahradeen, TA Saleh, Enhancing the Corrosion Resistance of Carboxylic Based Polymer Using Nitrogen Doped Activated Carbon from Agricultural Waste, 248th ECS Meeting (October 12-16, 2025)

[C3] MU Zarewa, TA Saleh, Refinery-Waste-Derived Carbon Quantum Dots for Selective Metal Ion Fluorescence Sensing: Experimental, DFT, and Deep Learning Insights, ACS Sustainable Resource Management, 2025

[C4] M Zahradeen, TA Saleh, K Haruna, Enhancing the Corrosion Resistance of Organic Compounds Using Carbon Dots from Agricultural Waste, 247th ECS Meeting (May 18-22, 2025)

[C5] N Aljeaban, A Busaleh, B Alharbi, TA Saleh, Synthesis of Aminopropyl-modified Silica with Hydrophilic Branches Inhibitor for Corrosion Inhibition, CONFERENCE 2024, 1-9

[C6] N Aljeaban, B Alharbi, A Busaleh, TA Saleh, Synthesis of Silane-Modified Nanoparticles-Based Corrosion Inhibitor for Acidic Corrosion, CONFERENCE 2023, 1-10,

[C7] B Alharbi, N Aljeaban, A Busaleh, TA Saleh, Recent Advancements of Corrosion Inhibitors Using Graphene Oxide-Based Nanomaterial, AMPP CORROSION, AMPP-2023-19268

[C8] Tawfik A. Saleh, Abbas A., Smart Superhydrophilic thin film nanocomposite supported Si-g-polyamide for Highly Effective Water Treatment, American Chemical Society ACS Fall 2023 – Materials Science and Engineering Sessions, Division of Polymeric, 3889259

[C9] Tawfik A. Saleh, Abbas A., GREEN CHEMISTRY POSTGRADUATE SUMMER SCHOOL held from 2nd -7th July 2023 Venezia, Italy. The Conference venue: the Camplus Apartments in Venice, Italy (Calle Larga Santa Marta – Dorsoduro 2137). Conference web URL: Green Chemistry Summer School | Sustainable Development through Green Chemistry

[C10] A Hendi, A Osman, Tawfik Saleh, E Kotb, K Elsayed, Efficient antibacterial activity of NiWO4 nanoparticles, ACS Fall 2023, doi.org/10.1021/scimeetings.3c10166

[C11] Tawfik Saleh, K. Haruna, Dopamine functionalized graphene oxide as an effective corrosion inhibitor against carbon steel corrosion in oilfield acidizing and sweet corrosive environments., Conference Title: ACS Fall 2023. Conference Theme: Harnessing the Power of Data. 3921640, Date: August 13 - 17, 2023. Place: Moscone Center, San Francisco, CA, USA.

[C12] TA Saleh, N Aljeaban, B Alharbi, A Busaleh, Synthesis of Silane-Modified Nanoparticles-Based Corrosion Inhibitor for Acidic Corrosion, AMPP Annual Conference + Expo, Denver, Colorado, USA, March 2023., Paper Number: AMPP-2023-18882 ,

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[P49] METHOD FOR REMOVING HEAVY METALS FROM WASTEWATER, Authors: Othman Charles Sadeq Al Hamouz; Tawfik Abdo Saleh Awadh; Oluwafemi Akintola | Number: US10501341 | Owner: KFUPM | Country: United States

[P50] Cross-linked Polydithiocarbamate, Synthesis Thereof, and Use for Removing Heavy Metals, Authors: Othman Charles Sadeq Al Hamouz; Tawfik Abdo Saleh Awadh; Mohammed Estatie | Number: US10494472 | Owner: KFUPM | Country: United States

[P51] APPARATUS FOR REMOVING MERCURY FROM HYDROCARBONS, Authors: Othman Charles Sadeq Al Hamouz; Mohamed A. Habib; Tawfik Abdo Saleh Awadh; Thomas Frederick Garrison; Michael Lee Fraim | Number: US10487272 | Owner: KFUPM | Country: United States

Patent in 2018

[P52] Adsorbent comprising bisphenol, formaldehyde and hexadiamine terpolymer with adsorbed Pb, Authors: Othman Sadeq Al Hamouz; Tawfik Saleh Awadh | Number: US9878923 | Owner: KFUPM | Country: United States

[P53] A CYCLOPOLYMERIC ZWITTERION-DIANIONIC RESIN AND SYNTHESIS AND USES THEREOF, Authors: Shamsuddeen Haladu; Shaikh Ali; Tawfik Saleh Awadh | Number: US9856334 | Owner: KFUPM | Country: United States

[P54] METHOD FOR DESULFURIZING DIESEL FUEL, Authors: Mohammad Siddiqui; Mohammad Gondal; Khalid Alhooshani; Abdullah Al Swat; Tawfik Saleh Awadh | Number: US9926495 | Owner: KFUPM | Country: United States

[P55] QUATERNARY AMMONIUM SOLVATED TETRAPOLYMERS AND METHODS OF REMOVING CR(III) FROM SOLUTION USING THE TETRAPOLYMER, Authors: Shamsuddeen Haladu; Shaikh Ali; Tawfik Saleh Awadh | Number: US9890228 | Owner: KFUPM | Country: United States

[P56] METHOD FOR MAKING A POLYGRAPHENE MEMBRANE FOR WATER DESALINATION, Authors: Tawfik Saleh Awadh | Number: US10130919 | Owner: KFUPM | Country: United States

[P57] METHOD FOR PURIFYING WATER, Authors: Tawfik Saleh Awadh | Number: US10137419 | Owner: KFUPM | Country: United States

[P58] A METAL ADSORBENT AND A METHOD OF MAKING THEREOF, Authors: Tawfik Saleh Awadh; Ahmed AlJameel | Number: US10150094 | Owner: KFUPM | Country: United States

[P59] Method for Preparing a Polygraphene Membrane, Authors: Tawfik Abdo Saleh Awadh | Number: US10065155 | Owner: KFUPM | Country: United States

Patent in 2017

[P60] A method for removing heavy metals from an aqueous solution with cross-linked copolymers, Authors: Shaikh Ali; Tawfik Saleh Awadh; Zakaryah Jamiu | Number: US9782768 | Owner: KFUPM | Country: United States

[P61] A NOVEL METHOD FOR PREPARING ALUMINA-ZINC OXIDE-NICKEL OXIDE COMPOSITE FOR DESULFURIZATION, Authors: Mohammad Siddiqui; Mohammad Gondal; Khalid Alhooshani; Abdullah Al Swat; Tawfik Saleh Awadh | Number: US9663724 | Owner: KFUPM | Country: United States

[P62] ACTIVATED CARBON/ALUMINUM OXIDE/POLYETHYLENIMINE COMPOSITES AND METHODS THEREOF, Authors: Tawfik Saleh Awadh | Number: SA5533 | Owner: KFUPM | Country: Saudi Arabia

[P63] ACTIVATED CARBON/ALUMINUM OXIDE/POLYETHYLENIMINE COMPOSITES AND METHODS THEREOF, Authors: Tawfik Saleh Awadh | Number: US9687813 | Owner: KFUPM | Country: United States

[P64] CROSS-LINKED DIALLYL QUATERNARY AMMONIUM SALT TETRAPOLYMERS AND METHODS THEREOF, Authors: Shamsuddeen Haladu; Shaikh Ali; Tawfik Saleh Awadh | Number: US9790296 | Owner: KFUPM | Country: United States

[P65] NOVEL CROSS-LINKED (BISPHENOL-S, FORMALDEHYDE, 1,6-HEXADIAMINE) TERPOLYMER FOR THE ADSORPTION OF Pb2+ IONS FROM AQUEOUS SOLUTIONS, Authors: Othman Sadeq Al Hamouz; Tawfik Saleh Awadh | Number: US9796604 | Owner: KFUPM | Country: United States

Patent in 2016

[P66] A Novel Method for Preparing Alumina-Zinc Oxide-Nickel Oxide Composite for Desulfurization, Authors: Mohammad Siddiqui; Mohammad Gondal; Khalid Alhooshani; Abdullah Al Swat; Tawfik Saleh Awadh | Number: US9421516 | Owner: KFUPM | Country: United States

[P67] Crosslinked polyzwitterion/anion with aspartic acid residue for Pb2+ sorption from aqueous solution, Authors: Shaikh Ali; Tawfik Saleh Awadh; Zakaryah Jamiu | Number: US9480979 | Owner: KFUPM | Country: United States

[P68] METHOD FOR ENHANCING STRENGTH AND DURABILITY OF WEAK SOILS, Authors: Mohammed Maslehuddin; O. Baghabra Al-Amoudi; Abdullah Al-Homidy; Tawfik Saleh Awadh | Number: US9499742 | Owner: KFUPM | Country: United States

[P69] METHODS FOR PREPARING COMPOSITES OF ACTIVATED CARBON/ZINC OXIDE AND ACTIVATED CARBON/ZINC OXIDE/NICKEL OXIDE FOR DESULFURIZATION OF FUELS, Authors: Mohammad Siddiqui; Khalid Alhooshani; Abdullah Al Swat; Tawfik Saleh Awadh | Number: US9352297 | Owner: KFUPM and KACST | Country: United States

Patent in 2015

[P70] METHOD FOR DETECTION OF CYANIDE IN WATER, Authors: Mohammad Gondal; Zain Abdallah Yamani; Qasem Drmosh; Tawfik Saleh Awadh | Number: US9034169 | Owner: KFUPM | Country: United States

Patent in 2013

[P71] Method for Detection of Cyanide in Water, Authors: M Gondal; Zain; Q Drmosh; Tawfik Saleh | Number: US8460538 | Owner: KFUPM | Country: United States

[P72] Plate Reactor, Authors: Tawfik Saleh Awadh | Number: US8480964 | Owner: KFUPM | Country: United States

5.15. Educational and Learning Publications

[E1] **Tawfik A. Saleh**, Strategy for Integrating Basic Concepts of Nanotechnology to Enhance Undergraduate Education, American Scientific Publishers, Journal of Nano Education, Volume 4, Numbers 1-2, 2013, pp. 1-7(7) Publication date: 2013-03-01

[E2] **Tawfik A. Saleh**, NY Abu-Thabit, 2009, Statistical Evaluation of Rounding Cooperative Learning Strategy, Chemical Education Journal (CEJ), Vol. 13, No. 2 /Registration No. 13-20 /Received December 4, 2009,.

[E3] **Tawfik A. Saleh**, "Pre-laboratory Visualization Techniques to Support Learning and Teaching of Introductory Chemistry Laboratory" Chemical Education Journal (CEJ), Vol. 12, No. 1 (2009).

[E4] **Tawfik A. Saleh**, "Effectiveness of E-Learning in the Chemistry Laboratory: Case Study", International Conference of E-learning and Distance Education (eLi 2011), 21-24 Feb, Riyadh, SA, Full paper in proceeding,

[E5] **Tawfik A. Saleh**, 2011 Teaching Tip: Spark ChE Students' Interest in Chemistry Lab by Cooperative Strategy-Inside front cover, Chemical Engineering Education 45 (3)

[E6] **Tawfik A. Saleh**, 2011, Statistical analysis of cooperative strategy compared with individualistic strategy: an application study, The Journal of Effective Teaching 11 (1), 19-27; The journal is supported by the Center for Teaching Excellence at the University of North Carolina Wilmington

[E7] **Tawfik A. Saleh**, 2011, Testing the effectiveness of visual aids in chemical safety training, Journal of Chemical Health and Safety, Division of Chemical Health and Safety of the American Chemical Society, March/April 2011, 18(2), 3-8doi:10.1016/j.jchas.2010.03.012,

[E8] **Tawfik A. Saleh**, Evaluation of Cooperative Strategy versus Competition Strategy: Statistical Case Study, Eurasian Journal of Physics and Chemistry Education, Vol 3, (2011)1

[E9] **Tawfik A. Saleh**, "Visualization Resources: To Better Utilize Lab-Time and to Enhance Teaching Introductory Chemistry Laboratory", J. of Comput. Chem., Japan., Vol 8, No. 2 (2009) pp: 93-96

[E10] **Tawfik A. Saleh**, (2011). Statistical Analysis of Cooperative Strategy Compared with Individualistic Strategy: An Application Study. The Journal of Effective Teaching, 11(1), 19-27.

5.16. Other articles in Newspapers, Magazine

Tawfik A. Saleh, Teaching world, old methods and new technologies of education, University magazine, march 7, 2009, v. 391, page 10, ISSN1319-0741: 391

Tawfik A. Saleh, Exams testing both students and teachers, king Fahd University magazine, march 7, 2009, v. 400, page 14, ISSN1319-0741

Tawfik A. Saleh, Safety Education for Future Generation, Future, Volume XXIX, N. 2, Page 6

Tawfik A. Saleh, Preparing students to be aware about safety at workplace, ORGANON 2011, Issue 2, page 5, Saudi Arabian International Chemical Sciences Chapter of the American Chemical Society

Tawfik A. Saleh , تقنية النانو وتطور الحفازات ORGANON 2011, Issue 3, page 4-5, Saudi Arabian International Chemical Sciences Chapter of the American Chemical Society

الاخـتـبـارات ... مـقـياس للطالب والمدرس! http://s4c.kfupm.edu.sa/home/articles-ar/

الطريقة القديمة في استخدام الوسائل الحديثة http://s4c.kfupm.edu.sa/home/tests-measures/

5.17. Miscellaneous activities

Workshops, Simenars, Lectures attendance and participation

Event Title	Start Date	Event Type
Getting Started with Blackboard 9.1	Wed, 04 Sep 2013	Workshop
Getting Started with Blackboard 9.1	Wed, 11 Sep 2013	Workshop
Work Integrated Learning (WIL)	Tue, 01 Oct 2013	Discussion Forum
Innovative Initiatives in Undergraduate Education	Mon, 30 Sep 2013	Seminar
Classroom Assessment/ Formative Evaluation	Mon, 18 Nov 2013	Workshop
Grading	Tue, 19 Nov 2013	Workshop

Learning Dynamics for Instructors	Sun, 08 Dec 2013	Workshop
Graduate Admissions	Tue, 19 Nov 2013	Workshop
Introduction to Blackboard 9.1	Tue, 07 Jan 2014	Workshop
Blackboard CE 8 and its features	Mon, 10 Sep 2012	Workshop
Team-Based Learning	Mon, 10 Dec 2012	Workshop
Participatory Classrooms	Sat, 22 Dec 2012	Workshop
Students' Motivation	Tue, 12 Mar 2013	Workshop
Enhancing Research Skills	Wed, 30 Apr 2014	Seminar
Best practices in writing MCQ	Mon, 18 Aug 2014	Workshop
The Joy and Responsibility of Teaching Well	Mon, 18 Aug 2014	Seminar
Active Learning Strategies	Wed, 20 Aug 2014	Workshop
Assessment: Promises, Prospects and Pitfalls	Mon, 18 Aug 2014	Seminar
Integrated Course Design	Mon, 18 Aug 2014	Workshop
Developing Xperiences: Design Considerations for Online/Digital Courses Part 1	Tue, 26 Aug 2014	Workshop
Design Considerations for Online/Digital Courses Part 2 (Including Infrastructure and Delivery Considerations)	Tue, 26 Aug 2014	Workshop
LEAN in Higher Education: Increasing the Value and Performance of University Processes	Mon, 22 Aug 2016	Seminar
Experiential Education	Mon, 22 Aug 2016	Seminar
Adult Learning Theory	Tue, 23 Aug 2016	Workshop
Linking Motivational Theories to the Design of Learning Experience	Wed, 24 Aug 2016	Workshop
Risk Management – An Overview	Thu, 25 Aug 2016	Seminar
Introduction to KFUPM Online Office	Wed, 31 Aug 2016	Seminar
Moving your Class to the Cloud	Wed, 31 Aug 2016	Seminar
Student Success Center	Thu, 01 Sep 2016	Seminar
Undergraduate Research - Best Practices	Thu, 01 Sep 2016	Discussion Forum

Workshops attendance

I attended several workshops and short courses:

1. 2011 Winter Enrichment Program (WEP) at KAUST
2. Lecture Series on Organotransition Metal Chemistry and Olefin Polymerization by Professor John E. Bercaw – Caltech, USA, organized by the Center of Research Excellence in Petroleum Refining & Petrochemicals CoRE-PRP at KFUPMAnnual Symposium: Catalysts in Petroleum Refining & Petrochemicals, Dec 5-6, 2010, Research Institute
3. The Arab Conference on the Developmental and Economic Impact of Nanotechnology, Saudi Arabia, KFUPM, March 27-April 04, 2010
4. Workshop: Hands-on experience in project-centric engineering design education, March 21-

25, 2010, Academic development,

5. Series of Seminars, On Polymer Chemistry, Properties and Mechanisms of Structure Control, Professor Robert H. Grubbs Noble Laureate, Chemistry 2005, Division of Chemistry and Chemical Engineering California Institute of Technology Pasadena, California, USA, May 1-5, 2010
6. Nanoscience & Nanotechnology : Hope or Hype, Professor K L Chopra, Former Director , IIT Kharagpur, Founder , Thin Film Laboratory
7. Lecture Series on Organotransition Metal Chemistry and Olefin Polymerization by Professor John E. Bercaw – Caltech, USA, organized by The Center of Research Excellence in Petroleum Refining & Petrochemicals CoREPRP at KFUPM, from 29-Jan to 9-Feb, 2011
8. Workshop on Measuring Research Performance, March 08 & 09, 2009, Venue: B20 (Conference Center), Deanship of scientific research, KFUPM
9. "Fifth Workshop on clean water and clean energy" January 11-13, 2011, Center of excellenc for scientific research collaboration with MIT, Center of clean water and clean energy at MIT and KFUPM, Building 20 , KFUPM
10. Introduction to Wet Chemistry Laboratory", Short Course, 12-16 May2007, KFUPM
11. "Application of Statistics to Chemical Analysis and Quality Control", Short Course, 4-8 Dec, 2004, KFUPM

Research Management related Workshops

I attended several workshops and short courses, some of these are:

12. "Essentials of Research Project Management" December 28-29, 2010, The Deanship of Scientific Research at KFUPM.
13. Research Team Leadership - Developing Capacity for Research Team Leadership November 15 and 16, 2009
14. Strategies For Success In Grant Proposal Writing workshop - May 11 & 12, 2009
15. "Measuring Research Performance", workshop, 8-9 March 2009, KFUPM, SA
16. Workshop towards Establishing a Center of Research Excellence in Corrosion, The Center of Research Excellence in Corrosion, RI, KFUPM, SA, March 3-4, 2009
17. Workshop on "Innovation & Technology Licensing", April 21 Tuesday,2009, KFUPM, RI, Innovation Center
18. Workshop On "Opportunities For Research Activities At KFUPM", Academic Year 2016 – 2017 (Semester – 161) , Date: Sunday, October 2, 2016
19. 2011 Winter Enrichment Program (WEP) at KAUST
20. Lecture Series on Organotransition Metal Chemistry and Olefin Polymerization by Professor John E. Bercaw – Caltech, USA, organized by the Center of Research Excellence in Petroleum Refining & Petrochemicals CoRE-PRP at KFUPMAnnual Symposium: Catalysts in Petroleum Refining & Petrochemicals, Dec 5-6, 2010, Research Institute
21. The Arab Conference on the Developmental and Economic Impact of Nanotechnology, Saudi Arabia, KFUPM, March 27-April 04, 2010
22. Workshop: Hands-on experience in project-centric engineering design education, March 21-25, 2010, Academic development,

23. Series of Seminars, On Polymer Chemistry, Properties and Mechanisms of Structure Control, Professor Robert H. Grubbs Noble Laureate, Chemistry 2005, Division of Chemistry and Chemical Engineering California Institute of Technology Pasadena, California, USA, May 1-5, 2010
24. Nanoscience & Nanotechnology : Hope or Hype, Professor K L Chopra, Former Director , IIT Kharagpur, Founder , Thin Film Laboratory
25. Lecture Series on Organotransition Metal Chemistry and Olefin Polymerization by Professor John E. Bercaw – Caltech, USA, organized by The Center of Research Excellence in Petroleum Refining & Petrochemicals CoREPRP at KFUPM, from 29-Jan to 9-Feb, 2011
26. Workshop on Measuring Research Performance, March 08 & 09, 2009, Venue: B20 (Conference Center), Deanship of scientific research, KFUPM
27. "Fifth Workshop on clean water and clean energy" January 11-13, 2011, Center of excellence for scientific research collaboration with MIT, Center of clean water and clean energy at MIT and KFUPM, Building 20 , KFUPM
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Research Management related Workshops

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30. "Essentials of Research Project Management" December 28-29, 2010, The Deanship of Scientific Research at KFUPM.
31. Research Team Leadership - Developing Capacity for Research Team Leadership November 15 and 16, 2009
32. Strategies For Success In Grant Proposal Writing workshop - May 11 & 12, 2009
33. "Measuring Research Performance", workshop, 8-9 March 2009, KFUPM, SA
34. Workshop towards Establishing a Center of Research Excellence in Corrosion, The Center of Research Excellence in Corrosion, RI, KFUPM, SA, March 3-4, 2009
35. Workshop on "Innovation & Technology Licensing", April 21 Tuesday,2009, KFUPM, RI, Innovation Center

5.18. Citations summary Table (Non-Self): (>42000)

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Note: Scopus **h-index 60, citation >15000**

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J10	329 1. Yu, Y.-B., Zhang, Q., Wu, L.-Y., (...), Chen, B.-Y., Hong, J.-M. Reaction mechanism of N-(4-hydroxyphenyl)ethanamide electrodegradation via phosphorus-graphene prepared from triphenylphosphine: Generation and destruction of the reactive species 2021 Chemical Engineering Journal 403,126322 2. Khoshhesab, Z.M., Ayazi, Z., Dargahi, M. Synthesis of magnetic graphene oxide nanocomposite for adsorption removal of reactive red 195: Modelling and optimizing via central composite design, 2020 International Journal of Nanoscience and Nanotechnology 16 ,(1)pp. 35-48 3. Yin, W.-M., Wang, Y., Hou, Y.-C., (...), Pan, Q.-J., Guo, Y.-R. Petaloid-array hierarchically structured carbon Dots/Mg(OH)2 composite: Design, characterization and removal/recovery of cadmium via slowly releasing, 2020, Chemical Engineering Journal 401,125961 4. Chatterjee, S., Guha, N., Krishnan, S., (...), Mathur, P., Rai, D.K.Selective and Recyclable Congo Red Dye Adsorption by Spherical Fe3O4 Nanoparticles Functionalized with 1,2,4,5-Benzenetetracarboxylic Acid 2020 Scientific Reports 10111,(1) 5. Carvajal, D., Silva-Llanca, L., Larraguibel, D., González, B. On the aerodynamic fog collection efficiency of fog water collectors via three-dimensional numerical simulations, 2020 Atmospheric Research 245,105123 6. Srivastava, V., Zare, E.N., Makvandi, P., Tay, F.R., Sillanpaa, M.Cytotoxic aquatic pollutants and their removal by nanocomposite-based sorbents, 2020 Chemosphere 258,127324 7. Asenath-Smith, E., Ambrogi, E.K., Barnes, E., Brame, J.A. CuO enhances the photocatalytic activity of Fe2O3 through synergistic reactive oxygen species interactions, 2020, Colloids and Surfaces A: Physicochemical and Engineering Aspects 603,125179 8. Mashkoor, F., Nasar, A. Facile synthesis of polypyrrole decorated chitosan-based magsorbent: Characterizations, performance, and applications in removing cationic and anionic dyes from aqueous medium, 2020, International Journal of Biological Macromolecules 161 ,pp. 88-100 9. Luján-Facundo, M.J., Mendoza-Roca, J.A., Soler-Cabezas, J.L., Cuartas-Uribe, B., Pastor-Alcañiz, L. Management of table olive processing wastewater by an osmotic membrane bioreactor process, 2020, Separation and Purification Technology 248,117075 10. Behjati, S., Sheibani, S., Herritsch, J., Gottfried, J.M. Photodegradation of dyes in batch and continuous reactors by Cu2O-CuO nano-photocatalyst on Cu foils prepared by chemical-thermal oxidation, 2020 Materials Research Bulletin 130,110920 11. Mantasha, I., Saleh, H.A.M., Qasem, K.M.A., Mehtab, M., Ahmad, M. Efficient and selective adsorption and separation of methylene blue (MB) from mixture of dyes in aqueous environment employing a Cu(II) based metal organic framework, 2020, Inorganica Chimica Acta, 511,119787 12. Osman, A.M., Hendi, A.H., Saleh, T.A. Simultaneous adsorption of dye and toxic metal ions using an interfacially polymerized silica/polyamide nanocomposite: Kinetic and thermodynamic studies 2020, Journal of Molecular Liquids 314,113640 13. Shi, X., Yu, Y., Yang, Q., Hong, X. Carboxyl groups as active sites for H2O2 decomposition in photodegradation over graphene oxide/polythiophene composites, 2020 Applied Surface Science 524,146397

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6. Professional Activities

6.1. Technical Conference Attendance And Presentations

Technical Conference and Symposia Attendance with Presentation:

[PC1] **Tawfik. A. Saleh**, Danmaliki, Gaddafi I., Screening the adsorptive effect of metal oxides nanoparticles loaded activated carbons for sulfur compounds, 249th ACS National Meeting & Exposition, Denver, CO, United States, March 22-26, 2015 (2015), ENFL-456.

[PC2] A. F. Al-Ahmadi, M. A. Al-Daous, and **Tawfik A. Saleh**, Effect of calcination Temperature on the morphology of carbon nanosphere synthesized from Polymethylmethacrylate, The 2014 5th International Conference on Material and Manufacturing Technology held in Kuala Lumpur, May 8-9, 2014., ID T059

[PC3] Alhooshani, K. R.; Siddiqui, M. N.; **Tawfik A. Saleh** and M. A. Gondal: " Adsorptive Desulfurization of Model Fuel Oil Using Novel Metal Oxides", "245th ACS National Meeting

& Exposition" New Orleans, LA, USA, Preprints, Division of Energy and Fuels, 58(1), 1024-1025, April 7-11, 2013.

[PC4] Alhooshani, K. R.; Al-Swat, A.; **Tawfik A. Saleh**, and Siddiqui, M. N**.** "Kinetic studies and evaluation of nanoporous carbon for desulfurization of fuels coupled with GC- SCD detection method",, "246th ACS National Meeting & Exposition" Indianapolis, IN, USA, Preprints, Division of Energy and Fuels, September 8-12, 2013.

[PC5] Munzir Moh. Suliman, Chanbasha Basheer, Mohammad N. Siddiqui and **Tawfik A. Saleh**, Extraction of elemental sulfur using liquid-phase microextraction followed by gas chromatographic methods, 3rd International Laboratory Technology Conference & Exhibition (LABTECH2014)

[PC6] **Tawfik A Saleh**, M. N. Siddiqui and Chanbasha Basheer Preparation of composite of titania / multi-walled carbon nanotubes and desulfurization evaluation, , 3rd International Laboratory Technology Conference & Exhibition (LABTECH2014)

[PC7] Mohammed Gondal, F. Qahtan, M. Dastageer, **Tawfik A. Saleh**, Generation of Copper Oxides Nanoparticles Using Pulsed Laser Ablation in Water, 9th International Conference & Exhibition on Chemistry In Industry, ChemIndix 2013

6.2. Technical Presentations And Invited Lectures

[PC8] Tawfik A Saleh, Synthesis of nanocomposite of silica multi-walled carbon nanotubes for the removal of lead ions from waste waters, 3rd International Laboratory Technology Conference & Exhibition (LABTECH2014)

6.3. Review Of Technical Papers, Proposals And Reports

Review of Papers:

I reviewed several manuscripts. Recently, I reviewed manuscripts submitted to the following journals:

- Chemical engineeing journal (IF= 4.6)
- ACS Applied Materials & Interfaces IF=6.7
- RSC Advances (IF= 3.8)
- ACS Environmental Science & Technology IF= 5.4
- Environmental Science and Pollution Research
- Journal of colloid and interface science
- Advances in colloid and interface science
- Journal of Nanomaterials
- Arabian Journal of chemistry
- Applied Surface Science
- Journal of Molecular Liquids
- International Journal of Pavement Engineering
- International Journal of Electrochemical Science
- Desalination and Water Treatment
- Chemical Engineering Journal

- Surface and Interface Analysis
- Journal of Saudi Chemical Society
- Toxicological & Environmental Chemistry
- Journal of the Taiwan Institute of Chemical Engineers
- Journal of Water Supply: Research and Technology-Aqua
- Journal of Cleaner Production
- Chemical Engineering Research and Design
- Journal of colloid and interface science
- Process Safety and Environmental Protection
- Spectral Analysis Review
- Detection
- Advanced Materials Research
- International Journal of Environmental Science and Technology

Review of Books:

- Several Book chapters

Review of Proposals:

- Several KACST Proposals

7. Appendices

7.1. Appendix A: Teaching Evaluation

The following are the comments by the students, provided in the university evalaution system

Instructor's Name:	**Tawfik Abdo Saleh Awadh**	**Term:**	**201510**	**Department:**	**Chemistry**
Course No:	**CHEM-101**	**Section No:**	**10**	**Activity Type:**	**LEC**
No. of Students:	**33**	**No. of Comments:**	**4**		

Serial No	Open Comment
1	he is the best
2	best teacher in my opinion
3	Dr. Tawfik is one of the best teacher i have met in my life , he does everything to made us understand the subject

4	Excellent instructor, however, he always takes extra time and did not end the lecture on time so there is no break time between the classes because of that.

Instructor's Name:	Tawfik Abdo Saleh Awadh	Term:	201510	Department:	Chemistry
Course No:	CHEM-101	Section No:	11	Activity Type:	LEC
No. of Students:	34	No. of Comments:	6		

Serial No	Open Comment
1	من اكثر الدكاترة اخلاقاً
2	الله يسعدك دنيا و اخرة .. دكتور قمة في الاخلاق و التعاون
3	يعطيك ألف عافية .. أشكرك على خلقك العالي و تواضعك الجم
4	دكتور قمة في الاخلاق والتواضع .. يشرح المقرر بكل وضوح.. يملك اسلوب سحري في الشرح يتمكن من خلاله في السيطرة على جميع الطلاب

Instructor's Name:	Tawfik Abdo Saleh Awadh	Term:	201510	Department:	Chemistry
Course No:	CHEM-101	Section No:	12	Activity Type:	LEC
No. of Students:	33	No. of Comments:	1		

Serial No	Open Comment
1	Best ever (:

Instructor's Name:	Tawfik Abdo Saleh Awadh	Term:	201420	Department:	Chemistry
Course No:	CHEM-323	Section No:	56	Activity Type:	LAB
No. of Students:	14	No. of Comments:	1		

Serial No	Open Comment
1	This doctor is a gift from God.

Instructor's Name:	Tawfik Abdo Saleh Awadh	Term:	201410	Department:	Chemistry
Course No:	CHEM-642	Section No:	01	Activity Type:	LEC
No. of Students:	14	No. of Comments:	12		

Serial No	Open Comment
1	Thanks to KFUPM, thanks to chemistry department and many thanks to Dr. Tawfik. it is really a privileged to take the course with him. He has been a Hardworking, consistent and patient in trying to transfer the knowledge to us and indeed he has succeeded. I wish many faculties strategic like him. Besides taking care of all official academic responsibility, he also care about the feelings and career of students, on which he always give fatherly advice. We are never tied of his class we wish we will meet with him in some other courses. The course itself is beyond importance and should be taken in early classes of graduate studies as it will enhance student understanding, preparation and reporting their thesis work. The course is really the most important course in the department because it introduce student to experimental manipulations statistically and experimental designs before its commencement.
2	He is an excellent instructor and cares so much about the student understanding. He also gives examples in a reasonable and understandable manner. He is an excellent Knowledge of the course. I will recommend that the course is made compulsory for every research student due to the manner the instructor has presented the course.
3	a text book titled " Statistical and Chemometrics for Analytical Chemistry" by James N Miller and Jane C Miller is good material for the course.
4	Software used in course should be provided for the students and a practical textbook should also be provided for the course.
5	The course should be made a core course in chemistry for all graduate students because it is extremely important.
6	In general he is Excellent and very active man and he encourage student to participate in the lecture , in addition he concern about understanding the course materials
7	Excellent instructor with good masterly of the subject content.
8	He has good understanding of the course and always make the class an interactive one. Each class, a new but very vital knowledge is gained.
9	He is a very good lecturer
10	I am very excited to have taken this course. the instructor brigded te gap between theoritical aspect to real application. this has immensely helpful to my thesis and also in the future. the active learning give room for discussion and very open interaction. the instrutor has help in making the class so interesting and by asking us to put what we learn in our normal laboratory work. all in al, am delighted to have taken the course and will recommend it for student through out the whole session not only one semester.
11	In my opinion every graduate student of chemistry needs this course irrespective of chosen area of study. I therefore recommend that it should be made a compulsory course. And regarding the instructor, he truly did justice to the course. I hope he will be given the chance to take the course subsequently as this will enhance students understanding of the course
12	This is my best interactive learning class so far. The course is applicable in all facets of research and really help to design experimental procedure that will yield good possible results. In addition, It is recommended that the course is introduced as core for those students in analytical and physical unit.

Instructor's Name:	**Tawfik Abdo Saleh Awadh**	**Term:**	**201420**	**Department:**	**Chemistry**
Course No:	**CHEM-640**	**Section No:**	**01**	**Activity Type:**	**LEC**
No. of Students:	**5**	**No. of Comments:**	**4**		

Serial No	Open Comment

1	A specific textbook should be assigned for the course to serve as a reference. However, the instructor tried his best to provide us with a relevant materials
2	Dr. Tawfik Saleh is the best instructor to have taught me so far in graduate school. He uses adequate learning aids from videos to visiting the lab to see the equipment being discussed. His style of learning via discussion is truly amazing. I enjoyed the class and participated actively in it. I hope I get a good grade there because I really gained a lot even though I was skeptical about taking the course at the beginning of the term.
3	the doctor is excellent, motivating, knowledgeable, educational, and an asset to the university.
4	His approach in teaching is excellent

Instructor's Name:	**Tawfik Abdo Saleh Awadh**	**Term:**	**201410**	**Department:**	**Chemistry**
Course No:	**CHEM-323**	**Section No:**	**54**	**Activity Type:**	**LAB**
No. of Students:	**15**	**No. of Comments:**	**2**		

Serial No	Open Comment
1	you are the best of the best Dr's on the whole universe you are just the only one that made me continue Thursday smailling just because you are the happiness itself. thank you and don't take my words just as I want grade or something else from you other than I just want to leave a good remembrance.
2	the problem he takes a very long time to explain the theory

Instructor's Name:	**Tawfik Abdo Saleh Awadh**	**Term:**	**201320**	**Department:**	**Chemistry**
Course No:	**CHEM-323**	**Section No:**	**01**	**Activity Type:**	**LEC**
No. of Students:	**34**	**No. of Comments:**	**7**		

Serial No	Open Comment
1	he cares about the course, and the students as well. he is honest, loveable. may allah bless him. it's rare to see this kind of instructors in KFUPM.
2	The departement is not allowing him to express him self clearly!!
3	thanka a lot for Dr. Tawfik
4	Dr. Tawfik Slaheh is one of the best instructor I have ever met. His way in teaching and dealing with student is amazing. He breaks the barrier between students and the instructor. Although the course is very

	strange and the book is very bad, his way in teaching, his motivation to students and his effort in preparing notes make us like the course and understand it easyly. In addition to this, he is giving us a lot of examples in which in the concept of the couse is easyly understood. I hope that all instructors be like Dr. Tawfik. Many thanks to him.
5	the problem of this course is the book , and the way of teach this course , i think that if we take this course as lab course is more important than to take lecture and lab
6	The most perfect instructor , but the problem is in the course . The course is about instruments, how to give lectures bout instruments and equipment in a class.Even the youtube videos not that helpful. We should take the class in the lab. One lab class in a week not enough.

Instructor's Name:	**Tawfik Abdo Saleh Awadh**	**Term:**	**201320**	**Department:**	**Chemistry**
Course No:	**CHEM-323**	**Section No:**	**02**	**Activity Type:**	**LEC**
No. of Students:	**35**	**No. of Comments:**	**2**		

Serial No	Open Comment
1	Honestly your class is one of the best classes that i ever had and the way you teach is very enjoyable. keep up the good work. Thank you very much.
2	دكتور صالح ربي يوفقك ويسهل عليك ويعطيك على قد نيتك تتعب عشان الطلاب وروحك مرحه وحلوة وطريقتك حلوة في الشرح وحصتك بسرعة تطير ربي يوفقك ويسهل لك وربي يرزقك من واسع فضله وعلمه ويكرمك يادكتور احبك في الله

Instructor's Name:	**Tawfik Abdo Saleh Awadh**	**Term:**	**201320**	**Department:**	**Chemistry**
Course No:	**CHEM-323**	**Section No:**	**57**	**Activity Type:**	**LAB**
No. of Students:	**16**	**No. of Comments:**	**1**		

Serial No	Open Comment
1	One the best teachers I have ever had الله يوفقك يا دكتور توفيق

Instructor's Name:	**Tawfik Abdo Saleh Awadh**	**Term:**	**201310**	**Department:**	**Chemistry**
Course No:	**CHEM-101**	**Section No:**	**07**	**Activity Type:**	**LEC**

No. of Students:	27	No. of Comments:	9

Serial No	Open Comment
1	والله لم ارى شخص بطيبتك وسعة قلبك في مجال دراستي اتمنى لك كل التوفيق استمر على ماانت عليه وان شاالله نشوفك الكوردنيتر حق الكيميستري
2	Dr.Tawfik really really you have a good heart You are like Father for the students. but, you have to just review some basic things before you come to the lecture, so the students will not become confused!. Overall, Dr.Twafik is a good teacher.
3	-he has a good sense of humor -he utalizes analogy Efficiently -he is very kind -you can feel his love toward all of his students
4	You are one of the best teachers that I have study with them . Thank you for every thing that I learn from you .
5	I hope I can take another course with him
6	أفضل مدرس من ناحية الأخلاق ، الشرح
7	one of the best teachers I have ever seen

Instructor's Name:	Tawfik Abdo Saleh Awadh	Term:	201310	Department:	Chemistry
Course No:	CHEM-101	Section No:	08	Activity Type:	LEC
No. of Students:	27	No. of Comments:	1		

Serial No	Open Comment
1	افضل دكتور في الجامعه

Instructor's Name:	Tawfik Abdo Saleh Awadh	Term:	201310	Department:	Chemistry
Course No:	CHEM-101	Section No:	09	Activity Type:	LEC
No. of Students:	27	No. of Comments:	5		

Serial No	Open Comment
1	no need for Homework.. please remove it
2	Other Chemistry teachers should take notes from him.
3	A++++++++++++++++++

4	i love this teacher ,i hope all my teachers are like him .He helps as much as he can .He is really really a great teacher
5	He is the best

Instructor's Name:	Tawfik Abdo Saleh Awadh	Term:	201310	Department:	Chemistry
Course No:	CHEM-323	Section No:	54	Activity Type:	LAB
No. of Students:	10	No. of Comments:	1		

Serial No	Open Comment
1	Dr. Tawfiq is very creative man. I hope the doctors in the general chemistry courses they use his way of teaching(making interest, relating to real life and using youtube in learning process). Thank you Dr. Tawfiq

Instructor's Name:	Tawfik Abdo Saleh Awadh	Term:	201230	Department:	Chemistry
Course No:	CHEM-101	Section No:	05	Activity Type:	LEC
No. of Students:	32	No. of Comments:	3		

Serial No	Open Comment
1	excellent
2	he is a good teacher

Instructor's Name:	Tawfik Abdo Saleh Awadh	Term:	201230	Department:	Chemistry
Course No:	CHEM-101	Section No:	06	Activity Type:	LEC
No. of Students:	29	No. of Comments:	3		

Serial No	Open Comment
1	Please teacher solve more problems and examples in class and recitation and don't try to make things seems hard
2	ما شاء الله تبارك الله الأستاذ كما يقال عسل على شكل إنسان الله يوفقه و يرزقه من واسع فضله علما أن الدكتور يسوي أفس أورز كثير تطوعية

Instructor's Name:	Tawfik Abdo Saleh Awadh	Term:	201220	Department:	Chemistry

Course No:	CHEM-323	Section No:	02	Activity Type:	LEC
No. of Students:	30	No. of Comments:	6		

Serial No	Open Comment
1	The instructor is good, but grading policy is bad. This course has to be standard, not average.
2	وفقك الله لكل مافيه خير
3	Dr.Tawfik is one of the best professors I have ever met. He is so helpful, and modest man ...
4	one of the best
5	on of the best doctore in the chem department.
6	يسعى لايجاد الطرق المناسبة للتدريس

Instructor's Name:	Tawfik Abdo Saleh Awadh	Term:	201220	Department:	Chemistry
Course No:	CHEM-323	Section No:	03	Activity Type:	LEC
No. of Students:	30	No. of Comments:	4		

Serial No	Open Comment
1	thank you Dr.Tawfiq for teaching us. we spent nice time with you .. good luck
2	شكرا دكتور الله يحفظك انت دكتور مجتهد وأمين و طيب
3	Thank you for helping me to enjoy the lab with you, i learned so much from you. Please forgive me if i did any thing wrong to you
4	The course materials need to be modified for a chemical engineer.

Instructor's Name:	Tawfik Abdo Saleh Awadh	Term:	201220	Department:	Chemistry
Course No:	CHEM-323	Section No:	53	Activity Type:	LAB
No. of Students:	16	No. of Comments:	1		

Serial No	Open Comment
1	Thank you for helping me to enjoy the lab with you, i learned so much from you. Please forgive me if i did any thing wrong to you

Instructor's Name:	Tawfik Abdo Saleh Awadh	Term:	201210	Department:	Chemistry
Course No:	CHEM-102	Section No:	56	Activity Type:	LAB

No. of Students:	4	No. of Comments:	1

Serial No	Open Comment
1	actully d:Tawfig is the best teacher tought my in chem labs , and behind that he explanes alot of points out of the book that help us to understand more than enoght in the material chem 102, so he is much better than others in teaching for real .

Instructor's Name:	Tawfik Abdo Saleh Awadh	Term:	201210	Department:	Chemistry
Course No:	CHEM-323	Section No:	01	Activity Type:	LEC
No. of Students:	31	No. of Comments:	1		

Serial No	Open Comment
1	Thank you Dr. Tawfik Saleh for your efforts during this semester.

Instructor's Name:	Tawfik Abdo Saleh Awadh	Term:	201120	Department:	Chemistry
Course No:	CHEM-102	Section No:	53	Activity Type:	LAB
No. of Students:	17	No. of Comments:	2		

Serial No	Open Comment
1	one of the best teacher for chemistry lab
2	جزاه الله خيراً

Instructor's Name:	Tawfik Abdo Saleh Awadh	Term:	201120	Department:	Chemistry
Course No:	CHEM-111	Section No:	01	Activity Type:	LEC
No. of Students:	30	No. of Comments:	7		

Serial No	Open Comment
1	the instructor has a vast knowledge. also, he was focused on relating and explaining the applications of what we studied in chemistry in our lives as civil engineers.
2	احد افضل الدكاترة الذين مروا علي بتاريخي الدراسي فهو انسان متمكن من الماده ويجعل الطلاب يحبون مادته باخلاقه وطريقه شرحه فلك كل الشكر والتقدير استاذي العزيز , مع تحيات ابنك الطالب زهير علي عسيري
3	the best dr in the university

4	لو كتبت الكثير من الكلمات لن استطيع ان اوفيك حقك الله يوفقك يادكتور بالدنيا والاخره سأكتفي بهذه الكلمات من القلب اقولك.... شكرا شكرا شكرا
5	he is one of the best instructer i ever had .. he can explain the concept and give exambles for the topic and do a lot of things.
6	افضل مدرس درسني الى الان الله يعطيك العافية وبالتوفيق
7	Dr. Tawfiq is an amazing teacher, person and a friend. AMAZING!!

Instructor's Name:	**Tawfik Abdo Saleh Awadh**	**Term:**	**201030**	**Department:**	**Chemistry**
Course No:	**CHEM-101**	**Section No:**	**52**	**Activity Type:**	**LAB**
No. of Students:	**18**	**No. of Comments:**	**5**		

Serial No	Open Comment
1	جزاك الله خير في الدنيا والآخرة دكتور توفيق
2	He is a kind person. He has a great personality. God bless him.
3	the best teacher i have ever had
4	ونعم المدرس كنت لنا ..الله يوفقك بكل خطوة يا استاد صالح.
5	Thank you Dr. Tawfik excellent instructor

Instructor's Name:	**Tawfik Abdo Saleh Awadh**	**Term:**	**201030**	**Department:**	**Chemistry**
Course No:	**CHEM-101**	**Section No:**	**57**	**Activity Type:**	**LAB**
No. of Students:	**19**	**No. of Comments:**	**4**		

Serial No	Open Comment
1	He is The Best in every thing
2	جزاك الله خيراً... وكثر الله من أمثالك ياليت مايحتويه قلبك من إيمان ..يظهر على مظهرك بالتزمك بنهج المصطفى صلى الله عليه وسلم بسمته وهيئته
3	He is the best of the best. God bless him.
4	great instructor really good communications with the students best wishes for u ..

Instructor's Name:	Tawfik Abdo Saleh Awadh	Term:	201020	Department:	Chemistry
Course No:	CHEM-102	Section No:	55	Activity Type:	LAB
No. of Students:	17	No. of Comments:	2		

Serial No	Open Comment
1	this teacher is very helpful and he tell us if we have any problem to ask him in any time unless after classes I mean in the ev
2	I Will Miss you Sr

Instructor's Name:	Tawfik Abdo Saleh Awadh	Term:	201010	Department:	Chemistry
Course No:	CHEM-101	Section No:	55	Activity Type:	LAB
No. of Students:	19	No. of Comments:	2		

Serial No	Open Comment
1	جزاك الله خيراً على ما قدمت لنا وأرجو أن تسامحنا على ما أخطأنا فيه معك
2	dr saleh is one of the best instructor i have ever seen .... keep going dr saleh ... allah ywf8k ya rab

Instructor's Name:	Tawfik Abdo Saleh Awadh	Term:	201010	Department:	Chemistry
Course No:	CHEM-101	Section No:	65	Activity Type:	LAB
No. of Students:	18	No. of Comments:	2		

Serial No	Open Comment
1	the best doctor in my life
2	he is really excellent instructer . he explains very well. and he use different colours just to make that students understand what he is teaching .

Instructor's Name:	Tawfik Abdo Saleh Awadh	Term:	200930	Department:	Chemistry
Course No:	CHEM-101	Section No:	52	Activity Type:	LAB
No. of Students:	17	No. of Comments:	1		

Serial No	Open Comment
1	He is an excellent lab instructor ..

Instructor's Name:	Tawfik Abdo Saleh Awadh	Term:	201010	Department:	Chemistry
Course No:	CHEM-101	Section No:	65	Activity Type:	LAB
No. of Students:	18	No. of Comments:	2		

Serial No	Open Comment
1	the best doctor in my life
2	he is really excellent instructer . he explains very well. and he use different colours just to make that students understand what he is teaching .

Instructor's Name:	Tawfik Abdo Saleh Awadh	Term:	200930	Department:	Chemistry
Course No:	CHEM-101	Section No:	52	Activity Type:	LAB
No. of Students:	17	No. of Comments:	1		

Serial No	Open Comment
1	He is an excellent lab instructor ..

Instructor's Name:	Tawfik Abdo Saleh Awadh	Term:	200930	Department:	Chemistry
Course No:	CHEM-101	Section No:	57	Activity Type:	LAB
No. of Students:	19	No. of Comments:	1		

Serial No	Open Comment
1	He is the best teacher in the world.

Instructor's Name:	Tawfik Abdo Saleh Awadh	Term:	200920	Department:	Chemistry
Course No:	CHEM-101	Section No:	56	Activity Type:	LAB
No. of Students:	18	No. of Comments:	2		

Serial No	Open Comment

1	من أفضل المدرسين اللي عرفتهم في جامعة الملك فهد للبترول علم وأخلاق لا يعلى عليه
2	you are one of Dr who make the studying enjoyable keep going in your style

Instructor's Name:	**Tawfik Abdo Saleh Awadh**	**Term:**	**200920**	**Department:**	**Chemistry**
Course No:	**CHEM-101**	**Section No:**	**79**	**Activity Type:**	**LAB**
No. of Students:	**18**	**No. of Comments:**	**3**		

Serial No	Open Comment
1	رجل والرجال قليل .. اخلاق عالية وادب جم واسلوب اكثر من رائع في الطرح والالقاء .. اربع ساعات .. كانها ساعة مع هذا الرجل الذي لو ان منه في الجامعة اثنين لكانت الدنيا بخير ! اسأل الله له التوفيق والسداد دائما .. وانا اكثر من سعيد كوني اخذت الكورس معه لانه كورس الكيمياء الوحيد المطلوب علي .. باختصار شديد .. الافضل !
2	الشرح متميز ويقوم بتشجيعنا في المعمل اخلاق عاليه جدا اتمنى ان اكون معه في السنوات القادمه
3	i hope that all the facullty become like mr.saleh best wishes,

Instructor's Name:	**Tawfik Abdo Saleh Awadh**	**Term:**	**200910**	**Department:**	**Chemistry**
Course No:	**CHEM-101**	**Section No:**	**91**	**Activity Type:**	**LAB**
No. of Students:	**15**	**No. of Comments:**	**3**		

Serial No	Open Comment
1	His way of teaching is very clear and neat. He is organized. And commnicate with the students easily.
2	Mr tawfig is one of the best lab teachers
3	thank you for him. I hope tp be with him in all 4 years in the university

Instructor's Name:	**Tawfik Abdo Saleh Awadh**	**Term:**	**200830**	**Department:**	**Chemistry**
Course No:	**CHEM-101**	**Section No:**	**58**	**Activity Type:**	**LAB**
No. of Students:	**20**	**No. of Comments:**	**1**		

Serial No	Open Comment
1	he comes really prepared for the lab and gives us our objectives explaining them simply, clearly but slowly.

	he desire our experiment to be nice and nearly perfect, since no perfect exist exept Allah, and prepares us well to the final, I think. I learned from him how to calculate my accuracy which, I believe, is very important although the results of the formula are not on my side. finally, ... nothing peace

Instructor's Name:	**Tawfik Abdo Saleh Awadh**	**Term:**	**200810**	**Department:**	**Chemistry**
Course No:	**CHEM-101**	**Section No:**	**55**	**Activity Type:**	**LAB**
No. of Students:	**20**	**No. of Comments:**	**16**		

Serial No	Open Comment
1	I give him A+ .. ^^

Instructor's Name:	**Tawfik Abdo Saleh Awadh**	**Term:**	**200810**	**Department:**	**Chemistry**
Course No:	**CHEM-101**	**Section No:**	**66**	**Activity Type:**	**LAB**
No. of Students:	**19**	**No. of Comments:**	**17**		

Serial No	Open Comment
1	الله يعطيه ألف ألف عافيه على اللي يسويه معانا ...
2	Thanks alot

Instructor's Name:	**Tawfik Abdo Saleh Awadh**	**Term:**	**200730**	**Department:**	**Chemistry**
Course No:	**CHEM-101**	**Section No:**	**55**	**Activity Type:**	**LAB**
No. of Students:	**15**	**No. of Comments:**	**10**		

Serial No	Open Comment
1	I think Mr.Tawfiq is a very excellent instructor.
2	his explain takes much time

Instructor's Name:	**Tawfik Abdo Saleh Awadh**	**Term:**	**200730**	**Department:**	**Chemistry**
Course No:	**CHEM-101**	**Section No:**	**60**	**Activity Type:**	**LAB**
No. of Students:	**20**	**No. of Comments:**	**11**		

Serial No	Open Comment
1	
2	The best lap teacher i ever met

Instructor's Name:	**Tawfik Abdo Saleh Awadh**	**Term:**	**200720**	**Department:**	**Chemistry**
Course No:	**CHEM-101**	**Section No:**	**75**	**Activity Type:**	**LAB**
No. of Students:	**12**	**No. of Comments:**	**9**		

Serial No	Open Comment
1	excellent instructor
2	he understand the students minds and encourage us to be will prepared

Instructor's Name:	**Tawfik Abdo Saleh Awadh**	**Term:**	**200710**	**Department:**	**Chemistry**
Course No:	**CHEM-101**	**Section No:**	**51**	**Activity Type:**	**LAB**
No. of Students:	**15**	**No. of Comments:**	**14**		

Serial No	Open Comment
1	
2	he is a very excellent teacher . i hope from my god to get him what he want in this life.

King Fahd University of Petroleum and Minerals

Deanship of Academic Development

Instructor Evaluation Summary Report

Instructor's Name Tawfik Abdo Saleh Awadh ▾ Department Chemistry ▾

I had the chance to teach different courses; graduate and undergraduate courses; class and laboratory courses. The following is the list of courses with students evaluation

* Teaching Evaluation for courses taught at KFUPM

Instructor's Name:	Tawfik Abdo Saleh Awadh	Department:	Chemistry

Term Code	Course Number	Course Name	Section No.	Activity Type	No. of Stud	No. of Eval	Evaluation Score	Instructor Average
202010	CHEM-321	Instrumental Analysis for Engs	01	LEC	48	30	9.73	9.65
	CHEM-321	Instrumental Analysis for Engs	03	LEC	45	30	9.66	9.65
	CHEM-321	Instrumental Analysis for Engs	57	LAB	26	16	9.56	9.65
201920	CHEM-321	Instrumental Analysis for Engs	01	LEC	32	26	9.68	9.60
			54	LAB	16	13	9.42	9.60
	CHEM-426	Advanced Instr.l Analysis Lab	51	LAB	6	5	9.64	9.60
	CHEM-479	Chemistry Seminar	01	SEM	6	4	9.66	9.60
201910	CHEM-101	General Chemistry I	13	LEC	35	25	9.72	9.50
			14	LEC	33	27	9.55	9.50
			15	LEC	35	28	9.22	9.50
201820	CHEM-321	Instrumental Analysis for Engs	52	LAB	11	7	9.01	9.04
			55	LAB	6	4	9.05	9.04
	CHEM-642	Chemometrics	01	LEC	16	15	9.05	9.04
201810	CHEM-321	Instrumental Analysis for Engs	02	LEC	28	10	9.56	9.46
			53	LAB	15	6	9.35	9.46
			56	LAB	16	9	9.48	9.46
201720	CHEM-321	Instrumental Analysis for Engs	03	LEC	24	9	9.62	9.53
			51	LAB	12	4	9.02	9.53
			53	LAB	13	4	9.96	9.53
201710	CHEM-321	Instrumental Analysis for Engs	03	LEC	28	20	9.84	9.53
			51	LAB	16	8	9.50	9.53
			56	LAB	14	5	9.25	9.53
201620	CHEM-323	Instrumental Chemical Analysis	01	LEC	25	12	9.15	9.39
			51	LAB	13	6	9.63	9.39
201610	CHEM-323	Instrumental Chemical Analysis	51	LAB	14	11	9.47	9.33
			57	LAB	13	5	9.22	9.33

	CHEM-642	Chemometrics	01	LEC	8	8	9.29	9.33
201530	CHEM-101	General Chemistry I	53	LAB	18	12	9.53	9.37
			57	LAB	17	13	9.22	9.37
201520	CHEM-101	General Chemistry I	04	LEC	39	22	9.17	9.19
			05	LEC	34	17	9.06	9.19
			06	LEC	37	27	9.34	9.19
201510	CHEM-101	General Chemistry I	10	LEC	33	18	9.49	9.15
			11	LEC	34	21	9.18	9.15
			12	LEC	33	14	8.78	9.15
201420	CHEM-323	Instrumental Chemical Analysis	55	LAB	14	7	9.15	9.16
			56	LAB	14	7	8.60	9.16
	CHEM-640	Analytical Spectroscopy	01	LEC	5	4	9.72	9.16
201410	CHEM-323	Instrumental Chemical Analysis	05	LEC	34	22	8.08	8.91
			54	LAB	15	8	8.96	8.91
	CHEM-642	Chemometrics	01	LEC	14	12	9.71	8.91
201320	CHEM-323	Instrumental Chemical Analysis	01	LEC	34	20	9.08	9.10
			02	LEC	35	15	9.11	9.10
			57	LAB	16	9	9.11	9.10
201310	CHEM-101	General Chemistry I	07	LEC	27	24	8.77	8.98
			08	LEC	27	19	9.28	8.98
			09	LEC	27	23	9.24	8.98
	CHEM-323	Instrumental Chemical Analysis	54	LAB	10	4	8.62	8.98
201230	CHEM-101	General Chemistry I	04	LEC	20	12	8.81	8.70
			05	LEC	32	19	8.76	8.70
			06	LEC	29	16	8.53	8.70
201220	CHEM-323	Instrumental Chemical Analysis	02	LEC	30	23	9.11	9.02
			03	LEC	30	21	9.25	9.02
			51	LAB	16	13	8.57	9.02
			53	LAB	16	12	9.16	9.02
201210	CHEM-102	General Chemistry II	56	LAB	4	4	8.94	8.96
	CHEM-323	Instrumental Chemical Analysis	01	LEC	31	16	8.89	8.96
			52	LAB	16	12	9.06	8.96

201120	CHEM-102	General Chemistry II	53	LAB	17	10	9.20	9.43
	CHEM-111	Basics: Environmental Chemistry	01	LEC	30	21	9.66	9.43
201030	CHEM-101	General Chemistry I	52	LAB	18	15	9.79	9.51
			57	LAB	19	15	9.22	9.51
201020	CHEM-102	General Chemistry II	55	LAB	17	12	8.84	8.98
			61	LAB	17	11	9.12	8.98
201010	CHEM-101	General Chemistry I	55	LAB	19	15	9.71	9.71
			65	LAB	18	16	9.71	9.71
200930	CHEM-101	General Chemistry I	52	LAB	17	13	9.23	9.11
			57	LAB	19	12	9.00	9.11
200920	CHEM-101	General Chemistry I	56	LAB	18	12	9.26	9.45
			79	LAB	18	12	9.64	9.45
200910	CHEM-101	General Chemistry I	73	LAB	18	12	9.05	9.29
			91	LAB	15	11	9.53	9.29
200830	CHEM-101	General Chemistry I	53	LAB	19	13	9.16	9.23
			58	LAB	20	12	9.30	9.23
200820	CHEM-101	General Chemistry I	56	LAB	18	14	9.47	9.47
200810	CHEM-101	General Chemistry I	55	LAB	20	16	9.12	9.14
			66	LAB	19	17	9.16	9.14
200730	CHEM-101	General Chemistry I	55	LAB	15	10	9.34	9.25
			60	LAB	20	11	9.17	9.25
200720	CHEM-101	General Chemistry I	54	LAB	15	10	9.32	9.32
			75	LAB	12	9	9.33	9.32
200710	CHEM-101	General Chemistry I	51	LAB	15	14	8.82	8.84
			69	LAB	16	14	8.87	8.84
			Overall average of 10 Which is higher than the department and university overall average					9.25

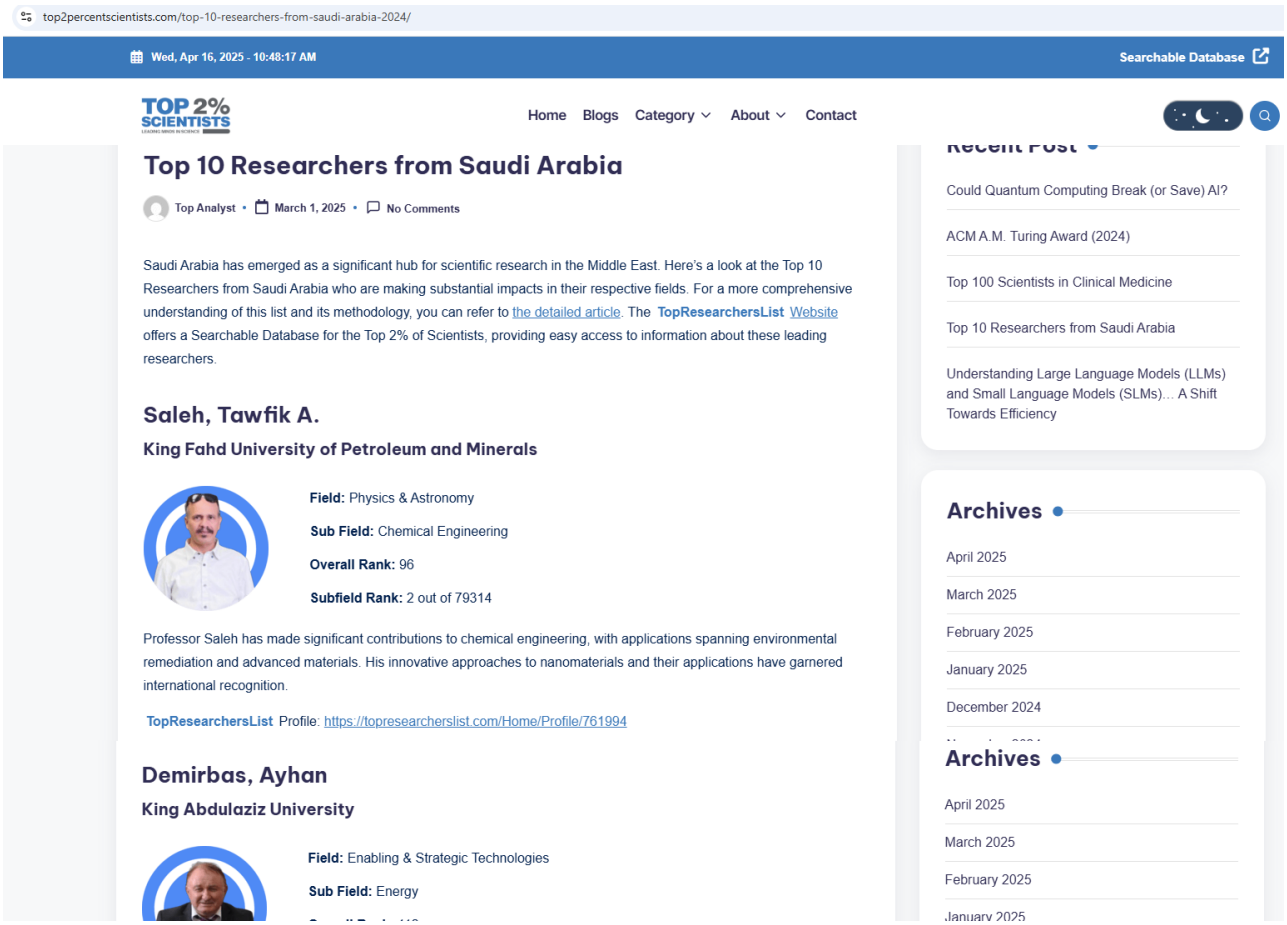
According to Scopus, I am the top at KFUPM in term of citation and H-index https://www.scopus.com/

I am number 1 in the top researchers from Saudi Arabia worldwide as per the Top scientists. https://top2percentscientists.com/top-10-researchers-from-saudi-arabia-2024/

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

https://scholargps.com/disciplines/37/chemistry
I am also top in the Prior Five years as per Highly Ranked Scholars

https://top2percentscientists.com/top-10-researchers-from-saudi-arabia-2024/



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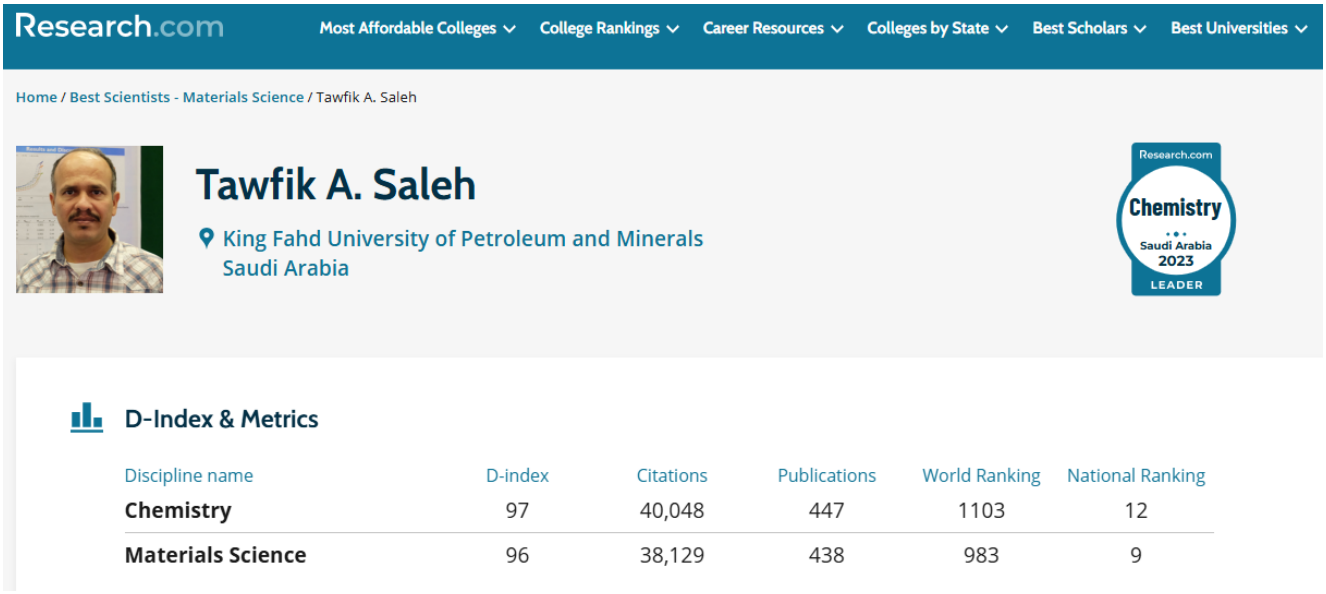
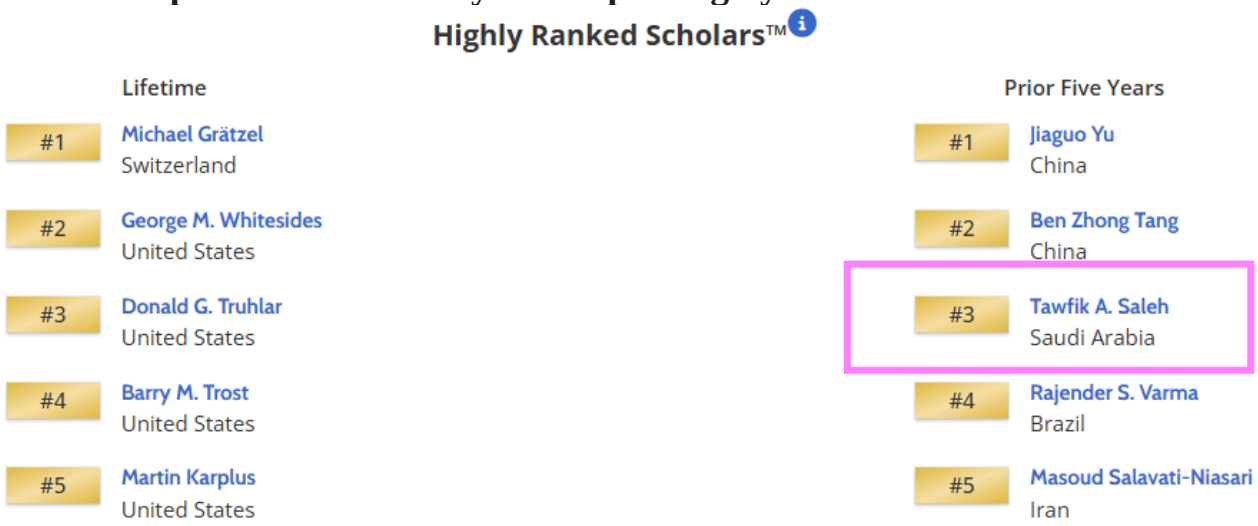


https://research.com/scientists-rankings/chemistry/sa

https://scholargps.com/disciplines/37/chemistry

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



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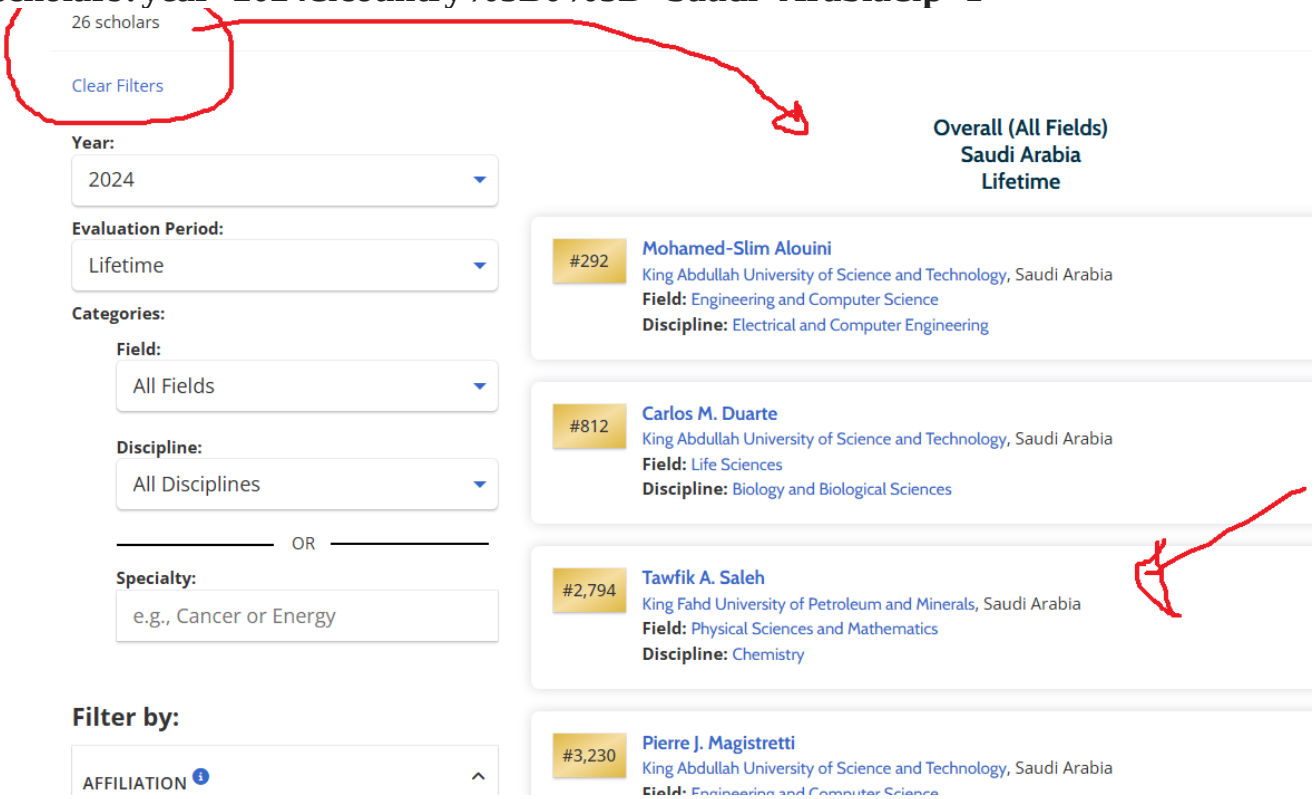

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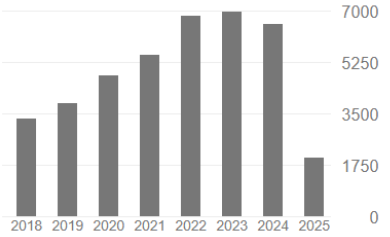

TITLE

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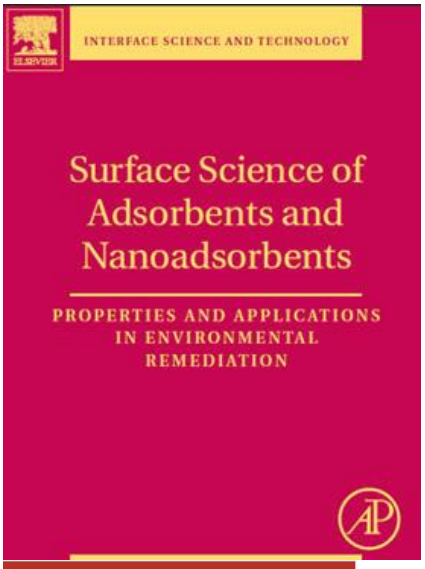
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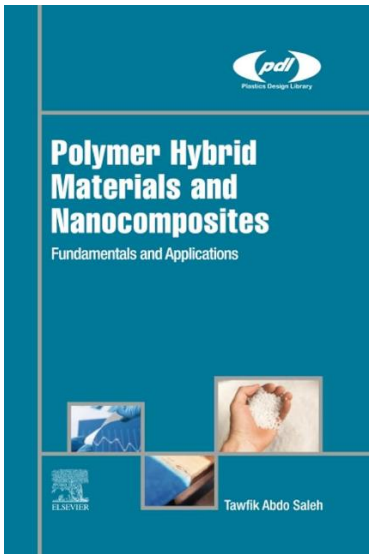
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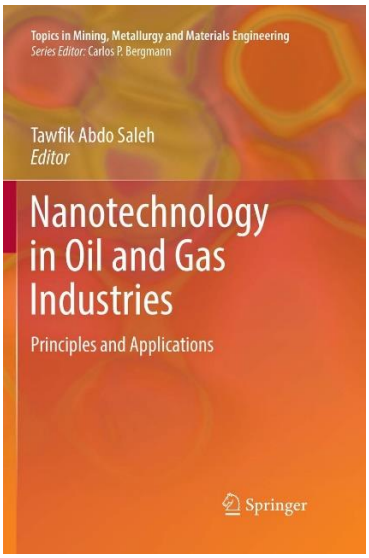
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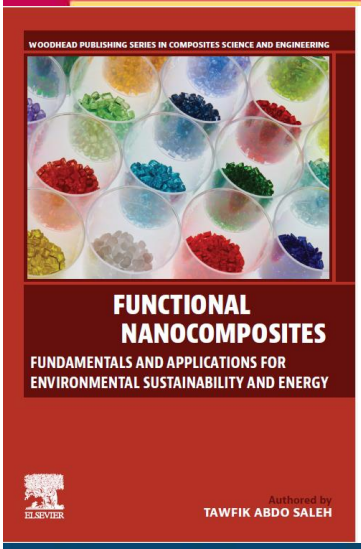
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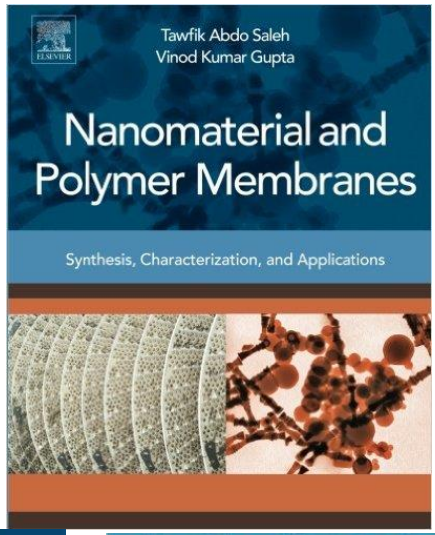
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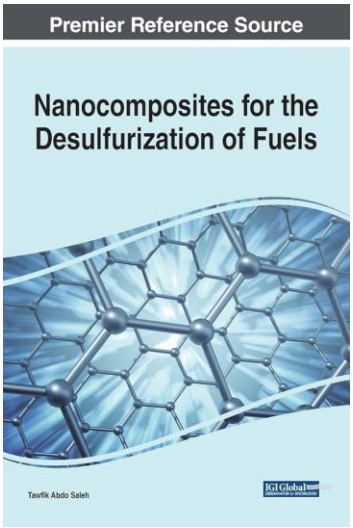
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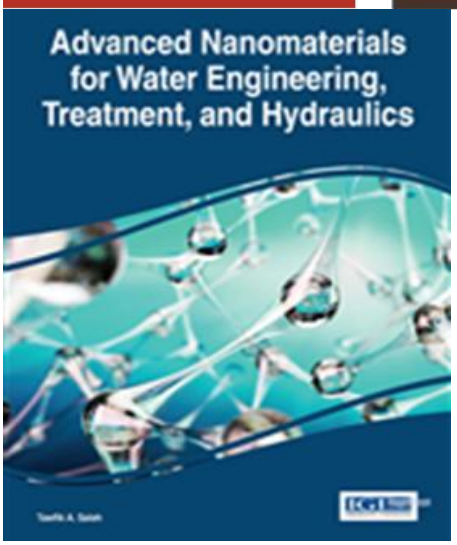
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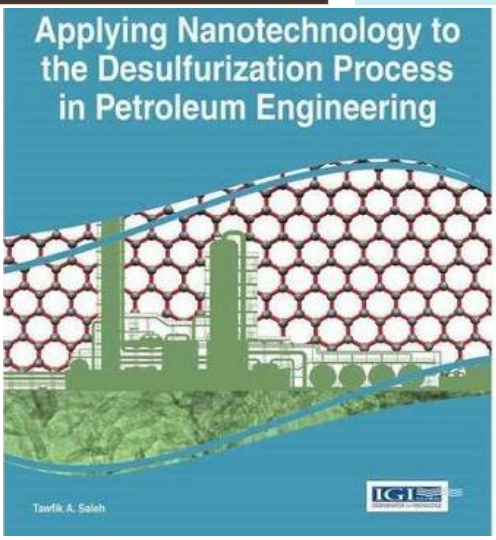
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Tawfik A. Saleh