الاسم الكامل: نهاد بنت عبد الله بن عبد الرحمن العمير

الوظيفة: أستاذ الكيمياء الفيزيائية المشارك

المعلومات الشخصية

الجنسية: سعودية الجنس: أنثى مكان الميلاد: الخبر، المملكة العربية السعودية

القسم: الكيمياء الكلية: العلوم الجامعة: جامعة الامام عبدالرحمن بن فيصل

البريد الجامعي: nalomair@iau.edu.sa الهاتف الخاص بالمكتب: 013 33 32400 @AlomairNuhad

قواعد البيانات البحثية:

قاعدة البيانات	الرابط
Google Scholar	https://scholar.google.com/citations?user=6mRPmLcAAAAJ&hl=ar
Scopus	https://www.scopus.com/authid/detail.uri?authorId=56002119900
Web of Science ResearcherID	B-1286-2015
ResearcGate	https://www.researchgate.net/profile/Na_Al-Omair
linkedin	https://www.linkedin.com/in/nuhad-alomair-481789150
ORCID	https://orcid.org/0000-0003-3659-9177

المؤهلات العلمية والشهادات (بدءا من الاحدث)

التاريخ	الشهادة الاكاديمية	مكان الصدور	العنوان
2003	الدكتوراه في فلسفة العلوم تخصص كيمياء فيزيائية	كلية العلوم بالدمام	الدمام
1997	الماجستير في العلوم - تخصص كيمياء فيزيائية	كلية العلوم بالدمام	الدمام
1991	البكالوريوس في العلوم – تخصص كيمياء	كلية العلوم بالدمام	الدمام

عنوان رسالة الماجستير والدكتوراه

الدكتوراه	Studies on the Electric conductance Behavior of some Dyes in Different solutions
الماجستير	Spectrophotometric and Potentiometric Studies on the Ionization of some basic Dyes in Different Media

السجل المهني (بدءا من الأحدث)

رتبة الوظيفة	مكان وعنوان جهة العمل	التاريخ
أستاذ مشارك	جامعة الدمام	من 2016/10/20م وحتى تاريخه
أستاذ مساعد	كلية العلوم للبنات	2003 م
محاضر	كلية العلوم	1997 م
معيد	كلية العلوم	1991 م

المناصب الإدارية (بدءا من الأحدث)

المنصب الإداري	المكتب	التاريخ
عميد	عمادة البحث العلمي	2019/10/20م وحتى تاريخه
مدير	مركز البحوث العلمية الأساسية والتطبيقية BASRC	2018/11/5م حتى 31/03/2021
عميد	كلية العلوم	من 2010/9/16 م وحتى 2016/7/12 م من 2018/7/12 م وحتى 2019/10/20م
وكيلة الكلية للشؤون الأكاديمية	كلية العلوم	من 2007/10/26 م وحتى 2010/9/15 م

عضوية المجالس واللجان:

#	المنصب	من	الى	المؤسسة
.1	عضو مجلس الأمناء	6/12/2020	حتى تاريخه	جامعة الامام عبدالرحمن بن فيصل
.2	عضو مجلس الجامعة	25/02/2015	حتى تاريخه	جامعة الامام عبدالرحمن بن فيصل
.3	رئيس مجلس عمادة البحث العلمي	20/10/2019	حتى تاريخه	جامعة الامام عبدالرحمن بن فيصل
.4	عضو لجنة الكراسي البحثية بالجامعة	19/02/2021	حتى تاريخه	جامعة الامام عبدالرحمن بن فيصل
.5	عضو مجلس كلية علوم الحاسب الالي وتقنية المعلومات	02/03/2021	حتى تاريخه	جامعة الامام عبدالرحمن بن فيصل
.6	عضو اللجنة العليا للتخطيط الاستراتيجي	5/11/2020	حتى تاريخه	جامعة الامام عبدالرحمن بن فيصل
.7	رئيس لجنة مبادرة البحوث العلمية في التعليم والتعلم للأستاذ الجامعي	24/10/2020	حتى تاريخه	جامعة الامام عبدالرحمن بن فيصل
.8	رئيس لجنة مبادرة النشر للطلبة	7/10/2020	حتى تاريخه	جامعة الامام عبدالرحمن بن فيصل
.9	عضو لجنة الاشراف العلمية ومتابعة البحوث الممولة من مدينة الملك عبدالعزيز للعلوم والتقنية	17/8/2020	حتى تاريخه	جامعة الامام عبدالرحمن بن فيصل
.10	عضو اللجنة الاشرافية للتمويل المؤسسي	17/6/2020	حتى تاريخه	جامعة الامام عبدالرحمن بن فيصل
.11	عضو مجلس معهد الدراسات الاستشارات	20/2/2020	حتى تاريخه	جامعة الامام عبدالرحمن بن فيصل
.12	عضو لجنة اعداد استراتيجية البحث العلمي للجامعة ومتابعة تنفيذها	4/12/2019	حتى تاريخه	جامعة الامام عبدالرحمن بن فيصل
.13	عضو مجلس الدراسات العليا	20/10/2019	حتى تاريخه	جامعة الامام عبدالرحمن بن فيصل
.14	عضو لجنة التفكير والتخطيط الاستراتيجي لوكالة الجامعة لشؤون الطالبات	21/10/2018	20/10/2019	جامعة الامام عبدالرحمن بن فيصل
.15	امين وعضو اللجنة الدائمة للاستقطاب	13/10/2018	25/11/2019	جامعة الامام عبدالرحمن بن فيصل
.16	رئيس لجنة التكامل الأكاديمي بين الكليات والبرامج الدراسية	18/2/2018	12/10/2018	جامعة الامام عبدالرحمن بن فيصل
.17	عضو مجلس عمادة البحث العلمي	21/12/2018	20/10/2019	جامعة الامام عبدالرحمن بن فيصل
.18	رئيس لجنة شؤون أعضاء هيئة التدريس بقسم الكيمياء	15/9/2017	2/9/2018	جامعة الامام عبدالرحمن بن فيصل
.19	عضو في اللجنة التطوعية	9/10/2014	4/12/2019	جامعة الامام عبدالرحمن بن فيصل
.20	عضو اللجنة الرئيسة لعمادة خدمة المجتمع والتنمية المستدامة	13/4/2015	12/7/2016	جامعة الامام عبدالرحمن بن فيصل
.21	رئيس لجنة ضبط السلوك	2013 2018 to	2016 4/12/2019	جامعة الامام عبدالرحمن بن فيصل

الإنجازات العلمية

الأبحاث المنشورة

#	الباحث	العنوان	الناشر والتاريخ	DOI	Q
.1	Muneerah B. Almahasheer, Abdullah Al Rubaish, Abdullah Alkadi, Mahmoud A. Abdellatif, Vijaya Ravinayagam, Assaf, Wael Fateh, Palanivel Rubavathi Marimuthu, Nuhad A. Alomair	Faculty Readiness for Online Teaching at Imam Abdulrahman Bin Faisal University During The COVID-19 Crisis: A Cross-Sectional Study	F1000Research 2021	-	Q2
.2	Hanan H. Mohamed, Fatima Al Qarni, Nuhad A. Alomair, Sultan Akhtar	Solar Photocatalytic and Antimicrobial Activity of Porous Indium-Doped TiO_2 Nanostructure	Arabian Journal for Science and Engineering 27 October 2020	https://doi.org/10.1007/s13369-020-04957-x	Q1
.3	Hanan H Mohamed, Fatimah Al Qarni, Nuhad A Alomair	Design of porous Ga doped TiO_2 nanostructure for enhanced solar light photocatalytic applications	Materials Research Bulletin 5 September 2020	https://doi.org/10.1016/j.materresbull.2020.111057	Q1
.4	Marwa Hamandi, Mohamed Triki, Jordi Llorca, Fethi Jomni, Nuhad Aalomair And Hafedh Kochkar	Investigation of physicochemical and electrical properties of TiO_2 nanotubes/graphene oxide nanocomposite	Bull. Mater. Sci. 10 April 2020	https://doi.org/10.1007/s12034-020-2072-1	Q3
.5	Hanan H Mohamed, Nuhad A Alomair, Detlef W Bahnemann	Kinetic and mechanistic features on the reaction of stored TiO_2 electrons with Hg (II), Pb (II) and Ni (II) in aqueous suspension	Arabian Journal of Chemistry 1 December 2019	https://doi.org/10.1016/j.arabjc.2016.08.001	Q1
.6	Nuhad A Alomair and Hanan H Mohamed	Single Step Green Synthesis of Au /ZnO/rGO Nanocomposites for Visible Light Photocatalytic Application	Materials Research Express 11 October 2019	https://doi.org/10.1088/2053-1591/ab4967	Q2
.7	Fatimah Al Qarni, Nuhad A. Alomair andHanan H. Mohamed	Environment-Friendly Nanoporous Titanium Dioxide with Enhanced Photocatalytic Activity	Catalysts (2019)	https://doi.org/10.3390/catal9100799	Q2
.8	Hanan H.Mohamed, Nuhad A.Alomair, SultanAkhtar, Tamer E.Youssef	Eco-friendly synthesized αFe2O3/TiO2 heterojunction with enhanced visible light photocatalytic activity	Journal of photochemistry and Photobiology A: Chemistry 1 September2019	https://doi.org/10.1016/j.jphotochem.2019.111951	Q1
.9	Raouf Jebali , Mohamed Triki,, Nuhad Abdullah Alomair, , Hafedh Kochkar	From adsorption of rare earth elements on TiO_2 nanotubes to preconcentration column application	Microchemical Journal 1 September 2019	https://doi.org/10.1016/j.microc.2019.104021	Q2
.10	Mohamed HH, Alsanea AA, Alomair NA, Akhtar S, Bahnemann DW.	ZnO@ porous graphite nanocomposite from waste for superior photocatalytic activity.	Environmental Science and Pollution Research 1 April 2019	https://doi.org/10.1007/s11356-019-04684-3	Q1

Q2	https://doi.org/10.1088/2053-1591/aaa469	Materials Research Express 3 August 2018	Green synthesis of ZnO hollow microspheres and ZnO/rGO nanocomposite using red rice husk extract and their photocatalytic performance	Nuhad A Alomair and Hanan H Mohamed	.11
Q2	https://doi.org/10.1016/j.jscs.2016.06.002	Journal of Saudi Chemical Society 1 March 2018	Exploiting stored TiO_2 electrons for multi-electron reduction of an azo dye methyl orange in aqueous suspension	Hanan H. Mohamed, Nuhad A. Alomair	.12
Q4	https://doi.org/10.14233/ajchem.2018.21298	Asian Journal of Chemistry (2018)	Removal of Orange 2G Dye from Aqueous Solutions Using TiO_2-Based Nanoparticles: Isotherm and Kinetic Studies	A.A. AL-Arfaj, F. Alakhras, E. AL-Abbad, N.O. Alzamel, N.A. Alomair and N. Ouerfelli	.13
Q4	https://doi.org/10.14233/ajchem.2018.21319	Asian Journal of Chemistry (2018)	On the Homographic Dependence of Activation Energy and Viscosity Arrhenius' Temperature for Some Pure Fluids	N.O. Alzamel,F. Alakhras , A.A. AL-Arfaj , M.A. AL-Khaldi , N.A. Al-Omair , E. Al-Abbad , A.A. Wassel and N. Ouerfelli	.14
Q4	https://doi.org/10.13171/mjc65/0171114633rhk	Mediterranean Journal of Chemistry 14 Nov. 2017	Analysis of correlation between viscosity Arrhenius parameters: Extension to ternary liquid mixtures	Rami Haj Kac em, Mohamed Dallal, Nuhed Al-Omair, Ahlam Al-Arfaj, Nora Alzamel, Noureddine Ouerfelli	.15
Q4	https://doi.org/10.14233/ajchem.2017.20764	Asian Journal of Chemistry 1 September 2017	A Novel Approach of Partial Derivatives to Estimate the Normal Boiling Temperature via Viscosity Arrhenius Behaviour in N,N-Dimethylformamide + Ethanol Fluid Systems	Mohamed Dallel, Ahlam A. Al-Arfaj, Nuhad A. Al-Omair, Mishael A. Alkhaldi, Noura O. Alzamel, Asala A. Al-Zahrani And Noureddine Ouerfell	.16
Q2	https://doi.org/10.1080/00319104.2016.1233181	Physics and Chemistry of Liquids 4 July 2017	Prediction of the boiling temperature of 1,2- dimethoxyethane and propylene carbonate through the study of viscosity–temperature dependence of corresponding binary liquid mixtures.	M. Dallel, A.A. Al-Zahrani, H.M. Al-Shahrani, G.M. Al-Enzi, L. Snoussi, N.Vrinceanu, N.A. Al-Omair & N. Ouerfelli	.17
Q4	https://doi.org/10.14233/ajchem.2017.20368	Asian Journal of Chemistry 1 April 2017	Investigation of Interactions between Sodium Dodecyl Sulfate and Crystal Violet in Aqueous Solution	N. A. Al-Omair	.18
Q4	https://doi.org/10.13171/mjc62/01701061439-salhi	Mediterranean Journal of Chemistry 5 January 2017	On the reduced Redlich-Kister excess properties for 1,2-dimethoxyethane with propylene carbonate binary mixtures at temperatures (from 298.15 to 318.15) K	Hanen Salhi , Saik Babu , Nada Al-Eidan , Nejib H. Mekni , Noura Al-Otaibi , Khadija Y. Alqahtani , Nuhad A. Al-Omair and Noureddine Ouerfelli	.19
Q2	https://doi.org/10.1080/00319104.2016.1139707	Physics and Chemistry of Liquids 2 September 2016	. A partial derivatives approach for estimation of the viscosity Arrhenius temperature in N,N-dimethylformamide + 1,4-dioxane binary fluid mixtures at temperatures from 298.15 K to 318.15 K	N.A. Al-Omair,D. Das, L. Snoussi, B. Sinha, R. Pradhan, K. Acharjee, K. Saoudi, N. Ouerfelli	.20

Q4	http://dx.doi.org/10.14233/ajchem.2016.19990	Asian Journal of Chemistry 1 January 2016	Sensitivity of Viscosity Arrhenius –Type Equation to Density of Liquids	R.B. Haj-Kacem, N. O. Alzamel, N.A. Al-Omair, M.A. Alkhaldi,A.A. Al-Arfaj, N. Ouerfelli	.21
Q4	http://dx.doi.org/10.14233/ajchem.2016.19858	Asian Journal of Chemistry (2016)	Correlation between boiling temperature and the viscosity Arrhenius activation energy in N,N-dimethylformamide+2-propanol binary mixtures at 303.15 to 323.15 K.	H. Salhi, N.A. Al-Omair, A.A. Al-Arfaj, M.A. Alkhaldi, N.O. Alzamel, K.Y. Alqahtani, N. Ouerfelli	.22
Q4	---	Indian Chemical Society (2016)	Thermodynamic Study of interaction between a Cationic Surfactant and an Anionic Azo Dye in Aqueous Solution	N. A. Al-Omair	.23
Q2	https://doi.org/10.1080/00319104.2014.947372	Physics and Chemistry of Liquids 4 July 2015	On the viscosity Arrhenius temperature for methanol + N,N-dimethylformamide binary mixtures over the temperature range from 303.15 to 323.15 K	Z. Trabelsi, M. Dallel, H. Salhi, D. Das, N.A. Al-Omair & N. Ouerfelli	.24
Q4	---	Scientific Journal of King Faisal University (Basic and Applied Sciences) (2015)	Thermodynamic Analysis of Dye-Surfactant Interactions in Aqueous Solution Using Conductometric and Surface Tension Techniques	N. A. Al-Omair	.25
Q2	---	The SciTech, Journal of Science & Technology 4 July 2014	Inhibition of Steel Corrosion in (0.5m) Hydrochloric Acid Solution	M. A. Al-Khaldi , K. Y. Al-qahtani , A.A.Al-arfaj, N. A. Alomair	.26
--	https://doi.org/10.1080/00319104.2013.871669	Physics and Chemistry of Liquids 4 May 2014	Derived partial molar properties investigations of viscosity Arrhenius parameters in formamide + N,N-dimethylacetamide systems at different temperatures	M. Dallel, D. Das , E.S. Bel Hadj Hmida , N.A. Al-Omair , A.A. Al-Arfaj and N. Ouerfelli	.27
--	https://doi.org/10.4236/ampc.2014.42005	Advances in Materials Physics and Chemistry 13 February 2014	Triton Facilitated Spherical TiO2 Nanoparticles and Their Advantage in a Dye-Sensitized Solar Cell.	N. A. Al-Omair , Safenaz M. Reda, Farah M. Al-Hajri	.28
Q2	https://doi.org/10.4236/anp.2014.31005	Advances in Nanoparticles 10 February 2014	Effect of Organic Dye on the Photovoltaic Performance of Dye-Sensitized ZnO Solar Cell.	N. A. Al-Omair , Safenaz M. Reda, Farah M. Al-Hajri	.29
--	---	AL – Azhar Bull. Sci. (2000)	Spectrophotometric and Kinetic studies of some basic dyes	M. A. AL - Khaldi , E.A. Moussa and N.A.Al - Omair	.30
--	---	AL – Azhar Bull. Sci. (1999)	Behavior of some Basic dyes in different solvents	E.A. Moussa, M.A. AL – Khaldi, N.A. Al - Omair	.31

براءات الاختراع

#	العنوان	الباحثين
1	ZnO-Porous Graphite Composites, Their Use and Manufacture	Alomair NA, Mohamed HH, United States patent **Publication No.**US-2020-0391190-A1 **Publication Date:** 17/12/2020
2	Transformation of Polyethylene Terephthalate (PET) Bottle Mixed Waste into Porous Graphite Photocatalyst Nanocomposite for Water Treatment	Mohamed HH, Alsanea AA, Alomair NA, Akhtar S, Bahnemann DW United States patent **Publication No.**US-2020-0346940-A1 **Publication Date:** 5/11/2020
3	Application of TiO_2 nanomaterials in the extraction of antibiotics and hormones from milk	Hafedh Kochkar, Alomair NA and others United States patent

الجوائز والمنح

#	اسم الجائزة	الجهة المانحة للجائزة	التاريخ
1	Reward excellence for scientific publishing, paper entitled (correlation between boiling temperature and the viscosity Arrhenius activation energy in N,N-dimethylformamide+2-propanol binary mixtures at 303.15 to 323.15 K)	جامعة الامام عبد الرحمن بن فيصل	2016
2	Reward excellence for scientific publishing, paper entitled (partial derivatives approach for estimation of the viscosity Arrhenius temperature in N,N-dimethylformamide + 1,4-dioxane binary fluid mixtures at temperatures from 298.15 K to 318.15 K)	جامعة الامام عبد الرحمن بن فيصل	2016
3	Reward excellence for scientific publishing, paper entitled (Thermodynamic Study of interaction between a Cationic Surfactant and an Anionic Azo Dye in Aqueous Solution)	جامعة الامام عبد الرحمن بن فيصل	2016
4	Reward excellence for scientific publishing, paper entitled (Derived partial molar properties investigations of viscosity Arrhenius parameters in formamide + N,N-dimethylacetamide systems at different temperatures)	جامعة الامام عبد الرحمن بن فيصل	2015
5	Reward excellence for scientific publishing, paper entitled (On the viscosity Arrhenius temperature for methanol + N,N-dimethylformamide binary mixtures over the temperature range from 303.15 to 323.15 K)	جامعة الامام عبد الرحمن بن فيصل	2014
6	Outstanding performance during the academic year 2009	جامعة الملك فيصل	2009

الكتب المنشورة:

#	الكاتب	العنوان	الناشر والتاريخ
1	N. A. Alomair and others	Interactive Physical Chemistry	IAU 2017

الأبحاث المقدمة في المؤتمرات:

#	الباحث	العنوان	التاريخ
1	Nuhad A. Alomair and Hanan H Mohamed	Green Synthesis of ZnO Hollow Microspheres and ZnO/rGO Nanocomposite Using Red Rice Husk Extract and Their "Photocatalytic Performance	23rd International Conference On Nanomaterials and Nanotechnology Theme: Exploring Advances of Nanomaterial Sciences London, UK 16.03.2018
2	Hanan H Mohamed and Nuhad A. Alomair	Graphene Oxide Based Porous Metal Oxide Microspheres for Photocatalytic Waste Water Treatment	The 4th Saudi International Nanotechnology Conference, SINC 2016 KFUPM + KACST 25-27/10/2016
3	Nuhad A. Alomair and Hanan H Mohamed	Synthesis of ZnO/CNT Microspheres Compo-sites for Enhanced Pho-tocatalytic Water Treatment	The 4th Saudi International Nanotechnology Conference, SINC 2016 KFUPM + KACST 25-27/10/2016
4	M. Dallela, N. Al-Otaibi, N. Al-Eidan, N.A. Al-Omair, A.A. Al-Arfaj, K.Y. Alqahtani, A. Toumi, N. Ouerfelli	Van der Waals clusters detection through the activation of viscous flow derived properties in isobutyric acid + water binary mixtures near and far away from critical temperature	JCC 2015 - First Tunisian Chemical Society Conference Sol Azur Beach Hotel, Hammamet – Tunisia, 8-10 May 2015
5	H.salhiah, M.Hichri, N.A. Al-Omair, K.Y. Alqahtani, N. Ouerfelli	Estimation des coefficients d'activité à partir de l'enthalpie libre molaire relative à l'activation d'écoulement visqueux dans les mélanges N,N-dimethylacétamide + 2-éthoxyethanol	The Eighteenth National days of Chemistry JNC18 Monastir, Tunisia 21-23 Dec. 2014
6	N.Dhouibi, H.Hamda, N.A. Al-Omair, N.Ouerfelli, A.H.Alhamzaoui	Contribution à une modelisation de la correlation entre les paramètres d'Arrhenius relatifs à la viscosité pour certains solvants purs.	The Eighteenth National days of Chemistry JNC18 Monastir, Tunisia 21-23 Dec. 2014
7	N. A. Al-Omair	Attracting creative and innovative ideas and competencies and their role in the dissemination of knowledge	Sixth International Arab Conference for Information Technology 29-31/10/2013

المشاريع المدعومة :

#	رقم المشروع	المدة بالأشهر	العنوان	جهة الدعم	حالة المشروع
1	2020-711-MED	24	Daily Magnesium intake for drinking water in relation to Diabetes	وزارة البيئة و الزراعة والمياه	جاري العمل
2	2020-100-BASRC	24	Assisted Photocatalysis by Ferroelectric Polarization for Fine Chemicals Production	وزارة التعليم/ التمويل المؤسسي	جاري العمل
3	2020-060-DSR	12	Extraction of biosilica from date palm rachis and arecanut leaf sheath fibers	عمادة البحث العلمي بالجامعة	جاري العمل
4	IF-2020-019-BASRC	24	Development of a smart nanohybrid material for solar photodegradation and disinfection of organic (biological) pollutants in water	عمادة البحث العلمي بالجامعة	جاري العمل
5	IF-2020-018-BASRC	24	Water Desalination and Purification	عمادة البحث العلمي بالجامعة	جاري العمل
6	Covid19-2020-074-DSR	6	The Positive Impacts of Remote Working During Pandemic Covid-19 In IAU	عمادة البحث العلمي بالجامعة	منجز
7	2019-063-Sci	24	CO2 capture and storage using nanoporous carbon nitride molecular baskets - To combat greenhouse effect	عمادة البحث العلمي بالجامعة	منجز
8	2019-087-Sci	24	Design of nanomaterials for Water Treatment at Low Energy Cost-Conception of photocatalytic reactor equipped with smart glass	عمادة البحث العلمي بالجامعة	منجز
9	2019-303-Sci	24	Sustainable Production of H2 fuel from seawater and Sunlight	عمادة البحث العلمي بالجامعة	منجز
10	2017-145-Sci	24	Green Design and Synthesis of 3D Metal Organic Frameworks Composites as Multifunctional Nanomaterials for Energy and Environmental Sustainability	عمادة البحث العلمي بالجامعة	منجز
11	2016-074-Sci	12	Transforming industrial Wastes into Carbon Based Nanomaterials (CNTs) for H2 Production Application	عمادة البحث العلمي بالجامعة	منجز
12	2015-060-Sci	12	Study of molecular interaction through the reduced Redlich-Kister excess physicochemical properties in binary mixtures	عمادة البحث العلمي بالجامعة	منجز
13	2015-151-Sci	12	Investigations of the correlation between viscosity Arrhenius behavior and the boiling point of pure and binary liquid mixtures	عمادة البحث العلمي بالجامعة	منجز
14	2014-070-Sci	12	Correlation study between viscosity Arrhenius behavior and the boiling point of some pure and binary liquid mixtures	عمادة البحث العلمي بالجامعة	منجز
15	2014-074-Sci	12	Investigations of molecular interaction through the reduced Redlich-Kister excess physicochemical properties in some binary mixtures	عمادة البحث العلمي بالجامعة	منجز

الأبحاث تحت النشر:

#	الباحثين	عنوان البحث
.1	Nuhad A. Alomair	The Role of Strontium on the Enhancement of Photocatalytic Response of TiO_2 Nanotubes – Application in Methylene Blue and Formic acid Photodegradation under Visible Light and UV-A
.2	Nuhad A. Alomair and Others	The Positive Impacts of Remote Working During Pandemic Covid-19 In IAU
.3	Nuhad A. Alomair and Others	Deconstructing the Traditional Learning & Teaching Environment: Assessment of IAU Students Preferences during the COVID-19 Pandemic.

المشاركة في المنتديات و المؤتمرات العلمية:

#	نوع المشاركة	المكان والتاريخ	العنوان
.1	حضور	الامانة العامة لمجلس التعاون لدول الخليج العربي April 8th, 2021	واقع ومستقبل البحث العلمي بدول مجلس التعاون
.2	متحدث رئيسي بورقة عمل بعنوان IAU & IP	جامعة الامام عبد الرحمن بن فيصل 2020/04/26	ورشة عمل اليوم العالمي للملكية الفكرية
.3	مشاركة بورقة عمل بعنوان بناء ثقافة البحث العلمي مسارا للبحوث الممولة	جامعة أم القرى 2020/3/2-1	مؤتمر تمكين المرأة في البحث العلمي
.4	مشاركة بعنوان SciVal	جامعة الامام عبد الرحمن بن فيصل 2020/02/23	الملتقى الثاني لرؤساء الأقسام
.5	متحدث رئيسي بناء ثقافة البحث العلمي	كلية الآداب 2020/02/19	الملتقى التاسع للبحث العلمي
.6	متحدث رئيسي من يمهد الطريق	جامعة الامام عبد الرحمن بن فيصل 2020/2/6-5	مؤتمر تمكين المرأة
.7	حضور	Al Qassim university 20-21-2019	Assessing the performance of the faculty member
.8	رئيس المؤتمر ورئيس جلسة	Dammam Sheraton Hotel, KSA, 25-27/2/2014	Environmental and Development in Gulf Region.
.9	ورقة عمل بعنوان Attracting creative and innovative ideas and competencies and their role in the dissemination of knowledge	Morocco 29-31/10/2013	Sixth International Arab Conference for Information Technology
.10	حضور	Dammam Sheraton Hotel,KSA 26-27/11/2012	Sustainability through biomimicry discovering a world of solutions inspired by nature
.11	حضور	Dammam university -09-13 May 2010	Elements in Academic Accreditation and the Future of Higher Education
.12	حضور	The dead Sea – Jordan 6-10/10/2010	11th Eurasia conference on Chemical Sciences
.13	حضور	KFUPM, KSA 27-29/03/2010	The Arab Conference about the Nano Economical & Developmental Effects.
.14	حضور	KAUST, Thuwal, KSA, 31/10-1/11/2009	KACST- KAUST Workshop on National Research Policy
.15	حضور	Riyadh, KSA 16-18/ 3/2009	Conference of e- First International learning and distance education in

education institutions of higher			
Symposium on management of sections of female students in Universities, Challenges and ambition.	KFU, KSA 7-8/3/2006	حضور	.16

الدورات التدريبية وورش العمل:

#	المكان والتاريخ	الاسم
1.	22/02/2021 شبكة العلوم والابتكار البريطانية	اطار ومنظومة البحث والابتكار في المملكة المتحدة ورشة عمل (عن بعد)
2.	08/03/2021 شبكة العلوم والابتكار البريطانية	افضل الممارسات في تعزيز اثر البحث العلمي ورشة عمل (عن بعد)
3.	Ministry of Education, Riyadh 31/ 10/ 2019	مشروع الدراسات القانونية وبناء الممكنات لبرنامج البحث والتطوير والإبداع وريادة الأعمال
4.	Ministry of Education, Riyadh 13 / 11/ 2019	منهجية وآلية تطوير استراتيجية البحث العلمي في الجامعات
5.	Ministry of Education, Riyadh (2019)	قياس مخرجات التعلم
6.	The Research Development Office (RDO) in the Ministry of Education with the American Association for the Advancement of Science (AAAS)- 9-10 December 2018.	Ethical standards in scientific and engineering research
7.	Academic Leadership center 14 December 2018.	Accountability in higher education
8.	IAU, 18-11-2018	Qualifications Registration Procedure
9.	Deanship of Admission and Registration Workshop 1-11-2018	Integrate roles to improve admission practices
10.	Academic Leadership center 26-11-2017	Decision making and problem solving
11.	Deanship of Library Affairs 14-11-2017	How to Write High Quality Research article
12.	Deanship of Academic Development Oct. 16th -17 th & Oct. 25 th – 26 th	Developing Core Competencies in Teaching and Learning
13.	Dammam Sheraton Hotel, KSA, 25-27/2/2014	Roundtable meeting Government organizations: excellence and leadership in customer service Institute of Public Administration
14.	United Kingdom with NCAAA 13-3-2016	Program of visiting the faculties of science of Britain :Visiting program day 1: British Council, QAA presentation, Cardiff University day 2: Cardiff Metropolitan University, HEFCE overview, NMITE overview day 3: University of Bristol, University of the West of England (UWE) day 4: University of Exeter
15.	22 / 10/ 2015	Best Practices in Coaching and Mentoring
16.	17-18/ 11/ 2014	Teaching for Creativity and Innovation, UOD

Academic Ranking of World Universities, Istanbul, Turkey	15-19/ 6/ 2014	17.
KAUST Saudi Leadership Program1, KAUST	30March – 5April 2014	18.
Advanced Teaching Strategies in Higher Education, UOD	28-29 /4/ 2014	19.
Events and Conference Management, UOD	25/5/2014	20.
Second meeting of the leaders of higher education institutions (excellence locally and globally: keeping pace with development) - Ministry of Higher Education Riyadh.	17/5/2012	21.
Workshop on Recruiting, Developing and Retraining a Faculty for the Twenty First Century, Ministry of Higher Education.	15-16/10/2011	22.
Workshop on Teaching & Learning, UOD	20-22/9/2011	23.
Scientific Workplace, KFUPM	15 /2/2011	24.
Parliamentary Procedure, KFU.	28/10/2009	25.
Microsoft Office Productivity, Saudi Aramco	4 – 5 /10 /2009 14-10- 1434	26.
Development of administrative communication skills, "the , UOD'Institute of Public Administration	5- 8 / 4 / 2009 9- 4 -1434	27.
One article in accordance with the standards of quality – Faculty of Education Jubail – KFU.	29-30/11/2008 30-11-1429	28.
Electronic tests using web CT - Dean of the development of university education - and the urban development - KFU.	11/5/2008	29.
Skills via Self- Directed Effective English communication learning workshop. Saudi Aramco	02/07 / 2008	30.
Course entitled "Total Quality Management", Institute of Public Administration	9-11/4 / 2006	31.
Course entitled 'Arts of dealing with the teenagers".	28-29 / 4 /2004	32.
Student's directions and guidance the Literatures College for Girls Dammam.	7-9/9/2002	33.

المشاركة في التحكيم:

#	الاسم
1	محكم المشاريع البحثية المدعومة من DSR لعام 2020
2	مناقشة رسالة ماجستير Master Dissertation under title “Design of Low Temperature Hybrid TiO2 -Cyanuric acid nanocomposites - Application in the photodegradation of organic pollutants in water”, for Ashwaq Bin Said, 2019, IAU
3	مناقشة رسالة ماجستير Master Dissertation under title “Studies on The Removal of some heavy metal ions from aqueous solutions using chitosan-vanillin chelating polymers” for Haneen Alshahrani, 2017, IAU Master
4	مناقشة رسالة ماجستير Dissertation under title “Studies on the Eleclrochemical Behavior of Copper-Silver Alloys in Sodium Sulphate Aqueous Solutions” for Nada Alaaidan, 2015, IAU
5	تحكيم كتاب Book under title “Activated Carbon Adsorption Behavior and Application”, 2015, King Saud University

العضويات العلمية:

#	الاسم

1	الجمعية الكيميائية السعودية – جامعة الملك سعود
2	الجمعية الكيميائية الأمريكية

النشاط التدريسي:

البكالوريوس:

#	المقرر	مدة المقرر	رقم المقرر
1	General Chemistry	15 lectures,12 labs	CHEM203
2	Electrochemistry	15 lectures, 12 labs	CHEM406
3	Chemical Kinetics and Reaction Mechanisms	15 lectures, 12 labs	CHEM 402
4	Surface Chemistry & Catalysis	15 lectures, 12 labs	CHEM507
5	Thermodynamic	12 labs	CHEM306
6	Introductory to Analytical Chemistry (lab).	12 labs	CHEM301
7	Organic Chemistry (1) (lab).	12 labs	CHEM302
8	Biochemistry (1) (lab).	12 labs	BIOCH401

وصف المقررات:

1	General Chemistry, CHEM 203, Course Description: Theoretical content: Introduction to the states of matter: solid, liquid and gaseous state, gas laws, and kinetic theory of gases. This course includes types of solutions, ideal and non-ideal solutions, and colligative properties, chemical and ionic equilibrium. Thermochemistry, energy changes in chemical reactions, acid-base equilibrium, buffer solutions as well. Practical content: The topics covered include some experiments on viscosity of liquids, density of liquids and solids, determining the molar mass of volatile liquids measuring, heat of enthalpies, equilibrium constant, pH, acid base titration, buffer solution and buffer capacity.
2	Electrochemistry, CHEM406, Course Description: Theoretical Content: Electrolytic solutions - electrolytic conductivity, kinds of electrical conductors, Faraday laws of electrolytic analysis effect of concentration on electrolytic conductivity, measurement of electrolytic conductivity, Theories of electrolytic conductivity- Arrhenius theory - the theory Ostwald - theory of ionic atmosphere, conductivity measurements applications, electrochemical cells - reversible and irreversible cells - galvanic cell, electrodes – electrode and cell representation, cell reaction- electrode potential – cell Potential – liquid junction potential, Measurement of electrode potential – reference electrodes (standard hydrogen electrode, calomel electrode silver/silver chloride electrode) – electrochemical series, Thermodynamics of galvanic cells – Nernst equation and its application to electrode and cell – electrodes classifications – (metal/metal ions – nonmetal/ nonmetal ions – gaseous electrode- amalgam electrode – metal/metal non soluble salt electrode – meal/metal oxide electrode – redox electrode), Classification of cells – concentration cells with and without liquid junction potential – chemical cells with and without liquid junction potential – redox cells, Application on galvanic cells, Polarization – types of polarization, Over-potential and its measurements – decomposition potential, Fick's laws. Practical Content: Experiments on the determination of electrode and cell potentials, number of electrons in electrochemical reaction, equilibrium constant, degree of dissociation and solution PH.
3	Chemical Kinetics and Reaction Mechanisms, CHEM 402, Course Description: Theoretical content: Introduction to kinetics, definition of reaction rates, factors that affect reaction rate, reaction rate constant, law and order, activation energy, temperature dependence of rate constants - Arrhenius equation, collision theory - transition state theory, zero, first, second and third order reactions, multiple order reactions-it's applications and methods of testing, analysis of kinetic results, parallel reactions, reversible reactions and

	equilibrium, consecutive reactions, chain reactions and complex reaction mechanisms. Practical content: Determination of speed reaction for some reactions of different rate types.
4	Surface Chemistry & Catalysis, CHEM507, Course Description: Theoretical Content: Introduction to Surface Chemistry: Surface and interface, classification of properties, extern al surfaces, clean surfaces, interfaces, absorption and thickness of surface layer. The structure of surface: Surface diffraction, notation of surface structures, the structure of clean surfaces, the structure of absorbed monolayers. Thermodynamics of an interface: Surface Thermodynamic Functions, Surface Tension, Surface Energy and Surface Composition of Two- Component Systems, Two-Dimensional Phases, Metastable Surface Phases, Curved Surfaces, Thermodynamics of Adsorbed Monolayers. Dynamics at Surfaces: Surface Atom Vibrations, Elementary Processes of Gas-Surface Interaction. Electrical Properties of Surfaces: The Surface Electron Potential, The Surface Space Charge, The Work Function, Adsorption-Induced Charge Transfer at Surfaces: Metals and Insulators, Surface Electron Density of States, Electron Excitation at Surfaces, Electron Emission from Surfaces by Incident Electron or Photon Beams, Field Electron Emission, Field Ionization, Electron Tunneling. The Surface Chemical Bond: Bonding Trends Across the Periodic Table, Cluster-like Bonding of Molecular Adsorbents, The Carbon Monoxide Chemisorption Bond, and Adsorbate-Induced Restructuring. The Flexible Surface, Thermal Activation of Bond Breaking, Surface-Structure Sensitivity of Bond Breaking, Coverage Dependence of Bonding and Co-adsorption, Weak Surface Bonds Catalysis by Surfaces: Brief History of Surface Catalysis, Catalytic Action, Catalyst Preparation, Deactivation, and Regeneration, Metal Catalysis, Catalysis by Ions at Surfaces. Acid-Base Catalysis, Most Frequently Used Catalyst Materials, Surface-Science Approach to Catalytic Chemistry, Case Histories of Surface Catalysts, Hydrogenation of Carbon Monoxide, and Hydrocarbon Conversion on Platinum. Practical Content: Some of experiments related to adsorption and catalysis.
5	CHEM306, Course Description: Thermodynamic Practical Content: Determination of neutralization, heat of formation, heat of, heat of, heat of decomposition - Approving of Hess's law -Determination of distribution coefficient and Effect of common ion and solubility product.
6	Introductory to Analytical Chemistry (lab). CHEM301, Course Description: Practical content: Carry out experiments on every type of volumetric titrations (neutralization, precipitation and redox). Perform experiment on gravimetric analysis by following the right steps.
7	Organic Chemistry (1) (lab). CHEM302, Course Description: Practical content: Tests for liquid compounds: Aldehyde, ketones, alcohols, Tests for solid compounds: Acids, esters, unsaturated compounds. Aromatic tests: Natation, sulphonation and Purification of liquids.
8	Biochemistry (1) (lab). BIOCH401, Course Description: Practical content: Chemical reactions for carbohydrates, protein, fatty acids and fat - Determination of some enzyme and one vitamin.

الدراسات العليا:

#	المقرر	الساعات المعتمدة	رقم المقرر
1	Advanced Heterogeneous Catalysis	3	CHEM 547
2	Research Methods	1	CHEM 519
3	Green Chemistry and Catalysis	3	CHEM 622
4	Photo and Electro Catalysis (PEC)	3	Chem 647

وصف المقررات:

1	**Advanced Heterogeneous Catalysis, CHEM547** General introduction about adsorption-Physisorption – Chemisorption- Adsorption measurements- Factors effect on adsorption- Adsorption isotherms, I_angnuir isotherm, BET theory, Henry, Temkin and freundlich isotherm- Catalyses, working of catalysts, types of catalyses, activity of catalysts, catalyst promotion_ Homogeneous catalyst, heterogeneous catalyst, mechanism of heterogeneous catalyst, positive and negative catalyses, properties of heterogeneous catalysts- Autocatalysis- Theories of catalyses- Characterization of catalysts, general properties: surface structure, surface composition, spectral analysis methods, the properties of the particles, surface area, pore size distribution, measurement of pores- Surface prop€rties, x-ray diftaction, scanning electron microscopy (SEM), transmission electron microscopy (TEM), x-ray fluorescence-auger electron spectroscopy (AES)- poisoning and deactivation, inhibition and selective catalysts.
2	**Research Methods CHEM 519** Introduction -Types of research methodology - Methodological steps in the preparation of scientific research work - Choosing a research plan topic- Identifying and define a problem- research goals- quantities research designs- practical steps- -minaret research a list of references.
3	**Green Chemistry and Catalysis CHEM 622** General Introduction to Green Chemistry- The 12 Principles of Green Chemistry -Energy and Green Chemistry- The role of catalysis - Green solvents Catalysis and Green Chemistry: Basics of Organometallic Chemistry-Catalysis and Green Chemistry: Oxidations and Reductions-Transition Metal Catalyzed Reactions in Green Solvents- The Contribution of Photochemistry to Green Chemistry- Renewable Resources: Chemicals from Biomass
4	**Photo and Electro Catalysis (PEC)** CHEM 647 General Introduction to Photocatalysis and Electro-photocatalysis What is Photocatalysis Science? - Photocatalysis vs Electro-photocatalysis Semiconductor interface - Binary semiconductors - Ternary semiconductors - Quaternary semiconductors Hydrogen generation by water splitting. Waste water treatment What is water Pollution? - Causes & Consequences Waste water treatment by photocatalysis vs photo electrocatalysis Reduction of carbon dioxide into hydrocarbon (fuel production)

الاشراف على رسائل الماجستير والدكتوراة:

#	الدرجة واسم الطالبة	العنوان	المؤسسة	التاريخ
1	ماجستير فاطمة القرني	Green Approach of synthesis of metal doped TiO_2 nanoparticles for photocatalytic application	جامعة الامام عبد الرحمن بن فيصل	2017
2	ماجستير ايمان العباد	Adsorption of some fatty acids on sodium Montomorillonite clay	جامعة الدمام	2006

رسائل جارية:

#	الدرجة واسم الطالبة	العنوان	المؤسسة	التاريخ
1	ماجستير مرام الجيزاني	Magnetic g-C_3N_4 for Photocatalytic Water Treatment and H_2 Production	جامعة الامام عبد الرحمن بن فيصل	2020

المشاركة المجتمعية:

#	من	إلى	نوع التطوع	الجهة
1	2020/06/01	2020/07/01	دراسة " قياس مسؤولية الفرد في ظل انتشار فايروس كورونا المستجد Covid-19	مجلس المسؤولية الاجتماعية في المنطقة الشرقية
2	2018/06/01	2018/06/21	مدير المشروع	البرنامج الصيفي للموهوبات بالتعاون مع مؤسسة الملك عبد العزيز ورجاله للموهبة والابداع
3	2017/11/16	2017/11/16	ورشة عمل مقدمة للموهوبات بعنوان (كيف يمكن كتابة نص علمي)	موهبة
4	2015/6/7	2015/7/9	مدير المشروع	البرنامج الصيفي الدولي للموهوبات SARSI بالتعاون مع معهد CEE (مركز الابداع في التعليم) بالولايات المتحدة الامريكية وارامكو السعودية
5	2013	2014	عضو مجلس	مجلس ادارة مدارس الفيصلية
6	2009	2011	عضو اداري	المركز الوطني للتقييم والقياس (قياس)

اخر تحديث

31/05/2021