

# FACULTY FULL NAME

# Nuhad Abdullah Abdurrahman Alomair

POSITION Associate Professor in Physical Chemistry

#### Personal Data

Nationality | Saudi

Sex: Female

Marital Status: Married

place of Birth | ALKhobar, KSA

Department | Chemistry

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# Research profile links at International Databases

| Database       | Link                                                          |  |  |
|----------------|---------------------------------------------------------------|--|--|
| Google Scholar | https://scholar.google.com/citations?user=6mRPmLcAAAAJ&hl=ar  |  |  |
| Scopus         | https://www.scopus.com/authid/detail.uri?authorId=56002119900 |  |  |
| ResearchGate   | 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                         |  |  |

# Academic Qualifications (Beginning with the most recent)

| Date | Academic Degree              | Place of Issue  | Address |
|------|------------------------------|-----------------|---------|
| 2003 | Ph. D. in Physical Chemistry | Science College | Dammam  |
| 1997 | M. Sc. in Physical Chemistry | Science College | Dammam  |
| 1991 | B. Sc. in Chemistry          | Science College | Dammam  |

# PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

| PhD    | Studies on The Electric Conductance Behavior of Some Dyes in Different Solutions                |
|--------|-------------------------------------------------------------------------------------------------|
| Master | Spectrophotometric and Potentiometric Studies on The Ionization of Some Basic Dyes in Different |
|        | Media                                                                                           |

# Professional Record: (Beginning with the most recent)

| Job Rank            | Place and Address of Work                                   | Date               |
|---------------------|-------------------------------------------------------------|--------------------|
| Associate Professor | Chemistry department, Science College, IAU                  | 20-10-2016 to date |
| Assistant Professor | Chemistry department, Science College, University of Dammam | 2003               |
| Lecturer            | Chemistry department, Science College                       | 1997               |
| Demonstrator        | Chemistry department, Science College                       | 1991               |



# Administrative Positions Held: (Beginning with the most recent)

| Administrative Position       | Office                                                  | Date                                              |
|-------------------------------|---------------------------------------------------------|---------------------------------------------------|
| Dean                          | Scientific Research Deanship                            | 20/10/2019 to date                                |
| Director                      | Basic and Applied Scientific<br>Research Center (BASRC) | 5/11/2018 to 31/03/2021                           |
| Dean                          | Science College                                         | 16/9/2010 to 12/7/2016<br>12/7/2018 to 20/10/2019 |
| Vice dean of Academic Affairs | Science College                                         | 26/10/2007 to 15/9/2010                           |

# Administrative Responsibilities, Committee and Community Service

# (Beginning with the most recent) Committee Membership

| #   | From            | То                | Position                                                                                           | Organization        |
|-----|-----------------|-------------------|----------------------------------------------------------------------------------------------------|---------------------|
| 1.  | 6/12/2020       | date              | Member of Board of Trustees                                                                        | IAU                 |
| 2.  | 2015            | date              | Member of university council                                                                       | IAU                 |
| 3.  | 20/10/2019      | date              | Head of DSR council                                                                                | IAU                 |
| 4.  | 19/02/2021      | date              | Member of research chairs committee                                                                | IAU                 |
| 5.  | 02/03/2021      | date              | Member of computer science and information technology college council                              |                     |
| 6.  | 5/11/2020       | date              | Member of strategic planning committee                                                             | IAU                 |
| 7.  | 24/10/2020      | date              | Head of the Scientific Research Initiative in Teaching and Learning for a university professor     | IAU                 |
| 8.  | 7/10/2020       | date              | Head of students publishing initiative                                                             | IAU                 |
| 9.  | 17/8/2020       | date              | Member of the committee of scientific supervision and follow-up of research funded by KACST at IAU | IAU                 |
| 10. | 17/6/2020       | date              | Member of Committee for Institutional Fund                                                         | IAU                 |
| 11. | 20/2/2020       | date              | Member of Institute for Studies and Consultations council                                          | IAU                 |
| 12. | 4/12/2019       | date              | Member of Preparing the Scientific Research Strategy for the IAU and its follow up implementation. | IAU                 |
| 13. | 20/10/2019      | date              | Member of Research Excellence Award                                                                | IAU                 |
| 14. | 20/10/2019      | date              | Member of Deanship of Higher studies council                                                       | IAU                 |
| 15. | 21/10/2018      | 20/10/2019        | Member of thinking and strategic plan committee                                                    | IAU                 |
| 16. | 21/12/2018      | 20/10/2019        | Member in deanship of scientific research.                                                         | IAU                 |
| 17. | 15/9/2017       | 2/9/2018          | Head of the committee of faculty affairs in chemistry dep.                                         | IAU                 |
| 18. | 9/10/2014       | 4/12/2019         | Member of recruitment committee.                                                                   | IAU                 |
| 19. | 13/4/2015       | 12/7/2016         | Member of main committee of deanship of community service and sustainable development              |                     |
| 20. | 2013<br>2018 to | 2016<br>4/12/2019 | Head of behavior committee in science college IA                                                   |                     |
| 21. | 2013            | 2014              | Member of Al-Faisaliah School Board                                                                | AlMaaref<br>company |

# Scientific Achievements

# Published Refereed Scientific Research

(In Chronological Order Beginning with the Most Recent)

| #  | Name of Investigator(s)                                                                                                                                                      | Research Title                                                                                                                                      | Publisher and Date of Publication                                                            | 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<br>Online Teaching at Imam<br>Abdulrahman Bin Faisal<br>University During the<br>COVID-19 Crisis: A Cross-<br>Sectional Study | F1000Research 2021                                                                           | -                                                          | Q2 |
| 2. | Hanan H.<br>Mohamed, Fatima Al<br>Qarni , <b>Nuhad A. Alomair</b> ,<br>Sultan Akhtar                                                                                         | Solar Photocatalytic and<br>Antimicrobial Activity of<br>Porous Indium-Doped TiO <sub>2</sub><br>Nanostructure                                      | Arabian Journal for Science and Engineering 27 October <b>2020</b>                           | https://doi.org/10<br>.1007/s13369-<br>020-04957-x         | Q1 |
| 3. | Hanan H Mohamed,<br>Fatimah Al Qarni, <b>Nuhad</b><br><b>A. Alomair</b>                                                                                                      | Design of porous Ga doped<br>TiO₂ nanostructure for<br>enhanced solar light<br>photocatalytic applications                                          | Materials Research<br>Bulletin<br>5 September <b>2 0 2 0</b>                                 | https://doi.org/10<br>.1016/j.materresb<br>ull.2020.111057 | Q1 |
| 4. | Marwa Hamandi,<br>Mohamed Triki, Jordi<br>Llorca, Fethi Jomni,<br><b>Nuhad A. Alomair</b> And<br>Hafedh Kochkar                                                              | Investigation of physicochemical and electrical properties of TiO <sub>2</sub> nanotubes/graphene oxide nanocomposite                               | Bull. Mater. Sci.<br>10 April, <b>2020</b>                                                   | https://doi.org/10<br>.1007/s12034-<br>020-2072-1          | Q3 |
| 5. | Hanan H Mohamed,<br><b>Nuhad A. Alomair</b> , Detlef<br>W Bahnemann                                                                                                          | Kinetic and mechanistic<br>features on the reaction of<br>stored TiO₂ electrons with<br>Hg (II), Pb (II) and Ni (II) in<br>aqueous suspension       | Arabian Journal of<br>Chemistry<br>1 December, <b>2019</b>                                   | https://doi.org/10<br>.1016/j.arabjc.201<br>6.08.001       | Q1 |
| 6. | <b>Nuhad A. Alomair</b> and<br>Hanan H Mohamed                                                                                                                               | Single Step Green Synthesis<br>of Au /ZnO/rGO<br>Nanocomposites for Visible<br>Light Photocatalytic<br>Application                                  | Materials Research<br>Express<br>11 October, <b>2019</b>                                     | https://doi.org/10<br>.1088/2053-<br>1591/ab4967           | Q2 |
| 7. | Fatimah Al Qarni, <b>Nuhad</b><br><b>A. Alomair</b> and Hanan H.<br>Mohamed                                                                                                  | Environment-Friendly<br>Nanoporous Titanium<br>Dioxide with Enhanced<br>Photocatalytic Activity                                                     | Catalysts<br>25 September, <b>2019</b>                                                       | https://doi.org/10<br>.3390/catal91007<br>99               | Q2 |
| 8. | Hanan H.Mohamed,<br><b>Nuhad A. Alomair</b> ,<br>SultanAkhtar, Tamer<br>E.Youssef                                                                                            | Eco-friendly synthesized αFe <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> heterojunction with enhanced visible light photocatalytic activity       | Journal of<br>photochemistry and<br>Photobiology A:<br>Chemistry<br>1 September, <b>2019</b> | https://doi.org/10<br>.1016/j.jphotoche<br>m.2019.111951   | Q1 |

| 9.  | Raouf Jebali , Mohamed<br>Triki <b>,, Nuhad A. Alomair</b> , ,<br>Hafedh Kochkar                                                                                         | From adsorption of rare earth elements on TiO <sub>2</sub> nanotubes to preconcentration column application                                                                              | Microchemical Journal<br>1 September, <b>2019</b>                       | https://doi.org/10<br>.1016/j.microc.20<br>19.104021  | Q2 |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------|----|
| 10. | Mohamed HH, Alsanea<br>AA <b>Nu had A. Alomair</b> ,<br>Akhtar S, Bahnemann<br>DW.                                                                                       | ZnO@ porous graphite nanocomposite from waste for superior photocatalytic activity.                                                                                                      | Environmental Science<br>and Pollution Research<br>1 April, <b>2019</b> | https://doi.org/10<br>.1007/s11356-<br>019-04684-3    | Q1 |
| 11. | <b>Nu had A.</b><br><b>Alomair</b> and Hanan H<br>Mohamed                                                                                                                | Green synthesis of ZnO hollow microspheres and ZnO/rGO nanocomposite using red rice husk extract and their photocatalytic performance                                                    | Materials Research<br>Express<br>3 August, <b>2018</b>                  | https://doi.org/10<br>.1088/2053-<br>1591/aaa469      | Q2 |
| 12. | N.O. ALZAMEL,F. ALAKHRAS , A.A. AL- ARFAJ1 , M.A. AL-KHALDI Nuhad A. Alomair , E. AL- ABBAD , A.A. WASSEL and N. OUERFELLI                                               | On the Homographic<br>Dependence of Activation<br>Energy and Viscosity<br>Arrhenius' Temperature for<br>Some Pure Fluids                                                                 | Asian Journal of<br>Chemistry<br>31 July, <b>2018</b>                   | https://doi.org/10<br>.14233/ajchem.20<br>18.21319    | Q4 |
| 13. | A.A. AL-ARFAJ, F. ALAKHRAS, E. AL-ABBAD, N.O. ALZAMEL, <b>Nuhad A. Alomair</b> and N. OUERFELLI                                                                          | Removal of Orange 2G Dye<br>from Aqueous Solutions<br>Using TiO <sub>2</sub> -Based<br>Nanoparticles: Isotherm<br>and Kinetic Studies                                                    | Asian Journal of<br>Chemistry<br>31 May, <b>2018</b>                    | https://doi.org/10<br>.14233/ajchem.20<br>18.21298    | Q4 |
| 14. | Hanan H. Mohamed,<br><b>Nuhad A. Alomair</b>                                                                                                                             | Exploiting stored TiO <sub>2</sub> electrons for multi-electron reduction of an azo dye methyl orange in aqueous suspension                                                              | Journal of Saudi<br>Chemical Society<br>1 March, <b>2018</b>            | https://doi.org/10<br>.1016/j.jscs.2016.<br>0 6.002   | Q2 |
| 15. | Rami Haj Kac em,<br>Mohamed Dallal, <b>Nuhad</b><br><b>A. Alomair</b> , Ahlam Al-<br>Arfaj, Nora Alzamel,<br>Noureddine Ouerfelli                                        | Analysis of correlation<br>between viscosity<br>Arrhenius parameters:<br>Extension to ternary liquid<br>mixtures                                                                         | Mediterranean Journal<br>of Chemistry<br>14 November, <b>2017</b>       | https://doi.org/10<br>.13171/mjc65/01<br>71114633rhk  | Q4 |
| 16. | Mohamed Dallel, Ahlam<br>A. Al-Arfaj, <b>Nuhad A.</b><br><b>Alomair</b> , Mishael A.<br>Alkhaldi,<br>Noura O. Alzamel, Asala<br>A. Al-Zahrani And<br>Noureddine Ouerfell | A Novel Approach of Partial<br>Derivatives to Estimate the<br>Normal Boiling Temperature<br>via Viscosity Arrhenius<br>Behaviour in N,N-<br>Dimethylformamide + Ethanol<br>Fluid Systems | Asian Journal of<br>Chemistry<br>1 September, <b>2017</b>               | https://doi.org/10<br>.14233/ajchem.20<br>17.20764    | Q4 |
| 17. | M. Dallel, A.A. Al-Zahrani,<br>H.M. Al-Shahrani, G.M.<br>Al-Enzi, L. Snoussi,<br>N.Vrinceanu, <b>Nuhad A.</b><br><b>Alomair</b> & N. Ouerfelli                           | Prediction of the boiling temperature of 1,2-dimethoxyethane and propylene carbonate through the study of viscosity—temperature                                                          | Physics and Chemistry<br>of Liquids<br>4 July, <b>2017</b>              | https://doi.org/10<br>.1080/00319104.<br>2016.1233181 | Q2 |

|     |                                                                                                                                                                      | dependence of corresponding binary liquid mixtures.                                                                                                                                         |                                                                 |                                                          |    |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------|----|
| 18. | Nu had A. Alomair                                                                                                                                                    | Investigation of<br>Interactions between<br>Sodium Dodecyl Sulfate<br>and Crystal Violet in<br>Aqueous Solution                                                                             | Asian Journal of<br>Chemistry<br>1 April, <b>2017</b>           | https://doi.org/10<br>.14233/ajchem.20<br>17.20368       | Q4 |
| 19. | Hanen Salhi , Saik Babu ,<br>Nada Al-Eidan , Nejib H.<br>Mekni , Noura Al-Otaibi ,<br>Khadija Y. Alqahtani ,<br><b>Nu had A. Alomair</b> and<br>Noureddine Ouerfelli | On the reduced Redlich-<br>Kister excess properties for<br>1,2-dimethoxyethane with<br>propylene carbonate binary<br>mixtures at temperatures<br>(from 298.15 to 318.15) K                  | Mediterranean Journal<br>of Chemistry<br>5 January, <b>2017</b> | https://doi.org/10<br>.13171/mjc62/01<br>701061439-salhi | Q4 |
| 20. | <b>Nuhad A. Alomair</b> , D. Das,<br>L. Snoussi, B. Sinha, R.<br>Pradhan, K. Acharjee, K.<br>Saoudi, N. Ouerfelli                                                    | 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 | Physics and Chemistry<br>of Liquids<br>2 September, <b>2016</b> | https://doi.org/10<br>.1080/00319104.<br>2016.1139707    | Q2 |
| 21. | R.B. Haj-Kacem, N. O.<br>Alza-mel, <b>Nu had A.</b><br><b>Alomair</b> , M.A.<br>Alkhaldi, A.A. Al-Arfaj, N.<br>Ouerfelli                                             | Sensitivity of Viscosity<br>Arrhenius – Type Equation<br>to Density of Liquids                                                                                                              | Asian Journal of<br>Chemistry<br>1 January, <b>2016</b>         | http://dx.doi.org/<br>10.14233/ajchem.<br>2016.19990     | Q4 |
| 22. | H. Salhi, <b>Nuhad A. Alomair</b> , A.A. Al-Arfaj, M.A. Alkhaldi, N.O. Alzamel, K.Y. Alqahtani, N. Ouerfelli                                                         | 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.                            | Asian Journal of<br>Chemistry<br>1 June, <b>2016</b>            | http://dx.doi.org/<br>10.14233/ajchem.<br>2016.19858     | Q4 |
| 23. | Nu had A. Alomair                                                                                                                                                    | Thermodynamic Study of interaction between a Cationic Surfactant and an Anionic Azo Dye in Aqueous Solution                                                                                 | Indian Chemical Society<br>January, <b>2016</b>                 |                                                          | Q4 |
| 24. | Z. Trabelsi, M. Dallel, H.<br>Salhi, D. Das, <b>Nu had A.</b><br><b>Alomair</b> & N. Ouerfelli                                                                       | On the viscosity Arrhenius temperature for methanol + N,N-dimethylformamide binary mixtures over the temperature range from 303.15 to 323.15 K                                              | Physics and Chemistry<br>of Liquids<br>4 July, <b>2015</b>      | https://doi.org/10<br>.1080/00319104.<br>2014.947372     | Q2 |



| 25. | Nu had A. Alomair                                                                                                  | Thermodynamic Analysis of<br>Dye-Surfactant Interactions<br>in Aqueous Solution Using<br>Conductometric and<br>Surface Tension Techniques                | Scientific Journal of<br>King Faisal University<br>(Basic and Applied<br>Sciences)<br>December, <b>2015</b> |                                                      | Q4 |
|-----|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------|----|
| 26. | M. A. Al-Khaldi , K. Y. Al-<br>qahtani , A.A.Al-arfaj,<br><b>Nuhad A. Alomair</b>                                  | Inhibition of Steel<br>Corrosion in 0.5 m<br>Hydrochloric Acid Solution                                                                                  | The SciTech, Journal of Science & Technology 4 July, <b>2014</b>                                            |                                                      | Q2 |
| 27. | M. Dallel, D. Das , E.S. Bel<br>Hadj Hmida , <b>Nuhad A.</b><br><b>Alomair</b> , A.A. Al-Arfaj<br>and N. Ouerfelli | Derived partial molar properties investigations of viscosity Arrhenius parameters in formamide + N,N-dimethylacetamide systems at different temperatures | Physics and Chemistry<br>of Liquids<br>4 May, <b>2014</b>                                                   | https://doi.org/10<br>.1080/00319104.<br>2013.871669 | Q2 |
| 28. | <b>Nuhad A. Alomair,</b><br>Safenaz M. Reda, Farah<br>M. Al-Hajri                                                  | Triton Facilitated Spherical<br>TiO <sub>2</sub> Nanoparticles and<br>Their Advantage in a Dye-<br>Sensitized Solar Cell.                                | Advances in Materials<br>Physics and Chemistry<br>13 February, <b>2014</b>                                  | https://doi.org/10<br>.4236/ampc.2014.<br>42005      |    |
| 29. | <b>Nuhad A. Alomair</b> ,<br>Safenaz M. Reda, Farah<br>M. Al-Hajri                                                 | Effect of Organic Dye on<br>the Photovoltaic<br>Performance of Dye-<br>Sensitized ZnO Solar Cell.                                                        | Advances in<br>Nanoparticles<br>10 February, <b>2014</b>                                                    | https://doi.org/10<br>.4236/anp.2014.3<br>1005       | Q2 |
| 30. | M. A. AL - Khaldi , E.A.<br>Moussa and <b>Nuhad A.</b><br><b>Alomair</b>                                           | Spectrophotometric and<br>Kinetic studies of some<br>basic dyes                                                                                          | AL -Azhar Bull. Sci.<br>2000                                                                                |                                                      |    |
| 31. | E.A. Moussa, M.A. AL –<br>Khaldi, <b>Nuhad A. Alomair</b>                                                          | Behavior of some Basic<br>dyes in different solvents                                                                                                     | AL -Azhar Bull. Sci.<br>1999                                                                                |                                                      |    |

# **Filed Patents**

| # | Patent Title                                        | Name of Investigator(s)                                    |
|---|-----------------------------------------------------|------------------------------------------------------------|
| 1 | ZnO-Porous Graphite Composites, Their Use and       | Alomair NA, Mohamed HH,                                    |
|   | Manufacture                                         | United States patent                                       |
|   |                                                     | Publication No.US-2020-0391190-A1                          |
|   |                                                     | Publication Date: 17/12/2020                               |
| 2 | Transformation of Polyethylene Terephthalate        | Mohamed HH, Alsanea AA, Alomair NA, Akhtar S, Bahnemann DW |
|   | (PET) Bottle Mixed Waste into Porous Graphite       | United States patent                                       |
|   | Photocatalyst Nanocomposite for Water Treatment     | Publication No.US-2020-0346940-A1                          |
|   |                                                     | Publication Date: 5/11/2020                                |
| 3 | Application of TiO₂ nanomaterials in the extraction | Hafedh Kochkar, Alomair NA and others                      |
|   | of antibiotics and hormones from milk               | United States patent                                       |

# Published Refereed Scientific Books

| # | Name of Investigator(s)  | Research Title                 | Publisher and Date of Publication |
|---|--------------------------|--------------------------------|-----------------------------------|
| 1 | N. A. Alomair and others | Interactive Physical Chemistry | IAU, 2017                         |

# Grants and Awards Obtained

| # | Name of award                                                                                                                                                                                                                                               | Do nor of the award and place | Date |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------|
| 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)                               | IAU                           | 2016 |
| 2 | Reward excellence for scientific publishing, paper entitled (partial derivatives approach for estimation of the viscosity Arrhenius temperature in N,N-dimethylformamide $\pm$ 1,4-dioxane binary fluid mixtures at temperatures from 298.15 K to 318.15 K) | IAU                           | 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)                                                                                   | IAU                           | 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 )                                     | IAU                           | 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)                                                | IAU                           | 2014 |
| 6 | Outstanding performance during the academic year 2009                                                                                                                                                                                                       | KFU                           | 2009 |

# Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

| #  | Name of Investigator(s)                                                                                                  | Research Title                                                                                                                                                                                | Conference and Publication Date                                                                                        |
|----|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| 1. | Nuhad A. Alomair and<br>Hanan H Mohamed                                                                                  | Green Synthesis of ZnO Hollow<br>Microspheres and ZnO/rGO                                                                                                                                     | 23 <sup>rd</sup> International Conference on<br>Nanomaterials and Nanotechnology                                       |
|    |                                                                                                                          | Nanocomposite Using Red Rice Husk<br>Extract and Their Photocatalytic<br>Performance"                                                                                                         | Theme: Exploring Advances of<br>Nanomaterial Sciences<br>March 15-16, 2018 London, UK                                  |
| 2. | Hanan H Mohamed<br>and Nuhad A. Alomair                                                                                  | Graphene Oxide Based Porous Metal<br>Oxide Microspheres for Photocatalytic<br>Wastewater Treatment                                                                                            | The 4 <sup>th</sup> Saudi International<br>Nanotechnology Conference, SINC 2016<br>KFUPM + KACST 25-27/10/2016         |
| 3. | Nuhad A. Alomair and<br>Hanan H Mohamed                                                                                  | Synthesis of ZnO/CNT Microspheres<br>Composites for Enhanced Pho-tocatalytic<br>Water Treatment                                                                                               | The 4 <sup>th</sup> Saudi International<br>Nanotechnology Conference, SINC 2016<br>KFUPM + KACST 25-27/10/2016         |
| 4. | M. Dallela, N. Al-Otaibi,<br>N. Al-Eidan, N.A. Al-<br>Omair, A.A. Al-Arfaj,<br>K.Y. Alqahtani, A.<br>Toumi, N. Ouerfelli | Van der Waals clusters detection<br>through the activation of viscous flow<br>derived properties in isobutyric acid +<br>water binary mixtures near and far away<br>from critical temperature | JCC 2015 - First Tunisian Chemical<br>Society Conference<br>Sol Azur Beach Hotel, Hammamet –<br>Tunisia, 8-10 May 2015 |
| 5. | H.salhiah, M.Hichri,<br>N.A. Al-Omair, K.Y.<br>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<br>Chemistry JNC18<br>Monastir, Tunisia 21-23 Dec. 2014                                |
| 6. | N.Dhouibi, H.Hamda,<br>N.A. Al-Omair,<br>N.Ouerfelli ,<br>A.H.Alhamzaoui                                                 | Contribution à une modelisation de la<br>correlation entre les paramètres<br>d'Arrhenius relatifs à la viscosité pour<br>certains solvants purs.                                              | The Eighteenth National days of Chemistry JNC18<br>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                                           |

# Funded Projects

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

# Current Research

| #  | Research Title                                                                             | Name of Investigator(s) |
|----|--------------------------------------------------------------------------------------------|-------------------------|
| 1. | The Role of Strontium on the Enhancement of Photocatalytic Response of TiO $_{\mathrm{2}}$ | Nuhad A. Alomair        |
|    | Nanotubes-Application in MethyleneBlueandFormicacidPhotodegradationunder                   |                         |
|    | Visible Light and UV-A                                                                     |                         |
| 2. | The Positive Impacts of Remote Working During Pandemic Covid-19 In IAU                     | Nuhad A. Alomair and    |
|    |                                                                                            | Others                  |
| 3. | Faculty Readiness for Online Teaching During the COVID 19 Crisis in Imam                   | Nuhad A. Alomair and    |
|    | Abdulrahman Bin Faisal University                                                          | Others                  |



# Participation in scientific conferences, workshop and Forum:

| #  | Conference Title                                                                                               | Place and Date of the<br>Conference                                                                           | Extent of Contribution                                                                                                                     |
|----|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Reality and Future of Scientific<br>Research in the GCC Countries                                              | General Secretariat of the<br>Cooperation Council for the<br>Arab States of the Gulf (GCC)<br>April 8th, 2021 | attendance                                                                                                                                 |
| 2. | World Intellectual Property Day<br>workshop                                                                    | IAU<br>04/26/2020                                                                                             | Participation paper entitled "IAU & IP"                                                                                                    |
| 3. | Conference on Empowering Women in Scientific Research                                                          | Umm Al-Qura University<br>1-2/3/2020                                                                          | Participation<br>paper entitled "Building a culture of<br>scientific research: pathway for<br>funded research"                             |
| 4. | The second forum for department heads                                                                          | IAU<br>02/23/2020                                                                                             | Participation paper entitled "SciVal"                                                                                                      |
| 5. | The ninth forum for scientific research                                                                        | IAU, college of Art<br>02/19/2020                                                                             | Participation paper entitled "Building a culture of scientific research"                                                                   |
| 6. | Women Empowerment Conference                                                                                   | IAU<br>5-6/2/2020                                                                                             | Keynote speaker<br>"Who paves the way"                                                                                                     |
| 7. | Assessing the performance of the faculty member                                                                | Al Qassimuniversity<br>20-21-2019                                                                             | attendance                                                                                                                                 |
| 8. | Environmental and Development in Gulf Region.                                                                  | Dammam Sheraton Hotel,<br>KSA,<br>25-27/2/2014                                                                | Head of the conference and<br>Chairman of session                                                                                          |
| 9. | Sixth International Arab Conference for Information Technology                                                 | Morocco<br>29-31/10/2013                                                                                      | Conference Paper titled (oral): Attracting creative and innovative ideas and competencies and their role in the dissemination of knowledge |
| 10 | Sustainability through biomimicry discovering a world of solutions inspired by nature                          | Dammam Sheraton Hotel, KSA<br>26-27/11/2012                                                                   | attendance                                                                                                                                 |
| 11 | Elements in Academic Accreditation and the Future of Higher Education                                          | Dammam university -09-13<br>May 2010                                                                          | attendance                                                                                                                                 |
| 12 | 11 <sup>th</sup> Eurasia conference on Chemical<br>Sciences                                                    | The dead Sea – Jordan<br>6-10/10/2010                                                                         | attendance                                                                                                                                 |
| 13 | The Arab Conference about the Nano Economical & Developmental Effects.                                         | KFUPM, KSA<br>27-29/03/2010                                                                                   | attendance                                                                                                                                 |
| 14 | KACST- KAUST Workshop on National<br>Research Policy                                                           | KAUST, Thuwal, KSA,<br>31/10-1/11/2009                                                                        | attendance                                                                                                                                 |
| 15 | First International Conference of e-<br>learning and distance education in<br>institutions of higher education | Riyadh, KSA<br>16-18/ 3/2009                                                                                  | attendance                                                                                                                                 |
| 16 | Symposium on management of sections of female students in Universities, Challenges, and ambition.              | KFU, KSA<br>7-8/3/2006                                                                                        | attendance                                                                                                                                 |

# Training courses or programs

| #   | The name of the session or course or program                                                              | Place and Date of the Course                                                       |
|-----|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|     | and the organization                                                                                      |                                                                                    |
| 1.  | UK Research and Innovation Framework and                                                                  | UK Science and Innovation Network                                                  |
|     | System, Workshop (online)                                                                                 | 22/02/2021                                                                         |
| 2.  | The best improvements in enhancing scientific                                                             | UK Science and Innovation Network                                                  |
| 3.  | research, Workshop (online)                                                                               | 08/03/2021                                                                         |
| 3.  | Project of legal studies and building capabilities for the program of research, development, creativity,  | Riyadh<br>31/10/2019                                                               |
|     | and entrepreneurship.                                                                                     | 31/ 10/ 2013                                                                       |
|     | Ministry of Education                                                                                     |                                                                                    |
| 4.  | Methodology and mechanism for developing                                                                  | Riyadh                                                                             |
|     | scientific research strategy in universities.                                                             | 13/11/2019                                                                         |
| -   | Ministry of Education                                                                                     | Divada                                                                             |
| 5.  | Measuring learning outcomes  Ministry of Education                                                        | Riyadh<br>2019                                                                     |
| 6.  | Ethical standards in scientific and engineering                                                           | Riyadh                                                                             |
| 0.  | research                                                                                                  | 9-10 December 2018.                                                                |
|     | The Research Development Office (RDO) in the                                                              |                                                                                    |
|     | Ministry of Education with the American Association                                                       |                                                                                    |
|     | for the Advancement of Science (AAAS) and                                                                 |                                                                                    |
| 7.  | engineering research Accountability in higher education                                                   | AL Khobar                                                                          |
| 7.  | Academic Leadership center, Ministry of Education                                                         | 14 December 2018.                                                                  |
| 8.  | Qualifications Registration Procedure                                                                     | IAU, 18-11-2018                                                                    |
| 9.  | Integrate roles to improve admission practices                                                            | IAU                                                                                |
|     | Deanship of Admission and Registration Workshop                                                           | 1-11-2018                                                                          |
| 10. | Decision making and problem solving                                                                       | AL Khobar                                                                          |
| 1.1 | Academic Leadership center, Ministry of Education                                                         | 26-11-2017                                                                         |
| 11. | How to Write High Quality Research article Deanship of Library Affairs                                    | IAU<br>14-11-2017                                                                  |
| 12. | Developing Core Competencies in Teaching and                                                              | IAU                                                                                |
|     | Learning Deanship of Academic Development                                                                 | Oct. 16 <sup>th</sup> -17 <sup>th</sup> & Oct. 25 <sup>th</sup> – 26 <sup>th</sup> |
| 13. | Roundtable meeting Government organizations:                                                              | ALHasaa, KSA,                                                                      |
|     | excellence and leadership in customer service                                                             | 25-27/2/2014                                                                       |
|     | Institute of Public Administration                                                                        |                                                                                    |
| 14. | The program of the visiting of the Deans of Science college to the universities of the County of Wales in | UK, Wales county<br>13-3-2016                                                      |
|     | Britain                                                                                                   | 13-3-2010                                                                          |
|     | 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                                                                               |                                                                                    |
|     | The organization: NCAAA                                                                                   |                                                                                    |
| 15. | Best Practices in Coaching and Mentoring                                                                  | AL Khobar                                                                          |
|     | Academic Leadership center, Ministry of Education                                                         | 22/10/2015                                                                         |
| 1.0 | Tooching for Croativity and Innovation                                                                    |                                                                                    |
| 16. | Teaching for Creativity and Innovation                                                                    | UOD                                                                                |

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

# Participation in arbitration:

| # | The name of the journal, dissertation, book                                                                                                                                                               |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Arbitrator of DSR-supported research projects for the year 2020                                                                                                                                           |
| 2 | 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 | Master Dissertation under title "Studies on the Electrochemical Behavior of Copper-Silver Alloys in Sodium Sulphate Aqueous Solutions" for Nada Alaaidan, 2015, IAU                                       |
| 4 | 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                      |
| 5 | Book under title "Activated Carbon Adsorption Behavior and Application", 2015, King Saud University                                                                                                       |

#### Membership of Scientific and Professional Societies and Organizations

| #                                | The name of Scientific and Professional Societies and Organizations |  |
|----------------------------------|---------------------------------------------------------------------|--|
| 1.                               | Saudi Chemical Society - King Saud University                       |  |
| 2. American Chemical Association |                                                                     |  |

#### Teaching Activities

#### Un dergraduate

| # | Course/Rotation Title                       | No./Code | Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics) |
|---|---------------------------------------------|----------|----------------------------------------------------------------------|
| 1 | General Chemistry                           | CHEM203  | 15 lectures,12 labs                                                  |
| 2 | Electrochemistry                            | CHEM406  | 15 lectures, 12 labs                                                 |
| 3 | Chemical Kinetics and Reaction              | CHEM 402 |                                                                      |
|   | Mechanisms                                  |          | 15 lectures, 12 labs                                                 |
| 4 | Surface Chemistry & Catalysis               | CHEM507  | 15 lectures, 12 labs                                                 |
| 5 | Thermodynamic                               | CHEM306  | 12 labs                                                              |
| 6 | Introductory to Analytical Chemistry (lab). | CHEM301  | 12 labs                                                              |
| 7 | Organic Chemistry (1) (lab).                | CHEM302  | 12 labs                                                              |
| 8 | Biochemistry (1) (lab).                     | BIOCH401 | 12 labs                                                              |

#### Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)

#### 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, acidbase 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.

#### 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- conductivity measurements applications, reference electrodes Thermodynamics of galvanic cells – Classification of 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.

#### 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, The structure of surface, Thermodynamics of an interface, Dynamics at Surfaces, Adsorption-Induced Charge Transfer at Surfaces, The Surface Chemical Bond, Catalysis by Surfaces.

Practical Content:

Some of experiments related to adsorption and catalysis.

#### 5 Thermodynamic CHEM306, Course Description:

Practical Content:

Determination of neutralization, heat of formation, 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, sulphonating 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

#### Postgraduate

| # | Course Name                       | Course Code | Credit hours |
|---|-----------------------------------|-------------|--------------|
| 1 | Advanced Heterogeneous Catalysis  | CHEM 547    | 3            |
| 2 | Research Methods                  | CHEM 519    | 1            |
| 3 | Green Chemistry and Catalysis     | CHEM 622    | 3            |
| 4 | Photo and Electro Catalysis (PEC) | Chem 647    | 3            |

#### Brief Description of Postgraduate Courses Taught: (Course Title – Code: Description)

#### 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 properties, x-ray diffraction, 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.

#### Green Chemistry and Catalysis CHEM 622

3 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.

# Photo and Electro Catalysis (PEC) CHEM 647

4 General Introduction to Photocatalysis and Electro-photocatalysis
What is Photocatalysis Science? - Photocatalysis vs Electro-photocatalysis

Semiconductorinterface

- 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)

#### Supervision of Master and/or PhD Thesis

| # | Degree Type     | Title                                                       | Institution | Date |
|---|-----------------|-------------------------------------------------------------|-------------|------|
| 1 | Master          | Green Approach of synthesis of metal doped TiO <sub>2</sub> | IAU         | 2017 |
|   | Fatimah Alqarni | nanoparticles for photocatalytic application                |             |      |
| 1 | Master          | Adsorption of some fatty acids on sodium                    | UOD         | 2006 |
|   | Iman Alabbad    | Montomorillonite clay                                       |             |      |

# Ongoing Research Supervision

| # | Degree Type    | Title                                                  | Instit<br>ution | Date         |
|---|----------------|--------------------------------------------------------|-----------------|--------------|
| 1 | Master         | Magnetic g-C₃N₄ for Photocatalytic Water Treatment and | IAU             | 2020 to date |
|   | Maram Aljizani | H <sub>2</sub> Production                              |                 |              |

#### Volunteer Work

| #  | From       | То         | Type of Volunteer                                                                                                    | Organization                                                 |
|----|------------|------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| 1. | 1/6/2020   | 1/7/2020   | Preparing the report "Measuring individual responsibility in light of the spread of the new Corona virus, Covid-19." | Social Responsibility Council in the Eastern Province        |
| 2. | 1/7/2018   | 21/7/2018  | Project manager                                                                                                      | summer program for gifted students, collaborate with Mawhiba |
| 3. | 16/11/2017 | 16/11/2017 | Workshop to gifted student under title "how to write scientific manuscript"                                          | Mawhiba                                                      |



| 4. | 7 /6/ 2015 | 9/7/2015 | Project manager           | SA-RSI international summer program for gifted students, collaborate with CEE (Center for Excellence in Education, USA), Saudi ARAMCO. |
|----|------------|----------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 5. | 2009       | 2011     | Administration assistance | national center for assessment in                                                                                                      |
|    |            |          |                           | Higher Education (Qiyas)                                                                                                               |

Last Update

31/05/2021