

Personal Data:

Name			Nationality	Place of Birth	Date of Birth	Gender	Marital Status
Frist	Middle	Family	Saudi	Domat El-Jandal	27/10/1977	Male	Married
Mosaed	Saud	Alhumaimess					
General Specialization		Physical Chemistry					
Specialization		Nanocatalysis and Materials Science					
Current Position		Dean of College of Science					
Scientific Title		Associate Professor					
Highest degree/ Date		PhD / 3/12 /2012					
IDNumber		1005901846					
College		College of science	Department			Chemistry	

Contact Data:

Address	Jouf University, College of Science, Chemistry Department	E-mail address (official)	mosaed@ju.edu.sa
Work Phone no. (Internal (phone number)	0146544422	E-mail address (personal)	
Home phone number		Personal site	
Mobile	+966553399656	Fax	
Mailbox		Postal code	

Education:

No.	Qualification	Date	Degree	University	Collage	Scientific Department	Specialization	
							General	Specific
1	Bachelor	2000	B.SC	King Saud University	Faculty of Science	Chemistry	Chemistry	Chemistry
2	Master	2007	M.Sc	King Saud University	Faculty of Science	Chemistry	Physical Chemistry	Ziegler-Natta Catalysis
3	PhD	2012	PhD	King Saud University	Faculty of Science	Chemistry	Physical Chemistry	Nano Catalysis and Material Science

Employment Qualifications:

Job	Job Title	University Degree	Workplace	Date	
				From	To
Academic	Demonstrator	Demonstrator	Teacher College	2002	2007
	Postgraduate Student (To Get Msc)	Demonstrator	King Saud University	2003	2007
	Lecturer	Lecturer	Jouf University	2007	2013
	Postgraduate Student (To Get PhD)	Lecturer	Cardiff University	2008	2012
	Assistant Professor	Assistant Professor	Jouf University	2013	6/5/2019
	Associate Professor	Associate Professor	Jouf University	8/7/5/2019	current
Other	Chemist	BSc	SABIC Complex for Research & Development	2000	2002

Participation in scientific conferences and symposiums:

No.	Title of the conference or symposium	Held in	Year
1	The Taylor Conference 2009	Cardiff United Kingdom	25/6/2009
2	Cardiff Spring Conference 2010	Cardiff United Kingdom	6/5/2010
3	Rideal Conference	Cardiff United Kingdom	19-21/4/2011
4	Cardiff Spring Conference 2011	Cardiff United Kingdom	16-17/5/2011
5	Cardiff Spring Conference 2012	Cardiff United Kingdom	14-15/5/2012
6	5 th International Chemistry Conference	King Khalid University Saudi Arabia	26-29/4/2014
7	1 st International Nano Integrated System. Poster entitled "The Effect of Support Morphology and Structure on The Catalytic Performance of Gold Nanoparticles Used for The Oxidation of Carbon Monoxide"	Graz University, Austria	3-5/12/2015
8	The fourth International Conference on Advanced Sciences, (ICAS4). Oral talk entitled "Epoxidation of Cyclooctene Using Gold Nano-Particles Supported on Carbon Derived from Olive Solid Waste	Beni-Suef University Egypt	7-11/11/2017
9	The XXI Netherlands Catalysis and Chemistry Conference. Poster entitled "Tuning The Shape of CeO ₂ Nanoparticles Using g Ionic Liquid A road towards Diverse Catalytic Performance"	Amsterdam University & Netherland Institute for Catalysis Research	2-4/3/2020
10	International Conference on New Trends in Renewable Energy and Environment for 2030 Vision (ICNTREE 2023)	Jouf University	2023/1/31-29
11	The International Conference on Olive Oile Cultivation Future and Industry (ICOFCI 2023)	Jouf University	14-15/3/2023

Supervision of Postgraduate:

No.	Thesis Title	Degree		University	Year	Collage	Department
		M.Sc.	Ph.D.				
1	Main Supervisor of M.Sc. thesis titled: Microporous Magnetic Carbon Spheres Functionalized with Metallic Nanoparticles and Their Applications in Heterogeneous Catalysis. By: Mohammed Abdullah Al Manfi Al Maradhi	√		Jouf University	10/2021	Science	Chemistry
2	Co-Supervisor of M.Sc. thesis titled: Knoevenagel Condensation Reaction over Acid-Base Bifunctional Non-Precious Metal Oxide/Metal Organic-Framework Catalysis By: Huda Ibrahim Salem Al-Jaddua	√		Jouf University	10/2021	Science	Chemistry
3	Main Supervisor of M.Sc. thesis titled: Design and synthesis of modified hybrid nanomaterials for reduction of nitroarene compounds By: ALMAHA NASER MOHAMMED ALGHOBISI	√		Jouf University	2/2023	Science	Chemistry
4	Co-Supervisor of M.Sc. thesis titled: Using Co-Cr and Ni-Cr layered double hydroxides loaded with metallic nanoparticles as catalysts for oxidation reactions By: Linah Abdulhadi Ali Alzarea	√		Jouf University	2/2023	Science	Chemistry
5	Co-Supervisor of M.Sc. thesis titled: Functionalized Titania Nanotubes/Silicate Composite Based Grafting as an Efficient Adsorbent for Removal of Organic Pollutants from Aqueous Medium By: Mohammed Saeed Khalaf Alamri	√		Jouf University	6/2022	Science	Chemistry

6	<p>Main Supervisor of M.Sc. thesis titled:</p> <p>Nano-functionalized Porous Metal–Organic Frameworks Immobilized nanoparticles for Heterogeneous Catalysis.</p> <p>By: Hala Adnan Alruwaili</p>	√		Jouf University	In Progress	Science	Chemistry
7	<p>Main Supervisor of M.Sc. thesis titled:</p> <p>Smart waste treatment of waste cooking oil for high-quality biodiesel development on a large scale using mixed metal oxides as a heterogeneous catalyst.</p> <p>By: Shahad Khalid Mohammed Alsirhani</p>	√		Jouf University	In Progress	Science	Chemistry
8							
9							
10							

Discussed Thesis:

No.	Thesis Title	Degree		University	Year	Collage	Department
		M.Sc.	Ph.D.				
1	Internal examiner for the M.Sc. thesis titled: Comparative Effect of the Different Intercalated Anions into Mg-Al layered Double Hydroxides (LDHs) for the Removal of Colored Materials from Aqueous Solutions. By: Sabirin fahad Abdullah Al-furhud	√		Jouf University	2021	Science	Chemistry
2	Internal examiner for the M.Sc. thesis titled: Preparation, Characterization and Kinetic Studies of Transition Metal Oxides Based Nano-Adsorbents for Water Depollution Applications.. By: Haifa Sultan Albogomi	√		Jouf University	2021	Science	Chemistry

Membership of specialized committees and associations:

No.	Committee	Period	Place
1	Member of the Royal Society of Chemistry		
2	Member of the Saudi Chemical Society		

Training courses and workshops:

No.	courses / workshop	Held in	Year
1	Dealing with others	SABIC Company Riyadh-Saudi Arabia	2000
2	Windows operating system	SABIC Company Riyadh-Saudi Arabia	2000
3	English language course (30 weeks)	SABIC Company Riyadh-Saudi Arabia	2000
4	English language course (30 weeks)	English Language Teaching centre in Sheffield University-Sheffield-United kingdom	2008
5	Introduction to Polymer Science	Sheffield Universit Sheffield-United Kingdom	2008
6	Gas Chromatography	Cardiff University Cardiff-United Kingdom	2009
7	Operating & using BET surface area instrument	Cardiff University Cardiff-United Kingdom	2009
8	Operating & using X-ray Diffractometer	Cardiff University Cardiff-United Kingdom	2009
9	Operating & using the Scanning Electron Microscopy	Cardiff University Cardiff-United Kingdom	2009
10	Managing Your References Using EndNote	Cardiff University Cardiff-United Kingdom	2010
11	Operating & using the Laser Raman Spectroscopy	Cardiff University Cardiff-United Kingdom	2010
12	.Operating & using the Temperature-Programmed Reduction (H ₂ -TPR) instrument	Cardiff University Cardiff-United Kingdom	2011
13	Operating & using the Thermal Gravimetric Analysis (TGA) instrument	Cardiff University Cardiff-United Kingdom	2011
14	Excel: Creating Basic Spreadsheets	Cardiff University Cardiff-United Kingdom	2012
15	Excel: Using Functions and Formulae	Cardiff University Cardiff-United Kingdom	2012
16	Excel: Using Graphs and Charts	Cardiff University	2012

		Cardiff-United Kingdom	
17	Catalysis Training Course	University of Lyon Lyon-France	28-31/8/2013
18	Power point	Jouf University Al-Jouf, Saudi Arabia	29/9-2/10/2013
19	Using smart board data show in teaching	Jouf University Al-Jouf, Saudi Arabia	2013/10/1
20	The active & useful use of internet	Jouf University Al-Jouf, Saudi Arabia	2013/10/4-2
21	Training Course on Olive & Olive Oil	Jaen University Jaen-Spain	24-28/11/2014
22	Training Course in Metal Nanoparticles: Their Synthesis, Characterisation and Applications	Cardiff University Cardiff-United Kingdom	22/7 – 5/8/2015

Skills:

Skills	1	Languages: Fluent in Arabic and English.
	2	Microsoft windows
	3	Microsoft Office
	4	Photo editing software for publication purposes
	5	Managing references software such as EndNote
	6	Graphs and charts software such as OriginLab
	7	Very good experience in using the following characterization techniques: <ul style="list-style-type: none">- BET surface area- X-ray Diffractometer- Scanning Electron Microscopy- Laser Raman Spectroscopy- Temperature-Programmed Reduction (TPR)- Thermal Gravimetric Analysis (TGA)

Community, cultural and volunteer contributions:

No.	activity	Period
1	Member of the Disciplinary Committee in the Teachers College (Jouf University)	2002
2	Member of the Final Exams Committee in the Teachers College (Jouf University)	2002
3	Member of the Attracting and International cooperation Committee in the College of Science, Jouf University	2013
4	Member of the Staff Members Committee in Chemistry Department, Jouf University.	2013
5	Member of the Study Plan Committee in Chemistry Department, Jouf University.	2013
6	Member of the Standing Conferences Committee at Jouf University.	2013-2-15
7	Member of the International Collaboration Committee at Jouf University.	2013-2015
8	Head of Chemistry Department, college of science, Jouf University.	2014-2016
9	Head of Chemicals & Radioactive Materials Unit at Jouf University.	2014-2016
10	Chairman of the Standing committee of Chemicals & Radioactive Materials at Jouf University.	2014-2016
11	Secretary of Science College Council at Jouf University.	2014-2016
12	Vice Dean of College of Science at Jouf University	2015
13	Member of the Research Central Lab Supervision Committee at Jouf University	2014
14	Chairman of the Technical Committee for Constructing and fortuning the Research Central lab at Jouf University.	2016-2019
15	Dean of the College of Science at Jouf University.	23/4/2015
16	Member of the Standing Committee of Staff Members Distinction Prizes at Jouf University.	4/2016-4/2017
17	Member of the Standing Committee of Direct Purchasing at Jouf University.	7/1/2016
18	Vice Chairman of the Standing Committee of Direct Purchasing at Jouf University	19/3/2017-3/2018
19	Member of the Standing Committee of Study Plans, Courses and Preparing for Academic Accreditation at Jouf University	7/1/2016-till now

20	Member of the Standing Committee of the Students affairs at Jouf University	7/1/2016-19/3/2018
21	Member of the Standing Committee of Labs and Educational Instruments and Materials at Jouf University	7/1/2016-18/3/2017
22	Vice Chairman of the Standing Committee of Labs and Educational Instruments and Materials at Jouf University	19/3/2017-till now
23	Member of the Standing Committee of Bioethics Jouf University.	7/1/2016-2017
24	Member of the Standing Committee of Scholarship and training at Jouf University.	7/1/2016-2017
25	Member of the Committee of Strategic Plan of the University Vice Rectorate for Academic Affairs at Jouf University.	7/1/2016-till now
26	Member of the Standing Committee of Scholarship and training Jouf University.	7/1/2016-2017
27	Member of the Engineering College Council at Jouf University.	2/11/2015-2/11/2016
28	Member of the Science and Arts College Council in Qurrayat at Jouf University.	23/11/2016-till now
29	Member of the Science and Arts College Council in Tabarjal at Jouf University.	23/11/2016-till now
30	Member of the High Committee of contracting at Jouf University.	2016-2018
31	Chairman of the High Committee of contracting at Jouf University.	21/10/2018
32	Vice Chairman of the High Committee of contracting at Jouf University.	4/2018-till now
33	Member of the Standing Committee of Study Plans, Courses and Preparing for Academic accreditation at Jouf University	1/4/2018-till now
34	Member of the High Committee of Quality	1/4/2018
35	Member of the Council of the Deanship of Scientific Research at Jouf University	4/9/2018
36	Member of the Council of the Deanship of Graduate DStudies at Jouf University	4/9/2018

Awards and honors:

No.	Award	Awarded by	Specialization	Period
1	Distinction award	Saudi Cultural Bureau in United Kingdom, United Kingdom	PhD Student	2011
2	Distinction award	Saudi Cultural Bureau in United Kingdom, United Kingdom	PhD Student	2012
3	Distinction award for the best department in scientific publications.	Jouf University	Research	2015
4	Distinction award for the best College in scientific publications.	Jouf University	Research	2018
5	Distinction award for the best College in student's activities.	Jouf University		Four Years 2015-2019

Administrative positions

No.	Position	Organization	Country	Period
1	Head of Chemistry Department	Jouf University	Saudi Arabia	2014-2016
2	Vice Dean of College of Science	Jouf University	Saudi Arabia	2015
3	Dean of College of Science	Jouf University	Saudi Arabia	2015-20/3/2021

Languages:

language	Speaking	Writing	Reading
Arabic	√	√	√
English	√	√	√

Research Interests:

Research Interests: Nano Catalysis and Material Science	
1	Synthesis and characterisation of metals nanoparticles and their use as heterogeneous catalysts in the industrial and environmental applications.
2	Synthesis of metal oxides, mixed metal oxides and other materials to use them as catalysts or supports that are expected to give enhanced catalytic performance. Various methodologies are used for this purpose such as: <ul style="list-style-type: none">- High pressure synthesis.- High temperature synthesis.- Employing structure-directing agents.
3	Synthesis of porous materials with high surface area as sufficient adsorbents for the removal of pollutants from air, water, soil ...etc. (environmental applications).
4	Study and characterisation of materials and catalysts using wide range of techniques such as: XRD, SEM, BET, TEM, STEM, Raman, TPR, TGA,...etc.

Scientific Publication:

These are some selected papers. For all scientific papers please visit the following links:

- 1- <https://scholar.google.com/citations?user=CegG4rUAAAAJ&hl=ar>
- 2- <https://www.scopus.com/authid/detail.uri?authorId=52363114900>

	Year	Journal	Title
1	2011	Journal of Materials Chemistry	W. Weng, R. Al Otaibi, <u>M. Alhumaimess</u> , M. Conte, J. Bartley, N. Dummer, G. Hutchings and C. Kiely "Controlling vanadium phosphate catalyst precursor morphology by adding alkane solvents in the reduction step of VOPO ₄ .2H ₂ O to VOHPO ₄ .0.5H ₂ O", Journal of Materials Chemistry, R-21, (2011), P.16136.
2	2012	ChemSusChem	<u>M. Alhumaimess</u> , Z. Lin, W. Weng, N. Dimitratos, N. Dummer, S. Taylor, J. Bartley, C. Kiely, G. Hutchings "Oxidation of Benzyl Alcohol by using Gold Nanoparticles Supported on Ceria Foam", ChemSusChem, R-5, (2012), P.125.
3	2013	Catal. Sci. Technol.,	Ine's Moreno, N. Dummer, J. Edwards, <u>M. Alhumaimess</u> , M. Sankar, R. Sanz, P. Pizarro, D. Serrano, and G. Hutchings "Selective oxidation of benzyl alcohol using in situ generated H ₂ O ₂ over hierarchical Au-Pd titanium silicalite catalysts", Catal. Sci. Technol., R-3, (2013), P.2425.
4	2014	Chem. Eur. J	<u>M. Alhumaimess</u> , Z. Lin, Q. He, N. Dummer, M. Conte, S. Taylor, J. Bartley, C. Kiely and G. Hutchings "Oxidation of benzyl alcohol & CO using gold nanoparticles supported on MnO ₂ nanowire microspheres", Chem Eur J, R-20, (2014), P1701.
5	2014	Acta. Poloniae pharmaceutica Drug Research	Ashraf M. Mohamed, H. R. M. Al -Qalawi, W.A. El-Sayed, W. A. A. Arafa, <u>M. S. Alhumaimess</u> , A. K. Hassan, Acta. Poloniae pharmaceutica Drug Research, 76(2015), P307.
6	2016	Catal. Sci. Technol	<u>M. Alhumaimess</u> , Z. Lin, N. Dummer, S. Taylor, J. Bartley and G. Hutchings "Highly Crystalline vanadium phosphate catalysts synthesized using poly (acrylic acid-co-maleic acid) as a structure directing agent", Catal. Sci. Technol., R-6, (2016), P2910.
7	2017	Journal of King Saud University – Science, R-29	Hamed Alshammari, <u>Mosaed Alhumaimess</u> , Mohammad Hayal Alotaibi, Abdullah S. Alshammari "Catalytic activity of bimetallic AuPd alloys supported MgO and MnO ₂ nanostructures and their role in selective aerobic oxidation of alcohols", Journal of King Saud University – Science, R-29, (2017), P561.
8	2018	Asian Journal of Chemistry	<u>M. Alhumaimess</u> , "Gold Nanoparticles Supported on carbon Derived from Solid Olive Waste for Epoxidation of Cyclooctene", Asian Journal of Chemistry, Vol.30, No. 8(2018), P1731.

9	2019	J. Molecular Liquids	Mosaed S. Alhumaimess , Obaid Aldosari, Hamed Alshammari, Mahmoud M. Kamel, Mohamed A. Betiha, Hassan M.A. Hassan, "Ionic liquid green synthesis of CeO ₂ nanorods and nano-cubes: Investigation of the shape dependent on catalytic performance" J. Molecular Liquids 279 (2019) 649–656
10	2019	Turkish Journal of Chemistry	Obaid Aldosari, Hamed Alshammari, Mosaed Alhumaimess , Ibrahim Wawata, "Catalytic hydrogenation of furfural and furfuryl alcohol to fuel additives and value-added chemicals" Turk J Chem 43 (2019) 24 – 38
11	2019	J. Sol-Gel Science and Technology	Mosaed S. Alhumaimess , Ibrahim Hotan Alsohaimi, Ayoub Abdullah Alqadami, Mahmoud Mohamed Kamel, Mu. Naushad, Tansir Ahamad, Hamed Alshammari, "Synthesis of phosphorylated raw sawdust for the removal of toxic metal ions from aqueous medium: Adsorption mechanism for clean approach" J. of Sol-Gel Science and Technology 89, (2019) 602–615
12	2019	Desalination and water treatment	Mosaed S. Alhumaimess , "Adsorption, kinetics and thermodynamics studies of safranin and methylene blue on a novel adsorbent based on phosphorylated sawdust" Desalin. Water Treat 151 (2019) 199–211
13	2019	Separation Science and Technology	Mosaed Saud Alhumaimess , "Sulfhydryl functionalized activated carbon for Pb(II) ions removal: kinetics, isotherms, and mechanism", Separation Science and Technology, 55:7 (2019) 1303-1316
14	2019	Journal of Molecular Liquids	Mosaed Saud Alhumaimess , Ibrahim Hotan Alsohaimi, Ayoub Abdullah Alqadami, Moonis Ali Khan, Mahmoud Mohamed Kamel, Obaid Aldosari, Masoom Raza Siddiqui, Abdelrazig Elfaki Hamedelnieel "Recyclable glutaraldehyde cross-linked polymeric tannin to sequester hexavalent uranium from aqueous solution" Journal of Molecular Liquids, 281 (2019) 29-38
15	2019	Reaction Kinetics, Mechanisms and Catalysis	Hamed M Alshammari, Jamal R Humaidi, Mosaed S Alhumaimess , Obaid F Aldosari, Mohammad H Alotaibi, Hassan MA Hassan, Ibrahim Wawata, "Bimetallic Au: Pd nanoparticle supported on MgO for the oxidation of benzyl alcohol", Reac Kinet Mech Cat, 128 (2019) 97–108
16	2020	Journal of Saudi Chemical Society	Mosaed S Alhumaimess , Ibrahim Hotan Alsohaimi, Hassan MA Hassan, Mohamed Y El-Sayed, Mutairah S Alshammari, Obaid F Aldosari, Hamed M Alshammari, Mahmoud M Kamel, "Synthesis of ionic liquid intercalated layered double hydroxides of magnesium and aluminum: A greener catalyst of Knoevenagel condensation" Journal of Saudi Chemical Society, 24 (2020) 321-333

17	2020	Nanomaterials	Mosaed S Alhumaimess , Amr A Essawy, Mahmoud M Kamel, Ibrahim Hotan Alsohaimi, Hassan Hassan, " Biogenic-Mediated Synthesis of Mesoporous Cu₂O/CuO Nano-Architectures of Superior Catalytic Reductive towards Nitroaromatics ", <i>Nanomaterials</i> , 10:4 (2020) 781-795
18	2020	Journal of Saudi Chemical Society	Mosaed S Alhumaimess , " Metal–Organic Frameworks and their Catalytic Applications ", <i>Journal of Saudi Chemical Society</i> , 24 (2020) 461-473
19	2020	Processes	Hamed M. Alshammari, Abdullah S. Alshammari, Jamal R. Humaidi, Salma A. Alzahrani, Mosaed S. Alhumaimess , Obaid F. Aldosari and Hassan M. A. Hassan, " Au-Pd Bimetallic Nanocatalysts Incorporated into Carbon Nanotubes (CNTs) for Selective Oxidation of Alkenes and Alcohol ", <i>Processes</i> , 8(11) (2020) 1380-1391
20	2020	Research on Chemical Intermediates	Mosaed S. Alhumaimess , Ibrahim H. Alsohaimi, Hamed M. Alshammari, Obaid F. Aldosari & Hassan M. A. Hassan, " Synthesis of gold and palladium nanoparticles supported on CuO/rGO using imidazolium ionic liquid for CO oxidation ", <i>Res Chem Intermed</i> 46 (2020) 5499–5516
21	2020	Journal of Environmental Management	Amr A. Essawy, Ibrahim Hotan Alsohaimi, Mosaed S. Alhumaimess , Hassan M. A. Hassan, Mahmoud M. Kamel, " Green synthesis of spongy Nano-ZnO productive of hydroxyl radicals for unconventional solar-driven photocatalytic remediation of antibiotic enriched wastewater ", <i>Journal of Environmental Management</i> , 271 (2020) 110961
22	2020	Research on Chemical Intermediates	Mahmoud M. Kamel, Ibrahim H. Alsohaimi, Mosaed S. Alhumaimess , Hassan M. A. Hassan, Mutairah S. Alshammari, Mohamed Y. El-Sayed, " A glassy polyvinyl alcohol/silica gel hybrid composite for safranin removal: Adsorption, kinetic and thermodynamic studies ", <i>Res Chem Intermed</i> 47 (2021) 925–944
23	2020	ACS OMEGA	Hassan M.A. Hassan, Mosaed S. Alhumaimess , Ibrahim H. Alsohaimi, Amr A. Essawy, Modather F. Hussein, Hamed M. Alshammari, and Obaid F. Aldosari, " Biogenic-Mediated Synthesis of the Cs₂O–MgO/MPC Nanocomposite for Biodiesel Production from Olive Oil ", <i>ACS omega</i> 5(43) (2020) 27811-27822
24	2020	ECS Journal of Solid State Science and Technology	Alshammari, Hamed; Abbas , Nadir ; R. Humaidi, Jamal ; A. Alzahrani, Salma ; S. Alshammari, Abdullah; S. Alhumaimess, Mosaed ; F. Aldosari, Obaid ; M. A. Hassan, Hassan, " Correlation between the properties of sol-gel synthesized graphene/titania hybrid nanostructures and their catalytic activity in selective aerobic oxidation of alcohols ", <i>ECS J. Solid State Sci. Technol.</i> 9 (2020) 123002
25	2020	Desalination and Water Treatment	Mahmoud M Kamel, Mosaed S Alhumaimess , Mohammad H Alotaibi, Ibrahim H Alsohaimi, Hassan Hassan, Hamed M Alshammari and Obaid F Aldosari " Decomposition and removal of hydrazine by Mn/MgAl-layered double hydroxides ", <i>Desalin. Water Treat</i> 205 (2020) 242-251

26	2020	Separation Science and Technology	<u>Mosaed Saud Alhumaimess</u> , "Sulphydryl functionalized activated carbon for Pb(II) ions removal, kinetics, isotherms, and mechanism", Separation Science and Technology, 55(7) (2020) 1303-1316
27	2021	Applied Sciences	Alshammari, H.M.; Aldosari, O.F.; Alotaibi, M.H.; Alotaibi, R.L.; <u>Alhumaimess, M.S.</u> ; Morad, M.H.; Adil, S.F.; Shaik, M.R.; Islam, M.S.; Khan, M.; Alwarthan, "A. Facile Synthesis and Characterization of Palladium@Carbon Catalyst for the Suzuki-Miyaura and Mizoroki-Heck Coupling Reactions", Appl. Sci., 11 (2021) 4822
28	2021	Materials	Alshammari, H.M.; Alotaibi, M.H.; Aldosari, O.F.; Alsolami, A.S.; Alotaibi, N.A.; Alzahrani, Y.A.; <u>Alhumaimess, M.S.</u> ; Alotaibi, R.L.; El-Hiti, G.A. "A Process for Hydrogen Production from the Catalytic Decomposition of Formic Acid over Iridium—Palladium Nanoparticles". <i>Materials</i> , 14 (2021) 3258
29	2021	Research on Chemical Intermediates	Mahmoud M Kamel, Ibrahim H Alsohaimi, Mosaed S Alhumaimess, Hassan Hassan, Mutairah S Alshammari, Mohamed Y El-Sayed. "A glassy polyvinyl alcohol/silica gel hybrid composite for safranin removal: Adsorption, kinetic and thermodynamic studies". <i>Res Chem Intermed</i> 47 (2021) 925–944
30	2022	Chinese Journal of Chemical Engineering	Mohamed A. Almaradhi, Hassan M.A. Hassan, <u>Mosaed S. Alhumaimess</u> , " Fe_3O_4 -carbon spheres core-shell supported palladium nanoparticles: A robust and recyclable catalyst for suzuki coupling reaction", Chinese Journal of Chemical Engineering, In Press .
31	2022	Arabian Journal of Chemistry	Huda I. Aljaddua, <u>Mosaed S. Alhumaimess</u> , Hassan M.A. Hassan, "CaO nanoparticles incorporated metal organic framework (NH ₂ -MIL-101) for Knoevenagel condensation reaction", Arabian Journal of Chemistry, 15:2 (2022) 103588
32	2022	Colloids and Surfaces A: Physicochemical and Engineering Aspects	Hassan M.A. Hassan, <u>Mosaed S. Alhumaimess</u> , Mahmoud M. Kamel, Ibrahim H. Alsohaimi, Huda I. Aljaddua, Obaid F. Aldosari, Mohammad.S. Algamdi, Rasha M.K. Mohamed, M.R. El-Aassar, "Electrospinning NH ₂ -MIL-101/PAN nanofiber mats: A promising catalyst with Lewis acidic and basic bifunctional sites for organic transformation reactions", Colloids and Surfaces A: Physicochemical and Engineering Aspects, 642 (2022) 128659,

33	2022	Journal of Molecular Liquids	Mohammed Saeed Alamri, Hassan M.A. Hassan, Mosaed S. Alhumaimess , Abdullah M. Aldawsari, Ahmed A. Alshahrani, Thamer S. Alraddadi, Ibrahim Hotan Alsohaimi, " <i>Kinetics and adsorption assessment of 1, 4-dioxane from aqueous solution by thiol and sulfonic acid functionalized titanosilicate</i> ", Journal of Molecular Liquids 362 (2022) 119786
34	2022	Separation and Purification Technology	Hassan M.A. Hassan, Mohamed A. Betiha, Mosaed S. Alhumaimess , Thamer S. Alraddadi, Shima K. Mohamed, Sherif A. Younis, Ayoub Abdullah Alqadami, Ibrahim Hotan Alsohaimi, " <i>Phosphotungestic acid and manganese containing periodic mesoporous organosilica with imidazolium ionic liquid framework: A robust and durable nanocomposite for desulfurization of aromatic sulfur in diesel fraction</i> ", Separation and Purification Technology 298 (2022) 121624
35	2022	Catalysts	Mohammed Saeed Alamri, Hassan M.A. Hassan, Mosaed S. Alhumaimess , Abdullah M. Aldawsari, Ahmed A. Alshahrani, Thamer S. Alraddadi, Ibrahim Hotan Alsohaimi, " <i>Kinetics and adsorption assessment of 1, 4-dioxane from aqueous solution by thiol and sulfonic acid functionalized titanosilicate</i> ", Journal of Molecular Liquids 362 (2022) 119786 Mosaed Saud Alhumaimess , " <i>Nickel nanoparticles decorated on glucose-derived carbon spheres as a novel non-palladium catalyst for epoxidation of olefin</i> ", Catalysts (2022), 12, 1246
36	2022	Colloids and Surfaces A	Hassan M.A. Hassan, Mosaed S. Alhumaimess , Ibrahim H. Alsohaimi, Shaimaa K. Mohamed, Obaid F. Aldosari, Thamer S. Alraddadi, Amr A. Essawy, " <i>One-pot phyto-mediated combustion technicality for synthesizing Pd adorned Cu₂O@CuO heterojunction with great efficiency in CO oxidation and epoxidation applications</i> ", Colloids and Surfaces A: Physicochemical and Engineering Aspects 654 (2022) 130056
37	2023	<u>Inorganic Chemistry Communications</u>	Ibrahim Hotan Alsohaimi, Mosaed S Alhumaimess, Ayoub Abdullah Alqadami, Gharbi Tharwi Alshammari, Rawan Fawzy Al-Olaimi, Ahmed A Abdeltawab, Mohamed Y El-Sayed, Hassan M Hassan, " <i>Adsorptive performance of aminonaphthalenesulfonic acid modified magnetic-graphene oxide for methylene blue dye: Mechanism, isotherm and thermodynamic studies</i> ", <u>Inorganic Chemistry Communications</u> 147 (2023) 110261
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