

Personal Data:

Name			Nationality	Place of Birth	Date of Birth	Gender	Marital Status
Frist	Middle	Family	Saudi	Dammam, Saudi Arabia	02/10/1980	Male	Married
Ibrahim	Hotan	Alsohaimi					
General Specialization		Chemistry					
Specialization		Analytical Chemistry					
Current Position			Head of Chemistry Department				
Scientific Title			Associate Professor				
Highest degree/ Date			PhD. / 2015				
IDNumber			1013225097				
College			Science	Department	Chemistry		

Contact Data:

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Mailbox		Postal code	

Education (Bachelor, Master, PhD, Other):

No.	Qualification	Date	Degree	University	Collage	Scientific Department	Specialization	
							General	Specific
1	Chemistry	2003	Bachelor	Umm ALQura University	Science	Chemistry	Chemistry	Chemistry
2	Chemistry	2012	Master	King Saud University	Science	Chemistry	Chemistry	Chemistry
3	Analytical Chemistry	2015	PhD	King Saud University	Science	Chemistry	Chemistry	Analytical Chemistry

Employment Qualifications:

Job	Job Title	University Degree	Workplace	Date		Work duty	Years of Experience
				From	To		
Academic	Associate Professor	PhD	Jouf University	2021 (November)	present	Teaching/ Research	1
Academic	Assistant Professor	PhD	Jouf University	2017	2021 (November)	Teaching/ Research	4
Other	Chemist	Bachelor/ Master	Saline Water Conversion Corporation (SWCC)	2006	2017	Supervisor	11

Participation in scientific conferences and symposiums

No.	Title of the conference or symposium	Held in	Year
1	12 th International Symposium on Hyphenated Techniques in chromatography	Belgium	2012
2	5 th Saudi science conference	Saudi Arabia	2012
3	14th EuCheMS International Conference on Chemistry and the Environment (ICCE)	Spain	2013
4	20 th International Mass Spectrometry Conference (IMSC)	Switzerland	2014
5	Environmental Technology for Impact (ETEI2015)	Netherland	2015
6	18 th international conference of the Union of Arab Chemists	Emirates	2017
7	the 9 th Eastern European young water professionals conference	Hungary	2017
8	Pittsburgh conference and exhibition (Pittcon 2018)	USA	2018
9	7 th European society for chemical and Molecular Science congress (7 th EuCheMS)	UK	2018
10	30 th International Symposium on the Chemistry of Natural Products (ISCNP 30)	Greece	2018
11	4 th International Conference on Ionic Liquids in Separation and Purification Technology Conference (ILSE 2019)	Spain	2019

Supervision of undergraduate:

No.	Thesis Title	Degree		University	Year	Collage	Department
		M.Sc.	Ph.D.				
1	Synthesis of High-performance antifouling hybrid ultrafiltration membranes combining sulfonated Polyethersulfone and Titania Nanotube for water purification	√		Jouf University	2020–2021	Science	Chemistry
2	Functionalized titania nanotubes/Silicate composite based grafting as an efficient adsorbent for removal of organic pollutants from aqueous medium	√		Jouf University	2021–2022	Science	Chemistry
3							
4							

Membership of specialized committees and associations:

No.	Committee	Period	Place
1	Saudi Chemical Society	2012–Present	Saudi Arabia
2			

Training courses and workshops:

No.	courses / workshop	Specialization	Held in	Year
1	Building and applying performance indicators in academic departments and universities	Academic Quality	Riyadh	2021
2	Harvesting Water from Desert Air	Science– Chemistry	King Saud University, Saudi Arabia	2020
3	Nanomaterials for Solid Phase Extraction	Science– Chemistry	King Saud University, Saudi Arabia	2020
4	Academic writing and publishing	Science– Chemistry	King Khalid University, Saudi Arabia	2020
5	Renewable Energy Resources: Prospects and Challenges	Science– Chemistry	Juof, Saudi Arabia	2019
6	Effective Personal Productivity		Juof, Saudi Arabia	2018
7	How to be creative		Jeddah, Saudi Arabia	2016
8	Change management		Jeddah, Saudi Arabia	2009
9	MS word 2003		Jubail, Saudi Arabia	2009
10	Decision making skill		Jeddah, Saudi Arabia	2009
11	Identify of work priorities		Jeddah, Saudi Arabia	2008
12	Environmental Chemistry		Jubail, Saudi Arabia	2008
13	Influence on others		Jeddah, Saudi Arabia	2008
14	Successful Supervision		Jeddah, Saudi Arabia	2008

15	MS excel 2003		Jubail, Saudi Arabia	2008
16	Stress and time management		Abha, Saudi Arabia	2008
17	Leadership and motivation		Khobar, Saudi Arabia	2008

Skills:

Skills	1	MS Windows
	2	MS Office
	3	Internet

Community, cultural and volunteer contributions:

No.	Activity	Type of activity	Period
1	Parsley contamination with Pesticides in Jouf region	Co-PI	3 Months
2	Olive oil Festival committee in College of Science, Jouf University	Head of the committee	10 days
3	Member in the Advisory board of College of Science at Prince Sattam University	Member	Since the academic year 1439-1440

Awards and honors:

No.	Award	Awarded by	Specialization	Period
1	Excellence awards in Scientific research	King Saud University		2014

Administrative positions

No.	Position	Organization	Country	Period
1	Head of Chemistry Department	Jouf University	Saudi Arabia	2018 to present
2	Head of Central Lab	Jouf University	Saudi Arabia	2019 to 2020

Languages:

Language	Speaking	Writing	Reading
Arabic	Excellent	Excellent	Excellent
English	Very good	Very good	Very good

Authoring Books

No.	Book Title	ISBN	Co-Author	Edition	Number of Pages	Book Language	Publication Date
1	Ultra Performance Liquid Chromatography Mass Spectrometry: Evaluation and Applications in Food Analysis	9781466591547		First	480	English	2014

Scientific Publication:

No.	Title	Publisher	Year of Publication
1	Determination of bromate in drinking water by ultra-performance liquid chromatography-tandem mass spectrometry	Journal of Separation Science, Willy	2012
2	An ultra performance liquid chromatography- electrospray ionization-mass spectrometry method for the rapid analysis of nitrate in drinking water	Analytical methods, RSC	2013
3	Equilibrium, kinetics and thermodynamic studies for the removal of organophosphorus pesticide using Amberlyst-15 resin: Quantitative analysis by liquid chromatography-mass spectrometry	Journal of Industrial and Engineering Chemistry, Elsevier	2014
4	Quantitative analysis of bromate in non alcoholic beer using ultra performance liquid chromatography-electrospray ionization mass spectrometry	Analytical methods, RSC	2014
5	Quantitative determination of methylene blue in environmental samples by solid-phase extraction and ultra-performance liquid chromatography tandem mass spectrometry: a green approach	RSC, Adv., RSC	2014
6	Solid phase extraction and ultra performance liquid chromatography-tandem mass spectrometric identification of carcinogenic/mutagenic heterocyclic amines in cooked camel meat	RSC, Adv., RSC	2015
7	Synthesis, characterization, and application of Fe-CNTs nanocomposite for BrO_3^- remediation from water samples	Journal of Industrial and Engineering Chemistry, Elsevier	2015
8	Synthesis, characterization of PMDA/TMSPEDA hybrid nano-composite and its applications as an adsorbent for the removal of bivalent heavy metals ions	Chemical Engineering Journal, Elsevier	2015

9	Removal of BrO ₃ ⁻ from drinking water samples using newly developed agricultural waste-based activated carbon and its determination by ultra-performance liquid chromatography– mass spectrometry	Environmental Science and Pollution Research, Springer	2015
10	Triethylenetetramine modified multiwalled carbon nanotube for efficient enrichment of Pb(II), Cu(II), Ni(II) and Cd(II) before FAAS detection	RSC, Adv., RSC	2015
11	Effect of natural food condiments on carcinogenic/mutagenic heterocyclic amines formation in thermally processed camel meat	Journal of Food Processing and Preservation, Wiley	2017
12	Antifouling hybrid ultrafiltration membranes with high selectivity fabricated from polysulfone and sulfonic acid functionalized TiO ₂ nanotubes	Chemical Engineering Journal, Elsevier	2017
13	Preconcentration of Heavy Metals on Multiwalled Carbon Nanotubes in water samples prior to Analysis using FAAS	Desalination and Water Treatment, Taylor and Francis	2017
14	Development of activated carbon from Phoenix dactylifera fruit pits: Process optimization, characterization, and methylene blue adsorption	Desalination and Water Treatment, Taylor and Francis	2017
15	Dodecyl sulfate chain anchored bio-char to sequester triaryl methane dyes: Equilibrium, kinetics, and adsorption mechanism	Desalination and Water Treatment, Taylor and Francis	2017
16	Occurrence of acrylamide carcinogen in Arabic coffee Qahwa, coffee and tea from Saudi Arabian market	Scientificreports, Nature	2017
17	Quantitative analysis of some inorganic anions (Nitrate and Nitrite) in metropolitan and bottled water samples using ultra-performance liquid chromatography/electrospray ionization mass spectrometry	Desalination and Water Treatment, Taylor and Francis	2018
18	Spectrophotometric determination of trace-level bromate in drinking water after post-column reaction with pararosaniline based on multiwalled carbon	International Journal of Environmental Analytical	2018

	nanotubes	Chemistry, Taylor and Francis	
19	Efficient removal of manganese ions from aqueous medium using a recyclable polymeric nanocomposite: A study of adsorption parameters and thermodynamics	Desalination and Water Treatment, Taylor and Francis	2018
20	Evaluation of bromate formation by ozone and chlorine drinking water disinfection in Saudi Arabia	Desalination and Water Treatment, Taylor and Francis	2019
21	Synthesis of phosphorylate draw sawdust for the removal of toxic metal ions from aqueous medium: adsorption mechanism for clean approach	Journal of Sol-Gel Science and Technology, Springer	2019
22	Heteroatom-doped magnetic hydrochar to sequester post-transition and transition metals from water: synthesis, characterization, and adsorption studies	Chemosphere, Elsevier	2019
23	Recyclable Glutaraldehyde Cross-linked Polymeric Tannin to Sequester Hexavalent Uranium from Aqueous Solution	Journal of Molecular Liquids, Elsevier	2019
24	Diaqua oxalato strontium(II) complex as a precursor for facile fabrication of Ag-NPs@SrCO ₃ , characterization, optical properties, morphological studies and adsorption efficiency	Journal of Coordination Chemistry, Taylor and Francis	2019
25	Fabrication of Graphene Oxide incorporated Polyethersulfone Hybrid Ultrafiltration Membranes for Humic Acid Removal	Separation and purification technology, Elsevier	2019
26	Oral administration of a potassium bromate dosage: Determination and evaluation of accumulated bromate on the liver of male mice	Drug and Chemical Toxicology, Taylor and Francis	2019

27	Adsorption kinetics, isotherm and reusability studies for the removal of cationic dye from aqueous medium using arginine modified activated carbon	Journal of Molecular Liquids, Elsevier	2019
28	Emergence of mutagenic/carcinogenic heterocyclic amines in traditional Saudi chicken dishes prepared from local restaurants	Food and Chemical Toxicology, Elsevier	2019
29	Removal of phenol and Bisphenol A by immobilized Laccase on poly (Acrylonitrile-coStyrene/Pyrrrole) nanofibers	Separation Science and Technology	2019
30	THE IMPACT OF SOME BIOREGULATORS ON GROWTH, CHEMICAL CHARACTERS AND RADICAL SCAVENGING PROPERTIES OF ONION VOLATILE OIL	Pak. J. Agri. Sci.	2019
31	Microencapsulation of Date Seed Oil by Spray-drying for Stabilization of Olive Oil as a Functional Food	Asian J. Sci. Res.	2019
32	Solvent extraction and gas chromatography–mass spectrometric determination of probable carcinogen 1,4–dioxane in cosmetic products	Scientificreports	2020
33	The rejection of mono– and –di valent ions from aquatic environment by MWNT/Chitosan buckypaper Composite membranes: influences of chitosan concentrations	Separation and purification technology	2020
34	A novel composite silver nanoparticles loaded calcium oxide stemming from egg shell recycling: A potent photocatalytic and antibacterial activities	Journal of Cleaner Production	2020
35	Green synthesis of silver immobilized titania nanoparticles/mesoporous silica nanospheres for a robust photocatalytic wastewater purification under visible irradiation	Materials Chemistry and Physics	2020
36	On the electrocatalytic reduction of CO ₂ using Cu–nanoparticles decorating Au electrode	Desalination and Water Treatment	2020
37	New spectrophotometric protocol using tetra– thiosemicarbazone derivative chelating (TTSC) for the assessment of trace level of cadmium(II) in drinking water	International Journal of Environmental Analytical Chemistry	2020

38	Assessment of Trace Elements in Urban Road Dust of a City in a Border Province Concerning Their Levels, Sources, and Related Health Risks	Archives of Environmental Contamination and Toxicology	2020
39	Adsorptive performance of aminoterephthalic acid modified oxidized activated carbon for malachite green dye: mechanism, kinetic and thermodynamic studies	Separation Science and Technology	2020
40	Synthesis of ionic liquid intercalated layered double hydroxides of magnesium and Aluminum: A greener catalyst of Knoevenagel condensation	Journal of Saudi Chemical Society	2020
41	Green synthesis of spongy Nano-ZnO productive of hydroxyl radicals for unconventional Solar-driven photocatalytic remediation of antibiotic enriched wastewater	Journal of Environmental Management	2020
42	Biogenic-Mediated Synthesis of Mesoporous Cu ₂ O/CuO Nano-Architectures of Superior Catalytic Reductive towards Nitroaromatics	Nanomaterials	2020
43	Nanofiltration membranes prepared from pristine and functionalised multiwall carbon nanotubes/biopolymer composites for desalination applications	Journal of Materials Research and Technology	2020
44	Development of activated carbon-impregnated alginate*β-cyclodextrin/gelatin beads for highly performance sorption of 2,4-dichlorophenol from wastewater	Journal of Materials Research and Technology	2020
45	Decomposition and removal of hydrazine by Mn/ MgAl-layered double hydroxides	Desalination and Water Treatment	2020
46	Activated carbon/MOFs composite: AC/NH ₂ -MIL-101(Cr), synthesis and application in high performance adsorption of p-nitrophenol	Journal of Saudi Chemical Society	2020
47	Mechanically stable membranes of polyacrylic acid-grafted chitosan-functionalized carbon nanotubes with remarkable water storage capacity in	Journal of Applied Polymer Science	2020

	sandy soils		
48	Biogenic-Mediated Synthesis of the Cs ₂ O–MgO/MPC Nanocomposite for Biodiesel Production from Olive Oil	ACS Omega	2020
49	New spectrophotometric protocol using tetra- thiosemicarbazone derivative chelating (TTSC) for the assessment of trace level of cadmium(II) in drinking water	INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY	2020
50	Simultaneous Determination of Isothiazolinones and Parabens in Cosmetic Products Using Solid-Phase Extraction and Ultra-High Performance Liquid Chromatography/Diode Array Detector	Pharmaceuticals	2020
51	Synthesis of gold and palladium nanoparticles supported on CuO/rGO using imidazolium ionic liquid for CO oxidation	Research on Chemical Intermediates	2020
52	Adsorption of Cr(VI) using α -Fe ₂ O ₃ coated hydroxy magnesium silicate (HMS): isotherm, thermodynamic and kinetic study	INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY	2021
53	Analytical detection methods for diagnosis of COVID-19: developed methods and their performance	BIOTECHNOLOGY & BIOTECHNOLOGICAL EQUIPMENT	2021
54	Evaluating the performance of chitosan and chitosan-palm membrane for water treatment: preparation, characterization and purification study	Journal of Taibah University for Science	2021
55	Nanostructured Palladacycle and its Decorated Ag-NP Composite: Synthesis, Morphological Aspects, Characterization, Quantum Chemical Calculation and Antimicrobial Activity	Arabian Journal for Science and Engineering	2021
56	Tailoring an efficient nanocomposite of activated carbon-layered double hydroxide for elimination of water-soluble dyes	Journal of Alloys and Compounds	2021

57	Adsorptive Performance of Tetracarboxylic Acid-modified Magnetic Silica Nanocomposite for Recoverable Efficient Removal of Toxic Cd(II) from Aqueous Environment: Equilibrium, Isotherm, and Reusability studies	Journal of Molecular Liquids	2021
58	Multiuse silicon hybrid polyurea-based polymer for highly effective removal of heavy metal ions from aqueous solution	International Journal of Environmental Science and Technology	2021
59	Remediation and detoxification of water samples contaminated with 2, 4, 6-trichlorophenol by gamma radiation and ozonation	Radiation Physics and Chemistry	2021
60	Selective and efficient sequestration of Cr(VI) in ground water using trimethyloctadecylammonium bromide impregnated on Artemisia monosperma plant powder	Journal of the Taiwan Institute of Chemical Engineers	2021
61	Photocatalytic Degradation of Methylene Blue and Antibacterial Activity of Mesoporous TiO ₂ -SBA-15 Nanocomposite Based on Rice Husk	Adsorption Science & Technology	2021
62	Fabrication of novel valorized ecofriendly olive seed residue/anthracite/chitosan composite for removal of Cr (VI): kinetics, isotherms and thermodynamics modeling	Cellulose	2021
63	Antifouling efficiency and high-flux ultrafiltration membrane comprising sulfonated poly (ether sulfone) and TNTs-g-PSPA nanofiller	Journal of the Taiwan Institute of Chemical Engineers	2021
64	Towards superior permeability and antifouling performance of sulfonated polyethersulfone ultrafiltration membranes modified with sulfopropyl methacrylate functionalized SBA-15	Chinese Journal of Chemical Engineering	2021
65	Fabrication of sulfonated polyethersulfone ultrafiltration membranes with an excellent antifouling performance by impregnating with polysulfopropyl acrylate coated ZnO nanoparticles	Environmental Technology & Innovation	2022
66	Validated spectrophotometric assessment of 1,4-dioxane in drinking water by amionhydroxynaphthlene sulfonic acid (AHSA)	International Journal of Environmental Analytical Chemistry	2022
67	Synthesis, characterization, and heavy-ion rejection rate efficiency of PVA/MWCNTs and Triton X-100/MWCNTs Buckypaper membranes	Journal of Materials Research and Technology	2022
68	Quantitative assessment of phosphate food additive in frozen and chilled chicken using spectrophotometric approach combined	Food Chemistry	2022

	with graphitic digestion		
69	Physicochemical properties and combustion kinetics of food waste derived hydrochars	Journal of King Saud University – Science	2022
70	Inhibitory effect of culinary herbs Za'atar (blend of thyme, sesame seeds and sumac) marinades on the formation of polar and non-polar heterocyclic amines carcinogen in fried beef patties: Determination by SPE/UPLC-MS/MS	Journal of King Saud University – Science	2022
71	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	2022
72	Comparative Investigation of the Physicochemical Properties of Chars Produced by Hydrothermal Carbonization, Pyrolysis, and Microwave-Induced Pyrolysis of Food Waste	Polymers	2022
73	A Treatment of Wastewater Containing Safranin O Using Immobilized Myriophyllum spicatum L. onto Polyacrylonitrile/Polyvinylpyrrolidone Biosorbent	Journal of Inorganic and Organometallic Polymers and Materials	2022

Projects List

Project	Funded by	Year	Position
Determination of Acrylamide in Heat-Processed Foodstuffs by Solid-Phase Extraction/Ultra-Performance Liquid Chromatography-Mass Spectrometry	King Abdulaziz City for Science and Technology	2015-2017	Co-PI
Quantitative Analysis of Heterocyclic Amines Carcinogens in Cooked Meat from Aljouf Region of Saudi Arabia	Deanship of Scientific research-Jouf University	2018-2019	PI
An efficient approach for water purification and removal of heavy	International Collaboration Initiative, Ministry of Education	2019	PI

metals using newly developed polymer coated carbon nanotube composites			
FOOD WASTE FOR THE PRODUCTION OF BIOFUELS AND BIOCHAR	International Collaboration Initiative, Ministry of Education	2019	Co-PI
Self-Assembled Mixed Ionic & Electronic Conducting Ceramic Film to Protect Li-Anode	International Collaboration Initiative, Ministry of Education	2019	Co-PI
Advanced Technique of Controlling Irrigation Water by Using Highly Absorbent Polymer-Clay Composite Materials	Deanship of Scientific research-Jouf University	2019-2020	PI
A facile approach for capturing heavy metals from wastewater using newly fabricated polymer-clay nanocomposites	Deanship of Scientific research-Jouf University	2019-2020	Co-PI
Synthesis and characterization a novel magnetic nanocomposite for removal of toxic metal ions from aqueous medium	Deanship of Scientific research-Prince Sattam University	2019-2020	Co-PI
Novel nanocomposites with dual function for antibacterial and photo-degradation of dyes from wastewater of Saudi Arabia textile industries	Deanship of Scientific research-University of Bisha	2020-2021	Co-PI
Fabrication and investigation of High-performance antifouling hybrid ultrafiltration membranes comprising sulfonated Polyethersulfone and mesoporous silica/aminated graphene for water purification	Deanship of Scientific research-University of Bisha	2020-2021	Co-PI

Research Groups

Research Group	Position	Date	No. Of Research Group
Material Science Technology (MST)	Co-PI	2019	G/02/40
Production of efficient carbon and clay-based adsorbents for the removal of emerging contaminants (endocrine disruptors) from water	Co-PI	2019-2020	Prince Sattam University

Patents

Title	Date of Patent	Patent No.
MAGNETIC POLYMER NANOCOMPOSITE FOR REMOVAL OF DIVALENT HEAVY METAL IONS FROM WATER	02/04/2019	US 10,245,576 B1

References

No.	Name	Job	Address	E-Mail
1	Dr. Zeid Abdullah Alothman	Professor	Chemistry Department, King Saud University	zaothman@ksu.edu.sa
2	Dr. Jenny Lawler	Assistant Professor	School of Biotechnology, Dublin City University	jenny.lawler@dcu.ie
3	Dr. Mohammad Rizwan Khan	Associate Professor	Chemistry Department, King Saud University	mrkhan@ksu.edu.sa
4	Dr. Mohammad Abulhassan Abdalla	Associate Professor	Chemistry Department, King Saud University	maabdall@ksu.edu.sa