

## CURRICULUM VITAE

### PERSONAL DATA

<b>Name</b>	Babiker Yagoub Elhadi Abdulkhair
<b>Nationality</b>	Sudanese
<b>Position</b>	Lecturer
<b>E-Mail</b>	<a href="mailto:byabdulkhair@imamu.edu.sa">byabdulkhair@imamu.edu.sa</a> ; <a href="mailto:babiker35.by@gmail.com">babiker35.by@gmail.com</a>
<b>Phone</b>	00966542058188

### EDUCATION

Year	Academic Degree	Institution
2016	PhD - Analytical Chemistry	Sudan University of Science and Technology
2010	MSc - Analytical Chemistry	Sudan University of Science and Technology
2007	PGD - Chemistry	Sudan University of Science and Technology
2001	BSc - Chemistry laboratories	Sudan University of Science and Technology

### WORK EXPERIENCE

Period	Position	Address
Since 8/2013	Lecturer	Department of Chemistry - College of Science - Imam Mohammad Ibn Saud Islamic University
1/2013 -8/2013	Head of Chemistry branch, Department of Science	Sudan University for Science and Technology, College of Education
2010 -2013	Lecturer	Sudan University for Science and Technology, College of Technology- department of chemistry laboratories
2011 - 2013	QC and R&D Supervisor	Blue Nile Factory for Pharmaceuticals
2007 - 2010	Teaching assistant (part-time)	- Sudan University for Science and Technology – College of Technology- department of chemistry laboratories - Omdurman Islamic University– College of

		Science and Technology- department of chemistry - Sudan University for Science and Technology – College of Science- department of chemistry laboratories
2003 - 2007	T.A Demonstrator	Khartoum College of Medicinal Science, Faculty of Pharmacy, Department of pharmaceutical chemistry
2002 - 2003	QC Staff	Waffra Pharma Laboratories for Pharmaceutical Industries

## RESEARCH INTERESTS

- Optimization and simplification of methods for synthesizing nanomaterials.
- Development and optimization of analysis methods.
- Water treatment and remediation.

## PUBLICATIONS

### Patents:

\* US patent application No. 17939601, Confirmation No. 7608, METHOD OF FABRICATING METAL OXIDE NANOMATERIALS USING A THERMALLY DECOMPOSABLE SOLID SUBSTRATE.

**Babiker Y Abdulkhair** and MR Elamin

\* US patent application No. 17939557, Confirmation No. 8258, METHOD OF PRODUCING CARBON NANOTUBES.

**Babiker Y Abdulkhair**, FK Algethami and MR Elamin.

In silico selection of an aptamer for the design of aptamer–modified magnetic beads bearing ferrocene co–immobilized label for capacitive detection of acetamiprid  
FK Algethami, A Rabti, M Mastouri, SB Aoun, **BY Abdulkhair**, N Raouafi, Talanta, 124445

2023

Chemical Composition, Toxicity and Repellency of Inula graveolens Essential Oils from Roots and Aerial Parts against Stored-Product Beetle Tribolium castaneum (Herbst) M Ben Mustapha, FK Algethami, MR Elamin, **BY Abdulkhair**, I Chaieb; Chemistry & Biodiversity, e202200978

2023

Removal of ciprofloxacin and indigo carmine from water by carbon nanotubes fabricated from a low-cost precursor: Solution parameters and recyclability; MR Elamin, **BY Abdulkhair**, AO Elzupir, Ain Shams Engineering Journal, 101844

2023

Application of Synthesized Vanadium–Titanium Oxide Nanocomposite to Eliminate Rhodamine-B Dye from Aqueous Medium  
MR Elamin, **BY Abdulkhair**, NY Elamin, KH Ibnaouf, H Idriss, R Bakheit; Molecules 28 (1), 176

2022

Excellent Adsorption of Dyes via MgTiO<sub>3</sub>@g-C<sub>3</sub>N<sub>4</sub> Nanohybrid: Construction, Description and Adsorption Mechanism  
A Modwi, MR Elamin, H Idriss, NY Elamin, FA Adam, AE Albadri, **BY Abdulkhair**; Inorganics 10 (11), 210

2022

Sweep-Out of Tigecycline, Chlortetracycline, Oxytetracycline, and Doxycycline from Water by Carbon Nanoparticles Derived from Tissue Waste; RS Almufarij, <b>BY Abdulkhair</b> , M Salih, NM Alhamdan; Nanomaterials 12 (20), 3617	2022
New Synthetic Quinaldine conjugates: Assessment of their Anti-cholinesterase, Anti-tyrosinase and Cytotoxic Activities, and Molecular Docking Analysis M Zayene, FK Algethami, HN Abdelhamid, MR Elamin, <b>BY Abdulkhair</b> , ...; Arabian Journal of Chemistry, 104177	2022
Optimization, Nature, and Mechanism Investigations for the Adsorption of Ciprofloxacin and Malachite Green onto Carbon Nanoparticles Derived from Low-Cost Precursor via a Green ...; RS Almufarij, <b>BY Abdulkhair</b> , M Salih, H Aldosari, NW Aldayel; Molecules 27 (14), 4577	2022
Chitosan-CdS Quantum Dots Biohybrid for Highly Selective Interaction with Copper (II) Ions F K. Algethami, I Saidi, H Ben Jannet, M Khairy, <b>BY Abdulkhair</b> , ..., ACS Omega	2022
Selective Naked-eyes Chemosensing of Cu <sup>2+</sup> ions using Chitosan-CdS Quantum Dots Biohybrid, Hani Nasser Abdelhamid, Faisal K Algethami, Ilyes Saidi, Hichem Ben Jannet, Mohamed Khairy, <b>Babiker Y Abdulkhair</b> , Youssef O Al-Ghamdi	2022
Spontaneous Adsorption and Efficient Photodegradation of Indigo Carmine under Visible Light by Bismuth Oxyiodide Nanoparticles Fabricated Entirely at Room Temperature, Mohamed R Elamin, Khalid H Ibnaouf, Nuha Y Elamin, Fatima A Adam, Abdulrahman H Alolayan, Babiker Y Abdulkhair, Inorganics 10 (5), 65.	2022
Highly selective removal of cationic dyes from wastewater by MgO nanorods, MG Ghoniem, FAM Ali, <b>BY Abdulkhair</b> , MRA Elamin, AM Alqahtani, ..., Nanomaterials 12 (6), 1023	2022
DFT-D4 Insight into the Inclusion of Amphetamine and Methamphetamine in Cucurbit [7] uril: Energetic, Structural and Biosensing Properties; FK Algethami, I Saidi, HN Abdelhamid, MR Elamin, <b>BY Abdulkhair</b> , ...; Molecules 26 (17), 5214.	2022
Impact of Sn ions on structural and electrical description of TiO <sub>2</sub> nanoparticles, M Salih, M Khairy, <b>B Abdulkhair</b> , MG Ghoniem, N Ibrahim, MAB Aissa, ...; Zeitschrift für Naturforschung A 76 (9), 835-846	2021
Fast fabrication of bismuth oxyiodide/carbon-nanofibers composites for efficient anti-proliferation of liver and breast cancer cells. FK Algethami, MR Elamin, <b>B Abdulkhair</b> , M Al-Zharani, NAS Qarah, ..., Zeitschrift für anorganische und allgemeine Chemie	2021
Simple preparation of a sunshine -like bismuth oxyiodide nanosheets for photocatalytic degradation of organic pollutant under sunlight, <b>BYA</b> F. K. Algethami, M. R. Elamin, Journal of Optoelectronic and Biomedical Materials 13 (2), 57- 65.	2021
Linear and nonlinear investigations for the adsorption of paracetamol and metformin from water on acid-treated clay, MR Elamin, <b>BY Abdulkhair</b> , FK Algethami, L Khezami, Scientific Reports 11 (1), 1-13	2021
Synthesis and characterization of functionalized carbon nanofibers for efficient removal of highly water-soluble dextromethorphan and guaifenesin from environmental water samples, MR Elamin, AO Elzupir, <b>BY Abdulkhair</b> , Environmental Nanotechnology, Monitoring & Management 15, 100397.	2021
Trifluoromethylated Flavonoid-Based Isoxazoles as Antidiabetic and Anti-Obesity Agents: Synthesis, In Vitro $\alpha$ -Amylase Inhibitory Activity, Molecular Docking and Structure ... FK Algethami, I Saidi, HN Abdelhamid, MR Elamin, <b>BY Abdulkhair</b> , ..., Molecules 26 (17), 5214.	2021
Preparation and Characterization of Glycidyl Polymethacrylate Monolith Column and its Application for Simultaneous Determination of Paracetamol and Chlorzoxazone in Their Combined Pharmaceutical Formulations, Mutaz E Salih, Ahmad Aqel, <b>Babiker Y Abdulkhair</b> ,	2021

Munir S Obbed, Zeid A ALOthman, Yacine Badjah-Hadj-Ahmed, Mohamad A Abdulaziz, Journal of Analytical Chemistry 75 (11), 1435-1442	
Preparation and Characterization of Glycidyl Polymethacrylate Monolith Column and its Application for Simultaneous Determination of Paracetamol and Chlorzoxazone in Their ... ME Salih, A Aqel, <b>BY Abdulkhair</b> , MS Obbed, ZA ALOthman, ..., Journal of Analytical Chemistry 75 (11), 1435-1442	2020
Synthesis and characterization of functionalized carbon nanofibers for efficient removal of highly water-soluble dextromethorphan and guaifenesin from environmental water samples MR Elamin, AO Elzupir, <b>BY Abdulkhair</b> ; Environmental Nanotechnology, Monitoring & Management, 100397	2020
Adsorption Behavior of Barium Ions onto ZnO Surfaces: Experiments Associated with DFT Calculations, <b>B Abdulkhair</b> , M Salih, A Modwi, F Adam, N Elamin, M Seydou, S Rahali; Journal of Molecular Structure, 128991	2020
Health risk from aflatoxins in processed meat products in Riyadh, KSA AO Elzupir, <b>BY Abdulkhair</b> ; Toxicon	2020
Simplistic Synthesis and Enhanced Photocatalytic Performance of Spherical ZnO Nanoparticles Prepared from Arabinose Solution; <b>BY Abdulkhair</b> , ME Salih, NY Elamin, AMA Fatima, A Modwi; Zeitschrift für Naturforschung A 74 (10), 937-944	2019
Insight to aspirin sorption behavior on carbon nanotubes from aqueous solution: Thermodynamics, kinetics, influence of functionalization and solution parameters MR Elamin, <b>BY Abdulkhair</b> , AO Elzupir; Scientific reports 9 (1), 1-10	2019
FAST AND GREEN SYNTHESIS OF Sn/TiO <sub>2</sub> PHOTOCATALYST AND IT'S BI-FUNCTIONAL COMPETENCE AS ADSORBENT AND PHOTOCATALYST.; A Modwi, <b>BY Abdulkhair</b> , ME Salih, NY Elamin, AM Fatima; Digest Journal of Nanomaterials & Biostructures (DJNB) 14 (2)	2019
COMPREHENSION TO DEXTROMETHORPHAN AND GUAIFENESIN ANTIBIOTICS ADSORPTION ON ACTIVATED CHARCOAL FROM WATER: KINETICS, THERMODYNAMICS, AND SOLUTION PARAMETERS; <b>BY ABDULKHAIR</b> , MR ELAMIN, AO ELZUPIR; Journal of Optoelectronic and Biomedical Materials Vol 11 (2), 19-27	2019
In situ non-catalyst synthesis of multiwall carbon nanotubes and nanofibers on commercial stainless steel cylinder; KK Taha, MR Elamin, <b>BY Abdulkhair</b> Journal of Porous Materials 26 (2), 525-531	2019
Preparation of Large Carbon Nanofibers on a Stainless Steel Surface and Elucidation of their Growth Mechanisms; MR Elamin, KK Taha, <b>BY Abdulkhair</b> , L Khezami, Zeitschrift für Naturforschung A 74 (3), 253-258	2019
Simultaneous determination of paracetamol and chlorzoxazone in their combined pharmaceutical formulations by reversed-phase capillary liquid chromatography using a ... ME Salih, A Aqel, <b>BY Abdulkhair</b> , ZA Alothman, MA Abdulaziz, ...; Journal of chromatographic science 56 (9), 819-827	2018
Effect of urea on the shape and structure of carbon nanotubes MR Elamin, <b>BY Abdulkhair</b> , KK Taha; Zeitschrift für Naturforschung A 73 (2), 113-120	2018
An Ultrasound Assessed Extraction Combined with Ion-Pair HPLC Method and Risk Assessment of Nitrite and Nitrate in Cured Meat; <b>BY Abdulkhair</b> , AO Elzupir, AS Alamer; Journal of analytical methods in chemistry 2018	2018
Development and Validation of Isocratic High Performance Liquid Chromatography Methods for Simultaneous Determination of Antihypertensive Combination Drugs <b>BYE Abdulkhair</b> ; Sudan University of Science and Technology	2016

Development and Validation Of A Simple Isocratic HPLC-UV Method For Simultaneous Determination Of Amlodipine Besylate And Losartan Potassium In Their Combined Tablet Dosage Forms; <b><u>BY Abdulkhair</u></b>	2016
Development and Validation Of A Simple, Quick And Rugged Isocratic HPLC-UV Method for the Detection of Valsartan and Hydrochlorothiazide in Their Combined Pharmaceutical ... <b><u>BY Abdulkhair</u></b> , MA Abdulaziz	2016