

CURRICULUM VITAE

PERSONAL DATA

Name	Algethami, Faisal Khuwayshan L
Nationality	Saudi
Position	Professor
E-Mail	falgethami@imamu.edu.sa
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EDUCATION

Year	Academic Degree	Institution
July 2017	Doctor of Philosophy in Chemistry	King Abdulaziz University
April 2012	Master's Degree in Analytical Chemistry	Taif University
July 2003	Bachelor's Degree in Chemistry	Teachers College at Taif

WORK EXPERIENCE

Period	Position	Address
Jun 2026 to present	Professor	Department of Chemistry, College of Science, Imam Mohammad Ibn Saud Islamic University, Riyadh, Saudi Arabia.
August 2025 to present	Vice Dean of the College of Science	College of Science, Imam Mohammad Ibn Saud Islamic University, Riyadh, Saudi Arabia.
July 2022 to Jun 2026	Associate professor	Department of Chemistry, College of Science, Imam Mohammad Ibn Saud Islamic University, Riyadh, Saudi Arabia.
May 2019 to present	Chairman	Chemistry Department, College of Science, Imam Mohammad Ibn Saud Islamic University, Riyadh, Saudi Arabia.
Sept 2018 to July 2022	Assistant Professor	Department of Chemistry, College of Science, Imam Mohammad Ibn Saud Islamic University, Riyadh, Saudi Arabia.
Sept 2003 to Sept 2018	Teacher	Ministry of Education, Taif, Saudi Arabia.

RESEARCH INTERESTS

- Development of analytical methods for quantitative analysis of chemical materials, especially the pharmaceutical products.
- Design and develop new electrochemical sensors and biosensors by using nanomaterials and their uses for food safety and environment monitoring.

SELECTED PUBLICATIONS

- 1- Mohamed N. Goda, Laila S. Alqarni, **Faisal K. Algethami**, Hossieny Ibrahim, Mohamed M. El-Wakil, Ramadan Ali, Suliman A. Almahmoud and Al-Montaser Bellah H. Ali. Pharmacophore-targeted fluorescence sensing of ibrutinib via Michael addition-induced electron transfer on thiol-functionalized carbon dots. *RSC Advances*. (2026), 16 (33): 30676–30686. <https://doi.org/10.1039/d6ra02905a>
- 2- Sameera Sh. Mohammed Ameen · **Faisal K. Algethami** · Khalid M. Omer. Rationally engineered icosahedral-spindle aluminum-based metal–organic frameworks with dual-state luminescence for on-site detection of ferric ions in food and human serum. *Microchimica Acta*. (2026), 193, 457. <https://doi.org/10.1007/s00604-026-08185-2>
- 3- **Faisal K. Algethami**, Mohamed N. Goda, Laila S. Alqarni, Hossieny Ibrahim, Mohamed M. El-Wakil, Ramadan Ali, Al-Montaser Bellah H. Ali. A tyrosinase activity biosensor exploiting dopaquinone-driven Fe³⁺ sequestration for simultaneous fluorometric and colorimetric detection in Cancer cell lysates. *Microchemical Journal*. (2026), 226, 118484. <https://doi.org/10.1016/j.microc.2026.118484>
- 4- Alaa Bedair, **Faisal K. Algethami**, Laila S. Alqarni, Mahmoud Hamed, Marcello Locatelli*, Fotouh R. Mansour. Application of metal organic gels (MOGs) in analytical chemistry. *Trends in Analytical Chemistry*. (2026), 202, 8939. <https://doi.org/10.1016/j.trac.2026.118939>
- 5- Karim G. Mohammed, El-Sayed M. Mahdy, Enas M. Radwan, Mona S. Abdellateif, Mohamed Essameldin Abdelgawad, **Faisal K. Algethami**, Mohamed S. Attia d*, Mona N. Abou-Omar. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*. (2026), 359, 127942. <https://doi.org/10.1016/j.saa.2026.127942>
- 6- Alaa Bedair, **Faisal K. Algethami**, Laila S. Alqarni, Mahmoud Hamed, Marcello Locatelli*, Fotouh R. Mansour. Green aspects of luminescent metal organic frameworks as sensors for hazardous gases and volatile organic compounds. *Trends in Analytical Chemistry*. (2026), 201, 118885. <https://doi.org/10.1016/j.trac.2026.118885>
- 7- Waleed Altaf, Nadeem Raza, Muhammad Hayat, Saba Khalid, Farah Fatima, **Faisal K. Algethami**, Jameel Ahmed Baig, Mohamed Rahmtalla Elamin*, Suryia Manzoor. *International Journal of Biological Macromolecules*. (2026), 366, 152385. <https://doi.org/10.1016/j.ijbiomac.2026.152385>
- 8- Alaa Bedair, **Faisal K. Algethami**, Mahmoud Hamed, Fotouh R. Mansour. MOF-on-MOF heterostructures as emerging materials for advanced chemical sensing. *Trends in Analytical Chemistry*. (2026), 201, 118869. <https://doi.org/10.1016/j.trac.2026.118869>
- 9- Sameera Sh. Mohammed Ameen, **Faisal K. Algethami***, Ali ML. Usman, Khalid M. Omer. Simultaneous detection and removal of tetracycline antibiotics using multifunctional MOFs. *Trends in Analytical Chemistry*. (2026), 199, 118790. <https://doi.org/10.1016/j.trac.2026.118790>
- 9- Habiba Brohi, Tasneem Gul Kazi, Hassan Imran Afridi*, **Faisal K. Algethami**, Jameel Ahmed Baig, Asif Unar. Comparative analysis of electrolyte and essential trace elemental contents in cow and buffalo's raw milk versus processed/pasteurized milk: Implications for estimated daily intake. *Journal of Food Composition and Analysis*. (2026), 151, 108977. <https://doi.org/10.1016/j.jfca.2026.108977>
- 10- Sameera Sh. Mohammed Ameen, **Faisal K. Algethami**, Khalid M. Omer. Rod-shaped zinc-based metal–organic frameworks with dual-state emission for dual-state detection of ferric ions: Sensitive point-of-care testing in food

samples. *Microchemical Journal*. (2026), 223, 117325. <https://doi.org/10.1016/j.microc.2026.117325>

11- Sameera Sh. Mohammed Ameen, **Faisal K. Algethami**, Soleen S. Ahmed, Ilham I. Ahmed, Hani Nasser Abdelhamid and Khalid M. Omer. Bio-inspired manganese nanoparticles from pine needles with enhanced adsorptive performance. *New J. Chem.* (2026) 50 (4), 1880–1891. <https://doi.org/10.1039/d5nj04047g>

12- Sameera Sh. Mohammed Ameen^a, **Faisal K. Algethami**^{b,*}, Khalid M. Omer^{c,*}. Residual Ofloxacin detection in food via paper-based and solution platforms using a dual-emissive MOF with wide-range triple-color emission. *Food Chemistry* (2026), 500, 147452. <https://doi.org/10.1016/j.foodchem.2025.147452>

13- Sameera Sh Mohammed Ameen,^{*} **Fiasal K. Algethami**, Khalid M. Omer,^{**} Idrees B. Qader, Hemn A. Qader. Single-entity dual-emissive MOF platform for reliable ratiometric point-of-care detection of amoxicillin residues. *Analytical Biochemistry*. (2025), 710, 116028. <https://doi.org/10.1016/j.ab.2025.116028>