

Prof. Mohammad Rizwan Khan  
Chemistry Department, College of Science  
King Saud University, Riyadh 11451, Saudi Arabia  
Email: [mrkhan@ksu.edu.sa](mailto:mrkhan@ksu.edu.sa)  
<http://fac.ksu.edu.sa/mrkhan>  
Phone: +966114674198  
Mobile: +966597002499  
Web of Science Researcher ID: D-7966-2014  
<https://orcid.org/0000-0001-6270-8539>  
<https://scholar.google.com/citations?user=Gi2EE0oAAAAJ&hl=en>

---

**HIGHEST DEGREE:**

- **Ph.D. (Analytical Chemistry) from the University of Barcelona, Spain. (2009), Result: "Excellent Cum Laude"**

**SUPERVISION:**

- **PhD thesis (2)** at Chemistry Department, King Saud University, Saudi Arabia. **(2016 & 2020)**
- **Master thesis (2)** at Chemistry Department, King Saud University, Saudi Arabia. **(2014 & 2020)**
- **Erasmus students (4)** at Chemistry Department, University of Barcelona, Spain. **(2004-2009)**

**ACADEMIC TRAINING:**

**Graduate Studies:**

- 1) **Diploma in Advance Studies (DEA).** Ph.D. Program on Analytical Chemistry of the Environment and Pollution. Department of Analytical Chemistry, University of Barcelona, Spain. **(2005-2006), Result: Excellent**
- 2) **Master Degree in Analytical Chemistry.** Department of Chemistry, Aligarh Muslim University, Aligarh, India. **(2002), Result: First Division**

**Undergraduate Studies:**

- **Honors Degree in Chemistry.** Department of Chemistry, Aligarh Muslim University, Aligarh, India. **(2000), Result: Honors**

**VISITING RESEARCHER:**

- Department of Molecular & Cellular Biology, University of Guelph, Canada. **(Feb 2008-Jul 2008)**
- Department of Analytical Chemistry, CPS, University of Zaragoza, Spain. **(Feb 2003-Oct 2003)**

**SCIENTIFIC MEETING:**

- GSC-MS-SCHLOSSPLAZ 4/7-D-MUNSTER, Graduate School of Chemistry, University of Muenster, Muenster Germany. (2003)
- 2<sup>nd</sup> Meeting of Mass Spectrometry (SEEM), Department of Analytical Chemistry, University of Barcelona, Spain. (2004)

**FELLOWSHIP:**

- Predoctoral Fellowship (FPI) from the Ministry of Education and Science, Spain **(2004-2009)**.
- Visiting Researcher funding from the Ministry of Education and Science, Spain **(2008)**.
- Training as Visiting Researcher funding from FMC-FORET, Spain **(2003)**.

**MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS:**

- International Association of Environmental Analytical Chemistry (IAEAC), Postfach 46, CH-4123 Allschwil, Switzerland.
  - Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road Cambridge, CB4 0WF, UK
-

- The Mass Spectrometry Interest Group of the National Cancer Institute at Frederick MD 21701, USA.
- Spanish Society of Chromatography and Related Techniques, Department of Analytical & Inorganic Chemistry, University of Alcalá, E-28871, Alcalá de Henares, Madrid, Spain.

#### FUNDED RESEARCH PROJECTS:

- 1) **Quantitative analysis of acrylamide carcinogen in heat-treated foods from the Kingdom of Saudi Arabia and its reduction by the addition of various food additives.** Funded by the King Abdulaziz City for Science and Technology, Saudi Arabia (2014). **\$233,000/.**
- 2) **Designing novel green ionic liquid-based solvent media for the synthesis of biologically important compounds.** Funded by the National Plan for Sciences and Technology (NPST), King Saud University, Saudi Arabia (2014). **\$436,000/.**
- 3) **Adsorptive removal of probable human carcinogen bromate from Saudi water using agricultural waste material based activated carbon and its determination by ultra-performance liquid chromatography-mass spectrometry.** Funded by the National Plan for Sciences and Technology (NPST), King Saud University, Saudi Arabia (2013). **\$300,000/.**
- 4) **To study the occurrence of carcinogenic heterocyclic amines in cooked camel meat from the Kingdom of Saudi Arabia.** Funded by the National Plan for Sciences and Technology (NPST), King Saud University, Saudi Arabia (2012). **\$260,000.**
- 5) **Study on exposure of carcinogenic heterocyclic amines in the Spanish diet.** Funded by the Ministry of Science and Technology, Spain. (2004), University of Barcelona, Spain. **€180,000.**

#### BOOK:

- 1) **Ultra Performance Liquid Chromatography Mass Spectrometry: Evaluation and Applications in Food Analysis, (2014).** Publishers CRC press, Taylor & Francis Group, Boca Raton, Florida, USA. ISBN: 978-1-46-659155-4, <http://www.crcpress.com>

#### BOOK CHAPTERS:

- 1) Current Developments and Trends in the Liquid Chromatography–Mass Spectrometry Study of Food Integrity and Authenticity (2021). Chromatographic and Related Separation Techniques, Vol-A, World Scientific Publishing Company. [https://doi.org/10.1142/9781786349958\\_0002](https://doi.org/10.1142/9781786349958_0002)
  - 2) Advances in the Analysis of Challenging Food Contaminants: Nanoparticles, Bisphenols, Mycotoxins, and Brominated Flame Retardants, (2014). Advances in Molecular Toxicology, Vol. 8, Amsterdam: Elsevier, ISBN: 978-0-444-63406-1. <http://www.sciencedirect.com/science/article/pii/B9780444634061000027>
  - 3) UPLC-MS/MS Analysis of Heterocyclic Amines in Cooked Food, (2014). Publisher, CRC press, Taylor & Francis Group, Boca Raton, Florida, USA. ISBN: 978-1-46-659155-4, <http://www.crcpress.com>
  - 4) History and Introduction of UPLC/MS, (2014). Publisher, CRC press, Taylor & Francis Group, Boca Raton, Florida, USA. ISBN: 978-1-46-659155-4, <http://www.crcpress.com>
  - 5) Trends of Solid-Phase Extraction Technique in Environmental and Food Analysis, (2012). Nova Science Publisher, New York, USA. [www.novapublishers.com](http://www.novapublishers.com)
  - 6) Applications of Solvent Extraction Method for the Removal of Metals, (2012). Nova Science Publisher, New York, USA. [www.novapublishers.com](http://www.novapublishers.com)
  - 7) Activated Carbon as a Versatile Adsorbent for the Removal of Pollutants, (2012). Nova Science Publisher, New York, USA. [www.novapublishers.com](http://www.novapublishers.com)
-

#### CONFERENCES:

- 1) **M.R. Khan**, Z.A. Alothman, Mu Naushad, I. H. Alsohaimi, Quantification of Heterocyclic Amines Carcinogens in Heat-Treated Meat and Fish by Solid-Phase Extraction and Liquid Chromatography-Tandem Mass Spectrometry Method. **Congress:** 41<sup>st</sup> International Symposium and Exhibit on High Performance Liquid Phase Separations and Related Techniques (**May 2014**), **Venue:** New Orleans, USA.
- 2) **M.R. Khan**, Z.A. Alothman, M. Khan, R. Busquets, Development of Rapid and Sensitive Ultra Performance Liquid Chromatography–Mass Spectrometry Method for Nitrate Analysis in Drinking Water. **Congress:** 29<sup>th</sup> Montreux Symposium on LC/MS (**Nov. 2012**), **Venue:** Montreux, Switzerland.
- 3) **M.R. Khan**, I. H. Alsohaimi, Z. A. Alothman, M. A. Abdalla, A. K. Alomary, Development of a highly sensitive and selective UPLC–MS/MS method for the determination of bromate in metropolitan and bottled drinking water. **Congress:** 12<sup>th</sup> International Symposium on Hyphenated Techniques in chromatography. (**Feb. 2012**), **Venue:** Belgium. (**Awarded Top 10 Best Posters**).
- 4) Z.A. Alothman, **M.R. Khan**, S.M. Wabaidur, Development of a highly sensitive UPLC-MS/MS technique for the simultaneous determination L-ascorbic acid and acetylsalicylic acid in aspirin C effervescent tablet. **Congress:** 36<sup>th</sup> international symposium on high-performance liquid phase separations and related techniques. (**June 2011**), **Venue:** Budapest, Hungary.
- 5) **M.R. Khan**, L.M. Bertus, L. Puignou, M.T. Galceran, Occurrence of mutagenic/carcinogenic heterocyclic amines in offal products (animal visceral) processed after traditional recipes from Spain. **Congress:** 3<sup>rd</sup> International Symposium on Recent Advances in Food Analysis. (**Nov 2007**), **Venue:** Prague, Czech Republic.
- 6) **M.R. Khan**, L. Puignou, M.T. Galceran, Determination of heterocyclic amines in cooked fish using liquid chromatography-tandem mass spectrometry (LC-MS/MS). **Congress:** 31<sup>st</sup> HPLC-2007. (**June 2007**), **Venue:** Ghent, Belgium.
- 7) **M.R. Khan**, R. Busquets, L. Puignou, Inhibitory effect of wine in the formation of some culinary toxic in meat food processing. **Congress:** IX National Congress of Enology Investigation. (**May 2007**), **Venue:** Badajoz, Spain.
- 8) **M.R. Khan**, A. Milà, L. Puignou, M.T. Galceran, Preparation of fried chicken breast as a laboratory reference material for the determination of heterocyclic amines. **Congress:** 6<sup>th</sup> Spanish Society of Chromatography and Related Techniques. (**Nov. 2006**), **Venue:** Vigo, Spain.
- 9) **M.R. Khan**, F.J Santos, L. Puignou, M.T. Galceran, Development of a pressurised liquid extraction (PLE) procedure for the analysis of heterocyclic amines in meat extract by LC-MS/MS. **Congress:** Ninth International Symposium on Hyphenated Techniques in chromatography and Hyphenated Chromatographic Analyzes. Eighth International Symposium on Advances in Extraction Techniques. (**Feb. 2006**), **Venue:** Yorkshire, England.
- 10) C. Nerín, S. Arrojo, **R. Khan**, J. Salafranca, C. Dopazo, Cavitation as an innovative tool for waste water treatment and a challenge for analytical chemist. **Congress:** 3<sup>rd</sup> Scientific Meeting of the Spanish Society of Chromatography and Related Techniques and 3<sup>rd</sup> Waste Water Cluster (WWC) European Workshop. (**Sept. 2003**), **Venue:** Almería, Spain.

#### LANGUAGES KNOWN:

English, Spanish, Catalan, Hindi, Urdu and Arabic (Basic)

---

## Mohammad Rizwan Khan

<https://www.webofscience.com/wos/author/rid/D-7966-2014>

**Web of Science ResearcherID:** D-7966-2014

**ORCID:** 0000-0001-6270-8539

## Publications

### MANUSCRIPTS PUBLISHED (139)

From date range January 2008 - January 2023

---

#### Primer-Engineered Transferase Enzyme for One-Pot and Amplified Detection of Cobalt Pollution and Peptide Remover Screening

Authors (10): Ren, Yao; Jin, Lulu ... Chi, Yuanlong

Published: Dec 2022 in Journal of Agricultural and Food Chemistry

DOI: 10.1021/ACS.JAFC.2C07223

---

#### Hydrophilic co-assembly of wheat gluten proteins and wheat bran cellulose improving the bioavailability of curcumin

Authors (8): Zou, Peng-Ren; Hu, Fei ... Wei, Zhao-Jun

Published: Dec 2022 in Food Chemistry

DOI: 10.1016/J.FOODCHEM.2022.133807

---

#### Csm6-DNAzyme Tandem Assay for One-Pot and Sensitive Analysis of Lead Pollution and Bioaccumulation in Mice

Authors (10): Yang, Hao; Li, Feng ... Deng, Ruijie

Published: Dec 2022 in Analytical Chemistry

DOI: 10.1021/ACS.ANALCHEM.2C04589

---

#### CRISPR-Based Colorimetric Nucleic Acid Tests for Visual Readout of DNA Barcode for Food Authenticity

Authors (11): Yin, Xinying; Yang, Hao ... Cao, Jijuan

Published: Nov 2022 in Journal of Agricultural and Food Chemistry

DOI: 10.1021/ACS.JAFC.2C05974

---

#### Isorhamnetin Induces Apoptosis and Suppresses Metastasis of Human Endometrial Carcinoma Ishikawa Cells via Endoplasmic Reticulum Stress Promotion and Matrix Metalloproteinase-2/9 Inhibition In Vitro and In Vivo

Authors (8): Ye, Lei; Ma, Run-Hui ... Wei, Zhao-Jun

Published: Nov 2022 in Foods

DOI: 10.3390/FOODS11213415

---

---

## Quantitative assessment of phosphate food additive in frozen and chilled chicken using spectrophotometric approach combined with graphitic digestion

Authors (8): Hassan, Hassan M.; Alsohaimi, Ibrahim Hotan ... Ouladsmame, Mohamed

Published: Sep 2022 in Food Chemistry

DOI: 10.1016/J.FOODCHEM.2022.133050

---

## Remediation of wastewater containing 4-nitrophenol using ionic liquid stabilized nanoparticles: Synthesis, characterizations and applications

Authors (3): Naushad, Mu.; Ahamad, Tansir; Khan, Mohammad Rizwan

Published: Sep 2022 in Chemosphere

DOI: 10.1016/J.CHEMOSPHERE.2022.135173

---

## Structural, dielectric, impedance and electric modulus properties of praseodymium-substituted BaPrxFe12-X O-19 nanoparticles synthesized via sol-gel method

Authors (10): Samiullah; Asghar, H. M. Noor ul Huda Khan ... Busquets, Rosa

Published: Sep 2022 in Applied Physics A Solids and Surfaces

DOI: 10.1007/S00339-022-05799-0

---

## Date pits waste as a solid phase extraction sorbent for the analysis of lead in wastewater and for use in manufacturing brick: An eco-friendly waste management approach

Authors (5): Azam, Mohammad; Khan, Mohammad Rizwan ... Islam, Mohammad Shahidul

Published: Sep 2022 in Journal of Saudi Chemical Society

DOI: 10.1016/J.JSCS.2022.101519

---

## Edible Xanthan/Propolis Coating and Its Effect on Physicochemical, Microbial, and Sensory Quality Indices in Mackerel Tuna (*Euthynnus affinis*) Fillets during Chilled Storage

Authors (6): El Sheikha, Aly Farag; Allam, Ayman Younes ... Oz, Fatih

Published: Jul 2022 in Gels

DOI: 10.3390/GELS8070405

---

## Apigenin inhibits migration and induces apoptosis of human endometrial carcinoma Ishikawa cells via PI3K-AKT-GSK-3 beta pathway and endoplasmic reticulum stress

Authors (9): Liang, Yan-Cui; Zhong, Qian ... Wei, Zhao-Jun

Published: Jul 2022 in Journal of Functional Foods

DOI: 10.1016/J.JFF.2022.105116

---

## Lithium-ion battery anode with high capacity retention derived from zinc vanadate and holey graphene

Authors (9): Khan, Asim; Ali, Basit ... Abbas, Syed Mustansar

Published: Jun 2022 in International Journal of Energy Research

DOI: 10.1002/ER.7920

---

## Effect of silver incorporation on the photocatalytic degradation of Reactive Red 120 using ZnS nanoparticles under UV and solar light irradiation

Authors (9): Ravikumar, S.; Mani, Durai ... Ahn, Young-Ho

Published: Jun 2022 in Environmental Research

DOI: 10.1016/J.ENVRES.2022.112819

---

---

## Techno-economic analysis of an integrated electrocoagulation-membrane system in treatment of palm oil mill effluent

Authors (7): Saad, Muhammad Syaamil; Joe, Ng Chun ... Busquets, Rosa

Published: Jun 2022 in Journal of King Saud University - Science

DOI: 10.1016/J.JKSUS.2022.102015

---

## Interaction between Gelatin and Mulberry Leaf Polysaccharides in Miscible System: Physicochemical Characteristics and Rheological Behavior

Authors (8): Zhang, Xiu-Xiu; Liao, Bu-Yan ... Wei, Zhao-Jun

Published: Jun 2022 in Foods

DOI: 10.3390/FOODS11111571

---

## Effect of Mn Concentration on the Structural, Ferroelectric, Optical, and Magnetic Properties of BiFeO<sub>3</sub> Nanoparticles

Authors (7): Kumar, Shalendra; Kumari, Kavita ... Koo, Bon Heun

Published: May 2022 in Crystals

DOI: 10.3390/CRYST12050704

---

## Multi-Element Analysis and Origin Discrimination of Panax notoginseng Based on Inductively Coupled Plasma Tandem Mass Spectrometry (ICP-MS/MS)

Authors (16): Ji, Chao; Liu, Jinyu ... Zheng, Wenjie

Published: May 2022 in Molecules

DOI: 10.3390/MOLECULES27092982

---

## CRISPR-Cas14a-integrated strand displacement amplification for rapid and isothermal detection of cholangiocarcinoma associated circulating microRNAs

Authors (11): Chi, Zhen; Wu, Yinhuan ... Huang, Jingyao

Published: May 2022 in Analytica Chimica Acta

DOI: 10.1016/J.ACA.2022.339763

---

## Fabrication of novel Ce-2(WO<sub>4</sub>)(3)/ZnO@GO nanocomposite for superior photocatalytic performance under visible light and supercapacitor applications

Authors (9): Arunpandian, M.; Khan, Mohammad Rizwan ... Nagarajan, E. R.

Published: May 2022 in Diamond and Related Materials

DOI: 10.1016/J.DIAMOND.2022.109026

---

## Dioxins and dioxin-like compounds in meat and meat products

Authors (4): E. Aoudeh; E. Oz ... F. Oz

Published: Apr 2022 in Theory and Practice of Meat Processing

DOI: 10.21323/2414-438X-2022-7-1-4-15

---

## Heavy Metal Ions Removal from Aqueous Solutions by Treated Ajwa Date Pits: Kinetic, Isotherm, and Thermodynamic Approach

Authors (5): Azam, Mohammad; Wabaidur, Saikh Mohammad ... Islam, Mohammad Shahidul

Published: Mar 2022 in Polymers

DOI: 10.3390/POLYM14050914

---

---

## Quantitative Estimation of Protein in Sprouts of *Vigna radiata* (Mung Beans), *Lens culinaris* (Lentils), and *Cicer arietinum* (Chickpeas) by Kjeldahl and Lowry Methods

Authors (5): Rizvi, Nayab Batool; Aleem, Samina ... Busquets, Rosa

Published: Feb 2022 in *Molecules*

DOI: 10.3390/MOLECULES27030814

---

## 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

Authors (10): Khan, Mohammad Rizwan; Samdani, Mohammad Shahzad ... Alam, Pravej

Published: Feb 2022 in *Journal of King Saud University - Science*

DOI: 10.1016/J.JKSUS.2022.101821

---

## Label-Free Detection of Transgenic Crops Using an Isothermal Amplification Reporting CRISPR/Cas12 Assay

Authors (10): Zhu, Xiaoying; Yang, Hao ... Deng, Ruijie

Published: Jan 2022 in *ACS Synthetic Biology*

DOI: 10.1021/ACSSYNBIO.1C00428

---

## Wheat gluten proteins phosphorylated with sodium tripolyphosphate: Changes in structure to improve functional properties for expanding applications

Authors (8): Hu, Fei; Zou, Peng-Ren ... Wei, Zhao-Jun

Published: Jan 2022 in *Current Research in Food Science*

DOI: 10.1016/J.CRFS.2022.08.014

---

## Cross-Linked Chitosan-Glyoxal/Kaolin Clay Composite: Parametric Optimization for Color Removal and COD Reduction of Remazol Brilliant Blue R Dye

Authors (6): Jawad, Ali H.; Abdulhameed, Ahmed Saud ... Khan, Mohammad Rizwan

Published: Jan 2022 in *Journal of Polymers and the Environment*

DOI: 10.1007/S10924-021-02188-1

---

## Growth modulation of atomic layer deposition of HfO<sub>2</sub> by combinations of H<sub>2</sub>O and O<sub>3</sub> reactants

Authors (9): Ko, Byeong Guk; Nguyen, Chi Thang ... Lee, Han-Bo-Ram

Published: Dec 2021 in *Dalton Transactions*

DOI: 10.1039/D1DT03465K

---

## Magnetic Chitosan-Glutaraldehyde/Zinc Oxide/Fe<sub>3</sub>O<sub>4</sub> Nanocomposite: Optimization and Adsorptive Mechanism of Remazol Brilliant Blue R Dye Removal

Authors (7): Reghioua, Abdallah; Barkat, Djamel ... ALOthman, Zeid A.

Published: Dec 2021 in *Journal of Polymers and the Environment*

DOI: 10.1007/S10924-021-02160-Z

---

## Ag-TiO<sub>2</sub>@Pd/C nanocomposites for efficient degradation of Reactive Red 120 dye and ofloxacin antibiotic under UV and solar light and its antimicrobial activity

Authors (9): Ravikumar, S.; Mani, Durai ... Ahn, Young-Ho

Published: Dec 2021 in *Journal of Environmental Chemical Engineering*

DOI: 10.1016/J.JECE.2021.106657

---

---

## Synthesis of High-Performance Aqueous Fluorescent Nanodispersions for Textile Printing-A Study of Influence of Moles Ratio on Fastness Properties

Authors (6): Shenava, Shruthi Manjunath; Kumar, J. V. Shanmukha ... Khan, Mohammad Rizwan

Published: Dec 2021 in *Molecules*

DOI: 10.3390/MOLECULES26237075

---

## Interfacial and antibacterial properties of imidazolium based ionic liquids having different counterions with ciprofloxacin

Authors (8): Siddiquee, Md Abrar; Patel, Rajan ... Busquets, Rosa

Published: Nov 2021 in *Colloids and Surfaces A: Physicochemical and Engineering Aspects*

DOI: 10.1016/J.COLSURFA.2021.127474

---

## Contribution of Oxide Supports in Nickel-Based Catalytic Elimination of Greenhouse Gases and Generation of Syngas

Authors (4): Khan, Wasim Ullah; Khan, Mohammad Rizwan ... Ahmad, Naushad

Published: Nov 2021 in *Energies*

DOI: 10.3390/EN14217324

---

## Direct Detection of Foodborne Pathogens via a Proximal DNA Probe-Based CRISPR-Cas12 Assay

Authors (12): Zhang, Ting; Li, Hai-tao ... Deng, Ruijie

Published: Nov 2021 in *Journal of Agricultural and Food Chemistry*

DOI: 10.1021/ACS.JAFC.1C04663

---

## Evaluation of surface phenomena of magnetic biomass for dye removal via surface modeling

Authors (5): Lingamdinne, Lakshmi Prasanna; Karri, Rama Rao ... Koduru, Janardhan Reddy

Published: Oct 2021 in *Journal of Environmental Chemical Engineering*

DOI: 10.1016/J.JECE.2021.105953

---

## G-Quadruplex-Probing CRISPR-Cas12 Assay for Label-Free Analysis of Foodborne Pathogens and Their Colonization In Vivo

Authors (12): Xia, Xuhan; Ma, Boheng ... Deng, Ruijie

Published: Sep 2021 in *ACS Sensors*

DOI: 10.1021/ACSSENSORS.1C01061

---

## Amplification Refractory Mutation System (ARMS)-PCR for Waxy Sorghum Authentication with Single-Nucleotide Resolution

Authors (9): Zhu, Xiaoying; Wu, Minghua ... Luo, Aimin

Published: Sep 2021 in *Foods*

DOI: 10.3390/FOODS10092218

---

## A novel electrodeposited poly(melamine)-palladium nanohybrid catalyst on GCE: Prosperous multi-functional electrode towards methanol and ethanol oxidation

Authors (6): Chokkiah, Bavatharani; Eswaran, Muthusankar ... Ragupathy, Dhanusuraman

Published: Sep 2021 in *Fuel*

DOI: 10.1016/J.FUEL.2021.121005

---



---

## Fabrication of Schiff's Base Chitosan-Glutaraldehyde/Activated Charcoal Composite for Cationic Dye Removal: Optimization Using Response Surface Methodology

Authors (7): Jawad, Ali H.; Abdulhameed, Ahmed Saud ... Khan, Mohammad Rizwan

Published: Sep 2021 in Journal of Polymers and the Environment

DOI: 10.1007/S10924-021-02057-X

---

## CRISPR-Cas12-Based Rapid Authentication of Halal Food

Authors (11): Wu, Yinhuan; Dong, Yi ... Deng, Ruijie

Published: Sep 2021 in Journal of Agricultural and Food Chemistry

DOI: 10.1021/ACS.JAFC.1C03078

---

## Pongamia pinnata shell powder filled sisal/kevlar hybrid composites: Physicomechanical and morphological characteristics

Authors (8): Jagadeesh, Praveenkumara; Ningappa, Vidya Sagar Honnenahally ... Siengchin, Suchart

Published: Sep 2021 in Polymer Composites

DOI: 10.1002/PC.26160

---

## Ratiometric G-Quadruplex Assay for Robust Lead Detection in Food Samples

Authors (9): Liu, Yumei; Yang, Hao ... Zhao, Zhifeng

Published: Aug 2021 in Biosensors

DOI: 10.3390/BIOS11080274

---

## Numerical desirability function for adsorption of methylene blue dye by sulfonated pomegranate peel biochar: Modeling, kinetic, isotherm, thermodynamic, and mechanism study

Authors (6): Jawad, Ali H.; Abdulhameed, Ahmed Saud ... Surip, S. N.

Published: Jul 2021 in Korean Journal of Chemical Engineering

DOI: 10.1007/S11814-021-0801-9

---

## Current Developments and Trends in the Liquid Chromatography–Mass Spectrometry Study of Food Integrity and Authenticity

Authors (3): Mohammad Rizwan Khan; Ruijie Deng; Fatih ÖZ

Published: Jun 2021 in Chromatographic and Related Separation Techniques in Food Integrity and Authenticity

DOI: 10.1142/9781786349958\_0002

---

## Atomic Layer Modulation of Multicomponent Thin Films through Combination of Experimental and Theoretical Approaches

Authors (8): Nguyen, Chi Thang; Gu, Bonwook ... Lee, Han-Bo-Ram

Published: Jun 2021 in Chemistry of Materials

DOI: 10.1021/ACS.CHEMMATER.1C00508

---

## Removal of Chromium(III) and Cadmium(II) Heavy Metal Ions from Aqueous Solutions Using Treated Date Seeds: An Eco-Friendly Method

Authors (5): Azam, Mohammad; Wabaidur, Saikh Mohammad ... Islam, Mohammad Shahidul

Published: Jun 2021 in Molecules

DOI: 10.3390/MOLECULES26123718

---

## Engineered CuO Nanofibers with Boosted Non-Enzymatic Glucose Sensing Performance

Authors (6): Khan, Marya; Nagal, Vandana ... Ahmad, Rafiq

Published: Jun 2021 in Journal of the Electrochemical Society

DOI: 10.1149/1945-7111/AC030D

---

---

## Bisphenol A leaches from packaging to fruit juice commercially available in markets

Authors (4): Khan, Mohammad Rizwan; Ouladsmame, Mohamed ... Azam, Mohammad

Published: Jun 2021 in Food Packaging and Shelf Life

DOI: 10.1016/J.FPSL.2021.100678

---

## Polyaniline-Graphitic Carbon Nitride Based Nano-Electrocatalyst for Fuel Cell Application: A Green Approach with Synergistic Enhanced Behaviour

Authors (5): Madaswamy, Suba Lakshmi; Wabaidur, Saikh Mohammad ... Dhanusuraman, Ragupathy

Published: Jun 2021 in Macromolecular Research

DOI: 10.1007/S13233-021-9044-1

---

## UPLC-ESI/MS analysis of disinfection by-products (perchlorate, bromate, nitrate, nitrite and sulfite) in micro-filtered drinking water obtained from spring, well and tap water (desalinated) sources

Authors (4): Khan, Mohammad Rizwan; Samdani, Mohammad Shahzad ... Ouladsmame, Mohamed

Published: Jun 2021 in Journal of King Saud University - Science

DOI: 10.1016/J.JKSUS.2021.101408

---

## Fabrication of magnetic nanoparticles supported ionic liquid catalyst for transesterification of vegetable oil to produce biodiesel

Authors (3): Naushad, Mu; Ahamad, Tansir; Khan, Mohammad Rizwan

Published: May 2021 in Journal of Molecular Liquids

DOI: 10.1016/J.MOLLIQ.2021.115648

---

## Blueberry, raspberry, and strawberry extracts reduce the formation of carcinogenic heterocyclic amines in fried camel, beef and chicken meats

Authors (3): Khan, Mohammad Rizwan; Busquets, Rosa; Azam, Mohammad

Published: May 2021 in Food Control

DOI: 10.1016/J.FOODCONT.2020.107852

---

## Synthesis of Schiff's base magnetic crosslinked chitosan-glyoxal/ZnO/Fe<sub>3</sub>O<sub>4</sub> nanoparticles for enhanced adsorption of organic dye: Modeling and mechanism study

Authors (5): Reghioua, Abdallah; Barkat, Djamel ... Khan, Mohammad Rizwan

Published: May 2021 in Sustainable Chemistry and Pharmacy

DOI: 10.1016/J.SCP.2021.100379

---

## Heavy Metals in Acrylic Color Paints Intended for the School Children Use: A Potential Threat to the Children of Early Age

Authors (4): Khan, Mohammad Rizwan; Ahmad, Naushad ... Azam, Mohammad

Published: Apr 2021 in Molecules

DOI: 10.3390/MOLECULES26082375

---

## High surface area and mesoporous activated carbon from KOH-activated dragon fruit peels for methylene blue dye adsorption: Optimization and mechanism study

Authors (6): Jawad, Ali H.; Abdulhameed, Ahmed Saud ... Khan, Mohammad Rizwan

Published: Apr 2021 in Chinese Journal of Chemical Engineering

DOI: 10.1016/J.CJCHE.2020.09.070

---

---

## Aggregation, interaction and thermodynamic characteristics of cationic surfactant plus moxifloxacin hydrochloride mixture in aquatic solutions of mono-/di-hydroxy compounds

Authors (8): Rashid, Miah Muhammed Muktadir; Rahman, Marzia ... Hoque, Md. Anamul

Published: Mar 2021 in Molecular Physics

DOI: 10.1080/00268976.2020.1849839

---

## Light-up RNA aptamer signaling-CRISPR-Cas13a-based mix-and-read assays for profiling viable pathogenic bacteria

Authors (10): Zhang, Ting; Zhou, Wenhui ... He, Qiang

Published: Mar 2021 in Biosensors and Bioelectronics

DOI: 10.1016/J.BIOS.2020.112906

---

## Label-free DNzyme assays for dually amplified and one-pot detection of lead pollution

Authors (10): Zhang, Yong; Wu, Chengyong ... He, Qiang

Published: Mar 2021 in Journal of Hazardous Materials

DOI: 10.1016/J.JHAZMAT.2020.124790

---

## Charge storage in binder-free 2D-hexagonal CoMoO<sub>4</sub> nanosheets as a redox active material for pseudocapacitors

Authors (14): Hussain, Shahid; Khan, Abdul Jabbar ... Qiao, Guan-Jun

Published: Mar 2021 in Ceramics International

DOI: 10.1016/J.CERAMINT.2020.11.237

---

## Electro-Oxidation of Ammonia over Copper Oxide Impregnated gamma-Al<sub>2</sub>O<sub>3</sub> Nanocatalysts

Authors (5): Khan, Safia; Shah, Syed Sakawat ... Janjua, Naveed Kausar

Published: Mar 2021 in Coatings

DOI: 10.3390/COATINGS11030313

---

## Synthesis of novel cycloheptylbenzothiazole-2-carboxamides and biological evaluation as human estrogen receptor modulators

Authors (5): Kapse, Purushottam; Chikhale, Rupesh, V ... Islam, Md Ataul

Published: Mar 2021 in Journal of Molecular Structure

DOI: 10.1016/J.MOLSTRUC.2020.129516

---

## Trace analysis of environmental endocrine disrupting contaminant bisphenol A in canned, glass and polyethylene terephthalate plastic carbonated beverages of diverse flavors and origin

Authors (4): Khan, Mohammad Rizwan; Alammari, Ahmad Moid ... Azam, Mohammad

Published: Mar 2021 in Food Science and Technology

DOI: 10.1590/FST.03420

---

## Design, structural investigations and antimicrobial activity of pyrazole nucleating copper and zinc complexes

Authors (9): Azam, Mohammad; Wabaidur, Saikh Mohammad ... Rajendra

Published: Feb 2021 in Polyhedron

DOI: 10.1016/J.POLY.2020.114991

---

## Shrimp as a substantial source of carcinogenic heterocyclic amines

Authors (2): Khan, Mohammad Rizwan; Azam, Mohammad

Published: Feb 2021 in Food Research International

DOI: 10.1016/J.FOODRES.2020.109977

---

---

## Engineered Hierarchical CuO Nanoleaves Based Electrochemical Nonenzymatic Biosensor for Glucose Detection

Authors (11): Ahmad, Rafiq; Khan, Marya ... Khosla, Ajit

Published: Jan 2021 in Journal of the Electrochemical Society

DOI: 10.1149/1945-7111/ABD515

---

## Cellulose Derived Graphene/Polyaniline Nanocomposite Anode for Energy Generation and Bioremediation of Toxic Metals via Benthic Microbial Fuel Cells

Authors (9): Yaqoob, Asim Ali; Mohamad Ibrahim, Mohamad Nasir ... AlAmmari, Ahmad Moid

Published: Jan 2021 in Polymers

DOI: 10.3390/POLYM13010135

---

## Ultra-performance liquid chromatography/tandem mass spectrometry for the trace-level identification of perchlorate in filtered drinking water treated with ozonation and chlorination disinfection processes

Authors (3): Khan, Mohammad Rizwan; Azam, Mohammad; Alammari, Ahmad Moid

Published: Jan 2021 in Journal of King Saud University - Science

DOI: 10.1016/J.JKSUS.2020.101267

---

## Dinuclear uranium(VI) salen coordination compound: an efficient visible-light-active catalyst for selective reduction of CO<sub>2</sub> to methanol

Authors (18): Azam, Mohammad; Kumar, Umesh ... Hernandez, Simelys

Published: Dec 2020 in Dalton Transactions

DOI: 10.1039/D0DT02620D

---

## Highly Sensitive Hydrazine Detection Using a Vertically Oriented ZnO Nanosheet-based Field-Effect Transistor

Authors (6): Khan, Marya; Khan, Mohammad Rizwan ... Ahmad, Rafiq

Published: Dec 2020 in Journal of the Electrochemical Society

DOI: 10.1149/1945-7111/ABCD4C

---

## Structure-Based Screening of DNA GyraseB Inhibitors for Therapeutic Applications in Tuberculosis: a Pharmacoinformatics Study

Authors (8): Tambe, Pranjali Mahadeo; Bhowmick, Shovonlal ... Islam, Md Ataul

Published: Dec 2020 in Applied Biochemistry and Biotechnology

DOI: 10.1007/S12010-020-03374-Y

---

## Insights into the modeling, characterization and adsorption performance of mesoporous activated carbon from corn cob residue via microwave-assisted H<sub>3</sub>PO<sub>4</sub> activation

Authors (8): Jawad, Ali H.; Bardhan, Mondira ... Khan, Mohammad Rizwan

Published: Dec 2020 in Surfaces and Interfaces

DOI: 10.1016/J.SURFIN.2020.100688

---

## Simultaneous Determination of Isothiazolinones and Parabens in Cosmetic Products Using Solid-Phase Extraction and Ultra-High Performance Liquid Chromatography/Diode Array Detector

Authors (4): Ali, Hazim Mohammed; Alsohaimi, Ibrahim Hotan ... Azam, Mohammad

Published: Nov 2020 in Pharmaceuticals

DOI: 10.3390/PH13110412

---

---

## Removal color from Palm Oil Mill Effluent (POME): Electrocoagulation Method vs Microfiltration using Nanofiber Membrane

Authors (4): Saad, Muhammad Syaamil; Wirzal, Mohd Dzul Hakim ... Khan, Mohammad Rizwan

Published: Nov 2020 in International Journal of Electrochemical Science

DOI: 10.20964/2020.11.08

---

## Effects of Al Precursors on Deposition Selectivity of Atomic Layer Deposition of Al<sub>2</sub>O<sub>3</sub> Using Ethanethiol Inhibitor

Authors (15): Kim, Hyun Gu; Kim, Miso ... Lee, Han-Bo-Ram

Published: Oct 2020 in Chemistry of Materials

DOI: 10.1021/ACS.CHEMMATER.0C02798

---

## Dinuclear uranyl coordination compound: Structural investigations and selective fluorescence sensing properties

Authors (8): Azam, Mohammad; Al-Resayes, Saud, I ... Khan, Mohammad Rizwan

Published: Oct 2020 in Polyhedron

DOI: 10.1016/J.POLY.2020.114745

---

## High-performance SERS detection of pesticides using BiOCl-BiOBr@Pt/Au hybrid nanostructures on styrofoams as 3D functional substrate

Authors (9): Balaji, Ramachandran; Vengudusamy, Renganathan ... Wabaidur, Saikh Mohammad

Published: Sep 2020 in Microchimica Acta

DOI: 10.1007/S00604-020-04558-3

---

## Preparation of a hydrophobic cerium oxide nanoparticle coating with polymer binder via a facile solution route

Authors (7): Yasmeen, Sumaira; Khan, Mohammad Rizwan ... Lee, Han-Bo-Ram

Published: Jun 2020 in Ceramics International

DOI: 10.1016/J.CERAMINT.2020.01.268

---

## Assessment of inorganic ion in drinking water using new method based on ultra - performance liquid chromatograph-mass spectrometry

Authors (4): Khan, Mohammad Rizwan; Wabaidur, Saikh Mohammad ... AlAmmari, Ahmad Moid

Published: Jun 2020 in Journal of King Saud University - Science

DOI: 10.1016/J.JKSUS.2020.03.010

---

## Trace identification of sulfate anion in bottled and metropolitan water samples collected from various provinces of Saudi Arabia

Authors (6): Khan, Mohammad Rizwan; Wabaidur, Saikh Mohammad ... Alsubhi, Ameen

Published: Apr 2020 in Journal of King Saud University - Science

DOI: 10.1016/J.JKSUS.2020.02.007

---

## Tunable Color Coating of E-Textiles by Atomic Layer Deposition of Multilayer TiO<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub> Films

Authors (6): Khan, Mohammad Rizwan; Kim, Hyun Gu ... Lee, Han-Bo-Ram

Published: Mar 2020 in Langmuir

DOI: 10.1021/ACS.LANGMUIR.9B03988

---

---

## Solvent extraction and gas chromatography-mass spectrometric determination of probable carcinogen 1,4-dioxane in cosmetic products

Authors (5): Alsohaimi, Ibrahim Hotan; Khan, Mohammad Rizwan ... Alammari, Ahmed Moid

Published: Mar 2020 in Scientific Reports

DOI: 10.1038/S41598-020-62149-X

---

## Trace identification of endocrine-disrupting bisphenol A in drinking water by solid-phase extraction and ultra-performance liquid chromatography-tandem mass spectrometry

Authors (3): Alammari, Ahmad Moid; Khan, Mohammad Rizwan; Aqel, Ahmad

Published: Mar 2020 in Journal of King Saud University - Science

DOI: 10.1016/J.JKSUS.2019.12.022

---

## Zn(II) complex derived from bidentate Schiff base ligand: Synthesis, characterization, DFT studies and evaluation of anti-inflammatory activity

Authors (9): Azam, Mohammad; Al-Resayes, Saud, I ... Wabaidur, Saikh Mohammad

Published: Feb 2020 in Journal of Molecular Structure

DOI: 10.1016/J.MOLSTRUC.2019.127177

---

## Surface Energy Change of Atomic-Scale Metal Oxide Thin Films by Phase Transformation

Authors (17): Oh, Il-Kwon; Zeng, Li ... Lee, Han-Bo-Ram

Published: Jan 2020 in ACS Nano

DOI: 10.1021/ACSNANO.9B07430

---

## Emergence of mutagenic/carcinogenic heterocyclic amines in traditional Saudi chicken dishes prepared from local restaurants

Authors (4): Alsohaimi, Ibrahim Hotan; Khan, Mohammad Rizwan ... Azam, Mohammad

Published: Oct 2019 in Food and Chemical Toxicology

DOI: 10.1016/J.FCT.2019.110677

---

## Identification of malachite green in industrial wastewater using lignocellulose biomass composite bio-sorbent and UPLC-MS/MS: a green environmental approach

Authors (6): Khan, Mohammad Rizwan; Wabaidur, Saikh Mohammad ... Azam, Mohammad

Published: Jun 2019 in Process Safety and Environmental Protection

DOI: 10.1016/J.PSEP.2019.04.008

---

## Cooking with elaborate recipes can reduce the formation of mutagenic heterocyclic amines and promote co-mutagenic amines

Authors (4): Rizwan Khan, Mohammad; Busquets, Rosa ... Puignou, Lluís

Published: Mar 2019 in Food Additives & Contaminants: Part A

DOI: 10.1080/19440049.2019.1571286

---

## Synthesis, structural investigations and pharmacological properties of a new zinc complex with a N4-donor Schiff base incorporating 2-pyridyl ring

Authors (11): Azam, Mohammad; Wabaidur, Saikh Mohammad ... Lbaqami, Nader Talmas M.

Published: Mar 2019 in Inorganica Chimica Acta

DOI: 10.1016/J.ICA.2018.12.009

---

---

## A simple solvent extraction and ultra-performance liquid chromatography-tandem mass spectrometric method for the identification and quantification of rhodamine B in commercial lip balm samples

Authors (3): Khan, Mohammad Rizwan; Khan, Javed Masood; Alqadami, Ayoub Abdullah

Published: Jan 2019 in Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy

DOI: 10.1016/J.SAA.2018.07.093

---

## An intermittent amyloid phase found in gemini (G5 and G6) surfactant induced beta-sheet to alpha-helix transition in concanavalin A protein

Authors (6): Khan, Javed Masood; Khan, Mohammad Rizwan ... Khan, Rizwan Hasan

Published: Nov 2018 in Journal of Molecular Liquids

DOI: 10.1016/J.MOLLIQ.2018.08.092

---

## Monitoring of acrylamide carcinogen in selected heat-treated foods from Saudi Arabia

Authors (5): Khan, Mohammad Rizwan; Alothman, Zeid Abdullah ... Alfadul, Sulaiman Mohammed

Published: Aug 2018 in Food Science and Biotechnology

DOI: 10.1007/S10068-018-0358-5

---

## High current density cation-exchanged SnO<sub>2</sub>-CdSe/ZnSe and SnO<sub>2</sub>-CdSe/SnSe quantum-dot photoelectrochemical cells

Authors (7): Naushad, Mu; Khan, M. R. ... Mane, Rajaram S.

Published: Jun 2018 in New Journal of Chemistry

DOI: 10.1039/C8NJ01409D

---

## Synthesis, Characterization and Environmental Applications of a New Bio-Composite Gelatin-Zr(IV) Phosphate

Authors (6): Thakur, Manita; Pathania, Deepak ... Khan, Mohammad Rizwan

Published: Apr 2018 in Journal of Polymers and the Environment

DOI: 10.1007/S10924-017-1043-0

---

## Photoremediation of toxic dye from aqueous environment using monometallic and bimetallic quantum dots based nanocomposites

Authors (9): Sharma, Gaurav; Kumar, Anuj ... Khan, M. R.

Published: Jan 2018 in Journal of Cleaner Production

DOI: 10.1016/J.JCLEPRO.2017.11.122

---

## Efficient removal of toxic phosphate anions from aqueous environment using pectin based quaternary amino anion exchanger

Authors (8): Naushad, Mu.; Sharma, Gaurav ... Khan, Mohammad R.

Published: Jan 2018 in International Journal of Biological Macromolecules

DOI: 10.1016/J.IJBIOMAC.2017.07.169

---

## Quantitative analysis of some inorganic anions (nitrate and nitrite) in metropolitan and bottled water samples using ultra-performance liquid chromatography/electrospray ionization mass spectrometry

Authors (7): Alsohaimi, Ibrahim Hotan; Khan, Mohammad Rizwan ... Ghfar, Ayman Abdul

Published: Jan 2018 in Desalination and Water Treatment

DOI: 10.5004/DWT.2018.21933

---

---

## ZnSe-WO<sub>3</sub> nano-hetero-assembly stacked on Gum ghatti for photo-degradative removal of Bisphenol A: Symbiose of adsorption and photocatalysis

Authors (9): Kumar, Amit; Naushad, Mu. ... Khan, Mohammad R.

Published: Nov 2017 in International Journal of Biological Macromolecules

DOI: 10.1016/J.IJBIOMAC.2017.06.116

---

## Solar-driven photodegradation of 17-beta-estradiol and ciprofloxacin from waste water and CO<sub>2</sub> conversion using sustainable coal-char/polymeric-g-C<sub>3</sub>N<sub>4</sub>/RGO metal-free nano-hybrids

Authors (8): Kumar, Amit; Kumar, Ajay ... Khan, Mohammad Rizwan

Published: Sep 2017 in New Journal of Chemistry

DOI: 10.1039/C7NJ01580A

---

## Determination of heavy metals in skin-whitening cosmetics using microwave digestion and inductively coupled plasma atomic emission spectrometry

Authors (7): Alqadami, Ayoub Abdullah; Naushad, Mu ... Ghfar, Ayman Abdel

Published: Aug 2017 in IET Nanobiotechnology

DOI: 10.1049/IET-NBT.2016.0212

---

## Efficient removal of coomassie brilliant blue R-250 dye using starch/poly(alginic acid-cl-acrylamide) nanohydrogel

Authors (9): Sharma, Gaurav; Naushad, Mu. ... Khan, Mohammad Rizwan

Published: Jul 2017 in Process Safety and Environmental Protection

DOI: 10.1016/J.PSEP.2017.04.011

---

## Presence of heterocyclic amine carcinogens in home-cooked and fast-food camel meat burgers commonly consumed in Saudi Arabia

Authors (3): Khan, Mohammad Rizwan; Naushad, Mu; Alothman, Zeid Abdullah

Published: May 2017 in Scientific Reports

DOI: 10.1038/S41598-017-01968-X

---

## Occurrence of acrylamide carcinogen in Arabic coffee Qahwa, coffee and tea from Saudi Arabian market

Authors (7): Khan, Mohammad Rizwan; Alothman, Zeid Abdullah ... Algamdi, Mohammad Saad

Published: Feb 2017 in Scientific Reports

DOI: 10.1038/SREP41995

---

## Fabrication and characterization of chitosan-crosslinked-poly(alginic acid) nanohydrogel for adsorptive removal of Cr(VI) metal ion from aqueous medium

Authors (9): Sharma, Gaurav; Naushad, Mu. ... Sharma, Arush

Published: Feb 2017 in International Journal of Biological Macromolecules

DOI: 10.1016/J.IJBIOMAC.2016.11.072

---

## Effect of Natural Food Condiments on Carcinogenic/Mutagenic Heterocyclic Amines Formation in Thermally Processed Camel Meat

Authors (6): Khan, Mohammad Rizwan; Naushad, Mu ... Ghfar, Ayman Abdul

Published: Feb 2017 in Journal of Food Processing and Preservation

DOI: 10.1111/JFPP.12819

---



---

## Adsorptive Removal of Toxic Dye Using Fe<sub>3</sub>O<sub>4</sub>-TSC Nanocomposite: Equilibrium, Kinetic, and Thermodynamic Studies

Authors (5): Alqadami, Ayoub Abdullah; Naushad, Mu ... Alothman, Zeid Abdullah

Published: Nov 2016 in Journal of Chemical & Engineering Data

DOI: 10.1021/ACS.JCED.6B00446

---

## SOLID PHASE EXTRACTION AND LC-MS/MS METHOD FOR QUANTIFICATION OF VENLAFAXINE AND ITS ACTIVE METABOLITE O-DESMETHYL VENLAFAXINE IN RAT PLASMA

Authors (9): Ahmad, Sarfaraz; Siddiqui, Masoom R. ... Khan, Mohammad R.

Published: Sep 2016 in Journal of the Chilean Chemical Society

DOI: 10.4067/S0717-97072016000300025

---

## Water Purification Using Cost Effective Material Prepared from Agricultural Waste: Kinetics, Isotherms, and Thermodynamic Studies

Authors (6): Naushad, Mu; Khan, Mohammad Rizwan ... Alqadami, Ayoub Abdullah

Published: Aug 2016 in Clean - Soil, Air, Water

DOI: 10.1002/CLEN.201600027

---

## Adsorption of methylene blue on chemically modified pine nut shells in single and binary systems: isotherms, kinetics, and thermodynamic studies

Authors (5): Naushad, Mu; Khan, Moonis Ali ... Kumar, Mahendra

Published: Jul 2016 in Desalination and Water Treatment

DOI: 10.1080/19443994.2015.1074121

---

## Novel guar gum/Al<sub>2</sub>O<sub>3</sub> nanocomposite as an effective photocatalyst for the degradation of malachite green dye

Authors (6): Pathania, Deepak; Katwal, Rishu ... Al-Muhtaseb, Ala'a H.

Published: Jun 2016 in International Journal of Biological Macromolecules

DOI: 10.1016/J.IJBIOMAC.2016.02.073

---

## Simultaneous determination of twenty-five polyphenols in multifloral and cactus honeys using solid-phase extraction and high-performance liquid chromatography with photodiode array detection

Authors (7): Ahmed, A. Y. Badjah Hadj; Wabaidur, Saikh M. ... Al-Tamrah, Saad A.

Published: Jun 2016 in European Food Research and Technology

DOI: 10.1007/S00217-015-2601-0

---

## Method for the fast determination of bromate, nitrate and nitrite by ultra performance liquid chromatography-mass spectrometry and their monitoring in Saudi Arabian drinking water with chemometric data treatment

Authors (5): Khan, Mohammad Rizwan; Wabaidur, Saikh Mohammad ... Naushad, Mu

Published: May 2016 in Talanta

DOI: 10.1016/J.TALANTA.2016.02.036

---

## Bromate removal from water samples using strongly basic anion exchange resin Amberlite IRA-400: kinetics, isotherms and thermodynamic studies

Authors (4): Naushad, Mu.; Khan, Mohammad Rizwan ... Awual, Md. Rabiul

Published: Mar 2016 in Desalination and Water Treatment

DOI: 10.1080/19443994.2015.1005157

---

---

## Nanomorphology-dependent pseudocapacitive properties of NiO electrodes engineered through a controlled potentiodynamic electrodeposition process

Authors (5): Kore, Rohan M.; Mane, Rajaram S. ... Lokhande, Balkrishna J.

Published: 2016 in RSC Advances

DOI: 10.1039/C5RA26041H

---

## Lanthanum/Cadmium/Polyaniline bimetallic nanocomposite for the photodegradation of organic pollutant

Authors (5): Sharma, Gaurav; Naushad, Mu. ... Khan, Mohammad Rizwan

Published: Dec 2015 in Iranian Polymer Journal

DOI: 10.1007/S13726-015-0388-2

---

## Removal of BrO<sub>3</sub><sup>-</sup> from drinking water samples using newly developed agricultural waste-based activated carbon and its determination by ultra-performance liquid chromatography-mass spectrometry

Authors (7): Naushad, Mu.; Khan, Mohammad R. ... Ali, Rahmat

Published: Oct 2015 in Environmental Science and Pollution Research

DOI: 10.1007/S11356-015-4786-Y

---

## Synthesis, characterization, and application of Fe-CNTs nanocomposite for BrO<sub>3</sub><sup>-</sup> remediation from water samples

Authors (6): Alsohaimi, Ibrahim Hotan; Khan, Moonis Ali ... Al Mahri, Albandary Mohammad

Published: Jun 2015 in Journal of Industrial and Engineering Chemistry

DOI: 10.1016/J.JIEC.2014.11.033

---

## Influence of food condiments on the formation of carcinogenic heterocyclic amines in cooked chicken and determination by LC-MS/MS

Published: Feb 2015 in Food Additives & Contaminants: Part A

DOI: 10.1080/19440049.2015.1008057

---

## Adsorption of methylene blue on strongly basic anion exchange resin (Zerolit DMF): kinetic, isotherm, and thermodynamic studies

Authors (5): Khan, Moonis Ali; AlOthman, Zeid Abdullah ... Luqman, Mohammad

Published: Jan 2015 in Desalination and Water Treatment

DOI: 10.1080/19443994.2013.838527

---

## Solid phase extraction and ultra performance liquid chromatography-tandem mass spectrometric identification of carcinogenic/mutagenic heterocyclic amines in cooked camel meat

Authors (5): Khan, Mohammad Rizwan; Naushad, Mu ... Algamdi, Mohammad Saad

Published: 2015 in RSC Advances

DOI: 10.1039/C4RA13967D

---

## Simultaneous determination of monosaccharides and oligosaccharides in dates using liquid chromatography-electrospray ionization mass spectrometry

Authors (6): Ghfar, Ayman A.; Wabaidur, Saikh M. ... Al-Shaalan, Nora H.

Published: 2015 in Food Chemistry

DOI: 10.1016/J.FOODCHEM.2014.12.035

---

---

## Equilibrium, kinetics and thermodynamic studies for the removal of organophosphorus pesticide using Amberlyst-15 resin: Quantitative analysis by liquid chromatography-mass spectrometry

Authors (5): Naushad, Mu; AlOthman, Z. A. ... ALSohaimi, I. H.

Published: Nov 2014 in Journal of Industrial and Engineering Chemistry

DOI: 10.1016/J.JIEC.2014.02.006

---

## Adsorptive removal of nitrate from synthetic and commercially available bottled water samples using De-Acidite FF-IP resin

Authors (4): Naushad, Mu; Khan, Moonis Ali ... Khan, Mohammad Rizwan

Published: Sep 2014 in Journal of Industrial and Engineering Chemistry

DOI: 10.1016/J.JIEC.2013.12.026

---

## Ultra Performance Liquid Chromatography Mass Spectrometry

Published: Mar 2014

DOI: 10.1201/B16670

---

## Quantitative determination of methylene blue in environmental samples by solid-phase extraction and ultra-performance liquid chromatography-tandem mass spectrometry: a green approach

Authors (6): Khan, Mohammad Rizwan; Khan, Moonis Ali ... Al-Shaalan, Nora H.

Published: 2014 in RSC Advances

DOI: 10.1039/C4RA03504F

---

## Quantitative analysis of bromate in non-alcoholic beer using ultra performance liquid chromatography-electrospray ionization mass spectrometry

Authors (5): Khan, Mohammad Rizwan; AlOthman, Zeid Abdullah ... Naushad, Mu

Published: 2014 in Analytical Methods

DOI: 10.1039/C4AY00050A

---

## Removal of malathion from aqueous solution using De-Acidite FF-IP resin and determination by UPLC-MS/MS: Equilibrium, kinetics and thermodynamics studies

Authors (3): Naushad, Mu; AlOthman, Z. A.; Khan, M. R.

Published: Oct 2013 in Talanta

DOI: 10.1016/J.TALANTA.2013.04.015

---

## Removal of Bromate from Water Using De-Acidite FF-IP Resin and Determination by Ultra-Performance Liquid Chromatography-Tandem Mass Spectrometry

Authors (4): Naushad, Mu.; AlOthman, Zeid A. ... Wabaidur, Saikh M.

Published: Jun 2013 in Clean - Soil, Air, Water

DOI: 10.1002/CLEN.201200461

---

## Analysis of aflatoxins in nonalcoholic beer using liquid-liquid extraction and ultraperformance LC-MS/MS

Authors (4): Khan, Mohammad R.; AlOthman, Zeid A. ... Wabaidur, Saikh M.

Published: Feb 2013 in Journal of Separation Science

DOI: 10.1002/JSSC.201200752

---

---

## Synthesis and structural characterization of Pd(II) complexes derived from perimidine ligand and their in vitro antimicrobial studies

Authors (9): Azam, Mohammad; Warad, Ismail ... Shakir, Mohammad

Published: 2013 in Journal of Molecular Structure

DOI: 10.1016/J.MOLSTRUC.2013.04.064

---

## Identification of Seafood as an Important Dietary Source of Heterocyclic Amines by Chemometry and Chromatography-Mass Spectrometry

Authors (5): Khan, Mohammad Rizwan; Busquets, Rosa ... Puignou, Lluís

Published: 2013 in Chemical Research in Toxicology

DOI: 10.1021/TX4001682

---

## A rapid method for the simultaneous determination of L-ascorbic acid and acetylsalicylic acid in aspirin C effervescent tablet by ultra performance liquid chromatography-tandem mass spectrometry

Authors (3): Wabaidur, Saikh Mohammad; Alothman, Zeid Abdullah; Khan, Mohammad Rizwan

Published: 2013 in Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy

DOI: 10.1016/J.SAA.2013.01.070

---

## An ultra performance liquid chromatography-electrospray ionization-mass spectrometry method for the rapid analysis of nitrate in drinking water

Authors (5): Khan, Mohammad Rizwan; Alothman, Zeid Abdullah ... Alsohaimi, Ibrahim Hotan

Published: 2013 in Analytical Methods

DOI: 10.1039/C2AY26239H

---

## Determination of capsaicinoids in Capsicum species using ultra performance liquid chromatography-mass spectrometry

Authors (6): Alothman, Zeid Abdullah; Wabaidur, Saikh Mohammad ... Ahmed, Yacine Badjah Hadj

Published: Nov 2012 in Journal of Separation Science

DOI: 10.1002/JSSC.201200459

---

## Determination of bromate in drinking water by ultraperformance liquid chromatography-tandem mass spectrometry

Authors (6): Alsohaimi, Ibrahim Hotan; Alothman, Zeid Abdullah ... Alomary, Ahmad Khodran

Published: Oct 2012 in Journal of Separation Science

DOI: 10.1002/JSSC.201200312

---

## Persistent Organic Pollutants: Overview of Their Extraction and Estimation

Authors (4): Alothman, Zeid Abdullah; Khan, Mohammad Rizwan ... Siddiqui, Masoom Raza

Published: Mar 2012 in Sensor Letters

DOI: 10.1166/SL.2012.2344

---

## A Comparative Study on Characterization of Aluminium Tungstate and Surfactant-Based Aluminium Tungstate Cation-Exchangers: Analytical Applications for the Separation of Toxic Metal Ions

Authors (4): Al-Othman, Z. A.; Naushad, Mu. ... Wabaidur, S. M.

Published: Mar 2012 in Journal of Inorganic and Organometallic Polymers and Materials

DOI: 10.1007/S10904-011-9594-3

---

---

## SIMULTANEOUS ANALYSIS OF VITAMIN C AND ASPIRIN IN ASPIRIN C EFFERVESCENT TABLETS BY HIGH PERFORMANCE LIQUID CHROMATOGRAPHY-PHOTODIODE ARRAY DETECTOR

Authors (5): Khan, Mohammad Rizwan; Alothman, Zeid Abdullah ... Wabaidur, Saikh Mohammad

Published: Jan 2012 in Journal of Liquid Chromatography & Related Technologies

DOI: 10.1080/10826076.2011.633679

---

## Preparation and characterisation of fried chicken as a laboratory reference material for the analysis of heterocyclic amines

Authors (5): Khan, M. R.; Mila, A. ... Puignou, L.

Published: Jul 2009 in Journal of Chromatography B

DOI: 10.1016/J.JCHROMB.2009.05.016

---

## Mutagenic heterocyclic amine content in thermally processed offal products

Published: Feb 2009 in Food Chemistry

DOI: 10.1016/J.FOODCHEM.2008.06.045

---

## New method for the analysis of heterocyclic amines in meat extracts using pressurised liquid extraction and liquid chromatography-tandem mass spectrometry

Authors (4): Khan, M. R.; Busquets, R. ... Puignou, L.

Published: Jun 2008 in Journal of Chromatography A

DOI: 10.1016/J.CHROMA.2008.04.058

---