Faheem Ahmed, Ph.D

Department of Applied Sciences and Humanities, Faculty of Engineering & Technology,
Jamia Millia Islami, New Delhi-110025, India
Email: **fahmed@jmi.ac.in;**| Telephone: +91-7895816353| Skype: faheem030|
URL: https://www.linkedin.com/in/dr-faheem-ahmed-50388715/

PROFESSIONAL PROFILE

- Internationally recognized track record of excellence in nanotechnology
- 225 peer reviewed journal publications in energy, spintronics, gas sensing, environmental and biomedical applications
- More than 10 Years of experience in research and teaching (Physics/Nanoscience)
- Extensive research and development experience in the nanostructures for energy storage (Li-ion, Li-S batteries, and supercapacitors)applications, gas sensors, and solar cells.
- Hands-on research experience in preparation of metal, metal oxide nanostructures, 2-D nanomaterials (Graphene, Graphene oxides, Carbon nanotubes)and nanocomposites with various dimensions
- Experienced research proposals writer with successfully funded projects from SAUDI ARAMCO, KACST, MINISTRY OF WATER (KSA), and Industry.

EMPLOYMENT HISTORY

09/2023 – Present

Associate Professor | Jamia Millia Islamia, New Delhi, India

- Focusing research on the nanostructures for energy storage (Lead free acid batteries, Li-ion, Li-S batteries and supercapacitors) applications, water desalination, and solar cells
- Teaching undergraduate and Master Student

09/2018 – 09/2023

Assistant Professor | King Faisal University, Hofuf, Saudi Arabia

- Focusing research on the nanostructures for energy storage (Li-ion, Li-S batteries and supercapacitors) applications, gas sensors, and solar cells
- Teaching undergraduate and graduate students

09/2014 – 08/2018

Assistant Research Professor | Alfaisal University, Riyadh, Saudi Arabia

- Focused research on the nanostructures for energy storage (Li-ion, Li-S batteries and supercapacitors)applications and solar cells
- Conducted experiments to fabricate thermally stable Li-ion and Li-S batteries
- Prepared nanofilters of graphene oxide for the removal of radioactive elements from ground water well
- Supervised undergraduate and graduate students
- Gave tutorials on General physics, General chemistry, Nanocharacterization tools, Growth of Nanostructures, Magnetic materials growth
- Published peer reviewed articles, writing patents, and proposals for funding

03/2013 – 08/2014

Postdoctoral Research Fellow | Changwon National University, Changwon, South Korea

- Developed innovative nanomaterials for solar cells, water purification, and biomedical applications.
- Developed highly sensitive metal oxide semiconductor-based gas sensors
- Developed ITO/FTO free flexible solar cells
- Various metal oxides were employed for device application in the form of nanorods, nanowires, nanotubes, and quantum dots prepared using chemical methods.

EDUCATION

08/2009 – 02/2013

Changwon National University | Changwon, South Korea

PhD: Nano and Advanced materials Engineering

Supervisor: Professor Koo

Thesis Title: Transition Metal (TM)-Doped ZnO Nanostructures

07/2005 – 06/2007

Aligarh Muslim University | Aligarh, India

MSc: Physics

PROFESSIONAL SKILLS

Preparation techniques:

- Growth of Metal, metal oxide nanostructures of various dimensions (0D, 1D, 2D, 3D, thin film growth on various substrates, Graphene based nanocomposites, Polymer nanocomposites

Characterization techniques:

- Transmission electron microscope (TEM) including HRTEM and SAED
- Scanning electron microscope (SEM)
- Atomic force microscope (AFM) and scanning tunneling microscope (STM)
- X-ray diffractometer (XRD)
- UV-visible spectrophotometer
- Raman spectrophotometer
- Photoluminescence (PL)
- Physical properties measurement system (PPMS)
- FT-IR
- Four point probe station
- Electrochemical studies (Potentiostate)
- Gas sensor

BOOKS/BOOK CHAPTERS

1. "CROP IMPROVEMENT UNDER ADVERSE CONDITIONS": Chapter 11: Nanobiotechnology: Scope and potential for crop improvement
   Faheem Ahmed, Nishat Arshi, Shalendra Kumar, Narendra Tuteja, Sarvajeet Singh Gill and Bon Heun Koo; (2013), pp245-269, DOI: 10.1007/978-1-4614-4633-0_11; ISBN: 978-1-4614-4633-0
   Springer Science + Business Media, LLC 233 Spring Street, New York, NY 10013, USA
2. "Renewable Energy Technologies for Water Desalination": Chapter 4: Metal oxide Nanophotocatalysts for water purification:
   Edreese Alsharaeh, Faheem Ahmed, and Nishat Arshi, 2017; CRC press, Taylor and Francis group
3. "New generation graphene oxide for removal of polycyclic aromatic hydrocarbons": in Graphene-Based Nanotechnologies for Energy and Environment

I Hussain, A Hussain, A Ahmad, H Rahman, MF Alajmi, F Ahmed, S Amir; 241-266, Elsevier, (2019)

PATENTS

Filed:

1. Faheem Ahmed, Nishat Arshi, Nagih Shaalan, Shalendra Kumar, Ghzzai Almutairi, Bandar Alotaibi, Thamraa Alshahrani, PMZ Hasan [**Method of synthesizing Zinc Oxide Nanoroses**], [**United Sates Patent**, App. 33101.74U; 2023].
2. Faheem Ahmed, Nishat Arshi, Nagih Shaalan, Shalendra Kumar, Ghzzai Almutairi, PMZ hasan, Naushad Ahmad, Thamraa Alshahrani, Afzal Hussain [**Method of Forming Metal Oxide Nanostructures on a TIN- buffered-Substrate**], [**United Sates Patent**, App. 18122396; 2023].
3. Faheem Ahmed, Nishat Arshi, Nagih Shaalan, Shalendra Kumar, Ghzzai Almutairi, PMZ hasan, Thamraa Alshahrani [**Multiwalled Carbon Nanotubes Based Flexible and Binder-Free Anode for Li-ion Batteries**], [**United Sates Patent**, App. 18124495; 2023].
4. Faheem Ahmed, Nagih Shaalan, Shalendra Kumar, Abdullah Aljaafari, Adil Alshoaibi, Nishat Arshi [**Method of making an Electrode having Multi-Walled Carbon Nanotubes**], [**United Sates Patent**, App. 17749531; 2022].

Accepted:

5. Faheem Ahmed, Mohammed Benali Kanoun, Souraya Goumri-Said, Moussab Belarbi, Nagih Shaalan, Nishat Arshi, Abdullah Aljaafari, Adil Alshoaibi, [**Method of making Dye-sensitized solar cells using coffee as natural dye on ZnO nanorods based Photoanode**], [**United Sates Patent** App. 17/246,697; 2022].
6. Nagih Shaalan, Faheem Ahmed, [**Method of making nanostructures of metal using low temperature deposition technique**], [**United Sates Patent**, 11,242,595; 2022].
7. Edreese Alsharaeh, Faheem Ahmed, Nishat Arshi, yasmin Mussa, Meshael Alturki, Yazeed Aldawsari, Azmat Khan], [**Method of making nanocomposites of metal oxide and reduced graphene oxide and use for cancer treatment**], [**United Sates Patent**, Patent Number: US 10149862B2; Pub date: Dec 11, 2018.
8. Muhammad Arsalan, Edreese Alsharaeh, Faheem Ahmed, Yazeed Fahad Aldosari], **Nanocomposite cathode materials for use in batteries**], [**United Sates Patent, (2019**), Number: 2019/0214647A1
9. Muhammad Arsalan, Edreese Alsharaeh, Yasmin Mussa, Faheem Ahmed], **Nanocomposite anode materials for use in batteries**], [**United Sates Patent, (2019),** Number: 2019/0214633A1
10. Ayman Almohsin, Edreese Alsharaeh, Faheem Ahmed], **Polymer gel with nanocomposite crosslinker**, **United Sates Patent, (2019**), Number: 2019/0112468A1

SELECTED Top 10 PUBLICATIONS (Total No. of publications: Journals-225, Conferences-15; Citations: 6282; h-index: 44; i10-index: 144)

https://scholar.google.com/citations?user=jFDl9R4AAAAJ&hl=en&oi=ao

Scopus ID: 55419740000**; ORCID:** https://orcid.org/0000-0002-5436-1966; **Web of Science Researcher ID:** AAS-4175-2021

1. *Faheem Ahmed, Ahmad Umar, Shalendra Kumar, Nagih Mohammed Shaalan, Nishat Arshi, Mohd Gulfam Alam, PMZ Hasan, Shahid M Ramay, Rizwan Khan, Abdullah Aljaafari, Adil Alshoaibi;* Manganese dioxide nanoparticles/reduced graphene oxide nanocomposites for hybrid capacitive desalination; ***Advanced Composites and Hybrid Materials (IF:20.1)**, 6, 1-11, **2023***

2. Faheem Ahmed, *Shalendra Kumar, Nishat Arshi, M.S.Anwar, Bon Heun Koo;* Direct relationship amongst lattice volume, bandgap, morphology and magnetization of transition metal (Cr, Mn and Fe)-doped ZnO nanostrutures; ***Acta Materialia (IF: 9.2)****, Volume 60, (2012), 5190-5196*
3. *TW Tseng, TW Chen, SM Chen, T Kokulnathan, F Ahmed, PMZ Hasan; Construction of strontium phosphate/graphitic-carbon nitride: A flexible and disposable strip for acetaminophen detection;* ***Journal of Hazardous Materials (IF: 14.2)****, 124542, 2020*
4. *A Umar, AA Ibrahim, R Kumar, H Albargi, MA Alsaiari, F Ahmed; Cubic shaped hematite (a-Fe2O3) micro-structures composed of stacked nanosheets for rapid ethanol sensor application;* ***Sensors and Actuators B: Chemical (IF: 9.2)*** *326, 128851, 2021*
5. *Thangavelu Kokulnathan, Tzyy-Jiann Wang, Elumalai Ashok Kumar, Faheem Ahmed; Construction of Nickel Cobalt-Layered Double Hydroxide/Functionalized–Halloysite Nanotubes Composite for Electrochemical Detection of Organophosphate Insecticide****; Chemical Engineering Journal (IF: 16.7)****, 133639 (2021.)*
6. *Ahmad Umar, Ahmed A. Ibrahim, Rajesh Kumar, Hassan Algadi, Hasan Albargi, Mabkhoot A. Alsairi, Mohsen A. M. Alhmami, Wen Zeng, Faheem Ahmed, hSheikh Akbar; CdO–ZnO nanorices for enhanced and selective formaldehyde gas sensing applications ;* ***Environmental Research (IF: 8.4)*** *200, 111377, (2021).*
7. *Edreese Alsharaeh, Faheem Ahmed, Yazeed Aldawsari, Majdi Khasawneh, Hatem Abuhimd, Mohammad Alshahrani;* Novel synthesis of holey reduced graphene oxide (HRGO) by microwave irradiation method for anode in lithium-ion batteries; ***Nature-Scientific Reports (IF: 4.9)****, 6, 29854 (2016)*
8. Faheem Ahmed, *Shalendra Kumar, Nagih Mohammed Shaalan, Osama Saber, Sarish Rehman, Abdullah Aljaafari, Hatem Abuhimd, Mohammad Alshahrani; Synergistic Effect of Hexagonal Boron Nitride-Coated Separators and Multi-Walled Carbon Nanotube Anodes for Thermally Stable Lithium-Ion Batteries****; Crystals, 12 (2), 125, (2021)***
9. F Ahmed, *G Almutairi, B AlOtaibi, S Kumar, N Arshi, SG Hussain, A Umar; Binder-Free Electrode Based on ZnO Nanorods Directly Grown on Aluminum Substrate for High Performance Supercapacitors;* ***Nanomaterials (IF: 5.7)*** *10 (10), 1979,* ***2020***
10. Faheem Ahmed, *Shalendra Kumar, Nishat Arshi, M.S.Anwar, Bon Heun Koo;* Morphological evolution between Nanorods to Nanosheets and Room Temperature Ferromagnetism of Fe-doped ZnO Nanostructures; ***CrystEngComm (IF: 3.75)*** *, Volume 14, (2012), 4016-4026*

AWARDS/GRANTS

- Institutioanl Funding 2023 ($ 8,000), Ministry of Education with King Faisal University, Saudi Arabia." Fe_2O_3-Ag_2O/TiO_2 Nanocatalyst-Assisted LC-MS/MS-based Detoxification of Pesticide Residues in Daphnia magna and Algae Mediums".
- Annual Project reward 2022 ($ 10,000), Deanship of Scientific Research, King Faisal University, Saudi Arabia." Synergistic Effect of Hexagonal Boron Nitride-Coated Separators and Multiwalled Carbon Nanotube Anodes for Thermally Stable Lithium-Ion Batteries".
- Ministry of Education, Research and Development, Saudi Arabia, RDO grant 2020 ($ 500,000). "New Plasmonic Metallic Nanoparticles Enhanced $BaTiO_2$ Photocatalysts".
- Innovative ideas Award (Hackathoon) 2020, King Faisal University Entrepreneurship Center, KSA.

- Institutioanl Funding 2021 ($ 8,000), Ministry of Education with King Faisal University, Saudi Arabia." Development of Selenium Nanoparticle based Agriculture Sensor for Heavy Metal Toxicity Detection".
- EXPEC, Saudi Aramco Research Grant-2017 ($ 200,000). "High Temperature High Pressure (HTHP) Rechargeable Li-ion batteries."
- EXPEC, Saudi Aramco Research Grant-2017 ($ 200,000). "Polymer gel® for high temperature, high pressure water shut off applications".
- Alfaisal University Internal Research Grant (IRG 2015), 2015 ($ 10,000). "Novel Biosynthesis of ZnO nanorods using Egg white and their antibacterial properties towards wide range of micro-organisms."
- KEPSTONE DESIGN (Korean Research Funding Agency) award ($ 40,000) in 2013 for designing a gas sensor.

PROFESSIONAL MEMBERSHIPS

Editorial board Member | International Journal of Nanomedicines (Consulting editor)
Nanotechnology and Nanoscience
Science Research
Advanced Science Letters
Journal of Nanomaterials

Peer Reviewer | Nature-Scientific Reports
International Journal of Nanomedicines
Environmental Science and Pollution Research
RSC Advances
Materials Letter
Alloys and Compounds
Powder Technology
Vacuum
Ceramics International

Lead Guest Editor | Journal of Nanomaterials (Special issue)
Scanning (Special issue)
Crystals (Special issue)

Guest Editor | Journal of Oncology (Special issue)
Crystals (Special issue)

Full List of Publications- Dr. Faheem Ahmed

PUBLICATIONS IN PEER REVIEWED JOURNALS

Year (2024)

1. **Synergistic Effect of Electrolytes on the Electrochemical Performance of CoFe2O4 Nanoparticles as Anode Materials for Supercapacitor Applications**

*Shalendra Kumar, Adil Alshoaibi, Ravina, Kavita Kumari, **Faheem Ahmed**, Nagih M Shaalan, Saurabh Dalela, Rajesh Kumar, PA Alvi*

Journal of Electronic Materials, 1-10.

2. **Impact of functionalized and structurally tuned cellulosic composite membranes on removal of metal ions, dye, drug, and proteins**

*Zoheb Karim, Mohd Jahir Khan, Afzal Husain, **Faheem Ahmed**, Zishan Husain Khan*

Colloids and Surfaces A: Physicochemical and Engineering Aspects, 134031.

3. **Unveiling the potential of PANI@ MnO2@ rGO ternary nanocomposite in energy storage and gas sensing**

*Ahmad Umar, Sheikh Akbar, Rajesh Kumar, **Faheem Ahmed**, Sajid Ali Ansari, Ahmed A Ibrahim, Mohsen A Alhamami, Noura Almehbad, Hassan Algadi, Tubia Almas, Wen Zeng*

Chemosphere, 349, 140657.

4. **Band gap engineering of Au doping and Au–N codoping into anatase TiO2 for enhancing the visible light photocatalytic performance**

*Mohammed Benali Kanoun, **Faheem Ahmed**, Chawki Awada, Christian Jonin, Pierre-Francois Brevet*

International Journal of Hydrogen Energy, 51, 907-913.

Year (2023)

5. **Manganese dioxide nanoparticles/reduced graphene oxide nanocomposites for hybrid capacitive desalination**

***F Ahmed**, A Umar, S Kumar, NM Shaalan, N Arshi, MG Alam, PMZ Hasan, ...*

Advanced Composites and Hybrid Materials 6 (1), 19

6. **Fabrication of High-Performance Asymmetric Supercapacitors Using Rice Husk-Activated Carbon and MnFe2O4 Nanostructures**

***F Ahmed**, S Kumar, NM Shaalan, N Arshi, S Dalela, KH Chae*

Nanomaterials 13 (12), 1870

7. **Fabrication of a biomass-derived activated carbon-based anode for high-performance li-ion batteries**

***F Ahmed**, G Almutairi, PMZ Hasan, S Rehman, S Kumar, NM Shaalan, ...*

Micromachines 14 (1), 192

8. **Influence of Fe Doping on the Electrochemical Performance of a ZnO-Nanostructure-Based Electrode for Supercapacitors**

*S Kumar, **F Ahmed**, NM Shaalan, N Arshi, S Dalela, KH Chae*

Nanomaterials 13 (15), 2222

9. **Improvement of Supercapacitor Performance of In Situ Doped Laser-Induced Multilayer Graphene via NiO**

*NM Shaalan, S Kumar, **F Ahmed**, N Arshi, S Dalela, KH Chae*

Nanomaterials 13 (14), 2081

10. **Synthesis of 3D Flower-Like Zinc-Chromium Layered Double Hydroxides: A Functional Electrode Material for Furaltadone Detection**

*T Kokulnathan, TJ Wang, **F Ahmed**, T Alshahrani*

Process Safety and Environmental Protection

11. **Investigations of Structural, Magnetic, and Electrochemical Properties of NiFe2O4 Nanoparticles as Electrode Materials for Supercapacitor Applications**

*S Kumar, **F Ahmed**, NM Shaalan, N Arshi, S Dalela, KH Chae*

Materials 16 (12), 4328

12. **Synthesis of praseodymium vanadate in deep eutectic solvent medium for electrochemical detection of furaltadone**

*TW Chen, TS Priya, SM Chen, T Kokulnathan, **F Ahmed**, T Alshahrani*

Process Safety and Environmental Protection 174, 368-375

13. **Enhanced Thermal Stability of Sputtered TiN Thin Films for Their Applications as Diffusion Barriers against Copper Interconnect**

*A Aljaafari, **F Ahmed**, NM Shaalan, S Kumar, A Alsulami*

Inorganics 11 (5), 204

14. **Fe2O3-Ag2O/TiO2 Nanocatalyst-Assisted LC-MS/MS-Based Detoxification of Pesticide Residues in Daphnia magna and Algae Mediums**

***F Ahmed**, TN Rao, N Arshi, Y Prashanthi, S Kumar, A Alshoaibi*

Crystals 13 (4), 644

15. **Synthesis and investigations of structural, surface morphology, electrochemical, and electrical properties of NiFe2O4 nanoparticles for usage in supercapacitors**

Ravina, Shalendra Kumar, SZ Hashmi, Garima Srivastava, Jasgurpreet Singh, AM Quraishi, Saurabh Dalela, ***Faheem Ahmed****, PA Alvi*

Journal of Materials Science: Materials in Electronics 34 (10), 868

16. **Structural, Optical, Magnetic and Electrochemical Properties of CeXO2 (X: Fe, and Mn) Nanoparticles**

*S Kumar****, F Ahmed****, NM Shaalan, N Arshi, S Dalela, KH Chae*

Materials 16 (6), 2290

17. **Electrochemical Performance of Potassium Bromate Active Electrolyte for Laser-Induced KBr-Graphene Supercapacitor Electrodes**

NM Shaalan, ***F Ahmed****, S Kumar, MM Ahmad, AF Al-Naim, D Hamad*

Inorganics 11 (3), 109

18. **Electrochemical and electronic structure properties of high-performance supercapacitor based on Nd-doped ZnO nanoparticles**

J Sahu, S Kumar, ***F Ahmed****, PA Alvi, B Dalela, DM Phase, M Gupta, ...*

Journal of Energy Storage 59, 106499

19. **Potential Applications of Chitosan-Coated Zinc Oxide Nanoparticles for Degrading Pesticide Residues in Environmental Soils**

WM Daqa, A Alshoaibi, ***F Ahmed****, TN Rao*

Crystals 13 (3), 391

20. **Fabrication of flower-like nickel cobalt-layered double hydroxide for electrochemical detection of carbendazim**

T Kokulnathan, TJ Wang, ***F Ahmed****, N Arshi*

Surfaces and Interfaces 36, 102570

21. **Editorial for the Special Issue "Organic/Metal Oxide Thin Films for Optoelectronic/Photovoltaic and Sensing Applications**"

MW Alam, SA Ansari, ***F Ahmed***

Crystals 13 (2), 173

22. **Combining second harmonic generation and multiphoton excited photo-luminescence to investigate TiO 2 nanoparticle powders**

C Jonin, E Salmon, ***F Ahmed****, MB Kanoun, C Awada, PF Brevet*

Physical Chemistry Chemical Physics 25 (26), 17281-17286

23. Synthesis and gas-sensing properties of ZnO nanoflowers for hydrogen sulphide (H2S) detection

A Umar, AA Ibrahim, MA Alhamami, S Hussain, H Algadi, ***F Ahmed****, ...*

Materials Express 13 (1), 117-123

24. Deep eutectic solvents-assisted synthesis of NiFe-LDH/Mo2C nanocomposite for electrochemical determination of nitrite

T Kokulnathan, TJ Wang, ***F Ahmed****, S Kumar*

Journal of Molecular Liquids 369, 120785

25. Structural growth of zinc oxide nanograins on carbon cloth as flexible electrochemical platform for hydroxychloroquine detection

T Kokulnathan, TJ Wang, T Murugesan, AJ Anthuvan, RR Kumar, ***F. Ahmed****, N. Arshi*

Chemosphere 312, 137186

26. Hydrothermal synthesis of ZnCr-LDH/tungsten carbide composite: a disposable electrochemical strip for mesalazine analysis

T Kokulnathan, TJ Wang, ***F Ahmed****, T Alshahrani*

Chemical Engineering Journal 451, 138884

Year (2022)

27. Ceramic Ti/TiO2/AuNP Film with 1-D Nanostructures for Selfstanding Supercapacitor Electrodes

Nagih M Shaalan, ***Faheem Ahmed****, Mohamed Rashad, Shalendra Kumar, Osama Saber, Abdullah F Al-Naim, Hicham M Kotb, Mohammed Ezzeldien, Amera Z Mahmoud*

Crystals, 12, 791, (2022)

28. Ceramic Ti/TiO2/AuNP Film with 1-D Nanostructures for Selfstanding Supercapacitor Electrodes

Nagih M Shaalan, ***Faheem Ahmed****, Mohamed Rashad, Shalendra Kumar, Osama Saber, Abdullah F Al-Naim, Hicham M Kotb, Mohammed Ezzeldien, Amera Z Mahmoud*

Crystals, 12, 791, (2022)

29. Morphological evaluation of hematite nanostructures and their shape dependent photocatalytic and magnetic properties

Sarish Rehman, ***Faheem Ahmed****, Muhammad Umar Aslam Khan, Abdullah Aljaafari, Sivakumar Manickam, Pau Loke Show*

Chemical Engineering and Processing-Process Intensification, 175, 108909, (2022)

30. Synthesis of magnetically recoverable Ru/Fe3O4 nanocomposite for efficient photocatalytic degradation of methylene blue

*Avvaru Praveen Kumar, **Faheem Ahmed**, Shalendra Kumar, G Anuradha, Kalla Harish, Begari Prem Kumar, Yong-Ill Lee*

Journal of Cluster Science, 33, 853-865, (2022)

31. **Construction of nickel cobalt-layered double hydroxide/functionalized–halloysite nanotubes composite for electrochemical detection of organophosphate insecticide**

*Thangavelu Kokulnathan, Tzyy-Jiann Wang, Elumalai Ashok Kumar, **Faheem Ahmed***

Chemical Engineering Journal, 433, 133639, (2022)

32. **Tailored Construction of One-Dimensional TiO_2/Au Nanofibers: Validation of an Analytical Assay for Detection of Diphenylamine in Food Samples**

Thangavelu Kokulnathan, Ramakrishnan Vishnuraj, Shen-Ming Chen, Biji Pullithadathil, ***Faheem Ahmed***, P.M.Z. Hasan, Anwar L. Bilgrami, Shalendra Kumar

Food Chemistry, Accepted (2022)

33. **Synergistic Effect of Hexagonal Boron Nitride-Coated Separators and Multi-Walled Carbon Nanotube Anodes for Thermally Stable Lithium-Ion Batteries**

Faheem Ahmed, Shalendra Kumar, Nagih Mohammed Shaalan, Osama Saber, Sarish Rehman, Abdullah Aljaafari, Hatem Abuhimd, Mohammad Alshahrani

Crystals, 12 (2), 125, (2021)

34. **Studies on Synthesis and Characterization of Fe_3O_4@ SiO_2@ Ru Hybrid Magnetic Composites for Reusable Photocatalytic Application**

Avvaru Praveen Kumar, Dinesh Bilehal, Tegene Desalegn, Shalendra Kumar, ***Faheem Ahmed***, HC Murthy, Deepak Kumar, Gaurav Gupta, Dinesh Kumar Chellappan, Sachin Kumar Singh, Kamal Dua, Yong-Ill Lee

Adsorption Science & Technology, 2022, 1-18, (2022)

35. **Structural, Magnetic, and Electrical Properties of CoFe2O4 Nanostructures Synthesized Using Microwave-Assisted Hydrothermal Method**

Shalendra Kumar, Faheem Ahmed, Nagih M Shaalan, Rajesh Kumar, Adil Alshoaibi, Nishat Arshi, Saurabh Dalela, Fatima Sayeed, Sourabh Dwivedi, Kavita Kumari

Materials, 15, 7955 (2022)

36. **Structural, Morphological, Optical and Magnetic Studies of Cu-Doped ZnO Nanostructures**

Shalendra Kumar, Faheem Ahmed, Naushad Ahmad, Nagih M Shaalan, Rajesh Kumar, Adil Alshoaibi, Nishat Arshi, Saurabh Dalela, Fatima Sayeed, Kavita Kumari

Materials, 15, 8184 (2022)

37. **Structural, Morphological, Optical and Magnetic Studies of Cu-Doped ZnO Nanostructures**

Shalendra Kumar, Faheem Ahmed, Naushad Ahmad, Nagih M Shaalan, Rajesh Kumar, Adil Alshoaibi, Nishat Arshi, Saurabh Dalela, Fatima Sayeed, Kavita Kumari

Materials, 15, 8184 (2022)

38. **Anticancer potential of gold nanoparticles (AuNPs) using a battery of in vitro tests**

NO Alafaleq, A Alomari, MS Khan, GM Shaik, A Hussain, F Ahmed

Nanotechnology Reviews 11 (1), 3292-3304

Year (2021)

39. **Construction of Nickel Cobalt-Layered Double Hydroxide/Functionalized–Halloysite Nanotubes Composite for Electrochemical Detection of Organophosphate Insecticide**

Thangavelu Kokulnathan, Tzyy-Jiann Wang, Elumalai Ashok Kumar, ***Faheem Ahmed***

Chemical Engineering Journal (IF: 13.2), 133639 (2021)

40. **An Experimental and Theoretical Study on the Effect of Silver Nanoparticles Concentration on the Structural, Morphological, Optical, and Electronic Properties of TiO_2 Nanocrystals**

Faheem Ahmed, Mohammed Benali Kanoun, Chawki Awada, Christian Jonin, Pierre-Francois Brevet

Crystals, 11 (12), 1488, (2021)

41. **Integrating graphene oxide with magnesium oxide nanoparticles for electrochemical detection of nitrobenzene**

T Kokulnathan, AI Jothi, SM Chen, G Almutairi, ***F Ahmed***, N Arshi

Journal of Environmental Chemical Engineering 9 (6), 106310, (2021)

42. **Electrochemical Behavior of Three-Dimensional Cobalt Manganate with Flowerlike Structures for Effective Roxarsone Sensing**

T Kokulnathan, V Rajagopal, TJ Wang, SJ Huang, ***F Ahmed***

Inorganic Chemistry, (2021)

43. **Construction of two-dimensional molybdenum carbide based electrocatalyst for real-time monitoring of parathion-ethyl**

T Kokulnathan, TJ Wang, ***F Ahmed***

Journal of Environmental Chemical Engineering, 106537, (2021)

44. **Electronic structure and electrochemical properties of La-doped BiFeO3 nanoparticles**

S Kumar, G Srivastava, G Almutairi, ***F Ahmed***, NM Shaalan, S Dalela

Journal of Electron Spectroscopy and Related Phenomena, 147138, (2021)

45. **Structural, Optical, Electrical and Antibacterial Properties of Fe-Doped CeO_2 Nanoparticles**

Shalendra Kumar, Suliman Yousef AlOmar, Kavita Kumari, Fadwa Albalawi, Rajesh Kumar, ***Faheem Ahmed***, Naushad Ahmad, Sourabh Dwivedi, Parvez Ahmad Alvi

Crystals 11 (12), 1594, (2021)

46. **One-Step Multi-Doping Process for Producing Effective Zinc Oxide Nanofibers to Remove Industrial Pollutants Using Sunlight**

O Saber, NM Shaalan, ***F Ahmed***, S Kumar, A Alshoaibi

Crystals 11 (10), 1268, (2021)

47. Role of Bi-excess on structural, electrical, optical, and magnetic properties BiFeO3 nanoparticles

A Kumari, K Kumari, ***F Ahmed***, MM Ahmad, J Sharma, A Vij, S Kumar

Journal of Materials Science: Materials in Electronics 32 (19), 23968-23982, (2021)

48. Synthesis of Magnetically Recoverable Ru/Fe3O4 Nanocomposite for Efficient Photocatalytic Degradation of Methylene Blue

AP Kumar, ***F Ahmed***, S Kumar, G Anuradha, K Harish, BP Kumar, YI Lee

Journal of Cluster Science, 1-13, (2021)

49. Microwave Mediated Fast Synthesis of Silver Nanoparticles and Investigation of Their Antibacterial Activities for Gram-Positive and Gram-Negative Microorganisms

Faheem Ahmed*, Suliman Yousef AlOmar, Fadwa Albalawi, Nishat Arshi, Sourabh Dwivedi, Shalendra Kumar, Nagih Mohammed Shaalan and Naushad Ahmad*

Crystals *11*(6), 666, (2021)

50. Growth of Defect-Induced Carbon Nanotubes for Low-Temperature Fruit Monitoring Sensor

Nagih M. Shaalan, Osama Saber, ***Faheem Ahmed****, Abdullah Aljaafari, Shalendra Kumar*

Chemosensors, 9, 131, (2021)

51. Amperometric determination of ecotoxic N-methyl-p-aminophenol sulfate in photographic solution and river water samples based on graphene oxide/CeNbO4 nanocomposite catalyst

Bhuvanenthiran Mutharani, Praveen Kumar Gopi, Shen-Ming Chen, Hsieh-Chih Tsai, ***Faheem Ahmed****, Ahmed S Haidyrah, Palraj Ranganathan*

Ecotoxicology and Environmental Safety, 220, 112373, (2021)

52. Structural and Magnetic Properties Study of Fe2O3/{NiO}/Ni2FeO4 Nanocomposites

Zakia Alhashem, Chawki Awada, ***Faheem Ahmed,*** *Ashraf H. Farha*

Crystals, 11, 613, (2021)

53. CdO–ZnO nanorices for enhanced and selective formaldehyde gas sensing applications

Ahmad Umar, Ahmed A Ibrahim, Rajesh Kumar, Hassan Algadi, Hasan Albargi, Mabkhoot A Alsairi, Mohsen AM Alhmami, Wen Zeng, ***Faheem Ahmed****, Sheikh Akbar*

Environmental Research, 111377, (2021)

54. Biosynthesis of CeO2 Nanoparticles Using Egg White and Their Antibacterial and Antibiofilm Properties on Clinical Isolates

Shalendra Kumar, ***Faheem Ahmed,*** *Nagih M. Shaalan, Osama Saber*

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