



YEAR 2025 NEWSLETTER



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- 1st Position in Research Publications Across the Campus



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INSIGHTS



The **Department of Physics** at COMSATS University Islamabad, Lahore Campus continues to demonstrate excellence in research, teaching, and innovation, strengthening its position as a leading academic and research center. Faculty achievements, including quality research publications, funded projects, and international recognitions, reflect the department's growing global presence and impact. The department maintains a strong academic environment through modern teaching practices, updated curricula, and well-equipped laboratories that support practical learning and critical thinking. Students actively participate in research projects, academic competitions, and scientific exhibitions, highlighting a culture of creativity and inquiry. Through ongoing collaborations, student engagement, and a commitment to quality education, the department continues to foster innovation and contribute to scientific and technological advancement.



Editorial Board

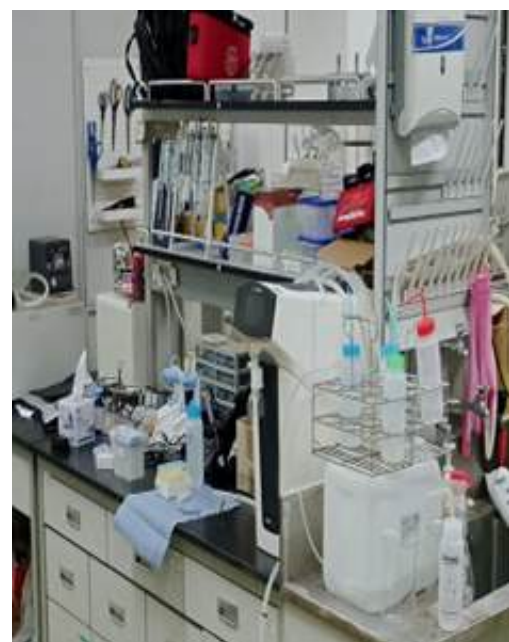
Dr. Faiza Mustafa

Dr. Mahrukh Bokhari

Ms. Samra Syed

FACULTY INTERNATIONAL ENGAGEMENTS

Dr. Aamir Razaq HoD/Associate Professor from Physics Department COMSATS Lahore campus, visited **Sejong University, South Korea** in August 2025. The visit was aimed to finalize experimental fabrication and analysis on metal and filter-based paper electrodes under **HEC NRPU research project(15312/NRPUR&D/HEC)** entitled "**Development of Flexible and Highly Absorbing Paper-Based Electrodes for Next-Generation Hybrid Energy Storage/Conversion Devices**"



FACULTY INTERNATIONAL ENGAGEMENTS

Dr. Aamir Razaq HoD/Associate Professor from Physics Department COMSATS Lahore campus, visited China and Malaysia in November 2025 Under PSF-NSFC research project. He visited **Wuhan University(WU), Wuhan University of Technology(WUT), South China University of Technology(SCUT), Hunan University(HU), Beijing Institute of Technology(BIT) and Sunway University(SU) in mid-November** as part of an academic trip. During his visit, he toured several research laboratories and interacted with researchers across different groups. His visit proved valuable for academic exchange and opened doors for potential future collaborations.

Glimpses from China & Malaysia Visits

Visit of Wuhan University, China



Visit of Wuhan University of Technology(WUT), China



FACULTY INTERNATIONAL ENGAGEMENTS

Visit of South China University of Technology(SCUT), China



Visit of Hunan University (HU), China



FACULTY INTERNATIONAL ENGAGEMENTS

Visit of Beijing Institute of Technology (BIT), China



Visit of Sunway University (SU), Malaysia



FACULTY INTERNATIONAL ENGAGEMENTS

Dr. Ishrat Sultana visited Wuhan University (School of Resource and Environmental Sciences, **Wuhan, China**) and Hunan University (School of Materials Science and Engineering, **Changsha, China**) under a collaborative research project between the **Pakistan Science Foundation (PSF)** and the **National Science Foundation of China (NSFC) (Project No. PSF/NSFC-V/ENG/C-COMSATS/34)**. The visits aimed to strengthen international research collaboration and promote joint scientific initiatives between COMSATS University and leading Chinese institutions.



SEMINARS / INVITED TALKS

The Department of Physics, CUI Lahore made a distinguished presence at the 3rd International Conference on Recent Trends in Physics held from April 9–11, 2025, at the Department of Physics, Forman Christian College (A Chartered University), Lahore, Pakistan. **Dr. Aamir Razaq HoD/Associate Professor** delivered an inspiring invited talk titled: **"Freestanding and Robust Paper Electrodes for Energy Storage Applications"**. **Dr. Abdul Sattar** presented an insightful talk on: **"Symmetry-Driven Phenomena in 2D Materials: From Berry Curvature to Topological Responses"** **Dr. M. Jamil Alvi** shared his research on: **"Transverse Modes in Quantum Plasma Waveguides"** MS and PhD students from the department also actively participated, showcasing the vibrant research culture and academic excellence of COMSATS Lahore. A proud moment for our team to contribute to the global dialogue on cutting-edge physics research!



Dr. Naima Amin delivered a talk as invited speaker on international seminar on **"Women in STEM: Challenges, Opportunities, and Achievements"** organized by the Govt Sadiq College Women University Bahawalpur Title of the Talk: **Medical Physics in the 21st Century: Pathways to Success and Innovation.**

Dr. Naima Amin delivered a talk as Invited Speaker on 3rd International Conference on Emerging Trends in Physics (ICETP-2025), Title of the Talk : **Next-Generation Tissue-Equivalent Phantoms for Precision Breast Cancer Radiation Therapy.**



SEMINARS / INVITED TALKS

A seminar titled **“Analytical Minds, Administrative Impact: Transitioning from Science to Civil Services”** was held on June 12, 2025 organized by **Dr. Akbar Ali**. The session featured Ms. Shiza Rehman, Deputy Secretary (PAS, 47th Common), who shared valuable insights on transitioning from science to civil services. The seminar inspired students by highlighting career pathways and the role of analytical thinking in public administration.



“REACHING FOR THE SPACE”

Friday
19 Dec 2025

4:30 - 5:30 pm

Seminar Room,
A Block

Join us for an
immersive talk on
Astronautical Sciences

HASAAN MOHSIN
Astronautics Researcher

Department of Physics,
COMSATS University Lahore

A seminar titled **“Reaching for the Space”** was organized by the Department of Physics, COMSATS University Islamabad, Lahore Campus.

The session featured **Mr. Hasaan Mohsin**, an **Astronautics Researcher**, who shared his insights on astronautical sciences and space research.

The seminar provided an engaging learning experience, inspiring students to explore emerging opportunities in space science and technology.

SEMINARS / INVITED TALKS

Snapshots



The Department of Physics, COMSATS University Islamabad, Lahore Campus, hosted a seminar titled **“Mysteries of Quantum Mechanics”** delivered by **Prof. Dr. M. Suhail Zubairy**, University Distinguished Professor at Texas A&M University, USA.

The seminar provided valuable insights into modern developments in quantum optics and quantum mechanics. The session was attended by faculty members and students.

COMSATS University Islamabad, Lahore Campus

Prof. Dr. M Suhail Zubairy
Ph.D., B.S., Ph.D.
University Distinguished Professor,
Mansurif/Heep Endowed Chair in
Quantum Optics,
Texas A&M University, USA

Seminar on:
MYSTERIES OF QUANTUM MECHANICS

Chief Organizer:
Dr. Akbar Ali
Associate Prof. Physics

May 29, 2025
Session Time: 11:00-1:00 PM

Venue:
Seminar Room A Block,
Department of Physics

Register by clicking the following link:
https://forms.gle/CMY3W1AKWAMU666



**A Symposium on Quantum Journey:
100 Years of Discovery**
Department of Physics
COMSATS University Islamabad, Lahore Campus

Speakers:

- Dr. Bilal Masud**
Ex-Director
CHEP, PU, Lahore
Presentations of Quantum Mechanics
- Dr. Faisal Akram**
Associate Professor
CHEP, PU, Lahore
Interpretation of Quantum Mechanics
- Dr. Junaid Amjad**
Associate Professor
Physics Department, CUI, Lahore
Quantum Computing in Modern Era

Organizer:
Dr. Nosheen Akbar
Associate Professor
Physics Department, CUI, Lahore

Venue: Seminar Room A Block, CUI, Lahore Campus
Mark the Date: October 9, 2025
Timing: 11:30 a.m.

The Department of Physics, COMSATS University Islamabad, Lahore Campus, organized a symposium titled **“Quantum Journey: 100 Years of Discovery.”**

The event featured talks by **Dr. Bilal Masud, Dr. Faisal Akram, and Dr. Junaid Amjad**, who shared insights on quantum mechanics and quantum computing. The symposium was attended by faculty members and students.



SEMINARS / INVITED TALKS

The Department of Physics, COMSATS University Islamabad, Lahore Campus, hosted a seminar titled **“The Expanding Family of 2D Materials for Next Generation Devices.”** The talk was delivered by **Dr. Muhammad Sufyan** Ramzan from Friedrich Schiller University Jena, Germany. The seminar highlighted recent advances in 2D materials and opportunities for MS/PhD studies in Europe.



COMSATS University
Islamabad
Lahore Campus

Organized By



Department of
Physics

The Expanding Family of 2D Materials for Next Generation Devices.

The ever-growing space of 2D materials offers exceptional opportunities to tailor optoelectronic properties at the atomic scale on demand, yet their rational design requires complementary theoretical support. In this seminar, I will demonstrate how first-principles methods are advancing this frontier. First, I will present a new MA-Z, material class, whose composition-dependent bandgaps and suppressed (E-K) valley competition enable enhanced photoluminescence. Second, I will show how van der Waals (vdW) heterostructures extend functionality through controlled charge separation and strain-mediated band engineering. Finally, I will introduce a so-called two-step approach that bypasses supercell limitations to efficiently model lattice-mismatch effects, providing a cost-effective route to model vdW heterostructures.

There will be half an hour discussion on queries regarding admission in MS/PhD in Europe.

Wednesday April 30th 02:30pm PST

Venue: Meeting Seminar Room IRCBM COMSATS Lahore



Speaker:
Dr. Muhammad Sufyan Ramzan

Department of Physics
Astronomy Friedrich Schiller
University Jena, Germany

NO Registration
Needed



Empowering Future Educators: Integrating Physics into STEM Education
STEM Teaching and Embrace Future Challenges

SCIENCE | TECHNOLOGY | ENGINEERING | MATHEMATICS

Key Note Speaker: Sehrish Ali
Administrator & Coordinator
Lahore Grammar School, JT Lahore

Wednesday, 26th February, 2025
Start at 10:00 am
Physics Department
A Block
Seminar Hall

The Department of Physics, COMSATS University Islamabad, Lahore Campus, organized interactive sessions on **“Integrating Physics into STEM Education”** and **“Technology-Based Teaching & AI.”**

The talks were delivered by **Sehrish Ali and Shahroz Khan**, highlighting modern teaching approaches and the role of technology and AI in education.



FACULTY ACHIEVEMENTS

The **Award Distribution Ceremony** was held under the esteemed presence of the **Worthy Rector CUI**, recognizing excellence in academic performance and research. Faculty members, including **Dr. M. Aamir Razaq (HOD)**, **Dr. Ghazanfar Abbas**, **Dr. Mukhtar Ahmad** and **Dr. Naima Amin**, were honored for their outstanding contributions to research and academia.



FACULTY ACHIEVEMENTS

Faculty members of the Department of Physics, COMSATS University Islamabad, Lahore Campus, **Dr. Aamir Razaq (HOD, Physics), Dr. Rizwan Raza and Dr. Mukhtar Ahmad**, have been recognized among the World's **Top 2%** Scientists, according to the global ranking based on Scopus citation data compiled by Stanford University. This prestigious recognition highlights their outstanding research contributions and global scientific impact. The achievement reflects the department's strong commitment to excellence in research and innovation. The university community congratulates the distinguished scientists on this remarkable accomplishment.



COMSATS FACULTY IN STANFORD
TOP 2% SCIENTISTS
BY SCOPUS



Dr. Aamir Razaq
Head of Department / Associate Professor, Physics

Research Areas:
Nanostructured conductive-paper composites
Conductive polymers & metallic nanorods
Nanocellulose and lignin fibers
Batteries | Supercapacitors | Flexible Electronics | Biomolecule Separation

Current Research Impact: **Approved Grant : PKR 8.92 Million**
Citations: 3,338
h-index: 27 | i10-index: 50
PSF(PSF/NSFC China 2024)
(Ongoing Project)

Celebrating the Research Excellence of Dr. Aamir!
Pioneering Researcher in Nanocomposite Energy Materials
COMSATS University Islamabad, Lahore Campus, Pakistan



COMSATS FACULTY IN STANFORD
TOP 2% SCIENTISTS
by SCOPUS



Dr. Rizwan Raza
Professor

Citations: 9,368 | h-index: 54 | i10-index: 156

Awards & Honors:
★ Pakistan Gold Medal - Pakistan Academy of Sciences
★ Early Career Research Award - Commonwealth, UK
★ Idea to Product Award - Stockholm, Sweden

Publications: 200+ International Journal Papers
Invited Talks: 60 | Conference Papers: 30

Inspiring sustainable innovation and empowering the next generation of energy professionals!



COMSATS FACULTY IN STANFORD
TOP 2% SCIENTISTS

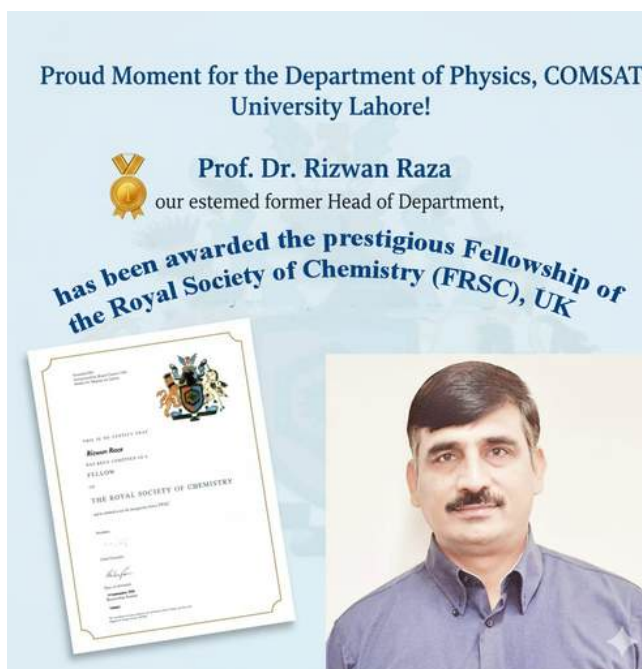


Dr. Mukhtar Ahmad
Professor (Associate)

Research Areas:
• Magnetic Materials (Micro- and nano-sized) for Water Purification
• Magnetic Oxides
• Lithium Ion Batteries (LIBs)
• Energy Storage Devices.

Celebrating Academic Excellence!
Citations: 3,919 | h-index: 39 | i10-index: 68



A remarkable journey of research, impact, and innovation!



Proud Moment for the Department of Physics, COMSATS University Lahore!

Prof. Dr. Rizwan Raza
our esteemed former Head of Department,

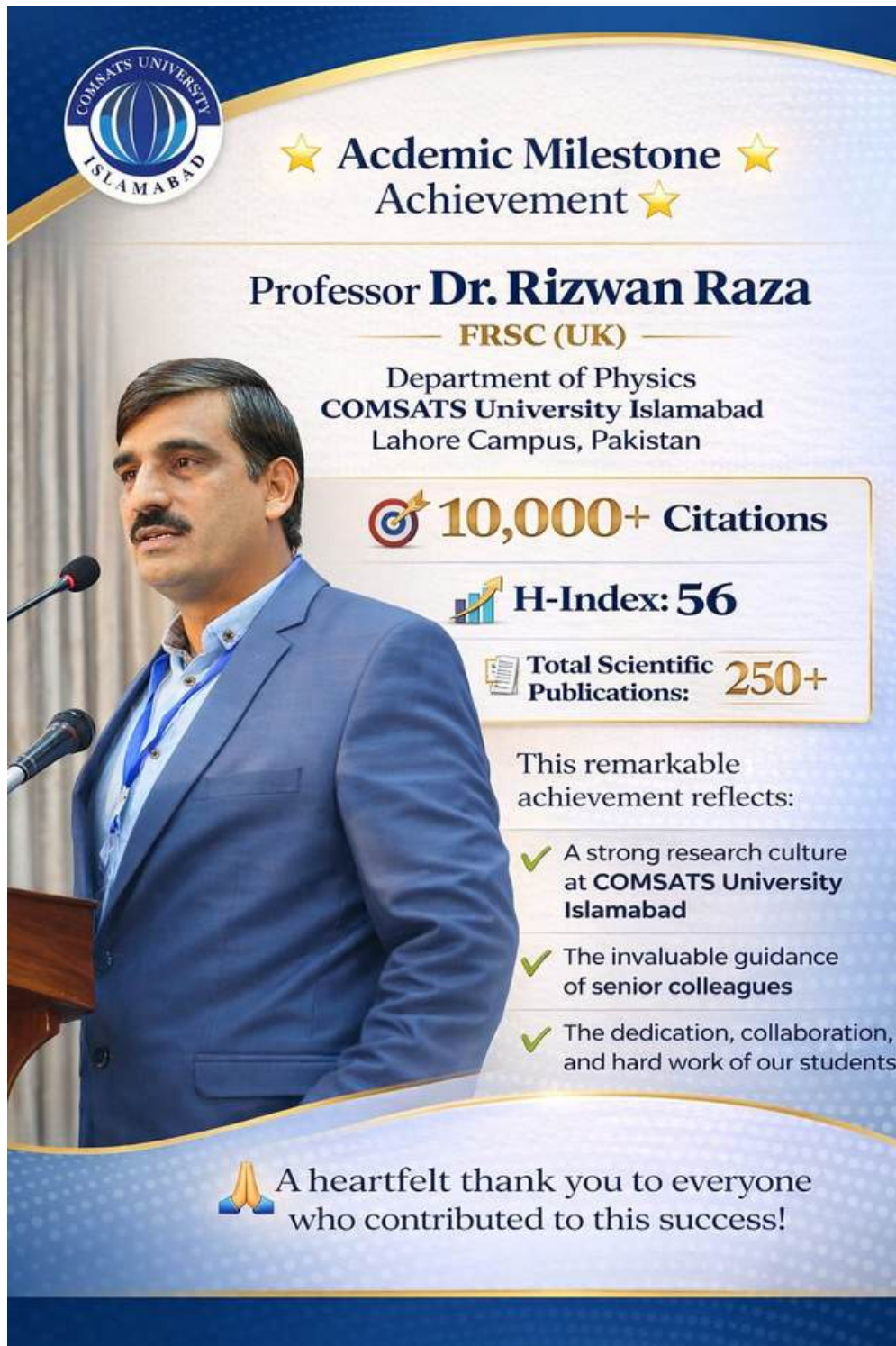
has been awarded the prestigious Fellowship of the Royal Society of Chemistry (FRSC), UK




Prof. Dr. Rizwan Raza, Department of Physics, COMSATS University Islamabad, Lahore Campus, has been awarded the prestigious Fellowship of the **Royal Society of Chemistry (FRSC), UK**. The Department of Physics proudly congratulates him on this remarkable international achievement. This distinguished recognition reflects his outstanding contributions to research and his continued dedication to advancing scientific knowledge at the global level. It also brings great honor to the department and reinforces its commitment to academic excellence and innovation.

FACULTY ACHIEVEMENTS


The Department of Physics, COMSATS University Islamabad, Lahore Campus proudly celebrates the outstanding academic milestone of **Prof. Dr. Rizwan Raza (FRSC, UK)**. He has achieved an impressive record of **10,000+ citations**, an **H-index of 56**, and **over 250 scientific publications**, reflecting his remarkable contributions to research. This achievement highlights the department's strong research culture, collaborative spirit, and commitment to academic excellence.





The infographic features a photograph of Professor Dr. Rizwan Raza on the left, speaking at a podium. The right side contains text and icons detailing his achievements. At the top left is the COMSATS University Islamabad logo. The main title is 'Academic Milestone Achievement' flanked by stars. Below this is the professor's name and affiliation. Three key metrics are highlighted with icons: 10,000+ Citations (target icon), H-Index: 56 (bar chart icon), and Total Scientific Publications: 250+ (document icon). A section titled 'This remarkable achievement reflects:' lists three points with green checkmarks. At the bottom, a prayer icon is followed by a thank-you message.

 ★ **Academic Milestone Achievement** ★

Professor Dr. Rizwan Raza
— **FRSC (UK)** —
Department of Physics
COMSATS University Islamabad
Lahore Campus, Pakistan


 **10,000+ Citations**

 **H-Index: 56**

 **Total Scientific Publications: 250+**

This remarkable achievement reflects:

- ✓ A strong research culture at **COMSATS University Islamabad**
- ✓ The invaluable guidance of **senior colleagues**
- ✓ The dedication, collaboration, and hard work of our students

 A heartfelt thank you to everyone who contributed to this success!

FACULTY ACHIEVEMENTS

Congratulations to Dr. Naima Amin

on winning an NRPJ project for 2025, securing a grant of 7.72 million PKR in the field of Medical Physics.

“Next-Generation Breast Cancer Radiotherapy: Nanoparticle-Based Phantoms for Improved Therapeutic Outcomes.”

Notably, this is the only NRPJ project approved at CUI, Lahore Campus in 2025.



The Department of Physics proudly congratulates **Dr. Naima Amin** on securing a highly competitive **NRPJ Project (2025)** with a grant of **PKR 7.72 million** in the field of Medical Physics. Her project, titled **“Next-Generation Breast Cancer Radiotherapy: Nanoparticle-Based Phantoms for Improved Therapeutic Outcomes,”** reflects a significant advancement in cancer treatment research.

Notably, this project stands out as the **only NRPJ-funded project awarded at COMSATS University Islamabad, Lahore Campus in 2025**, marking a remarkable milestone for the department. This achievement highlights the department’s growing excellence in impactful research and its contribution to innovative healthcare solutions.

Ms. Mahrukh Bokhari successfully defended her PhD thesis, marking a significant milestone in her academic and research career. The Department of Physics, COMSATS University Islamabad, Lahore Campus, congratulates her on this outstanding achievement and wishes her continued success in her future endeavours.



ALUMNI ACHIEVEMENTS

Students of the Department of Physics, COMSATS University Islamabad, Lahore Campus **Shahzad Safar, Abdul Haseeb, Wajeaha Farhat, and Sheeza Musarrat** have secured a Summer Research Internship at Sichuan University, Chengdu, China.

The program, funded by the Chinese Scholarship Council, provides hands-on research experience, access to advanced laboratories, and international academic exposure.

The department congratulates the students on this remarkable achievement.



Physics Department
COMSATS University Islamabad, Lahore Campus



Summer Research Internship

Sichuan University
Chengdu, China

- Access to well-equipped Labs
- Hands-on Research Experience
- Monthly Stipend
- Accommodation on Campus
- Medical Expense Coverage

Funded by
Chinese
Scholarship
Council

Secured By



SHAHZAD SAFAR



ABDUL HASEEB



WAJEEHA FARHAT



SHEEZA MUSARRAT

PURE research program Sabanci University Istanbul, Turkey

PROJECT: CRYSTAL NANOCELLULOSE (CNC)
PRODUCTION FROM WASTE PAPER FOR FUTURE
TEXTILE APPLICATIONS

FULLY FUNDED
SCHOLARSHIP

- Monthly Stipend
- Free Accommodation
- Round-trip Airfare
- Hands-on Research Experience
- Access to State-of-the-Art Labs
- SUNUM Labs

2025, ALUMNA



Muqadas Afzal
Physics Graduate
COMSATS University



For more info contact:
muqadasafzalmafzal@gmail.com



Muqadas Afzal, a Physics graduate of COMSATS University Islamabad, Lahore Campus (Class of 2025), has secured a fully funded PURE Research Program position at **Sabancı University, Istanbul, Turkey**.

She will work on a research project focused on crystal nanocellulose production from waste paper for future textile applications.

The Department of Physics proudly congratulates her on this outstanding international research opportunity.

FALL 2025 ADMISSIONS

The Department of Physics, COMSATS University Islamabad, Lahore Campus, warmly welcomed prospective students for Admissions Fall 2025. Visitors were given an interactive tour of state-of-the-art laboratories, where faculty and students showcased ongoing research activities and advanced experimental setups. The session provided valuable insights into academic programs, research opportunities, and career prospects, reflecting the department's commitment to excellence in teaching and innovation.

Picture Gallery



EDUCATIONAL TRIPS

Visit to Science Mela – Organized by Crescent Model School

The Department of Physics of COMSATS University Islamabad, Lahore Campus, had the privilege of visiting the Science Mela organized by Crescent Model School. The event was a lively celebration of scientific curiosity, creativity, and innovation, bringing together young learners and seasoned academics under one roof.

Image Gallery



The Department of Physics has successfully conducted a series of extra-curricular activities aimed at fostering student engagement, creativity, and industry exposure.



Visit to SUPARCO

The Physics Department of COMSATS University Islamabad, Lahore Campus, organized an educational visit to the **Space & Upper Atmosphere Research Commission (SUPARCO)**, Pakistan's national space agency. The visit aimed to provide students with firsthand exposure to the country's advancements in space science, satellite technology, and atmospheric research.

Picture Gallery



EXTRA-CURRICULAR ACTIVITIES

Physics Super League(PSL) & Cultural Fest

The Department of Physics organized the **PSL and Cultural Fest 2025** from 25th to 27th November 2025 at the university football ground. The event successfully combined sports enthusiasm with cultural diversity, offering students, faculty, and guests a vibrant platform for recreation, creativity, and community bonding. Students, faculty, and guests participated enthusiastically in cricket, football, table tennis, and badminton matches.

Photo Gallery



Alongside the sports league, the cultural fest featured a wide variety of stalls managed by students, offering homemade food such as biryani, pasta, nuggets, cupcakes, and brownies. The highlight came on 27th November with stage performances that included the national anthem, welcome speeches and poetry recitals in Urdu and Punjabi. The event concluded with closing remarks that emphasized unity in diversity. Overall, **PSL and Cultural Fest 2025** provided students with a platform to showcase talent, creativity, and teamwork, while fostering community spirit and celebrating cultural heritage.



Get-Together Party (Fall-2025)

The Department of Physics, COMSATS University Lahore, hosted a vibrant Welcome & Farewell Party filled with energy, celebration, and unforgettable moments!

Our talented students from BS Physics, BS Electronics & Computing, and MS Physics showcased wonderful performances, spreading joy and excitement throughout the evening.

Event Highlights



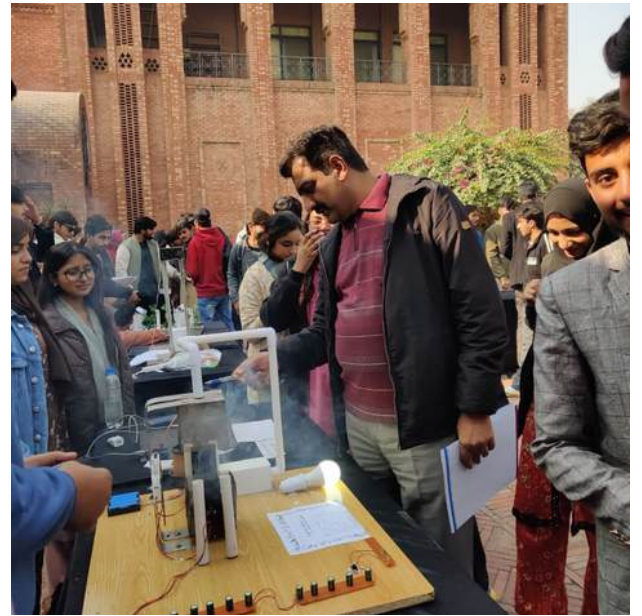
3D- Project Exhibitions

3D-Projects Exhibition (Fall-2025)

The Department of Physics, COMSATS University Islamabad (CUI), Lahore Campus, successfully organized a 3D-Project Exhibition on 4th December 2025, showcasing the creativity and technical expertise of students enrolled in Lab Physics courses across multiple departments. The event not only highlighted the students' ability to translate theoretical knowledge into real-world applications but also encouraged collaboration, problem-solving, and effective communication.

Moments Captured





Department of Physics, COMSATS University Islamabad, Lahore Campus.

3D-Projects Exhibition(Spring-2025)

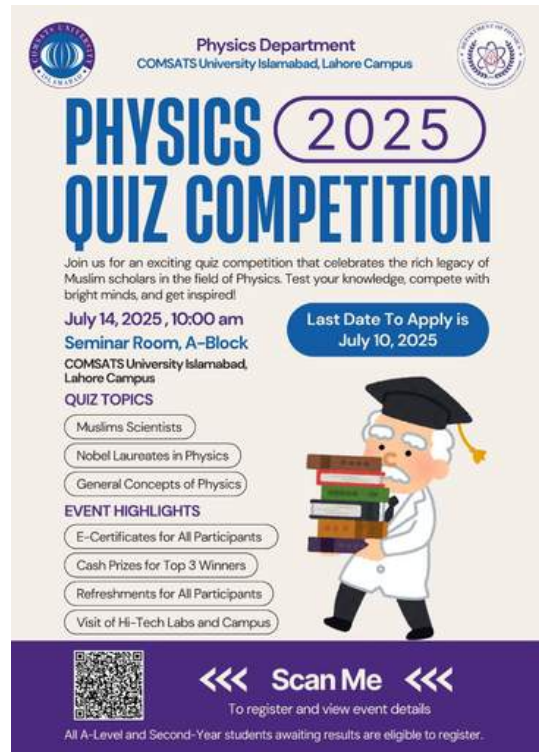
On 12 June 2025, the Department of Physics proudly hosted its **3D-Project Exhibition**, showcasing the creativity, talent, and dedication of our students. The event brought together innovative projects that combined scientific knowledge with practical application, offering visitors a glimpse into the future of technology and design.





PHYSICS QUIZ COMPETITION

The Department of Physics, COMSATS University Islamabad, Lahore Campus organized a **Physics Quiz Competition 2025** to promote interest in physics among young students. The quiz covered topics including Muslim Scientists, Nobel Laureates in Physics, and general physics concepts, with participation from FSc, Matric, and A-Level students. The event featured e-certificates, cash prizes for top winners, and a visit to the university's high-tech laboratories.



Physics Department
COMSATS University Islamabad, Lahore Campus

PHYSICS 2025 QUIZ COMPETITION

Join us for an exciting quiz competition that celebrates the rich legacy of Muslim scholars in the field of Physics. Test your knowledge, compete with bright minds, and get inspired!

July 14, 2025, 10:00 am
Seminar Room, A-Block
COMSATS University Islamabad, Lahore Campus


Last Date To Apply is July 10, 2025

QUIZ TOPICS

- Muslims Scientists
- Nobel Laureates in Physics
- General Concepts of Physics

EVENT HIGHLIGHTS

- E-Certificates for All Participants
- Cash Prizes for Top 3 Winners
- Refreshments for All Participants
- Visit of Hi-Tech Labs and Campus



Scan Me

To register and view event details

All A-Level and Second-Year students awaiting results are eligible to register.



CAREER / SCHOLARSHIPS GUIDE



The Department of Physics, COMSATS University Islamabad, Lahore Campus, successfully organized a **“Scholarship Hunt Counseling Session”** for final-year undergraduate students, focusing on higher study opportunities in Korea, China, and Malaysia.

The session featured **Dr. Aamir Razaq (HoD Physics)** and **Mr. Noman Aslam (MS Scholar, University of Seoul, South Korea)**, who shared valuable insights on scholarship application processes, research opportunities, and international academic exposure.

Students actively participated and benefited from practical guidance on securing fully funded scholarships, making the session highly informative and impactful for aspiring candidates.

MS/BS FINAL DEFENSE PRESENTATIONS

The Department of Physics, COMSATS University Islamabad, Lahore Campus successfully held MS and BS Final Defense Presentations. Students showcased their research work with confidence, reflecting strong analytical and technical skills. The event highlighted the department’s commitment to academic excellence and quality research.



RESEARCH LABS

The Department of Physics at COMSATS University Islamabad, Lahore Campus is equipped with state-of-the-art laboratories supporting advanced teaching and research. These include specialized facilities such as Microscopy and Spectroscopy Lab, Nanosynthesis Lab, Nano-Composite Lab, Fuel Cell Lab, and Medical Physics Lab . The labs are furnished with modern instruments for imaging, spectroscopic analysis, electrochemical testing, and material synthesis, enabling cutting-edge research in nanotechnology, energy devices, and applied physics . Such well-equipped laboratories provide students and researchers with hands-on experience and foster innovation in emerging scientific fields.



ONGOING RESEARCH PROJECTS

We proudly congratulate our esteemed faculty for securing prestigious research projects, reflecting their dedication to innovation and highlighting the department's growing impact in advancing scientific research and academic excellence.

S. No	Faculty Name	Project Title	Role (PI /Co-PI)	Amount	Funding Agency
1	Dr. M. Aamir Razaq (HOD, Physics)	Regulating electrode-electrolyte interfaces through cellulose graft chemistry toward sustainable, durable, and practical paper-based aqueous zinc ion batteries	PI	PKR 8.92 Million	Pakistan Science Foundation (PSF) / NSFC China
2	Dr. Ghazanfar Abbas	Development of Nano-Structured Low Temperature Ceramic Fuel Cells (LTCeFCs) Based on Fuel Flexible Opportunity	PI	PKR 0.300 Million	CUI-CRGP
3	Dr. Ishrat Sultana	Development of Flexible and Highly Absorbing Paper-Based Electrodes for Next-Generation Hybrid Energy Storage and Conversion Devices	PI	PKR 6.6 Million	Higher Education Commission (HEC), Pakistan
4	Dr. Naima Amin	Next-Generation Breast Cancer Radiotherapy: Nanoparticle-Based Phantoms for Improved Therapeutic Outcomes.	PI	PKR 7.72 Million	Higher Education Commission (HEC), NRPU, Pakistan
5	Dr. Amna Mir	Stretchable Nanogenerators for Self-Powered Electronics using Printing Technology	PI	PKR 0.500 Million	EU-Funded EMERGE Project
6	Dr. Amna Mir	Printed flexible Piezoelectric Nanogenerators for self powered sensor systems	PI	PKR 0.500 Million	EU-Funded EMERGE Project

COMSATS UNIVERSITY ISLAMABAD Department of Physics
LAHORE CAMPUS
(A Chartered Govt. Public Sector University)

Ongoing Research Project at Physics Department COMSATS Lahore. Status: Project Ongoing

Lead by: Dr. Muhammad Aamir Razaq

We are proud to announce that Dr. Muhammad Aamir Razaq is leading a transformative research project.

Project: "Regulating Electrode-Electrolyte Interfaces through Cellulose Graft Chemistry"

Funding Body: Pakistan Science Foundation (PSF) / NSFC China
Scheme Year: 2024
Approved Grant: PKR 8.92 Million

International Collaborator: Wuhan University, China
Hunan University, China

We extend our heartfelt congratulations to Dr. Aamir Razaq for securing this prestigious grant and making significant strides in energy research!

COMSATS UNIVERSITY ISLAMABAD Department of Physics
LAHORE CAMPUS
(A Chartered Govt. Public Sector University)

We are delighted to announce that Dr. Ghazanfar Abbas is leading his exciting research project in the field of Nano-Structured Low Temperature Solid Oxide Fuel Cells.

Project 1: (Ongoing Phase)
Title: Cost Effective Nano-Structured Materials for Low Temperature Fuel Cells (300-600°C)
Funding Body: Higher Education Commission (HEC), Pakistan
Scheme: HEC-NRPU 2022
GRANT: PKR 0.303 M

Project 2: (Ongoing Phase)
Title: Development of Nano-Structured Low Temperature Ceramic Fuel Cells (LTCeFCs) Based on Fuel Flexible Opportunity
Funding Body: COMSATS University Islamabad
Scheme: CUI-CRGP 2024
GRANT: PKR 0.300 M

We extend our heartfelt congratulations to Dr. Ghazanfar Abbas for securing these prestigious grants which will enable significant research work in emerging technology (Fuel Cells).

COMSATS UNIVERSITY ISLAMABAD Department of Physics
LAHORE CAMPUS
(A Chartered Govt. Public Sector University)

We are pleased to announce that Dr. Ishrat Sultana is leading a research project under the National Research Program for Intellectual Property, funded by the Higher Education Commission (HEC) Pakistan.

Project Title: "Development of Flexible and Highly Absorbing Paper-based Electrodes for Next-Generation Hybrid Energy Storage and Conversion Devices"

Funding Agency: Higher Education Commission (HEC) Pakistan
Year of Commencement: 2023
Project Status: Ongoing
Total Grant Value: PKR 6.6 Million

Academic Partners: NRETECH (Islamabad), New York University (USA), Industrial Partner: QADCAST (Pvt) Ltd.

We extend our heartfelt congratulations to Dr. Ishrat Sultana for leading a prestigious MRPU-funded project.

COMSATS UNIVERSITY ISLAMABAD Department of Physics
LAHORE CAMPUS
(A Chartered Govt. Public Sector University)

Department of Physics
COMSATS University Islamabad
LAHORE CAMPUS

Congratulations!!

Dr. Naima Amin
Associate Professor
Department of Physics
COMSATS University Islamabad
LAHORE CAMPUS

Dr. Naima Amin has successfully won an MRPU project worth Rs. 7.72 million, approved by HEC among only 40 nationwide in 2025 – a remarkable achievement!

Title: Next-Generation Breast Cancer Radiotherapy: Nanoparticle-Based Phantoms for Improved Therapeutic Outcomes.

Her research aims to develop a nanoparticle-based breast phantom to improve the precision and safety of radiotherapy, reduce radiation risks, and enhance patient outcomes.

COMSATS UNIVERSITY ISLAMABAD Department of Physics
LAHORE CAMPUS
(A Chartered Govt. Public Sector University)

Department of Physics
COMSATS University Islamabad
LAHORE CAMPUS

Congratulations

Dr. Amna Mir
Associate Professor
Department of Physics
COMSATS University Islamabad
LAHORE CAMPUS

Has secured a prestigious EU-funded

EMERGE Project

"Stretchable Nanogenerators for Self-Powered Electronics using Printing Technology"

COMPLETED RESEARCH PROJECTS

Dr. Ghazanfar Abbas, Department of Physics, COMSATS University Islamabad, Lahore Campus, has successfully completed an **NRPU-funded research project on “Cost Effective Nano-Structured Materials for Low Temperature Fuel Cells (300–600°C)”**. The project, funded by HEC under NRPU 2022, marks a significant contribution to energy conversion technologies and sustainable fuel cell development.

 **COMSATS UNIVERSITY ISLAMABAD**
LAHORE CAMPUS
(A Chartered Govt. Public Sector University)

 **Department of Physics**



We are delighted to announce that **Dr. Ghazanfar Abbas** has successfully completed research projects in the field of Nano-Structured Low Temperature Solid Oxide Fuel Cells.

Project  **CO-PIs: Prof. Dr. Rizwan Raza & Prof. Dr. M. Ashfaq Ahmad**

(Ref No. 20-14978/NRPU/R&D/HEC/2021 Dated April 07, 2022)

Title: Cost Effective Nano-Structured Materials for Low Temperature Fuel Cells (300–600°C)

Funding Body:
Higher Education Commission (HEC), Pakistan

Scheme: HEC-NRPU 2022
5,0352 Completed Successfully
September 25, 2025

We extend our heartiest congratulations to Dr. Ghazanfar Abbas for securing these prestigious grants which surely enrich significantly the research and development activities in the field of Energy Conversion Technology (Fuel Cells)





The **NRPU-funded research project (Project No. 15471)** titled **“A Ternary Nanocomposite for Fabrication of Commercial Screen-Printed Electrode for Detection of Neurological Disorders”** was successfully completed in 2025. Led by Principal Investigator **Dr. Akbar Ali**, the project—awarded in 2022—marks a significant contribution to advanced sensing technologies for neurological disorder detection.

RESEARCH PUBLICATIONS OF YEAR 2025

#	Publication Title	Journal Name	Impact Factor	Vol / Issue	Page No / Article No
1	High-Entropy Li-doped rock salt catalyst for low-Temperature ceramic fuel cells	Fuel	7.5	379	133044
2	Dual Interfacial Modification of Hematite Electron Transport Layer for Efficient and Stable Perovskite Solar Cells	Results in Engineering	7.9	25	103949
3	Fabrication of efficient composite anode based on SiC for direct carbon fuel cell	Materials Chemistry and Physics	4.7	333	130379
4	Enhancing thermo-physical properties of paraffin wax phase change material with MXene nanoflakes for improved energy storage and heat transfer applications.	Results in Engineering,	7.9	25	104557
5	ZnO/ α -Fe ₂ O ₃ nanocomposites as efficient photocatalysts for sustainable hydrogen generation	Next Materials	0.67	6	100486
6	Advanced optical reinforcement materials based on three-dimensional four-way weaving structure and metasurface technology	Applied Physics Laser	3.6	126	33503
7	Insight into the structural, magnetic and fluoride (F ⁻¹) adsorption properties of copper–manganese ferrite (Cu _{0.5} Mn _{0.5} Fe ₂ O ₄) and Azadirachta Indica composites synthesized through hydrothermal method	Materials Chemistry and Physics	4.7	334	130415
8	Unveiling the potential surface coated electrolyte with elevated performance for low-temperature ceramic fuel cells	International Journal of Hydrogen Energy	8.3	100	1095-1106
9	Designing innovative Zn ₃ (VO) ₄ /BiVO ₄ heterojunction for enhanced photodegradation under solar irradiation	Ceramics International	5.6	51(13)	17536-17546
10	A novel ternary Ag@MnCo-NGO-PVP hybrid composite for high performance asymmetric supercapacitors	Journal of Energy Storage	9.8	112	115509
11	Structural and electronic properties of monolayers: Enhancing computational accuracy	Materials Letters	2.7	380	137661
12	Modified waste orange peels biomass residues for sustainable and promising As(V) removal: Insights into batch and column adsorption experiments and Box-behnken Design (BBD) analysis	Colloids and Surfaces A: Physicochemical and Engineering Aspects	5.4	711	136352
13	Flexible sodium alginate-gelatin hydrogel membrane incorporated with green synthesized bimetallic ZnO:CeO ₂ nanocomposite for antioxidant, antibacterial and biocompatibility studies	Reactive and Functional Polymers	5.1	212	106228
14	Ultrathin broadband terahertz metamaterial based on single-layer nested patterned graphene	Physics Letters A	2.6	534	130262

15	Photocatalytic breakdown of tetracycline via Z-scheme BiFeO ₃ /Ag/ Cr ₂ O ₃ nanocomposite under visible light irradiation: Degradation mechanism, toxicity evaluation and antibacterial activity	Surface & Interface	6.3	61	106151
16	Phonons in MoS ₂ : Impact of strain, spin-orbit coupling, and supercell size	Materials Letters	2.7	389	138304
17	Theoretical Design of High-Performance Solid-State Electrolyte Na ₃ La ₃ Gd ₁ Sm ₁ Cl ₁₈	ACS Applied Energy Materials	5.6	8(6)	3963-392
18	Enhancing thermo-physical properties of paraffin wax phase change material with MXene nanoflakes for improved energy storage and heat transfer applications	Results in Engineering	7.9	25	104577
19	Insights into the Proton-Coupled Electron Transfer Mechanism in Fuel Cells	ACS Applied Materials and Interfaces	8.2	17(12)	18371-18382
20	Facile synthesis, structural, magnetic and enhanced Fluoride (F ⁻) adsorptive properties of magnesium ferrite and oryza sativa composites	Materials Chemistry and Physics	4.7	339	130686
21	Review on Ammonia-Powered SOFCs: Fundamentals, Thermodynamics, Degradation Mechanisms, and Future Perspectives	Energy and Fuels	5.3	39(13)	6097-6117
22	Synthesis, Characterization and Evaluation of NiFe ₂ O ₄ /Cr ₂ O ₃ Nano Composite as T1-T2 Contrast Agents for High-Field MRI	International Journal of Catalysis and Chemical Engineering	N/A	1(1)	1-9
23	High Proton Conductivity in xCuO/(1-x)CeO ₂ Electrolytes Induced by CuO Self-Nucleation and Electron-Ion Coupling	Advanced Science	14.1	12(22)	241721
24	Preparation of CeO ₂ @La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} Electrolyte and Semiconductor-Ionic Fuel Cell Performance	Journal of Chemical Industry and Engineering (China)	3.7	76(03)	1353-1362
25	Insight of potentials for perovskite cathode materials for solid oxide fuel cell and semiconductor membrane fuel cells	Ceramics International	5.6	51(19)	28477-28503
26	Impact of rare earth cerium (Ce) substitution on structural, magnetic and electrochemical properties of lithium ferrites: A comprehensive study	Materials Chemistry and Physics	4.7	340	130792
27	Mass spectrum, root-mean-square radii, form factors, and charge radii of mesons	Journal of the Korean Physical Society	0.9	86(11)	1037-1047
28	Fabrication of 3D cyclodextrin-based metal-organic framework bioelectrode for label free aptasensing of ochratoxin A	Microchemical Journal	5.1	213	113631

29	Photo-assisted synthesis of protonated oxides for fuel cells	Communications Chemistry	6.2	08(120)	1 - 13
30	Effect of cobalt substitution on electromagnetic response of Manganese-Zinc spinel ferrite composite	Materials Science and Engineering: B	4.6	319	118344
31	Electrodeposition of fabricated tin sulfide nanoparticles on graphene oxide and natural fibers based robust freestanding electrodes for flexible energy storage devices	Journal of Electroceramics	2.6	53	393 - 403
32	Absorptivity and magnetodielectric evaluations of rare earths (Gd ³⁺ , Pr ³⁺ , Ho ³⁺) and transition element (Bi ³⁺) doped Cd-Ni-Zn ferrite meta surface absorbers: Modeling and simulations	Surface & Interface	6.3	68	106698
33	Unusual structural and electrical properties of CeO ₂ -Al ₂ O ₃ heterostructure electrolytes for fuel cells	Renewable Energy	9.1	252	123542
34	Electrochemical investigation of bismuth doped anode materials for low-temperature solid oxide fuel cell with boosted voltage using DC-DC voltage converter	Nanotechnology Review	6.1	14(01)	20250148
35	Structural and electrochemical analysis of enhanced ionic conductivity and oxygen permeability in La _{0.60} Bi _{0.15} Cr _{0.05} Fe _{0.20} O _{3-δ} nanocomposites for high-performance ceramic fuel cells	Ceramics International	5.6	51(22)	37179 - 37188
36	The development of strontium cobalt perovskite co-doped with bismuth and gallium cathode materials for low-temperature solid oxide fuel cell	Ceramics International	5.6	51(22)	37923 - 37930
37	Energy band gap tuning of Co-Zn cubic ferrite by Sm ³⁺ ion substitution (0.00 ≤ x ≤ 0.075) to improve spectral, structural, optical and dielectric properties	Ceramics International	5.6	51(16)	21354 - 21376
38	Nonlinear plasma wave excitation in cylindrical semiconductor waveguides	Chinese Journal of Physics	4.6	96	678-689
39	Current Progress of Metal Sulfides/Metal-Organic Frameworks Composite Materials for Photocatalytic H ₂ Production	Energy Today	3.6	13(11)	2402357
40	Tetracycline (TC-HCl) antibiotic photodegradation using MgFe ₂ O ₄ /MXene/NiO nanocomposites as potent photocatalysts for environmental remediation	Materials Letter	2.7	399	139032
41	Graphene oxide incorporated sodium alginate-gelatin composite hydrogel loaded with Moringa oleifera leaf extract for bifunctional tissue regeneration and anticancer applications	Reactive and Functional Polymers	5.1	216	106406
42	A high-performance solid-state electrolyte Na ₄ ZrF ₈ with exceptional ionic conductivity and electrochemical and interfacial stability	Journal of Materials Chemistry A	9.5	339(13)	27260-27268
43	Role of Calcium Doping to Improve the Performance of Titanate-Based Cathode for Low-Temperature Solid Oxide Fuel Cell	Russian Journal of Physical Chemistry A	0.8	99	1943-1953
44	Physiochemical Characterization and Electrochemical Impedance Spectroscopic Analysis of NASICON-Based M _{1+x} Al _x Ti _{2-x} (PO ₄) ₃ Electrolytes for Solid-State Batteries	Energy Storage	4	7(5)	70245

45	Photo-radical induced protonation of superionic conducting oxide for high-performance protonic ceramic fuel cells	Journal of Power Sources	7.9	657	238081
46	High capacitive rare-earth co-doped transition metal/graphene oxide composites as effective electrode material for supercapacitors	Journal of Rare Earths	7.2	43(09)	1909-1919
47	Solid State Synthesis and Material Characterizations of Heat-Sensitive Nanocrystalline Sm ³⁺ Doped NaLi ₂ PO ₄ for Thermoluminescent Dosimetric Investigations	Journal of Cluster Science	3.6	36	178(1-17)
48	ZnO and Carbon Nanotubes based Freestanding Paper Electrodes for Environmentally Safe and Bendable Energy Storage Devices	Ionics	2.6	31	11229-11241
49	Graphitic Carbon Nitride, Synthesis Strategies, Characteristics and Application as an Electrode for Advanced Rechargeable Battery Systems	Renewable and Sustainable Energy Technology 1	16.3	13	2509001231
50	Photo-activated proton-incorporation into Nd-aluminum for superionic conductors	Chemical Engineering Journal	13.2	523	168407
51	Eco-friendly synthesis of N-doped carbon quantum dots from Bombax ceiba stem: A photophysical study with exploratory sensing of Fe ³⁺ /Cd ²⁺ and dye degradation	Journal of Water Process Engineering	6.7	78	108704
52	Thermoluminescent response of low-Z and heat-sensitive nanocrystalline NaLi ₂ PO ₄ : Dy ³⁺ produced by solid state reaction method for gamma dosimetry	The European Physical Journal Plus	2.9	140	745(1-19)
53	PHYSICS EDUCATION IN THE DIGITAL AGE: THE EFFECTIVENESS OF GAMIFICATION AND INTERACTIVE TECHNOLOGIES	International Journal of Innovation Studies	5.3	9(1)	1737-1740
54	Models for differential cross section in proton-proton scattering and their implications at ISR and LHC energies	The European Physical Journal Plus	2.9	140	945(1-23)
55	Green synthesized Ag-doped ZrO ₂ decorated rGO nanocomposite using Dalbergia sissoo leaf extract: A multifunctional material for anticancer activity and visible light driven pollutant degradation	Diamond and Related Materials	5.1	159(B)	112920
56	Influence of Cu doping on magnetic properties of HfSe ₂ grown by chemical vapor transport technique	Materials Science and Engineering: B	4.6	323	118837
57	Synthesis, DFT calculations, magnetic, and high-frequency dielectric properties of nickel ferrite (NiFe ₂ O ₄)	J Mater Sci: Mater Electron	3.2	36	1869
58	Superionic conduction electrolyte through in situ structural transformation in electrochemical cell	Communications Materials	9.6	6	233(1-9)
59	One-step Synthesis of Ag@Sm-codoped ZnO Nanobullets as a Novel Matrix for Photovoltaic Applications	Journal of Electronic Materials	2.5	55	460-467
60	Synergy of Mesoporous Oxygenated MXene Mo ₂ CT _x Nanosheets Grafted CoBDC Nanorods for Supercapacitor Applications	Advanced Sustainable Systems	6.1	9(12)	e00968
61	Electron Beam Excites Multiscale Instabilities in Piezoelectric Semiconductor Plasmas	Journal of Experimental and Theoretical Physics	0.8	141(4-6)	176-187
62	Ferrite-Based Hierarchical Nanostructures for Electrochemical Sensing: Synthesis, Interface Engineering, and Performance Insights	Open Journal of NANO	1.8	10(1&2)	14-26

63	Effect of Annealing Temperature on Gamma-Induced Thermoluminescence in NaLi ₂ PO ₄ -Na ₃ Ce(PO ₄) ₂ : Insights for Radiation Dosimetric Applications	physica status solidi	1.9	222(24)	202500627
64	Enhanced fluoride adsorption using NiO/Solanum tuberosum peels nanocomposites, insight into Box-behnken design (BBD) analysis and application in water defluoridation	Inorganic Chemistry Communications	6.3	183(Part 2)	115877
65	Investigating the Proton Conduction in Co-Nd Co-Doped Amorphous Alumina-Based Electrolyte for Ceramic Fuel Cell	ACS Applied Energy Materials	6.4	24	17871-17888
66	Swelling-resistant conductive nanocellulose network for aqueous zinc-ion batteries	Materialstoday Energy	8.6	55	102156
67	Optical and structural properties of phosphotellurite glasses containing ZnTe and Te quantum dots	Ceramics International	5.6	51(30)	66318-74325
68	A theoretical and experimental study of silicon carbide for fuel cell applications	Zeitschrift für Physikalische Chemie	3.2	15	0470
69	Mechanistic approach to enhance oxygen ion conductivity and fuel cell performance in Tb doped Bi ₃ YO ₆ oxide ion conductor for low temperature solid oxide fuel cells	Ceramics International	5.6	52(01)	1050-1059
70	Depleted Nd-Al-Perovskites for High Proton Conducting Electrolyte Fuel Cells	ACS Applied Energy Materials	6.4	1(9)	302-318
71	ZnO and carbon nanotubes-based freestanding binder-free paper electrodes for environmentally safe energy storage devices	Ionics	2.6	31	11229-11241
72	Exploring the impact of particle stability, size, and morphology on nanofluid thermal conductivity: A comprehensive review for energy applications	Advances in Colloid and Interface Science	16	341	103495
73	Synthesis of HfSe ₂ and CuHfSe ₂ crystalline materials using the chemical vapor transport method and their applications in supercapacitor energy storage devices	Nanotechnology Reviews	6.1	14	0198
74	Vibrational spectroscopy of Breast Tumor Phantom: A Novel Approach to Radiation Dose Estimation.	Radiation Physics and Chemistry.	3.3	230	112556
75	Emergence of Self-sustaining States in the Two-Population Neural Field Model Triggered by a Comprehensive External Input.	Eur. Phys. J. Plus	2.9	140	147
76	Revolutionizing Micro-Scale Energy Storage by OD Carbon Nanostructures: Synthesis, Integration, Performance Optimization Mechanisms and Sustainable Applications	Advanced Functional Materials.	19	35(13)	2418053
77	Wave function dependent Form Factors and Radii of Mesons	Journal of the Korean Physical Society	0.8	11	1001

78	Tuning of defect mediated charge transport in pristine AgBiS ₂ nanocrystals probed via temperature dependent photoluminescence (TDPL) emission spectroscopy	Materials Science in Semiconductor Processing	4.6	119	109351
79	Temperature-dependent photoluminescence of heteroatom-doped edge tuned amino-functionalized GQDs nanoshells conjugated with ZnSe QDs	Journal of Materials Science: Materials in Electronics	2.8	36	1942
80	Fabrication of 3D Flexible Electrode Derived from Biomass Material for Hybrid Supercapacitor via Electrospinning	JOM	2.1	77	4932-4942
81	Preparation of Biomass Base 3D Hybrid Flexible Electrode With Improved Super Capacitive Performance via In Situ Polymerization of Polyaniline	Journal of Applied polymer Sciences	2.8	143	57936
82	Hybrid Biochar-Graphitic Carbon Nitride (g-C ₃ N ₄) composite Photocatalyst: A Facile Strategy for Enhanced degradation of Ciprofloxacin (CIP)	Materials Research Express	2.2	12	035503
83	MOF-808 Enhanced MXene Tribopositive Layer for High-Performance Triboelectric Nanogenerators	Energy Technolgy	3.6	13	2500041
84	Synthesis of HfSe ₂ and CuHfSe ₂ Crystalline Materials by using Chemical Vapor Transport Method and their Applications in Supercapacitor Energy Storage Devices	Nanotechnology Reviwes	6.1	14	0198
85	Dynamics of the universe in f(G,τ ₂) gravity via well-known cosmological bouncing	Physics of the Dark Universe	6.4	48	101832
86	Probing Thermodynamics of Einstein-Maxwell Scalar Black Holes Through Exponential Corrected Entropy	Physics of the Dark Universe	6.4	48	101875
87	Impact of 2019 Earthquakes on Shallow Aquifers in Northern sub-Himalayan, Pakistan: A Detailed Analysis of Mirpur and Surrounding Areas	Geofísica Internacional	0.8	64(3)	90
88	ZnFe ₂ O ₄ /Cr ₂ O ₃ /MXene nanocomposite photocatalyst stimulates tetracycline antibiotic degradation under visible light irradiation: Toxicity evaluation and degradation mechanism	Separation and Purification	9	354(13)	128866
89	Investigation of Strain Modulated Opto-Electronic Properties in Monolayer WX ₂ (X=Se and S):DFT and Beyond DFT Study	Journal of Inorganic and Organometallic Polymers & Materials	4.9	35	651-660
90	Performance improvement of MoS ₂ /graphene heterostructures based FET by tuning mobility and threshold voltage using APTES	Materials Science and Engineering: B	4.6	311	117797
91	Cubic silicon carbide anode material for low-temperature solid oxide fuel cell	Journal of Solid State Electrochemistry	2.6	29(05)	1777-1785
92	Electrochemical study of Ag ₂ O/MWCNTs composite electrode material for energy storage devices	Ionics	2.6	31(01)	201-216
93	Supercapacitors: Shaping the future energy storage landscape for flexible, implantable and wearable electronic devices	Science Talk	N/A	13	100411
94	Green-mediated sol-gel fabrication of CuO/ZnO nanoparticles from orange peel extract for environmental remediation: insights from x-ray diffraction analysis using various models	Physica Scripta	2.6	100(1)	15980
95	Optimizing the degradation of tetracycline antibiotics with an efficient rGO/Cu _{0.5} Mn _{0.5} Fe ₂ O ₄ /ZnO photocatalyst under visible light irradiation	Material Letters	2.7	382	137859
96	A novel Z-scheme visible light driven photocatalyst AgZnFe ₂ O ₄ /V ₂ O ₅ /RGO for boosting the degradation of tetracycline antibiotics: Gated Recurrent Unit (GRU) and Response Surface Methodology (RSM) models, toxicity and degradation pathways	Surface & Interface	6.3	56	105606
97	Promising study of NiCuCeO mixed ionic electronic conductor for moderate temperature conventional solid oxide fuel cells	Materials Chemistry and Physics Sustainability and Energy	4.7	2	100003

1ST POSITION IN RESEARCH PUBLICATIONS ACROSS THE CAMPUS



The Department of Physics proudly secured 1st position in research publications across the campus, reflecting its strong commitment to academic excellence.

Celebration of 1st Position in Research Publications (2024) across Lahore Campus in 2024

