

Falak Zaman Naz (PhD)

Postdoctoral Researcher | Functional Glass Materials | Photonics & Solid-State Battery Electrolytes

Contact Information

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Professional Summary

Internationally recognised materials physicist specialising in functional optical and glass materials for photonic, laser, and emerging energy applications. Currently a Postdoctoral Research Fellow at the University of Leeds, with a strong track record of high-impact research, international collaboration, and scientific leadership. **Author of total 30 articles (22 Q1) publications with 951 citations (h-index 16** and i-10 index 20), contributing to advancements in luminescent and functional glass materials for optoelectronics, imaging, and energy-efficient technologies. An experienced Principal Investigator and academic leader, with substantial research funding and collaborations spanning the UK **(University of Leeds, University of Kent)**, **Europe (Linnæus University Sweden, Alborg University Denmark)**, **US (Alferd University)**, the **Middle East (Najran University Saudi Arabia)**, and Asia (**Raja Bhat University Thailand**). More recently, my research has expanded into Molecular Dynamics Simulations of Glass materials, with a growing focus on phosphate-based glass electrolytes for solid-state battery applications, positioning my work at the forefront of next-generation energy materials. I demonstrate strong potential to contribute to **advanced functional materials, photonics, and energy storage research ecosystem.**

Education

PhD Physics	**Abdul Wali Khan University, Mardan Pakistan**	**(24/09/2018)**
MPhil Physics	Hazara University, Mansehra, Pakistan	(11/10/2012)
MSc Physics	University of Peshawar, Peshawar, Pakistan	(11/03/2006)
BSc Physical science	University of Peshawar, Peshawar, Pakistan	(11/10/2004)
HSCC Science	BISE Peshawar	(30/08/2001)
SSC Science	BISE Peshawar	(30/08/1999)

Professional Experience

1. Postdoctoral Researcher University of Leeds, UK	**(08/05/2026)**	**Till Date**
2. Assistant Professor University of Buner, Pakistan	**(24/09/2020)**	**(07/05/2026)**
3. Head of Department of Physics University of Buner	(18/11/2022)	(29/07/2024)
3. Postdoctoral Researcher CEGM Thailand	**(20/09/2019)**	**(20/09/2020)**
4. Research Fellow CEGM Thailand	(05/05/2015)	(05/05/2016)
5. Lecturer in Batrasi Cadet College Mansehra Pakistan	(01/09/2007)	(15/11/2011)

Key Achievements

- Author of **30 peer-reviewed publications**, including 22 Q1 journal articles, with 950+ citations, an h-index of 16, and an i10-index of 20, demonstrating significant international research impact.
- Currently serving as a **Postdoctoral Research Fellow at the University of Leeds (UK)**, contributing to cutting-edge research in optical materials, photonics, and Solid-State Batteries technologies.
- Expanded research expertise into **Molecular Dynamics (MD) simulations** and advanced modelling of glass materials, supporting the development of next-generation solid-state battery electrolytes and energy storage technologies.
- Awarded a **Postdoctoral Research Fellowship** at Raja Bhat University, Thailand (2019-2020), where research focused on luminescent and optical glass materials for photonic applications.

- Secured approximately PKR 14 million in competitive research funding from HEC Pakistan as Principal Investigator (PI) and Co-Principal Investigator (Co-PI), supporting innovative research in functional glass and photonic materials.
- Established an extensive international research network through collaborations with leading institutions in the United Kingdom UK (University of Leeds, University of Kent), US (Alferd University), Thailand (Rajha Bhat University), Saudi Arabia (Najran University), Sweden (Linnæus University) and Denmark (Alborg University).
- Recognized as an active reviewer for several high-impact international journals in materials science, optics, photonics, and solid-state materials.
- Demonstrated academic and research leadership through previous service as Head of Department and Contributed to obtaining HEC recognition/accreditation of the Department of Physics.

Competitive Awards and Fellowships

1. Postdoctoral Fellowship, University of Leeds, UK (HEC Pakistan), 2026-till date.
2. Postdoctoral Research Fellowship, Nakhon Pathom Rajabhat University, Thailand, 2019-2020.
3. IRSIP Research Fellowship, HEC Pakistan, 2016.
4. PhD Research Fellowship, Nakhon Pathom Rajabhat University, Thailand, 2015 – 2016.
5. Research Award, Nakhon Pathom Rajabhat University, Thailand, January–February 2025.

Memberships, Professional Affiliations, and Academic Service

- Member, Society of Glass Technology (SGT), United Kingdom https://sgt.org/member/falaknazresearch
- Approved Supervisor and Reviewer, Directorate General of Science and Technology (DoST), Government of Pakistan.
- Reviewer, Pakistan Science Foundation (PSF), Pakistan.
- Peer Reviewer for leading international journals, including *Journal of Alloys and Compounds, Journal of Luminescence, Optical and Quantum Electronics, Scientific Reports, Radiation Physics and Chemistry, Optical Materials, Journal of Non-Crystalline Solids, Journal of Materials Science: Materials in Electronics*.
- External Thesis Evaluator and Reviewer for postgraduate (MS/MPhil and PhD) theses at various universities, including University of Malakand, University of Swat, Abdul Wali Khan University Mardan (AWKUM)

Technical Expertise

Materials Synthesis and Processing

- Functional glass materials
- Rare-earth-doped luminescent materials
- Optical and photonic materials
- Phosphate, Borate and Silicate based glass systems
- Solid-state and melt-quenching synthesis techniques

Characterization Techniques

- Photoluminescence spectroscopy
- UV-Visible-NIR spectroscopy
- FTIR spectroscopy
- X-ray diffraction (XRD)
- Raman Spectroscopy
- Scanning Electron Microscopy (SEM)
- Thermal analysis (DSC/TGA)
- Structural and optical characterization of glass materials

Advanced Analysis and Modelling

- Molecular Dynamics (MD) simulations of glass systems
- DL-POLY, LAMMPS and GULP Software analysis

- Judd-Ofelt theory and spectroscopic analysis
- Radiative property calculations
- Luminescence dynamics and energy transfer mechanisms
- Structure-property relationship analysis
- Modelling of glass electrolytes for solid-state batteries

Research Areas

- Glass science and engineering
- Advanced analytical and computational approaches
- Functional optical materials
- Photonic and laser materials
- Luminescent materials
- Optoelectronic materials
- Energy storage materials
- Solid-state battery electrolytes
- Advanced materials for sustainable energy technologies

Research Impact & Contribution

- Developed and optimised rare-earth-doped glass materials for applications in solid-state lighting (LEDs), lasers, optical amplifiers, X-ray imaging, and scintillation detectors.
- Advanced the understanding of luminescence tuning, energy transfer mechanisms, and spectroscopic properties of rare-earth ions in glass matrices, contributing to the development of next-generation photonic and optoelectronic materials.
- Expanded research into energy-related glass materials, including phosphate-based systems for emerging energy storage (Solid-State Batteries) applications and sustainable materials development.
- Published research in leading international journals, including *Journal of Alloys and Compounds*, *Ceramics International*, *Optical Materials*, *Journal of Non-Crystalline Solids*, and *Journal of Luminescence*.

Selected High-Impact Research Contributions

➢ *Optical and Luminescence Properties of Sm^{3+}-Doped Glasses*

Optical and luminescence properties of Li_2O-Gd_2O_3-(Bi_2O_3/BaO)-B_2O_3-Sm_2O_3 glasses Citations: 103: This highly cited work established the spectroscopic and optical performance of Sm^{3+}-doped borate glasses, demonstrating their suitability for orange-red emitting photonic devices, solid-state lighting, and optical display technologies. The study provided valuable insights into the influence of glass composition on luminescence efficiency and remains widely referenced in rare-earth-doped glass research.

➢ *Laser and Photonic Materials Development*

Investigation of luminescence and laser transition of Dy^{3+} in Li_2O-Gd_2O_3-Bi_2O_3-B_2O_3 glasses Citations 102: This research identified Dy^{3+}-activated glass systems with favourable spectroscopic parameters and stimulated emission characteristics, highlighting their potential for yellow-light laser sources and white-light generation. The findings contributed significantly to the development of advanced laser and photonic materials.

➢ *Sm^{3+}-Doped Glasses for Laser Applications*

Luminescence characterization of Sm^{3+}-doped sodium potassium borate glasses for laser application Citations 91: This work demonstrated the laser potential of Sm^{3+}-activated borate glasses through comprehensive spectroscopic analysis and radiative property calculations. The study has become a widely cited reference for researchers developing rare-earth-doped laser glasses and optical devices.

➢ *Scintillating Glasses for Radiation Detection and Medical Imaging*

Scintillation and luminescence characteristics of Ce^{3+}-doped Li_2O-Gd_2O_3-BaO-B_2O_3 scintillating glasses Citations 83: This study developed Ce^{3+}-activated scintillating glass materials with promising applications in X-ray detection, radiation monitoring, and medical imaging technologies. The work contributed to the advancement of cost-effective glass scintillators as alternatives to conventional crystalline detectors.

➢ *Er^{3+}-Doped Phosphate Glasses for Optical Communication*

Investigation of spectroscopic and photoluminescence properties of Erbium-doped phosphate glasses Citations 48: This research evaluated the optical and spectroscopic behaviour of Er^{3+} ions in phosphate glass

hosts, providing important insights for optical amplifiers, fibre lasers, and telecommunication technologies. The study highlighted the potential of phosphate glasses as efficient hosts for near-infrared photonic devices.

- ***Eu^{3+}-Doped Phosphate Glasses for Red Light Generation***

Investigation of europium-doped aluminium phosphate glass for red light generation Citations 43: This work demonstrated efficient red emission from Eu^{3+}-doped phosphate glasses and established their suitability for display technologies, solid-state lighting, and photonic devices. The research further expanded understanding of composition-property relationships in luminescent phosphate glass systems.

Research Grants and Leadership

1. **Principal Investigator (PI)** "Synthesis and characterization of phosphate glasses doped with rare-earth oxide for lighting devices" HEC Pakistan (2021) PKR 1.0 million (Ref. No. 178/IPFP-II(Batch-I)/SRGP/NAHE/HEC/2020/107). This project established a foundation for my subsequent research on luminescent phosphate glasses, optical materials, and photonic technologies, while expanding my expertise in rare-earth spectroscopy, glass science, and functional materials design. The outcomes have supported further research into advanced optical materials and emerging energy-related glass systems.
2. **Co-Principal Investigator (Co-PI),** "Separation, Modifications, and Reuse of the Marble Waste Fine Particles for Drinking and Wastewater Treatment" HEC Pakistan (2022-2025) – PKR 13.3 million (Ref No. 20-17558/NRPU/R&D/HEC/2021). This project expanded my research portfolio beyond photonic and optical materials into sustainable materials, environmental remediation, waste recycling, and circular economy technologies. The research demonstrates the successful conversion of industrial marble waste into high-value functional materials for water treatment applications, contributing to both environmental sustainability and resource-efficient materials development.
3. **Principal Organizer** "National Conference on Mines, Minerals and Marble Waste Products" Directorate General of Science and Technology (DoST) KP, Pakistan (2026)

Teaching, Supervision & Academic Leadership

- Served as Head of the Department of Physics, University of Buner, Pakistan, providing academic leadership, curriculum oversight, faculty coordination, and strategic development of teaching and research activities.
- Delivered undergraduate and postgraduate courses in Physics, Materials Science, Solid-State Physics, Optics, Spectroscopy, and Advanced Functional Materials.
- Supervised 20 undergraduate students, fostering student engagement in experimental physics and materials science research.
- Supervised 2 PhD and 4 MPhil students, guiding research in functional materials, optical materials, glass science, and photonics.
- Organized academic seminars, workshops, and outreach activities on Mines and Minerals, Advanced Functional Materials, Photonics, and Emerging Materials Technologies, promoting research collaboration between academia and industry.
- Mentored students who have progressed to prominent academic and professional positions, including:
  - A former supervisee currently serving as Deputy Controller of Examinations at the University of Buner.
  - A former student who secured a prestigious **ANSO Scholarship Award** and is currently pursuing a PhD in China.
  - A student appointed as a Lecturer in Physics in Government Colleges, Khyber Pakhtunkhwa (KP), Pakistan.
- Actively promoted a research-oriented learning environment through student mentoring, research project development, and academic career guidance.

Academic Mentorship Impact

My supervision has contributed to the development of highly skilled graduates who have successfully progressed to leadership positions in higher education, secured competitive international research scholarships, and established careers in teaching and research, reflecting a strong commitment to academic excellence and capacity building.

Professional Skills

- Approved Research Supervisor of Directorate General of Science and Technology (DoST) and Higher Education Commission (HEC), Pakistan.
- Strong expertise in materials science research, Computational Modeling, experimental design, data analysis, and scientific problem-solving.
- Excellent project leadership and research management skills, with experience leading externally funded research projects as Principal Investigator (PI) and Co-Principal Investigator (Co-PI).
- Proven ability to develop and sustain international research collaborations with academic and research institutions across the United Kingdom, Europe, the United States, the Middle East, and Asia.
- Extensive experience in research mentoring, postgraduate supervision, and academic leadership.
- Strong scientific writing, peer-review, and research dissemination skills, evidenced by publications in high-impact international journals.
- Expertise in grant proposal development, project execution, and multidisciplinary research coordination.
- Completed the National Faculty Development Program (NFDP), National Academy of Higher Education (NAHE), Higher Education Commission (HEC) Pakistan, 2020.
- Effective communication and presentation skills, with experience delivering lectures, conducting workshops, organizing seminars, and engaging with diverse academic and industrial stakeholders.
- Proficient in building collaborative research networks and fostering partnerships between academia, industry, and international research organizations.

Core Competencies

Research Leadership | Project Management | Academic Supervision | International Collaboration | Scientific Writing | Grant Management | Materials Characterization | Photonics & Optical Materials | Higher Education Teaching | Research Mentoring

International Recognition and Peer Review

- Actively serve as a reviewer for leading international journals, including Journal of Alloys and Compounds, Journal of Luminescence, Optical and Quantum Electronics, Scientific Reports, Radiation Physics and Chemistry, Optical Materials, Journal of Non-Crystalline Solids, Journal of Materials Science: Materials in Electronics. https://reviewer.springernature.com/dashboard/certificates
- Established strong international research collaborations with institutions in the UK (University of Leeds, University of Kent), US (Alferd University), Thailand (Rajha Bhat University), Saudi Arabia (Najran University), Sweden (Linnæus University) and Denmark (Alborg University).
- Contribute to academic quality assurance as a reviewer of PhD and MPhil Thesis

Publications

Author of multiple papers in high-impact journals including Journal of Alloys and Compounds, Optical Materials, Non-crystalline materials and Ceramics International.

Journals Quartiles	1st Author/Corresponding	Co-Author	Citations	h-index	i10 index
Q1	13	09	950	16	20
Q2	4	2			
Q3	1	0			

1. Zaman, Falak; Jose, Gin; Kaewkhao, Jakrapong, Photoluminescence and scintillation properties of co-

doped phosphate glasses for x-ray imaging applications, **Physics & Chemistry of Glasses: European Journal of Glass Science & Technology**, Part B, 2026, v. 67, n. 4, p. 126, https://doi.org/10.13036/17533562.67.4.97.

2. Falak Zaman *et al.,* Orange-Emitting Dy^{3+}/Sm^{3+} Co-Doped Phosphate Glasses with Enhanced Quantum Yield and Excitation-Independent Luminescence, **Journal of Alloys and Compounds**, (**15 August 2026)**, 190017. https://doi.org/10.1016/j.jallcom.2026.190017.
3. Karolina Milewska *et al.*, Tuning Eu^{2+} emission in oxynitride glass-ceramics via Na_2O modification, Journal of Non-Crystalline Solids, **Journal of Non-Crystalline Solids** 680 **(05/2026)** 124026. **Cited 1**.
4. Najm Us Saqib *et al.,* The Physicochemical Properties and Utilization of One-Step Recovered Modified Marble Waste Powder for MB Removal, **Chemistry Select**, 11, **(3/2026)**, e06435. https://doi.org/10.1002/slct.202506435.
5. Jamshid Abbas *et al.,* Photoluminescence and scintillation properties in Tb3+/Eu3+ co-doped phosphate glasses for X-ray imaging applications, **Vacuum**, 252, **September 2026**, 115504. https://doi.org/10.1016/j.vacuum.2026.115504. **Cited 02**.
6. J Abbas, *et al*, Optimization of Luminescence and Quantum Yield via Synergistic Energy Transfer in Gd^{3+}/Eu^{3+} Activated Phosphate Glasses for Red LEDs Display Technology, **Ceramics International**, 52, 5, **February 2026**, 5544-5553 https://doi.org/10.1016/j.ceramint.2025.12.317. **Cited 04.**
7. J. Abbas *et al*, Spectroscopic properties and tunable color emission via Ce^{3+}/Dy^{3+} energy transfer in K_2O-Al_2O_3-P_2O_5 glasses for solid-state lighting and scintillation applications, **Journal of Alloys and Compounds**, 1044, **November 2025**, 184294. https://doi.org/10.1016/j.jallcom.2025.184294. **Cited 02**.
8. Jamshid Abbas *et al.,* Judd-Ofelt (JO) Parameterization: Tuning optical and luminescent features of Dy3+-doped phosphate glasses for W-LEDs and laser applications, **Optical Materials**, 167, **October 2025**, 117311. https://doi.org/10.1016/j.optmat.2025.117311 . **Cited 10.**
9. Falak Zaman *et al.,* Investigation of energy transfer mechanism in Gd^{3+} to Sm^{3+} and Eu^{3+} in borate glasses for the application of solid-state lighting devices, **Solid State Sciences**, 163, **2025**, 107878. 10.1016/j.solidstatesciences.2025.107878. **Cited 09**.
10. Najm Us Saqib *et al.,* Recovery, modifications, physicochemical properties, and MB removal efficiency of marble waste powder, **Environmental Science and Pollution Research**, 32, (**03/2025**), 10000-10006. https://doi.org/10.1007/s11356-025-36324-4. **Cited 05.**
11. Najm Us Saqib *et al.,* Green synthesis of Zeolite@Ag/TiO2 heterostructure for the enhanced Cd2+ adsorption from aqueous solution, **Inorganic Chemistry Communications**, 171, **January 2025**, 113498. https://doi.org/10.1016/j.inoche.2024.113498. **Cited 10.**
12. Najm Us Saqib *et al.,* Evaluation of the photocatalytic degradation mechanism of methylene blue using nascent and Ag+ ions-modified TiO2, **Photochemical & Photobiological Sciences**, 23, **(02/2024)**, 245-256. https://doi.org/10.1007/s43630-023-00513-2. **Cited 05.**
13. Muhammad Fayaz, Luminescence and energy transfer mechanism in Ce3+ and Gd3+ ions in bismuth borate glass, **Ceramics International**, 49, (**08/2023**), 24690-24695. https://doi.org/10.1016/j.ceramint.2023.04.127. **Cited 21.**
14. Sommya Fazal, *et al.,* Investigation of europium-doped aluminium phosphate glass for red light generation, **Ceramics International**, 48, (2022), 24751-24757. https://doi.org/10.1016/j.ceramint.2022.05.124. **Cited 45.**
15. Irfan Ullah, *et al.,* Photoluminescence and energy transfer investigations in Gd3+-Dy3+ co-doped borate glasses, **Physica B: Condensed Matter**, 639, **(2022),** 413976**. Cited 23.**
16. Muhammad Arshad, et al., Spectroscopic and photoluminescence properties of praseodymium doped potassium aluminum phosphate (P2O5-K2O-Al2O3) glasses for optoelectronics applications. **Journal of Non-Crystalline Solids**, 586, **(2022)**, 121570. https://doi.org/10.1016/j.jnoncrysol.2022.121570. **Cited 13.**
17. F. Zaman, *et al.,* Investigation of spectroscopic and photoluminescence properties of Erbium doped phosphate (P2O5-K2O3-Al2O3) glasses, **Journal of Alloys and Compounds,** 893**, (2022),** 162215**. Cited 48.** https://doi.org/10.1016/j.jallcom.2021.162215**.**
18. 20. F. Zaman *et al.,* Comparative study of Dy3+ doped borate glasses on the basis of luminescence and lasing properties for white-light generation, **Optical Materials**, 119, **(2021)**, 111308, **Cited 48.** https://doi.org/10.1016/j.optmat.2021.111308.

19. Falak Zaman *et al.,* Development of Na2O-MO-Bi2O3-B2O3-Sm2O3 glasses (MO= Ba/Mg) for laser and scintillation application, **Journal of Non-Crystalline Solids**, 561, **(2021)**, 120722. **Cited 15.** https://doi.org/10.1016/j.jnoncrysol.2021.120722.
20. Zohaib Ahmad, et al., RADIO-OPTICAL response of cerium-doped lithium gadolinium bismuth borate glasses, **Journal of Luminescence**, 224, **(2020)**, 117341. **Cited 23.** https://doi.org/10.1016/j.jlumin.2020.117341.
21. F. Zaman *et al.,* Investigation of Li2O–Gd2O3–MO–B2O3–Nd2O3 (MO= Ba/Bi) glasses for laser applications by Judd–Oflet (J–O) theory, **Journal of Luminescence**, 215, (**2019**), 116639. **Cited 16.** https://doi.org/10.1016/j.jlumin.2019.116639**.**
22. I Khan, *et al.,* Investigation of luminescence properties of Dy3+ doped LiF–Na2O–K2O–B2O3 glasses for white light generation, **Journal of Alloys and Compounds,** 805**, (2019),** 896-903**. Cited 50.** https://doi.org/10.1016/j.jallcom.2019.07.123**.**
23. F. Zaman *et al*., Investigation of luminescence and lasing properties of Dy3+-doped-borate glasses for white light generation, **Solid State Sciences,** 90**, (2019),** 68-75. **Cited 53.** https://doi.org/10.1016/j.solidstatesciences.2019.02.006.
24. F. Zaman *et al*., Comparative investigations of gadolinium based borate glasses doped with Dy3+ for white light generations, **Solid State Sciences**, 89, **(2019)**, 50-56. **Cited 44.** https://doi.org/10.1016/j.solidstatesciences.2018.12.020**.**
25. Lubna Shamshad, et al., Luminescence characterization of Sm3+-doped sodium potassium borate glasses for laser application, **Journal of Alloys and Compounds**, 766 (**2018**), 828-840. **Cited 91.** https://doi.org/10.1016/j.jallcom.2018.07.017
26. F. Zaman *et al*. Physical, structural and luminescence investigation of Eu3+-doped lithium-gadolinium bismuth-borate glasses for LEDs, **Solid State Sciences**, 80, (**2018**), 161-169. **Cited 72.** https://doi.org/10.1016/j.solidstatesciences.2018.04.010**.**
27. F. Zaman *et al*. Scintillation and luminescence characteristics of Ce3+ doped in Li2O–Gd2O3–BaO–B2O3 scintillating glasses, **Radiation Physics and Chemistry**, 130, (2017), 158-163. **Cited 83.** https://doi.org/10.1016/j.radphyschem.2016.08.016**.**
28. F. Zaman *et al*. Optical and luminescence properties of Li_2O -Gd_2O_3-MO-B_2O_3-Sm_2O_3 (MO=Bi_2O_3/ BaO) glasses **Journal of Alloys and Compounds** 676 (2016) 275-285. **Cited 103.** https://doi.org/10.1016/j.jallcom.2016.03.176
29. F. Zaman *et al.*, Investigation of luminescence and laser transition of Dy^{3+} in Li_2O-Gd_2O_3-Bi_2O_3-B_2O_3 glass. Optical Materials 55 (2016) 136–144. https://doi.org/10.1016/j.optmat.2016.03.024 **Cited 102.**
30. F. Zaman et al., Luminescence behavior of Nd3 +-activated soda-lime-borate glasses for solid-state lasers applications, **Journal of Non-Crystalline Solids** 452 (2016) 307–311. **Cited 40.** https://doi.org/10.1016/j.jnoncrysol.2016.09.007.
31. Suwimon Ruengsri, *et al.,* Optical and Luminescence Properties of Dy^{3+} Doped in Soda Lime Borate Glasses, Key Engineering Materials, 702, (2016), 51-56. **Cited 08.** https://doi.org/10.4028/www.scientific.net/KEM.702.51.

Conferences proceeding

- Photoluminescence and scintillation properties of co-doped phosphate glasses for x-ray imaging applications **SGT Annual Conference 2026**, 7^{th}-9^{th} September 2026. http://sgt.org/SGTAnnualConference2026.
- 3rd International Conference on Electrical, Communication and Computer Engineering (ICECCE 2021) June 12-13, 2021, Kuala Lumpur Malaysia. https://icecce-2021.icecce.com/
- 4th International Conference on Electrical, Communication and Computer Engineering (ICECCE) DECEMBER 30-31, 2023, DUBAI | U A E. https://icecce.com/
- International Conference on Advance Materials and Emerging Technologies. ICAMET 2016 http://icamet.uet.edu.pk/
- International Congress on Glass 2015 Bangkok, Thailand ICG 2015 http://www.icg2015bangkok.com
- 7th International Science, Social Sciences, Engineering and Energy Conference 24-26 November, 2015, Wangchan Riverview Hotel, Phitsanulok, Thailand. I-SEEC 2015. http://iseec2015.psru.ac.th/

- Proceedings of the 41st Congress on Science and Technology of Thailand STT41 http://www.scisoc.or.th/stt41

Invited and Keynote Talks

1. **Invited Speaker at** Joint 8th International Conference on Applied Physics and Materials Applications (ICAPMA 2026) December 7–10, 2026, at TSix5 Hotel, Pattaya, Thailand https://matscitech-thailand.com/icapma2026/index.php.
2. **Keynote Speaker** at the Global Annual Congress on Optics, Photonics and Lasers (GACOPL2027) March 22-24, 2027 in Lisbon, Portugal https://axiommeetings.com/conferences/GACOPL2027.
3. **Keynote Lecture** at the 2nd World Congress and Expo on Optics, Photonics and Laser Technology, scheduled for November 26–28, 2026, in Seoul, South Korea. https://optics2026.scientificsummits.org/

References

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