Interview Report

Postdoctoral Researcher Recruitment
Project: High-Sensitivity, Lead-Free Perovskite Thick Films for Low-Dose Medical X-Ray Imaging
Grant No.: NCN OPUS-29 (2025/57/B/ST11/04518)

Interview Date: 29 July 2026
Time: 2:00 PM (Polish Time)

Interview Committee

- Dr. Khurram Shehzad – Project PI
- Dr. Maciej Krzywiecki – Deputy PI

Interview Process

- Three candidates, who applied for the position were invited for interview.
- One candidate **(Ziyi Chen)** informed the committee in advance that he won't attend interview as he has accepted another position. Email communication attached
- One candidate **(Mujahid Iqbal)** did not attend the interview and did not provide prior notification. Email communication attached
- **Dr. Sanam Attique** attended the interview as scheduled and delivered a 20-minute presentation outlining her educational background, research achievements, current research activities, and future research plans.

Technical Questions Asked

Following the presentation, the committee evaluated the candidate through a scientific discussion covering the following topics:

- Considering the objectives of the NCN OPUS project, what scientific outcomes and high-impact publications do you expect to achieve during a two-year postdoctoral appointment?
- Our project aims to synthesize, optimize and characterize high-performance lead-free perovskite materials for direct X-ray detection during the first phase of the project. How would you approach this objective experimentally, and do you consider yourself capable of delivering this milestone within the proposed timeframe?
- How does your previous research experience complement the ongoing activities of our group, and what original scientific contributions do you expect to make to the project?

- Please describe your hands-on experience with materials synthesis, thin-film processing, device fabrication and advanced characterization techniques. Which instruments have you independently operated?
- Among your publications, how many are original research papers and how many are review articles? Please briefly describe your scientific contribution to your most significant publications.
- Do you have practical experience operating micro-XRD systems? If so, please explain the types of structural characterization you have performed and how the results supported your research.

Candidate Evaluation

- Dr. Sanam Attique answered all questions confidently and satisfactorily. She demonstrated excellent knowledge of perovskite materials, optoelectronic devices, and X-ray detector technologies. The committee found that her previous research experience aligns well with the objectives of the NCN OPUS project.
- Her presentation demonstrated extensive experience in:
- Perovskite material synthesis and crystal growth.
- Thin-film fabrication and device engineering.
- Lead-free and hybrid perovskite materials.
- X-ray detectors, photodetectors, resistive memory devices, lasers, LEDs and wearable electronics.
- Scientific writing and publication in high-impact journals.
- The committee also noted that the candidate has a strong publication record (**40 peer-reviewed publications, h-index 17, approximately 900 citations**) and is currently conducting postdoctoral research at Zhejiang University on perovskite optoelectronic devices and X-ray detectors. Her experience is directly relevant to the objectives of the NCN-funded project.

Overall Assessment

The committee agreed that Dr. Sanam Attique possesses the scientific knowledge, experimental expertise, publication record and research motivation required for the position. Her background in lead-free perovskite materials, optoelectronic devices and X-ray detectors makes her well suited to contribute to the successful implementation of the project.

Recommendation

Based on the presentation, scientific discussion and responses to the interview questions, the committee unanimously considers **Dr. Sanam Attique** to be **a suitable candidate for the postdoctoral position** under the NCN OPUS-29 project **"Advanced Optoelectronic Materials and Radiation Detectors" (Grant No. 2025/57/B/ST11/04518)** and recommends her for appointment.

Dr Khuram Shehzad, prof. PŚ

dr hab. inż. Maciej Krzywiecki, prof. PŚ