CONFERENCE ATTENDANCE REPORT

Name	:	AP Dr Devagi Kanakaraju (Ketua Projek) Pheodora Pamela Natashya Anak Roland Munan (GRA)
Faculty/Institute/Centre	:	Faculty of Resource Science and Technology
Conference Title	:	The 36th International of Analytical Sciences 2024 (SKAM36)
Title of Paper/Presentation	:	Magnetic TiO_2-sago hampas based Activated Carbon for the Degradation of Methylene Blue
Conference Venue & Date	:	The Everly, Putrajaya (3rd to 5th September 2024)
Conference Organised by	:	Universiti Kebangsaan Malaysia (UKM), Persatuan Sains Analisis Malaysia (ANALIS)
Participation Sponsored by	:	Geran Penyelidikan UNI/F07/TOC/84733/2022

1. Explain the new knowledge (e.g. theories/ concepts/ issues/ research methods/ techniques) gained from the conference.

From the conference, new knowledge and advancements in analytical science were obtained across several key areas. These included innovations in spectroscopic techniques such as NMR, studies on sustainable catalytic processes, and cutting-edge nanomaterial characterization. The conference also covered omics technologies (genomics, proteomics), emphasizing high-precision, high-throughput analysis, alongside advances in forensic and environmental monitoring. Additionally, the integration of AI and machine learning for data interpretation, as well as the development of eco-friendly analytical methods under the green chemistry banner, were major topics.

In terms of research methods, innovations in real-time, high-resolution spectroscopic methods for analyzing the surface and structural properties of materials at the nanoscale. These methods, such as advanced scanning electron microscopy (SEM) and atomic force microscopy (AFM), enable deeper insights into the morphology and chemistry of novel materials. Additionally, new green chemistry approaches are being incorporated to minimize the environmental impact of material synthesis and characterization. Techniques that reduce solvent use, employ recyclable

materials, or use energy-efficient instruments were emphasized as a growing trend.

2. Explain the feedback received on your presentation (Please indicate duration, Q&A and other relevant discussion).

During the oral presentation, I was allocated 10 minutes to present my research, followed by a 5-minute Q&A session. The audience and panel members engaged actively, asking insightful questions related to my work. Some of the key questions were:

- As you are conducting doping, have you observed any adjustments in the band gap of the material?
- How do you confirm that the removal process is driven by photocatalysis rather than adsorption?
- What factors contribute to the decrease in efficiency of the nanocomposite for methylene blue (MB) removal after multiple treatment cycles?

The discussion provided valuable feedback, offering me new perspectives on refining certain aspects of my research.

3. Will there be any follow-up activities resulting from your participation in the conference (e.g. research collaboration, institutional visits)? State the activity and person(s) involved, if any.

While no specific follow-up activities have been confirmed as a direct result of my participation in the conference, I made valuable connections with several researchers in the field. These interactions have opened up potential opportunities for future research collaborations and knowledge exchange. I am optimistic that these discussions could lead to joint projects or institutional visits in the future, particularly in the area of advanced materials and photocatalysis research.

4. Would you recommend this conference to others?

[√] Yes [ ] No

Explain the reason(s).

I would suggest this conference to others for several compelling reasons:

1. Cutting-Edge Knowledge: The conference provides exposure to the latest advancements in analytical science, with presentations and discussions on emerging techniques, technologies, and research trends.

2. Networking Opportunities: It attracts experts and researchers from around the world, offering a valuable platform to engage with leading scientists, exchange ideas, and form potential collaborations.

3. Diverse Research Themes: The conference covers a wide array of topics, from nanotechnology to environmental monitoring, making it relevant for researchers from various disciplines, especially those working on advanced materials and related fields.

4. Professional Growth: Presenting at this conference allows participants to receive constructive feedback from experts, which can significantly improve their research. It also helps in building a professional reputation within the scientific community.

5. Global Perspective: With international participation (plenary speakers & participants), it provides insights into how analytical science is evolving across different regions, expanding one's understanding of global scientific challenges and solutions.

These factors make it an excellent platform for researchers looking to stay updated, expand their network, and advance their careers.

5. The paper you have presented at this conference

	has been published; please specify the journal/proceeding:

OR

√	is being rewritten for publication.

OR

	others, please specify :

6. **Please attach a copy of the conference material/kit with this Report for CAIS repository.**

Signature	Prof Madya Dr Devagi a/p Kanakaraju Pensyarah Fakulti Sains dan Teknologi Sumber Universiti Malaysia Sarawak	Verified and approved by Dean/Director Prof Madya Dr Faisal Ali Anwarali Khan Dekan Fakulti Sains dan Teknologi Sumber Universiti Malaysia Sarawak
Date	18/9/2024	18/9/2024