

# Preface

The International Symposium on Advanced Materials (ISAM) was organized by Pakistan Advanced Materials Forum (PAMF) and was held at the National Centre of Physics (NCP), Islamabad, Pakistan on October 18-22, 2021. The symposia on Advanced Materials have successfully been held biennially with an ever-increasing number of participants and delegates from home and abroad since 1989. This is the seventeenth event in the series of these symposia. The symposium aims to provide a versatile and reputed international forum for researchers, engineers and scientists to present their advanced research and new findings in the field of advanced materials science and technology.

This volume contains peer-reviewed papers selected from 235 presentations made during the Symposium. All of the papers have been reviewed by expert referees in their disciplines of relevant topics. The papers selected for this volume depended on their quality and relevance to the conference. The editors hope that this proceeding will provide the reader with a broad overview of the latest advances in the field of advanced materials science and technology, and will be a valuable reference source for further research.

As a general secretary, I would like to express my sincere appreciation and thanks to all the committee members of ISAM-2021 for their tremendous efforts. It was impossible to have a successful ISAM-2021 and a high-quality volume of the conference proceeding without their dedication. The efforts of the technical secretary along with his team are highly acknowledged for preparation of the proceeding.

The proceeding will be available online with Trans Tech Publications Ltd (TTP). I would like to thank TTP team for accepting our proceeding for publication.

I would like to gratefully acknowledge the support of the symposium president, for extending his guidance and support during the course of ISAM-2021, without which this international event was not possible.

I would like to thank all the authors who contributed papers, reviewers, and each member of all working committees, sponsors, and co-organizer of ISAM-2021 for their efforts in making the conference a great success.

Dr. Amjad Ali  
General Secretary  
PAMF

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