Preface

The International Conference of Solid State Science and Technology (ICSSST) is an annual event in Malaysia. In addition to this conference event, a workshop on Advanced Materials Technology: Growth and Characterization (AMTGC) have also been conducted. This 6th ICSSST and AMTGC workshop are jointly organized by the School of Physics and Institute of Nano-Optoelectronics Research and Technology (INOR), Universiti Sains Malaysia as host, in cooperation with the Malaysian Solid State Science and Technology Society (MASS). The aim of this conference was to provide a platform for discussions on solid-state science and technology in all aspects of physical and chemical properties, preparation and characterization techniques, optical properties; macro-, micro- and nanostructures. Furthermore, ICSSST 2017, which focuses on three key aspects of advanced technologies, namely nanoscience, nanotechnology and materials science, will provide the best platform for ideas and intellectual exchanges to catapult trans-disciplinary research, collaborations and networking among expert in the many areas of solid-state studies. The four days conference and workshop were well attended by over 200 participants, comprising mostly of scholars and researchers of solid-state research field from countries such as the USA, UK, Singapore, Japan, Kazakhstan, Iran, Nigeria, Indonesia and Malaysia.

The ICSSST 2017 has covered recent developments in the following main topics:

- Advanced Material Synthesis and Crystal Growth Technology
- Biomaterial
- Carbon and Related Materials
- Ceramics and Glasses
- Devices and Materials for Biology and Medicine
- Electrochemical & Solid State
- Lasers and Optoelectronics
- Magnetic Materials
- Materials and Energy
- Metals and Alloys
- Nanoscience and Nanotechnology



This volume of Journal of Solid State Phenomena: International Conference on Solid State Science and Technology includes 50 papers (oral presenters and posters) devoted to various branches of solid-state physics. We would like to thank the members of both the Organizing Committee and Reviewers for their patience and considerable effort to improve the manuscripts. Additionally, we deeply thank the authors for their high-level contributions and we are convinced that this volume will be of great interest to the international community of people working in solid-state physics.

Thank you.

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All individuals who helped and contributed to making this conference a success!