

# Preface

The special edition is based on materials of "The International Workshop on Positron Studies of Defects", which was held in the Sala Bianca of the Teatro Sociale di Como, Italy, on September 01-06, 2024. The workshop aimed to provide a platform for the exchange of the latest scientific results and developments concerning positron interactions with solids and surfaces, applied techniques, and their diverse applications. The special edition is devoted to issues related to applying Positron Annihilation Spectroscopy as a nondestructive technique for studying voids and defects in solids.

The first chapter contains articles describing the most recent advances in techniques and instrumentation, presenting some results of developments in these fields.

The second chapter is devoted to the practical application of the methods of positron annihilation spectroscopy for studying and analyzing defects in alloys, multilayer graphene, photoconductor thin films, complex iron-containing oxide glasses, for the study of biomedical topics.

Without a doubt, this special edition will be useful for both beginners and professionals with experience in the field of positron annihilation spectroscopy.