

Preface

The special publication contains articles that reflect the latest research results and engineering solutions for environmental protection, solar energy utilisation and fire protection.

Synthesis and properties of activated carbon for dye absorption, wastewater treatment technologies, analysis of thermal diffusivity of sewage sludge, etc. are the topics of articles collected in the first chapter.

The experimental investigation of the outdoor temperature effect on the performance of different materials for PV modules and the results of simulation modelling of the conversion process in dual junction solar cells are presented in the second chapter.

The last chapter is devoted to the study of the fire-resistance issue of various materials, the analysis of the fire-protective performance of special coatings and the properties of some fire-extinguishing substances.

The special edition will be useful to specialists in environmental protection, photovoltaics and fire protection.