

Preface

The 6th international symposium on Eco-Materials Processing and Design, which was held in January 16-18, 2005, at the DongBang Hotel in Jinju, Korea, covered on a global basis outstanding advancements in researchers, production and use of eco-materials. The symposium offer materials researchers and users a valuable opportunity for new knowledge across the whole spectrum of ecology, eco-materials, nano-materials, bio-materials, recycle, environmental protection and energy conversion related materials. To exchange scientific ideas each other in terms of environment conscious materials, which are classified into (1) photocatalysts, (2) incorporating an end-of-life strategy into materials design (3) use of non-hazardous components as substitutes for traditionally hazardous components, (4) treatment of waste materials, (5) manufacturing using a more environmentally friendly process, (6) energy conversion related materials such as rechargeable battery, solar cell, fuel cell. This conference is relatively small size, therefore, we can make good friendship each other, which can encourage the international cooperation works and exchange program for researcher as well as students to carry out science work together.

This volume can be divided into seven sections on the basis of the classification of manuscripts considered. The first section deals with photocatalysts for air pollution, water pollution, deodorizing, self cleaning, power light sources, and standardization of methodology of photocatalytic reactivity. The second section of this volume consists of incorporating end-life strategy into material design as well as biomaterials. The third section of this volume covers the use of non-hazardous components as substitutes for traditionally hazardous components. The forth section of this volume covers the treatment of waste materials. The fifth section presents manufacturing using a more environment-friendly processing (eco-processing) and eco-materials design. The final section of this volume covers the energy related or energy conversion related materials such as hydrogen energy/fuel cell or battery.

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