

Preface

The 8th international symposium on Eco-Materials Processing and Design, which was held in January 11-13, 2007 at the Kita-kyushu International Conference Center, Japan, covered on 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 as well as treatment of waste materials, (4) manufacturing using a more environmentally friendly process as well as biomaterials, (5) energy conversion related materials.

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, deodorization, 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. The third section of this volume covers the use of non-hazardous components as substitutes for traditionally hazardous components as well the treatment of waste materials. The fourth section presents manufacturing using a more environment-friendly processing (eco-processing) and eco-materials design as well as biomaterials. The final section of this volume covers the energy related or energy conversion related materials.

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