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Application: Materials Research Society Symposium Proceedings: Volume 1134

Editors: Siegfried Bauer, Zhongyang Cheng, Debra A. Wroblewski and Qiming Zhang
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SYMPOSIUM PROCEEDINGS VOLUME 1134**

Polymer-Based Smart Materials — Processes, Properties and Application

Symposium held December 2–5, 2008, Boston, Massachusetts, U.S.A.

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PREFACE

Symposium BB, "Polymer-Based Smart Materials—Processes, Properties and Application," held December 2–5 at the 2008 MRS Fall Meeting in Boston, Massachusetts, has shown up with a wide range of new materials, characterization techniques, and applications in devices. Smart materials convert energy from one form into another form, especially into electrical energy. Smart polymer materials are very attractive due to their flexibility, low-cost production and easy processability. Polymers have been shown to exhibit better performance than inorganic materials, such as larger strain responses and energy density.

The symposium provided a platform for researchers from academia and industry interested in smart polymer materials. It stimulated discussions among physicists, chemists, and engineers working in the field of smart plastics. With a focus on materials development, characterization, processing, manufacturing, analysis, design and applications, this proceedings summarizes selected work presented at the symposium.

Siegfried Bauer
Zhongyang Cheng
Debra A. Wroblewski
Qiming Zhang

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