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Novel Materials for Electronics, Optoelectronics,  
Photovoltaics and Energy Saving Applications

Warsaw, Poland, September 19-23, 2011

*Editors of the Proceedings:*

Marek Godlewski and Adam J. Zakrzewski

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POLISH ACADEMY OF SCIENCES  
INSTITUTE OF PHYSICS

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Luisa Bausa Lopez (Universidad Autonoma de Madrid, Spain)

Adam J. Zakrzewski (Institute of Physics Polish Academy of Sciences, Poland, *conference secretary*)

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Marek Godlewski

Adam J. Zakrzewski

## Preface

The Symposium H: (Novel materials for electronics, optoelectronics, photovoltaics and energy saving applications) of the 2011 E-MRS Fall Meeting (held in Warsaw, Poland, on September 19–23, 2011) was organized to cover many important aspects of basic and applied research of novel materials for present and future industrial applications. Particular emphasis was given to new technological and application concepts concerning both bulk crystals and various quantum structures of reduced dimensionality, like quantum wells and dots (nanoparticles). The presented results on application oriented materials were mostly focused on light emitting structures, light detectors, solar cells and materials for spintronics. Special attention was given to the technological aspects and challenges: growth techniques, defects control and structure optimization, doping procedures, optical properties and degradation processes. Relevant experimental techniques and crystal growth procedures were also discussed. Experimental results were compared also with theoretical calculations giving deeper insight into many problems of modern material science. Over 100 researchers from all over the world participated in this Symposium, giving in all 22 invited lectures, 33 oral talks and 64 poster presentations.

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M. Godlewski  
A.J. Zakrzewski  
*Guest Editors*