SELECTED PAPERS FROM THE 12TH INTERNATIONAL WORKSHOP ON MICRO AND NANOTECHNOLOGY FOR POWER GENERATION AND ENERGY CONVERSION APPLICATIONS (POWERMEMS 2012) (ATLANTA, GA, USA, 2–5 DECEMBER 2012)

PREFACE

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Mark G Allen and Jeffrey Lang

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114002 Microfabricated electrodynamic transformers for electromechanical power conversion
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114003 A piezoelectric cantilever with a Helmholtz resonator as a sound pressure sensor
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114004 Impact-triggered thermoelectric power generator using phase change material as a heat source
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114005 A high-output-voltage micro-thermoelectric generator having high-aspect-ratio structure
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114006 Microfabrication of toroidal inductors integrated with nanolaminated ferromagnetic metallic cores
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114007 Parametrically excited MEMS vibration energy harvesters with design approaches to overcome the initiation threshold amplitude
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114008 Microfabricated nickel-based electrodes for high-power battery applications
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114009 Novel MEMS-based fabrication technology of micro solenoid-type inductor
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11410 An electret-based energy harvesting device with a wafer-level fabrication process
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11411 Fabrication of an all SU-8 electropun nanofiber based supercapacitor
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11412 An energy harvesting system for passively generating power from human activities
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11413 Micro supercapacitors based on a 3D structure with symmetric graphene or activated carbon electrodes
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11414 Solid flexible electrochemical supercapacitor using Tobacco mosaic virus nanostuctures and ALD ruthenium oxide
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