



**FACULTY OF ELECTRICAL ENGINEERING
AND INFORMATION SCIENCE**



**INFORMATION TECHNOLOGY AND
ELECTRICAL ENGINEERING -
DEVICES AND SYSTEMS,
MATERIALS AND TECHNOLOGIES
FOR THE FUTURE**

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<http://www.db-thueringen.de/servlets/DocumentServlet?id=12391>

Impressum

Herausgeber: Der Rektor der Technischen Universität Ilmenau
Univ.-Prof. Dr. rer. nat. habil. Peter Scharff

Redaktion: Referat Marketing und Studentische
Angelegenheiten
Andrea Schneider

Fakultät für Elektrotechnik und Informationstechnik
Susanne Jakob
Dipl.-Ing. Helge Drumm

Redaktionsschluss: 07. Juli 2006

Technische Realisierung (CD-Rom-Ausgabe):
Institut für Medientechnik an der TU Ilmenau
Dipl.-Ing. Christian Weigel
Dipl.-Ing. Marco Albrecht
Dipl.-Ing. Helge Drumm

Technische Realisierung (Online-Ausgabe):
Universitätsbibliothek Ilmenau
[ilmedia](#)
Postfach 10 05 65
98684 Ilmenau

Verlag:  Verlag ISLE, Betriebsstätte des ISLE e.V.
Werner-von-Siemens-Str. 16
98693 Ilmenau

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ISBN (Druckausgabe): 3-938843-15-2
ISBN (CD-Rom-Ausgabe): 3-938843-16-0

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M. Hoffmann, S. Stoebenau, M. Teschke, S. Sinzinger

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R. Adelung, D. Cengher, V. Cimalla, F. Will, Ch. Förster, M. Elbahri, S. Jebril, S. K. Raudra, O. Ambacher

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M. Fischer, M. Stubenrauch, T. Kups, H. Romanus, F. M. Morales, G. Ecke, M. Hoffmann, Ch. Knedlik, O. Ambacher, J. Pezoldt

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F. Will, K. Tonisch, V. Cimalla, D. Cengher, C. Haupt, K. Brückner, R. Stephan, M. A. Hein, O. Ambacher

Micro- and nanomechanical resonators for sensing applications

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K. Tonisch, V. Cimalla, F. Will, C. Haupt, D. Cengher, F. Weise, M. Stubenrauch, A. Albrecht, M. Hoffmann, O. Ambacher

First steps towards a nanowire-based electromechanical biomimetic sensor

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M. Ali, G. Ecke, V. Cimalla, T. Stauden, V. Tilak, P. Sandvik, O. Ambacher

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G. Kittler, A. Spitznas, B. Lübbers, V. Lebedev, D. Wegener, A. Schober, M. Gebinoga, F. Schwierz, V. Polyakov, F. Weise, O. Ambacher

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M. Kittler, C. Schippel, R. Granzner, F. Schwierz

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E. Serebryakova, D. Kholodnyak, I. B. Vendik

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U. Schadewald, B. Halbedel, H. Romanus, D. Hülsenberg

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S. Völlmeke, H. Bartuch, H. Laucht, D. Kovalev

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L. Lunin, I. Sisoiev, S. Gazarjan, R. Veliev, A. Barannik

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D. V. Kulikov, A. A. Schmidt, S. A. Korolev, F. M. Morales, T. Stauden, J. Pezoldt, Y. V. Trushin

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S. Flickyngerova, I. Novotny, V. Tvarozek, M. Nigrovicova, A. Satka, J. Kovác, P. Sutta, V. Breternitz, L. Spiess, C. Knedlik

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M. Wilke, M. Analytis, V. Breternitz, C. Knedlik, G. Teichert

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S. Selve, A. Knote, T. Kups, H. Krüger, L. Spiess, H. Kern

Solid state physical analysis of nanoscale functional ceramic composite layers

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E. Goldstein, H. Schau, A. Novitskiy, N. Batseva, E. Radaev

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B. Tzaneva, T. Heck, H. Schau, D. Stade

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I. Konotop, A. Novitskiy, H. Schau, S. Westheuser

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D. Kürschner

Three phase matrix converter with special control techniques for contactless energy transmission

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B. Vogler, M. Rossberg, R. Herzer

A fully integrated 600V SOI Half Bridge IGBT Gate Driver IC

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M. Yasin Dali, U. Rädcl, T. Ellinger, J. Büttner, J. Petzoldt

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K. Jaracz, A. Paszek

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M. Muhr, G. Knollseisen, R. Schwarz, C. Sumereder

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A. Tzinevrakis, D. K. Tsanakas, E. Mimos

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J. Järvik, V. Kesküla, A. Killk

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M. Muhr, S. Pack, R. Schwarz, S. Jaufer

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D. Westermann, P. Moreno, R. Müller, P. Büchner

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East West Cross Border Electricity Trade enabled by Wide area measurement and control

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Y. Hnatyshyn, Y. Badera, O. Mukha

Effectiveness of developing heating energy out of wood by products

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A. Zolotarev, M. Kryvenka, M. Heit, D. Westermann

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M. Conrath, V. Kocourek, C. Karcher

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V. Kocourek, J. Mohring

Stability of free surfaces of liquid metals affected by a high-frequency magnetic field

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R. Klein, A. Potherat

Experiment on MHD turbulence under low magnetic Reynold's number

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A. Jakovics, M. Kirpo, B. Nacke

LES modelling of turbulent structure and mass transfer processes in induction furnaces

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E. Baake, A. Umbrashko, A. Jakovics

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