

DEPARTMENT OF ELECTROTECHNOLOGY

<http://aladin.elf.stuba.sk/Katedry/KETG/>

Head of Department

Doc. Ing. Jaroslav Lelák, PhD.

e-mail: jaroslav.lelak@stuba.sk

Tel/Fax: +421-2-654 25 822

I. STAFF

Associate Professors	Doc. Ing. Anna Grusková, PhD., Doc. Ing. Jaroslav Lelák, PhD., Doc. Ing. Vladimír Šály, PhD., Doc. Ing. Miroslav Kopča, PhD.
Assistant Professors	Ing. Juraj Packa, PhD., Ing. Peter Poljovka, PhD., Ing. Michal Váry, PhD.
Senior Scientists	Ing. Michal Ružinský, PhD., Ing. Vladimír Ďurman, PhD.
Technical Staff	Anna Ferenčíková (secretary), Marián Kamendy
PhD. Students	Ing. Milan Perný, Ing. Ján Budaj, Ing. Martin Kusko

II. EQUIPMENT

II.1 Teaching and Research Laboratories

- Photovoltaic Laboratory
- High Voltage and Ageing Tests Laboratory
- Laboratory of Cables and Wires
- Laboratory of Health Protection at Work
- Laboratory of Dielectric Properties of Materials
- Laboratory of Electrical Components
- Laboratory of Liquid Dielectrics
- Laboratory of Magnetic Materials

II.2 Special Measuring Instruments and Computers

- Test Chambers for Combined Ageing Tests of Insulating Systems
- Solar Simulator for Photovoltaics
- Climatic Test Chamber FEUTRON
- Systems for Measuring of Complex Impedance
- Vibration Magnetometer PVM-1
- Solar Cells Electric Characterization Equipment

III. TEACHING

III.1 Undergraduate Study (Bc.)

Subject, semester, hours per week for lectures and for seminars or practical exercises, name of the lecturer.

Safety and Protection of Health at Work I	(1st sem., 1-2h)	M. Kopča, J. Packa
Safety and Protection of Health at Work	(1st sem., 1-2h)	M. Kopča, V. Šály
Materials for Electrical Engineering	(3rd sem., 2-3h)	V. Šály
Materials and Technology for Electrical Engineering	(3rd sem., 2-3h)	J. Lelák

Safety and Protection of Health at Work II	(4th sem., 1-4h)	M. Kopča, V. Šály
Technological Processes	(6th sem., 2-3h)	V. Šály, A. Grusková

III.2 Graduate Study (Ing.)

Technology of Electronic Devices	(1st sem., 2-2h)	M. Kopča
Renewable Energy Sources	(1st sem., 2-1h)	M. Ružinský
Technology of Ceramic Composites	(2nd sem., 2-2h)	A. Grusková
Materials Physics 2	(2nd sem., 2-3h)	V. Ďurman
Photovoltaic Cells and Systems	(3rd sem., 2-2h)	V. Šály
Quality Management	(3rd sem., 2-1h)	P. Poljovka
Quality Management	(4th sem., 2-1h)	P. Poljovka
Metallic and Optical Cables	(3rd sem., 2-2h)	J. Lelák

III.3 Undergraduate Study (Bc. Distance Education Method)

Safety and Protection of Health at Work I	(1st sem.)	M. Kopča
Safety and Protection of Health at Work II	(4th sem.)	M. Kopča
Materials for Electrical Engineering	(3rd sem.)	J. Lelák

IV. RESEARCH PROJECTS

- Research and Application of New Composite Materials for Cables Used in Vehicles APVV-0257-07, VUKI (J. Lelák)
- Research on Properties of Composite Materials Based on Micro-Filler for Electrical Insulation Systems, VEGA1/0445/10 (J. Lelák)
- Materials and Material Structures for Photovoltaic Cells and Modules, VEGA 1/0443/10 (V. Šály)
- Research and Preparation of Perspective Magnetic, Nanomagnetic and Hybrid Composite Materials for New Applications in Electrical Engineering and Automobile Industry, VEGA 1/0575/09 (J. Sláma, A. Grusková, V. Ďurman)
- Structural and Magnetic Changes of Disordered and Nanocrystalline Alloys, VEGA 1/0606/09 (J. Šitek, A. Grusková)

International Scientific Projects:

- Preparation and Characterization of Materials Based on Iron Oxides by Magnetic Methods, Czech /Slovak cooperation, ZS-4/2001-2015 (J. Šubrt, A. Grusková)
- Magnetic and Microstructural Studies of New Nanocomposited and Substituted Ferrites, Synthesized by Mechanical Alloying and Other Advanced Methods, CONACYT project 89783 (UABC, Mexicali), Mexico Slovak Cooperation (A. González, A. Grusková)

V. COOPERATION

V.1 Cooperation in Slovakia

- VUKI jsc, Bratislava
- EZ-Elektromont jsc
- VÚJE jsc, Trnava

- MURAT Ltd., Pezinok
- BEZ jsc, Bratislava
- HAKL Ltd., Bratislava
- DELTA ENERGY SYSTEMS Ltd Nová Dubnica
- SE jsc OZ EBO, Jaslovské Bohunice
- SYLEX Ltd., Bratislava
- Elkond HHK jsc, Trstená
- Institute of Electrical Engineering, Slovak Academy of Sciences, Bratislava
- Institute of Physics, Slovak Academy of Sciences, Bratislava
- VUSAPL, Nitra
- ELBA jsc, Kremnica
- PPC Čab jsc, Nové Sady
- TAU-CHEM Ltd., Bratislava
- All Deco Ltd., Jaslovské Bohunice
- Institute of Materials Research, Slovak Academy of Sciences, Košice
- Elektroservis jsc, Bratislava
- SONY Slovakia Ltd., Nitra Plant
- UPJŠ Košice
- ZSE jsc, Bratislava
- UMMS-SAV, Bratislava

V.2 International Cooperation

- ABB Corporate Research, Baden Daettwil, Switzerland
- Technical University, Brno, CzR
- Czech Technical University, Prague, CzR
- University of West Bohemia, FEE Pilsen
- Institute of Anorganic Chemistry, Academy of Sciences, Řež, CzR
- Piezoceram Ltd., Hradec Králové, CzR
- Motorpal, jsc Světlá Hora, CzR
- Silcotec Europe Ltd., Ireland
- PROTECH Group, Ltd., Klatovy, CzR
- Fraunhofer Institute for Solar Energy Systems ISE, Freiburg, Germany
- EC JRC Ispra, Italy
- Solartec Ltd., Rožnov pod Radhoštěm, CzR
- Foundation for Research and Technology, MRG-IESL, Heraklion, Crete, Greece
- WSC – World Solar Challenge, Adelaide, Australia
- Institute of Microelectronics and Optoelectronics, Warsaw University of Technology, Poland
- WREN - World Renewable Energy Network, Reading, UK
- UA of BAJA CALIFORNIA, Mexicali, Mexico
- Aristotle University, Thessaloniki, Greece
- Angel Kunchev University of Rousse, Bulgaria

V.3 Membership in International Organizations and Societies

- Senior Member, IEEE - EDS (Electron Devices Society), USA (M. Ružinský)
- WREN - World Renewable Energy Council /Network, UK (M. Ružinský)
- WREN - World Renewable Energy Council /Network, UK (V. Šály)
- Member of International Steering Committee EMFM, (A. Grusková)

V.4 Contracts

- Long Time Combine Ageing Tests of Insulation Systems. Contract with ABB Corporate Research, Baden Daettwil, Switzerland (J. Lelák et al.)
- Measurement of Dielectric Properties of Cables. Contract with VUJE jsc, Trnava VUJE (J. Lelák et al.)
- Treatment of Data&Signal Cables. Contract with Silcotec Europe Ltd. Ireland (J. Lelák et al.)

- Impulse and AC Breakdown Voltage Tests of 22 kV XLPE Cables. Contract with NKT Cables Velké Meziříčí k.s., NKT Group, Czech Republic (J. Lelák et al.)
- Testing of High Voltage Ceramic Insulators. Contract with Polyservis s.r.o., Nitra (J. Lelák et al.)
- A Comprehensive Evaluation of the Causes of Disorder 6 kV Cable and Design Appropriate Solutions for Fire Penetrations, Contract with ENEL jsc. Bratislava (J. Lelák et al.)

VI. THESES

VI.1 Masters Theses

Masters theses supervised at the Department of Electrotechnology. The names of supervisors are in brackets.

- [1] Kovačič, M.: The Properties of Cable System in Extreme Conditions (M. Váry)

VI.2 PhD Theses

- [1] Rusnák, J.: Development of Selected Electrical Methods for Research of Photovoltaic Crystalline Silicon Based Materials (M. Ružinský, E. Pinčík)
- [2] Ušáková, M.: Ferrite Powder Materials as the Filter for Magnetocomposites (A. Grusková)

VII. OTHER ACTIVITIES

- Organising of 18th International Conference DISEE 2010 in Demänovská Dolina, 22 - 24 September 2010
- Members of International Steering Committee of 'World Renewable Energy Congress XI', WREC 2010, Abu-Dhabi (M. Ružinský, V. Šály)
- Activities in: Renewable Energy World/PennWell's International Directories, 2010-2011 Review Issue (M. Ružinský)
- Bilateral Agreement, Socrates Programme Higher Education (ERASMUS) STU Bratislava - Angel Kunchev University of Rousse (V. Šály)
- Participation in National Centre for Research and Application of Renewable Energy Sources
- The Accredited Educational Activity 'The Education in the Area of Safety and Protection of Health at Work - § 21, § 22, § 23' (M. Kopča)
- The Accredited Educational Activity 'The Electrical Minimum' (M. Kopča)

VIII. PUBLICATIONS

VIII.1 Journals

- [1] DOSOUDIL, R. - UŠÁKOVÁ, M. - GRUSKOVÁ, A. - SLÁMA, J.: Complex Permeability of LiZn/MnZn/PVC Composite Materials. In: Acta Physica Polonica A. - ISSN 0587-4246. - Vol. 118, No. 5 (2010), p. 1049-1050. (in English)
- [2] DOSOUDIL, R. - UŠÁKOVÁ, M. - FRANEK, J. - SLÁMA, J. - GRUSKOVÁ, A.: Particle Size and Concentration Effect on Permeability and EM-Wave Absorption Properties of Hybrid Ferrite Polymer Composites. In: IEEE Transactions on Magnetics. - ISSN 0018-9464. - Vol. 46 (2010), p. 436-439. (in English)
- [3] ĎURMAN, V. - LELÁK, J.: Influence of Radiation on the Dielectric Properties of XLPE Based Insulation Systems. In: Journal of Electrical Engineering. - ISSN 1335-3632. - Vol. 61, No. 4 (2010), p. 229-234. (in English)

- [4] GONZÁLEZ-ANGELES, A. - LIPKA, J. - GRUSKOVÁ, A. - SLÁMA, J. - JANČÁRIK, V. - SLUGEN, V.: Magnetic Comparison of BaCa and BaSr Substituted Hexaferrite Powders. In: Journal of Physics: Conference Series. - ISSN 1742-6588. - Vol. 217 (2010), Art. no. 012137. (in English)
- [5] GRUSKOVÁ, A. - SLÁMA, J. - UŠÁKOVÁ, M. - ŠOKA, M. - DOSOUDIL, R. - DEGMOVÁ, J.: Study of Magnetic and Structural Properties of Non-Stoichiometric NiZn Ferrites Prepared by Wet Method. In: Acta Physica Polonica A. - ISSN 0587-4246. - Vol. 118, No. 5 (2010), p. 780-781. (in English)
- [6] JANÍČEK, F. - POLJOVKA, P. - ŠULC, I. - ŠEDIVÝ, J.: Electricity Market Operator in Slovak Republic. In: Zeszyty Naukowe Politechniki Opolskiej. - ISSN 1429-1533. - Z. 64, Nr. 336 (2010), p. 51-53. (in English)
- [7] JANÍČEK, F. - DARUĽA, I. - POLJOVKA, P. - ŠEDIVÝ, J. - ŠULC, I.: Trading with Electric Power in the Conditions of a Liberalized Electricity Market in Slovakia. In: Zeszyty Naukowe Politechniki Opolskiej. - ISSN 1429-1533. - Z. 64, Nr. 336 (2010), p. 53-55. (in English)
- [8] PERNÝ, M. - ŠÁLY, V.: AC Measurements of Photovoltaic Cells or Moduls. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 16, No. 2 (2010), p. 32-34. (in Slovak)
- [9] PERNÝ, M. - ŠÁLY, V. - KUSKO, M. - RUŽINSKÝ, M. - SMITKOVÁ, M.: Complex Impedance of PV Cells and its Voltage and Temperature Dependence at the Dark Condition. In: Energetika. - ISSN 0375-8842. - Vol. 60 (2010), p. 573-575. (in Slovak)
- [10] PERNÝ, M. - ŠÁLY, V. - HURAN, J.: Electrical Properties of Nanocrystalline SiC as a Part MSM Structure. In: Energetika. - ISSN 0375-8842. - Vol. 60 (2010), p. 654-657. (in Slovak)
- [11] REHÁKOVÁ, M. - CASCIOLA, M. - ČUVANOVÁ, S. - WADSTEN, T. - ŠÁLY, V. - NAGYOVÁ, S. - FORTUNOVÁ, E. - SGANAPPA, M. - PACKA, J.: Nanosized Composites of Synthetic Zeolites and Silver Iodide as Potentially Electrochemically Active Materials. In: Journal of Inclusion Phenomena and Macrocyclic Chemistry. - ISSN 0923-0750. - Vol. 66 (2010), p. 319-325. (in English)
- [12] RUŽINSKÝ, M.: Dream Cup Solar Car Race Suzuka 2010. Formula 1 of Solar Cars. In: Stop. - ISSN 1335-0730. - Vol. 40, No. 16 (2010), p. 46-47. (in Slovak)
- [13] RUŽINSKÝ, M.: Solar Automobiles. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 16, No. 2 (2010), p. 40-42. (in Slovak)
- [14] RUŽINSKÝ, M.: Solar Car Events in 2010. In: Elektrotechnika v praxi. - ISSN 0862-9730. - Vol. 20, No. 11-12 (2010), p. 76-78. (in Slovak)
- [15] RUŽINSKÝ, M.: World Solar Challenge - Observers & Volunteers in Solar-Powered Racing. In: Polska energetyka słoneczna. - ISSN 1730-2420. - Nr. 1-4/2009, Nr. 1 (2010), p. 68-71. (in English)
- [16] SLÁMA, J. - GRUSKOVÁ, A. - ŠOKA, M. - UŠÁKOVÁ, M. - JANČÁRIK, V.: Analysis of Magnetic Properties of Substituted Li Ferrites. In: IEEE Transactions on Magnetics. - ISSN 0018-9464. - Vol. 46 (2010), p. 455-458. (in English)
- [17] SLÁMA, J. - UŠÁK, E. - ŠOKA, M. - GRUSKOVÁ, A. - UŠÁKOVÁ, M. - JANČÁRIK, V.: Analysis of Selected Be-Substituted NiZn Ferrites. In: IEEE Transactions on Magnetics. - ISSN 0018-9464. - Vol. 46 (2010), p. 447-450. (in English)

- [18] SLÁMA, J. - ŠOKA, M. - GRUSKOVÁ, A. - UŠÁKOVÁ, M. - OLAH, V. - JANČÁRIK, V.: Changes of NiZn Properties by Substitution of Zn with Cu And Co Ions. In: Journal of Electrical Engineering. - ISSN 1335-3632. - Vol. 61, No. 7/s (2010), p. 160-162. (in English)
- [19] ŠÁLY, V. - PACKA, J. - RUŽINSKÝ, M. - PERNÝ, M. - KUSKO, M. - DURNÝ, R.: Activities in Area of Photovoltaics at FEI STU in Bratislava. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 16. No. 4 (2010), 10-11, 24. (in Slovak)
- [20] ŠOKA, M. - SLÁMA, J. - GRUSKOVÁ, A. - UŠÁKOVÁ, M. - DOSOUDIL, R.: Role of Thermomagnetic Curves at Preparation of NiZn Ferrites with Fe Ions Deficiency. In: Journal of Electrical Engineering. - ISSN 1335-3632. - Vol. 61, No. 7/s (2010), p. 163-165. (in English)
- [21] UHRÍK, M. - ŠÁLY, V.: Impact of Stator Lamination on Disk Generator Losses in Wind Powered Energy Plant Sources. In: Energetika. - ISSN 0375-8842. - Vol. 60 (2010), p. 650-653. (in Slovak)
- [22] VÁRY, M. - FIRICKÝ, E.: Organic Semiconductors for Solar Cells. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 16, No. 3 (2010), p. 29-31. (in Slovak)

VIII.2 Conference Proceedings

- [1] BUDAJ, J.: Polymer Nanocomposites - an Overview. In: Dielectric and Insulating Systems in Electrical Engineering: 18th International Conference DISEE 2010. Demänovská Dolina, Slovak Republic, 22.-24.9.2010. - Bratislava: STU, 2010. - ISBN 978-80-227-3366-3. - p. 198-200. (in English)
- [2] DOSOUDIL, R. - UŠÁKOVÁ, M. - GRUSKOVÁ, A. - SLÁMA, J.: Complex Permeability of LiZn/MnZn/PVC Composite Materials. In: CSMAG '10. 14th Czech and Slovak Conference on Magnetism: Košice, Slovak Republic, 6.-9.7.2010. - Košice: Pavol Jozef Šafárik University, 2010. - ISBN 978-80-7097-804-7. - p. 234. (in English)
- [3] ĎURIŠ, T. - ŠÁLY, V. - ĎURMAN, V. - PACKA, J. - PERNÝ, M. - KUSKO, M. - BAŘINKA, R.: Assessment of PV Module Encapsulant as an Insulation System. In: 25th European Photovoltaic Solar Energy Conference. 5th World Conference on Photovoltaic Energy Conversion: Valencia, Spain, 6.-10.9.2010. - Munich: WIP-Renewable Energies, 2010. - ISBN 3-936338-26-4. - p. 4056-4059. (in English)
- [4] ĎURMAN, V. - LELÁK, J.: Analysis of Dielectric Processes in the Layered Structures. In: Dielectric and Insulating Systems in Electrical Engineering: 18th International Conference DISEE 2010. Demänovská Dolina, Slovak Republic, 22.-24.9.2010. - Bratislava: STU, 2010. - ISBN 978-80-227-3366-3. - p. 97-100. (in English)
- [5] ĎURMAN, V. - LELÁK, J.: Degradation Processes in the Cable Insulation and the Possibility of their Identification. In: Dielectric and Insulating Systems in Electrical Engineering: 18th International Conference DISEE 2010. Demänovská Dolina, Slovak Republic, 22.-24.9.2010. - Bratislava: STU, 2010. - ISBN 978-80-227-3366-3. - p. 24-27. (in English)
- [6] ĎURMAN, V. - LELÁK, J. - BUDAJ, J.: On the Possibility of Identifying Delamination in Stator Bars Insulation by Absorption and Resorption Currents Measurements. In: DESAM 2010. Diagnostics of Electrical Machines and Materials: 1st International Scientific Conference. Malá Lučivná, Slovak Republic, 24.-26.3.2010. - Žilina: Georggrafia, s.r.o, 2010. - ISBN 978-80-89478-01-9. - p. 6-8. (in Slovak)
- [7] ĎURMAN, V. - ŠÁLY, V.: Slow Polarization Processes in Dielectric Structures. In: APCOM 2010. Applied Physics of Condensed Matter: Proceedings of 16th International Conference. Malá Lučivná, Slovak Republic, 16.-18.6.2010. - Bratislava: Nakladateľstvo STU, 2010. - ISBN 978-80-227-3307-6. - p. 142-145. (in English)

- [8] GRUSKOVÁ, A. - SLÁMA, J. - UŠÁKOVÁ, M. - ŠOKA, M. - DOSOUDIL, R. - DEGMOVÁ, J.: Study of Magnetic and Structural Properties of Non-Stoichiometric NiZn Ferrites Prepared by Wet Method. In: CSMAG '10. 14th Czech and Slovak Conference on Magnetism: Košice, Slovak Republic, 6.-9.7.2010. - Košice: Pavol Jozef Šafárik University, 2010. - ISBN 978-80-7097-804-7. - p. 105. (in English)
- [9] HURAN, J. - PERNÝ, M. - ŠÁLY, V.: Dielectric Characterization of SiC for PV Application. In: 5th Czech Photovoltaic Conference: Brno, 10.-13. 12.2010. - Rožňov pod Radhoštěm: Czech RE Agency, 2010. - ISBN 978-80-254-8906-2. - p. 106-109. (in English)
- [10] KOPČA, M. - VÁRY, M.: Current and Power Load Characteristics of LV and MV Cables and Conductors. In: Eltech SK 2010: 1st National Meeting of the Electrical Devices Inspectors, Designers, Workers in Electrical Engineering and Electrical Maintenance Companies with Technical Inspection of Slovak Republic. Štrbské pleso, Slovak Republic, 8.-10.6.2010. - Prague: Saltek, 2010. - DVD-Rom. (in Slovak)
- [11] KOPČA, M. - VÁRY, M.: Regulations in the Dimensioning of the Current Capacity of LV and MV Cables. In: Dielectric and Insulating Systems in Electrical Engineering: 18th International Conference DISEE 2010. Demänovská Dolina, Slovak Republic, 22.-24.9.2010. - Bratislava: STU, 2010. - ISBN 978-80-227-3366-3. - p. 208-210. (in English)
- [12] KUSKO, M. - ŠÁLY, V.: AC and DC Response of Non-Standard Poly-Si Solar Cells. In: 5th Czech Photovoltaic Conference: Brno, 10.-13.12.2010. - Rožňov pod Radhoštěm: Czech RE Agency, 2010. - ISBN 978-80-254-8906-2. - p. 94-97. (in English)
- [13] KUSKO, M. - ŠÁLY, V.: Comparison of AC and DC Parameters of poly-Si PV Cells with Alternative Top Electrode Topology. In: Dielectric and Insulating Systems in Electrical Engineering: 18th International Conference DISEE 2010. Demänovská Dolina, Slovak Republic, 22.-24.9.2010. - Bratislava: STU, 2010. - ISBN 978-80-227-3366-3. - p. 178-181. (in English)
- [14] KUSKO, M.: The Influence of Counter Electrode Topology Alteration on Selected Parameters of Poly-Si PV Cells. In: ELITECH'10: 12th Conference of Doctoral Students. Bratislava, Slovak Republic, 26.5.2010. - Bratislava: STU, 2010. - ISBN 978-80-227-3303-8. - CD-Rom. (in English)
- [15] OVČIARIK, M. - SULOVA, J. - VERBICH, O. - LELÁK, J.: Electrical Insulating Materials for Cables in Transport Systems. In: Dielectric and Insulating Systems in Electrical Engineering: 18th International Conference DISEE 2010. Demänovská Dolina, Slovak Republic, 22.-24.9.2010. - Bratislava: STU, 2010. - ISBN 978-80-227-3366-3. - p. 163-166. (in Slovak)
- [16] PERNÝ, M. - HURAN, J.: Electrical Properties of Amorphous SiC Prepared by PECVD on Si Substrate. In: ELITECH'10: 12th Conference of Doctoral Students. Bratislava, Slovak Republic, 26.5.2010. - Bratislava: STU, 2010. - ISBN 978-80-227-3303-8. - CD-Rom. (in English)
- [17] PERNÝ, M. - ŠÁLY, V. - ĎURMAN, V. - HURAN, J.: Electrical Properties of Nanocrystalline SiC (SiCN) within MSM Structure. In: 25th European Photovoltaic Solar Energy Conference. 5th World Conference on Photovoltaic Energy Conversion: Valencia, Spain, 6.-10.9.2010. - Munich: WIP-Renewable Energies, 2010. - ISBN 3-936338-26-4. - p. 3307-3310. (in English)
- [18] PERNÝ, M. - ŠÁLY, V. - HURAN, J.: Material Properties of SiC and Its Application for Photovoltaic Devices. In: Dielectric and Insulating Systems in Electrical Engineering: 18th International Conference DISEE 2010. Demänovská Dolina, Slovak Republic, 22.-24.9.2010. - Bratislava: STU, 2010. - ISBN 978-80-227-3366-3. - p. 182-185. (in English)

- [19] PERNÝ, M. - ŠÁLY, V.: PV Cell Complex Impedance and its Voltage and Temperature Dependencies in Dark Condition. In: Power Engineering 2010. Renewable Energy Sources: 1st International Scientific Conference.: Tatranské Matliare, Slovak Republic, 18.-20. 5. 2010. - Bratislava: STU, 2010. - ISBN 978-80-89402-24-3, CD-Rom. (in English)
- [20] PERNÝ, M. - KUSKO, M. - ŠÁLY, V. - PACKA, J.: PV Concentrator Cells Complex Impedance under the Bias in the Dark. In: 35th IEEE Photovoltaic Specialists Conference: Honolulu, 20.-25.6.2010. - Piscataway: IEEE, 2010. - ISBN 978-1-4244-5891-2. - CD-Rom. (in English)
- [21] POLJOVKA, P. - ŠULC, I.: Energy Management Systems in Organisations. In: Power Engineering 2010. Energy, Ecology, Economy: 9th International Scientific Conference. Tatranské Matliare, Slovakia, 18.-20.5. 2010. - Bratislava: STU, 2010. - ISBN 978-80-89402-23-6, p. 68-69. (in English)
- [22] POLJOVKA, P. - VÁRY, M.: The Enterprise Management Systems. In: Dielectric and Insulating Systems in Electrical Engineering: 18th International Conference DISEE 2010. Demänovská Dolina, Slovak Republic, 22.-24.9.2010. - Bratislava: STU, 2010. - ISBN 978-80-227-3366-3. - p. 205-207. (in English)
- [23] RUSNÁK, J. - RUŽINSKÝ, M. - KOBAYASHI, H. - MADANI, K. - TAKAHASHI, M. - PINČÍK, E.: Development and Realization of Advanced Equipment for Q-DLTS and C-V Measurements Using Transient Methods and I-V Measurements. In: CCATM'2010. 15th CSM Conference and Exhibition on Analysis & Testing of Materials: Beijing, China, 12.-15.9.2010. - Beijing: The Periodical Office on Metallurgical Analysis, 2010. - p. 988-1001. (in English)
- [24] RUSNÁK, J. - RUŽINSKÝ, M. - KOBAYASHI, H. - MADANI, K. - TAKAHASHI, M. - PINČÍK, E.: Development and Realization of Advanced Equipment for Q-DLTS, C-V and I-V Measurements. In: 7th Solid State Surfaces and Interfaces: Extended Abstract Book. Smolenice Castle, Slovak Republic, 22.-25.11.2010. - Bratislava: Comenius University, 2010. - ISBN 978-80-223-2938-5. - p. 57. (in English)
- [25] RUSNÁK, J. - RUŽINSKÝ, M. - KOBAYASHI, M. - ŠTEFEČKA, M. - PINČÍK, E.: Research of HCN Passivated Very Thin Oxide/Silicon Structures with Advanced Equipment Based on Transient Event Principle. In: CCATM'2010. 15th CSM Conference and Exhibition on Analysis & Testing of Materials: Beijing, China, 12.-15.9.2010. - Beijing: The Periodical Office on Metallurgical Analysis, 2010. - CD-Rom. (in English)
- [26] RUŽINSKÝ, M. - ŠÁLY, V. - PACKA, J. - VÁRY, M. - PERNÝ, M. - KUSKO, M.: Photovoltaic Research, Education and Training - at the Slovak University of Technology in Bratislava. In: IWTPV '10. 5th International Workshop on Teaching in Photovoltaics: Prague, Czech Republic, 25.-26.3.2010. - Prague: Czech Technical University, 2010. - ISBN 978-80-01-04532-9. - p. 57-62. (in English)
- [27] SLÁMA, J. - ŠOKA, M. - GRUSKOVÁ, A. - UŠÁKOVÁ, M. - OLAH, V. - JANČÁRIK, V.: Changes of NiZn Properties by Substitution of Zn with Cu and Co Ions. In: Magnetic Measurements '2010: Book of Abstracts. Prague, Czech Republic, 12.-15.9.2010. - Prague: ČVUT, 2010. - ISBN 978-80-01-04616-6. - p. 89. (in English)
- [28] SLÁMA, J. - ŠOKA, M. - GRUSKOVÁ, A. - GONZÁLEZ-ANGELES, A. - JANČÁRIK, V.: Hopkinson Effect Study in a Spinel and Hexagonal Ferrites. In: Magnetic Measurements '2010: Book of Abstracts. Prague, Czech Republic, 12.-15.9.2010. - Prague: ČVUT, 2010. - ISBN 978-80-01-04616-6. - p. 24. (in English)

- [29] ŠÁLY, V. - PACKA, J.: Degradation of Photovoltaic Cells and Panels. In: Dielectric and Insulating Systems in Electrical Engineering: 18th International Conference DISEE 2010. Demänovská Dolina, Slovak Republic, 22.-24.9.2010. - Bratislava: STU, 2010. - ISBN 978-80-227-3366-3. - p. 63-66. (in Slovak)
- [30] ŠÁLY, V. - PACKA, J. - RUŽINSKÝ, M. - PERNÝ, M. - KUSKO, M.: Photovoltaics at Faculty of Electrical Engineering and Information Technology STU Bratislava. In: Power Engineering 2010. Renewable Energy Sources: 1st International Scientific Conference. Tatranské Matliare, Slovak Republic, 18.-20. 5. 2010. - Bratislava: STU, 2010. - ISBN 978-80-89402-24-3, CD-Rom. (in English)
- [31] ŠOKA, M. - SLÁMA, J. - GRUSKOVÁ, A. - UŠÁKOVÁ, M. - DOSOUDIL, R.: Role of Thermomagnetic Curves at Preparation of NiZn Ferrites with Fe Ions Deficiency. In: Magnetic Measurements '2010: Book of Abstracts. Prague, Czech Republic, 12.-15.9.2010. - Prague: ČVUT, 2010. - ISBN 978-80-01-04616-6. - p. 78. (in English)