ADVANCED NANOTECHNOLOGIES AND MICROTECHNOLOGIES

**Humidity sensing properties of graphene** - Z. Lišková, M. Bartoš, P. Procházka, L. Kormoš, M. Bartošík, J. Mach, M. Buršík,T. Šamořil, J. Spousta and T. Šikola

**Geometric Modification of AFM Probes by SEM/FIB Combination** - T. Šamořil D. ŠkodaB. LencováJ. Spousta P. Varga and T. Šikola

**Optical Excitation of Localized Acoustic Surface Plasmons in Metallic** **Nanoparticles** -M. Hrton M. Ameen Poyli V. M. Silkinand J. Aizpurua

**Plasmon-enhanced photoluminescence from silicon-rich oxinitride films and Si nanocrystals** - Z. Edes, L. Brínek,T. Šamoril, T. Neuman,M. Hrton, V. Krápek, P. Dub,P. Varga, T. Šikola

**2D assembly of metal colloids using charged particle** **beams** - M. Kolíbal, F. Ligmajer, Z. Druckmullerova, M. Konečný, D. Škoda, J. Zlámal, T. Vystavěl and T. Šikola

ADVANCED MATERIALS

**Chemical crosslinking of functionalized PLGA-PEG-PLGA copolymers and its influence on swelling behavior** - Michlovská L., Vojtová L., Oborná J., Jančář J.

**Regeneration of articular cartilage and growth plate by 3D resorbable biopolymer composites seeded with mesenchymal stem cells and chondrocytes** - Vojtová L., Jančář J., Nečas A., Plánka L.,

**Electrospinning of biopolymer based on gelatin and oxidized cellulose** - Švachová V., Pavliňák D., Alberti M., Vojtová L., Jančář J., Hyršl P.

**Macroporous Zirconia-based Scafffolds with Bioactive Coatings** - Lenka Novotná , Aleš Matoušek, J.Cihlář

**Low-temperature synthesis of nanoparticles of anatase** – V. Kašpárek, J.Cihlář