

Publications of Urs Sennhauser

Original Journal Papers

1. R. Mooser, F. Forsberg, E. Hack, G. Székely, U. Sennhauser. Estimation of affine transformations directly from tomographic projections in two and three dimensions. *Machine Vision and Applications* DOI 10.1007/s00138-011-0376-2 (2011).
2. V. Lotito, U. Sennhauser, C. Hafner, G.L. Bona. Interaction of an asymmetric scanning near field optical microscopy probe with fluorescent molecules. *Progress in Electromagnetics Research* 121 (2011)281-299
3. S.J. Sanabria, P. Wyss, J. Neuenschwander, U. Sennhauser. Assessment of glued timber integrity by limited-angle microfocus X-ray computed tomography. *Holz Poh. Werkst.* in press.
4. I. Jerjen, V. Revol, P. Schütz, C. Kottler, R. Kaufmann, T. Lüthi, K. Jefimovs, C. Urban, U. Sennhauser. Reduction of phase artifacts in differential phase contrast computed tomography. *Opt. Express* 19,14 (2011) 13604-13611
5. V. Lotito, U. Sennhauser, C. Hafner. Numerical analysis of novel asymmetric SNOM tips. *PIERS Online* 7,4 (2011) 394-400.
6. V. Lotito, U. Sennhauser, C. Hafner, G.L. Bona. Fully metal-coated scanning near-field optical microscopy probes with spiral corrugations for superfocusing under arbitrarily oriented linearly polarised excitation. *Plasmonics* 69,2 (2011) 327-336
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11. V. Callegari, U. Sennhauser, H. Jäckel. Analysis of the propagation losses of InP/InGaP trench waveguides fabricated by focused ion beam. *Microelectronic Engineering*, 87,11 (2010) 2061-2064
12. F. Umbrecht, P. Wagli, S. Dechand, F. Gattiker, J. Neuenschwander, U. Sennhauser, C. Hierold. Wireless implantable passive strain sensor: design, fabrication and characterization. *Journal of Micromechanics and Microengineering* 20,8 (2010) 085005
13. A. Jacobsen, I. Shorubalko, L. Maag, U. Sennhauser, K. Ensslin. Rectification in three-terminal graphene junction. *Applied Physics Letters* 97,3 (2010) 032110
14. V. Lotito, U. Sennhauser, C. Hafner. Finite Element Analysis of Asymmetric Scanning Near Field Optical Microscopy Probes. *Journal of Computational and Theoretical Nanoscience* 7,8 (2010) 1596-1609
15. V. Lotito, U. Sennhauser, Ch. Hafner. Effects of asymmetric surface corrugations on fully metal-coated scanning near field optical microscopy tips. *Optics Express* 18,8 (2010) 8722-8734
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