## A kutatási témában megjelent legfontosabb publikációink:

### 2014

1. J. Sinkó, R. Kákonyi, E. Rees, D. Metcalf, A. E. Knight, C. F. Kaminski, **G. Szabó**, and M. Erdélyi (2014): „TestSTORM: Simulator for optimizing samplelabeling and image acquisition in localization based super-resolution microscopy" *Biomedical Optics Express* 778 Vol. 5, No. 3

### 2013

2. D. Zölei, **T. Smausz**, B. Hopp, F. Bari (2013): „Self-tuning laser speckle contrast analysis based on multiple exposure times with enhanced temporal resolution" *J. Europ. Opt. Soc. Rap. Public.* 8, 13053.
3. B. Hopp, T. Smausz, T. Csizmadia, Cs. Vass, Cs. Tápai, B. Kiss, M. Ehrhardt, P. Lorenz, K. Zimmer (2013): „Production of nanostructures on bulk metal samples by laser ablation for fabrication of low-reflective surfaces": *Appl. Phys. A* 113(2) 291-296.
4. Veronika Hanyecz, **Árpád Mohácsi,** Sándor Puskás, Árpád Vágó and **Gábor Szabó** (2013): "Instrument for benzene and toluene emission measurements of glycol regenerators" Meas. Sci. Technol. 24**.** 115901 (6pp).
5. E. Tuboly, **A. Szabó**, G. Erős, **Á. Mohácsi, G. Szabó**, R. Tengölics, G. Rákhely, M. Boros: (2013): "Determination of endogenous methane formation by photoacoustic spectroscopy" *Journal of Breath Research*, 7:(4), 046004. 9 p.
6. **D. Tátrai, Z. Bozóki and G. Szabó** (2013): „Method for wavelength locking of tunable diode lasers based on photoacoustic spectroscopy" *Optical Engineering* 59 096104.
7. Z. Filus, N. Tóth, G. Gulyás, T. Guba, **G. Szabó, Z. Bozóki** (2013): „Carrier gas flow arrangement based photoacoustic detection method for measuring gas permeability of polymer membranes" *Polymer Testing* 32 1099-1104.
8. **N. Utry, T. Ajtai, Á. Filep,** M. Pintér, A. Hoffer, **Z. Bozóki, G. Szabó** (2013): „Mass specific optical absorption coefficient of HULIS aerosol measured by a

four-wavelength photoacoustic spectrometer at NIR, VIS and UV wavelengths" *Atmospheric Environment*, 69, 321-324.

9. E. Tuboly, A. Szabó, D. Garab, G. Bartha, A. Janovszky, G. Erős, **A. Szabó, Á. Mohácsi, G. Szabó**, J. Kaszaki, M. Ghyczy, M. Boros (2013) „Methane biogenesis during sodium azide-induced chemical hypoxia in rats" *American Journal of Physiology-Cell Physiology*, 304, 2, 207-214.

**2012**

10. D. Czövek, Z. Novák, Cs. Somlai, T. Asztalos, L. Tiszlavicz, **Z. Bozóki, T. Ajtai, N. Utry, Á. Filep**, F. Bari, F. Peták (2012): "Respiratory consequences of red sludge dust inhalation in rats" *Toxicology Letters* 209, 113-120.
11. B. Hopp, G. Kecskeméti, **T. Smausz, T. Ajtai, Á. Filep, N. Utry**, A. Kohut, **Z. Bozóki, G. Szabó** (2012): „Characterization of excimer laser ablation generated pepsin particles using multi-wavelength photoacoustic instrument" *Applied physics A*, DOI 10.1007/s00339-012-6759-z.
12. **Á. Filep, T. Ajtai, N. Utry**, M. D. Pintér, T. Nyilas, Sz. Takács, Zs. Máté, A. Gelencsér, A. Hoffer, M. Schnaiter, **Z. Bozóki, G. Szabó** (2012): „Absorption spectrum of ambient aerosol and its correlation with size distribution in specific atmospheric condition after the red mud accident" *Aerosol and Air Quality Research*, DOI: 10.4209/aaqr.2012.04.0078.

**2011**

13. **T. Ajtai, Á. Filep**, G. Kecskeméti, **B. Hopp**, **Z. Bozóki**, **G. Szabó** (2011): „Wavelength dependent mass specific optical absorption coefficients of laser generated coal aerosols determined from multi-wavelength photoacoustic measurements" *Applied Physics A*, DOI 10.1007/s00339-010-6068-3.
14. **T. Ajtai**, **Á. Filep, N. Utry**, M. Schnaiter, C. Linke, **Z. Bozóki, G. Szabó,** T. Leisner (2011): "Inter-comparison of optical absorption coefficients of atmospheric aerosols determined by a multi-wavelength photoacoustic spectrometer and an Aethalometer under sub-urban wintry conditions" *Journal of Aerosol Science*,42, 859-866.

15. P. Novák, M. Móra, D. Aladzic, **A. Szabó, Á. Mohácsi**, Z. Rakonczay. K. Turzo, **G. Szabó**, K. Nagy (2011): „Assessment of halitosis in a student population in Hungary" *Journal of Dental Research* 90, 507.

**2010**

16. **T. Ajtai**, **Á. Filep**, M. Schnaiter, C. Linke, M.Vragel, **Z. Bozóki, G. Szabó**, T. Leisner (2010): „A novel multi-wavelength photoacoustic spectrometer for the measurement of the UV–vis-NIR spectral absorption coefficient of atmospheric aerosols" *Journal of Aerosol Science*, 41, 1020–1029.