

Szabó Gábor angol nyelvű közleményeinek jegyzéke (1977 - 2012)

Tudományos cikkek:

1. B. Rácz, Zs. Bor, **G. Szabó** and Cs. Zoltán:
Subnanosecond relaxation oscillations in nitrogen laser pumped dye lasers
Acta Phys. et Chem. 23, (1977) 367-374
2. Zs. Bor, B. Rácz, **G. Szabó** and Z.Gy. Horváth:
Two-dimensional halo laser performance
Phys. Lett. 80A, (1980) 153-155
3. Zs. Bor, B. Rácz, **G. Szabó** and Z.Gy. Horváth:
Two-dimensional halo laser performance
J. Opt. Soc. Am. 70, (1980) 1410
4. B. Rácz, Zs. Bor, **G. Szabó** and S. Szatmári:
Generation of subnanosecond pulses in nitrogen laser-pumped tunable dye lasers
Acta Phys. et Chem. 26, (1980) 117-125
5. B. Rácz and **G. Szabó**:
Improved model of nitrogen laser pumped dye lasers
Acta Phys. et Chem. 26, (1980) 127-135
6. B. Rácz, Zs. Bor, S. Szatmári and **G. Szabó**:
Comparative study of beam expanders used in nitrogen laser pumped dye lasers
Opt. Commun. 36, (1981) 399-402
7. Zs. Bor, B. Rácz, **G. Szabó** and A. Müller:
The pulse duration of a distributed feedback dye laser under single pulse conditions
Picosecond Phenomena III., (1982) 62-65, ed.: K.B. Eisenthal, R.M. Hochstrasser,
W. Kaiser, A. Laubereau Springer-Verlag (1982)
8. Zs. Bor, B. Rácz, **G. Szabó**, A. Müller and H.P. Dorn:
Picosecond pulse generation by distributed feedback dye lasers
Helv. Phys. Acta 56, (1983) 383-392
9. **G. Szabó**, Zs. Bor and A. Müller:
Amplification and measurement of single 1.6-3.5 ps pulses generated by a distributed feedback dye laser
Appl. Phys. B 31, (1983) 1-4
10. Zs. Bor, B. Rácz, **G. Szabó**, A. Müller and H.P. Dorn:
Picosecond pulse generation by distributed feedback dye lasers
Digest of the Conference of the Condensed Matter Division of the EPS, (1983) 98
11. Zs. Bor, S. Szatmári, **G. Szabó** and B. Rácz:
Distributed feedback dye laser tuning by divergent pumping beams
Acta Phys. et Chem. 29, (1983) 17-25
12. Zs. Bor, B. Rácz, **G. Szabó**, A. Müller, H.P. Dorn:
Picosecond distributed feedback lasers conference on lasers an electro-optics
CLEO Baltimore, Maryland (1983)

13. Müller, H.-P. Dorn, Zs. Bor, B. Rácz and **G. Szabó**:
Picosecond distributed feedback dye lasers
ICL Digest International Conference on Lasers, (1983) 287-288
Guangzhon China (1983)
14. **G. Szabó**, B. Rácz, A. Müller, B. Nikolaus and Zs. Bor:
Travelling-wave-pumped ultrashort-pulse distributed-feedback dye laser
Appl. Phys. B 34, (1984) 145-147
15. **G. Szabó**, B. Rácz, A. Müller, B. Nikolaus and Zs. Bor:
Travelling-wave-pumped ultrashort-pulse distributed-feedback dye laser
in *Picosecond Phenomena IV*. Edited by D. H. Auston, K. B. Eisenthal, Springer-Verlag Berlin, Heidelberg, New York (1984) p. 60
16. **G. Szabó**, B. Rácz, Zs. Bor and A. Müller:
Travelling-wave pumped ultrashort pulse distributed feedback dye laser
Proceedings of IVth Conference on Ultrafast Phenomena, Monterey, California (1984) 60-62
17. G.I. Groma, **G. Szabó** and Gy. Váró:
Direct measurement of picosecond charge separation in bacteriorhodopsin
Nature 308 (1984) 557-558
18. J. Klebniczki, P. Simon and **G. Szabó**:
Optimization of double-resonator picosecond dye lasers
UPS-85 Reinhardsbrunn (1985)
19. P. Simon, J. Klebniczki and **G. Szabó**:
A study of picosecond pulse generation by a double-resonator dye laser
Opt. Comm. 56, (1986) 359-364
20. Zs. Farkas, É. Farkas, I. Ketskeméty, J. Hebling, G. Kovács and **G. Szabó**:
Investigations of the polarized fluorescence of prolate-shaped molecules by subnanosecond laser spectroscopy
J. of Lumin. 35, (1986) 207-211
21. G.I. Groma, F. Ráksi, **G. Szabó** and Gy. Váró:
Picosecond and nanosecond components in bacteriorhodopsin electric response signal
9th International Biophysics Congress, Jerusalem, Israel (1987)
22. Zs. Bor, **G. Szabó** and F. Ráksi:
Investigation of saturation induced self phase modulation in high gain amplifiers
Proceedings of the V. International Symposium on Ultrafast Phenomena in Spectroscopy,
Vilnius, USSR (1987) (invited)
23. Zs. Bor, **G. Szabó** and F. Ráksi:
Investigation of saturation induced self phase modulation in high gain amplifiers
World Scientific Publisher, Singapore, p. 33 (1987)
24. **G. Szabó** and Zs. Bor:
300 femtosecond pulses at 497 nanometer generated by an excimer laser pumped cascade of distributed feedback dye lasers
Appl. Phys. B 47, (1988) 299-302

25. J. Klebniczki, Zs. Bor and **G. Szabó**:
Theory of travelling-wave amplified spontaneous emission
Appl. Phys. B 46, (1988) 151-155
26. **G. Szabó**, Zs. Bor and A. Müller:
Phase-sensitive single-pulse autocorrelator for ultrashort laser pulses
Opt. Lett. 13, (1988) 746-748
27. **G. Szabó**, Zs. Bor, A. Müller:
A phase sensitive single pulse autocorrelator for ultrashort laser pulses
6th International Conference on Ultrafast Phenomena (ICUP'88) 1988
28. Zs. Bor and **G. Szabó**:
A novel picosecond distributed feedback dye laser arrangement for excimer laser pumping
Appl. Phys. B 47, (1988) 135-140
29. Zs. Bor and **G. Szabó**:
Femtosecond pulse generation at the excimer laser lines using distributed feedback dye lasers
EQEC '88 European Conference on Quantum Electronics, Hannover (1988)
30. G.I. Groma, F. Ráksi, **G. Szabó** and Gy. Váró:
Picosecond and nanosecond components in bacteriorhodopsin light-induced electric response signal
Biophys. J. 54, (1988) 77-80
31. Z. Gogolák, Zs. Bor and **G. Szabó**:
Compensation of cubic phase term of a prismatic pulse compressor
UPS'89 Neubrandenburg (1989)
32. Zs. Bor, **G. Szabó** and A. Müller:
Chirp-sensitive single-shot autocorrelation technique for femtosecond pulses
Conference on Lasers and Electro Optics (1989) Baltimore (invited talk)
33. **G. Szabó** and Zs. Bor:
Frequency doubling of femtosecond laser pulses
Conference on Lasers and Electro Optics (1989) Baltimore (invited talk)
34. P. Heszler, Zs. Bor, G. Kovács and **G. Szabó**:
Cu-vapor laser-excited short-pulse dye laser
Applied Spec. 43 (1989) 728
35. Michael Steyer; Ouyang Bin; Krassimir A. Stankov; **Gabor Szabo**; Hakaru Mizoguchi; Fritz P. Shafer:
Wide aperture X-ray preionized excimer laser with variable cross-section using flat electrodes
SPIE Proceedings Vol. 1023 Excimer Lasers and Applications, 75-79 (1989)
36. Zs. Bor, Z. Gogolák and **G. Szabó**:
Femtosecond resolution pulse front distortion measurement by time-of-flight interferometry
Opt. Lett. 14 (1989) 862-864
37. P. Heszler, Zs. Bor, G. Kovács and **G. Szabó**:
Cu-vapor laser pumped 1 ns dye laser
UPS'89 Neubrandenburg (1989)

38. Zs. Benkő, Z. Gogolák, Zs. Bor and **G. Szabó**:
Pulse front distortion measurements in prisms by time-of-flight interferometry
UPS'89 Neubrandenburg (1989)
39. Z. Gogolák, Zs. Bor and **G. Szabó**:
Compensation of cubic phase term of a prismatic pulse compressor
UPS'89 Neubrandenburg (1989)
40. **G. Szabó** and Zs. Bor:
Broadband frequency doubler for femtosecond pulses
Appl. Phys. B50 (1990) 51-54
41. Zs. Bor, K. Osvay, B. Rácz and **G. Szabó**:
Group refractive index measurement by Michelson interferometer
Opt. Commun. 78 (1990) 109-112
42. T. E. Sharp, Th. Hofmann, C. B. Dane, W. L. Wilson Jr., F. K. Tittel, **G. Szabó**, and P. J. Wisoff:
Ultrashort-laser-pulse amplification in a XeF(C_A) excimer amplifier
Optics Letters 15 (1990) 1461-1463
43. F. K. Tittel, P. Canarelli, C. B. Dane, Th. Hofmann, R. Sauerbrey, T. E. Sharp, **G. Szabó**, W. L. Wilson and S. Yamaguchi:
Advanced concepts of electron beam pumped excimer lasers
Eighth International Symposium on Gas Flow and Chemical Lasers
SPIE 1397 (1990)
44. C. B. Dane, T. E. Sharp, Th. Hofmann, W. L. Wilson Jr., F. K. Tittel, **G. Szabó** and P. J. Wisoff:
Amplification of High Intensity Ultrashort Blue-Green Laser Pulses Using a XeF(C_A) Excimer Amplifier
LEOS'90 Boston 1990, p. 271
45. Th. Hofmann, T. E. Sharp-Clement, C. B. Dane, P. J. Wisoff, W. L. Wilson, F. K. Tittel and **Szabó, Gabor**:
Characterization of a subpicosecond XeF(C_A) excimer amplifier
Proc. SPIE Vol. 1412, p. 84-90, Gas and Metal Vapor Lasers and Applications
OE/LASE'91 Los Angeles (1991)
46. Frank K. Tittel; P. Canarelli; Brent Dane; Thomas Hofmann; Roland A. Sauerbrey; Tracy S. Sharp-Clement; **Gabor Szabo**; William L. Wilson, Jr.; P. J. Wisoff; Shigeru Yamaguchi:
Advanced concepts of electron-beam-pumped excimer lasers
SPIE Proceedings Vol. 1397 8th Intl Symp on Gas Flow and Chemical Lasers, 21-30 (Feb 1991)
47. **G. Szabó**, A. Müller and Zs. Bor:
Femtosecond resolution pulse duration and chirp measurement by picosecond streak camera
CLEO'91 CTuW42 Conference on Lasers and Electro Optics (1991) Baltimore
48. Th. Hofmann, T. E. Sharp, P. J. Wisoff, W. L. Wilson, F. K. Tittel and **G. Szabó**:
Femtosecond pulse amplification by a XeF(C_A) excimer system
CLEO'91 CThA6 Conference on Lasers and Electro Optics (1991) Baltimore

49. T.E.Sharp, Th.Hofmann, W.L.Wilson Jr., F.K.Tittel, P.J.Wisoff and **G. Szabó**:
Self-focusing effects in a high power, ultrashort pulse XeF(C_A) excimer system
CLEO'91 CThA7 Conference on Lasers and Electro Optics (1991) Baltimore
50. H. Philips, R. Sauerbrey, D. Callahan, **G. Szabó** and Zs. Bor:
70-nm lines produced by direct laser ablation in polyimide
CLEO'91 CFF6 Conference on Lasers and Electro Optics (1991) Baltimore
51. S. P. Le Blanc, **G. Szabó** and R. Sauerbrey:
Femtosecond single-shot phase-sensitive autocorrelator for the ultraviolet
Optics Letters 16 (1991) 1508-1510
52. **G. Szabó**, A. Müller and Zs. Bor:
A sensitive single shot method to determine duration and chirp of ultrashort pulses with a streak camera
Opt. Commun. 82 (1991) 56-62
53. H. M. Philips, D. L. Callahan, R. Sauerbrey, **G. Szabó** and Zs. Bor:
Sub-100 nm lines produced by direct laser ablation in polyimide
Appl. Phys. Lett. 58 (1991) 2761-2763
54. F. K. Tittel, Th. Hofmann, T. E. Sharp, **G. Szabó** and P. J. Wisoff:
Ultrahigh Intensity Visible Excimer Laser System
LASERION'91, München (1991)
55. T. E. Sharp, C. B. Dane, D. Barber, F. K. Tittel, P. J. Wisoff and **G. Szabó**:
Tunable, High-Power, Subpicosecond Blue-Green Dye Laser System with a Two-Stage Dye Amplifier
IEEE J. of Quant. El. 27 (1991) 1221-1227
56. K.Osvay, Zs.Bor, A.Kovács, **G. Szabó**, B. Rácz, H.A.Hazim and O. E. Martinez:
Prismatic Pulse Compressor for Synchronously Pumped Mode Locked Lasers
VIIth International Symposium on Ultrafast Processes in Spectroscopy, Bayreuth, 1991
57. K. Osvay, Zs. Bor, B. Rácz and **G. Szabó**:
Propagation-Time-Dispersion in a Streak Camera Lens
VIIth International Symposium on Ultrafast Processes in Spectroscopy, Bayreuth, 1991
58. Th. Hofmann, T. E. Sharp, **G. Szabó**, F. K. Tittel and P. J. Wisoff:
A Terawatt XeF(C_A) Excimer Laser System
Seventh Interdisciplinary Laser Science Conference Monterey, CA 1991
59. **G. Szabó**, T. E. Sharp, F. K. Tittel and P. J. Wisoff:
Dispersion measurements of single-mode fibers in the blue-green spectral region by an interferometric method
Appl. Optics 30 (1991) 5224
60. F. K. Tittel, Th. Hofmann, T. E. Sharp, P. J. Wisoff, W. L. Wilson and **G. Szabó**:
Blue-Green Dye Laser Seeded Operation of a Terawatt Excimer Amplifier
Dye Lasers 25 Years, Springer-Verlag Berlin Heidelberg 1992
61. Th. Hofmann, T. E. Sharp, C. B. Dane, P. J. Wisoff, W. L. Wilson, F. K. Tittel and **G. Szabó**:
Characterization of an Ultrahigh Peak Power XeF(C_A) Excimer Laser System
IEEE J. of Quant. El. 28 (1992) 1366-1375

62. H. M. Philips, D. L. Callahan, R. Sauerbrey, **G. Szabó** and Zs. Bor:
Direct Laser Ablation of Sub-100 nm Line Structures into Polyimide
Appl. Phys. A54 (1992) 158-165
63. Zs. Bor, K. Osvay, H. A. Hazim, A. Kovács, **G. Szabó** B. Rácz and O. E. Martinez:
Adjustable prism compressor with constant transit time for synchronously pumped mode locked laser
Opt. Commun. 90 (1992) 70-72
64. B. Rácz, Á. Patócs, **G. Szabó**, Zs. Bor and F. Ignácz:
Direct generation of subnanosecond pulses by a high pressure miniature excimer laser
Appl. Phys. B54 (1992) 513-515
65. Zs. Bor, B. Rácz, **G. Szabó** and B. Hopp:
Time resolved study of surface shock wave formation during excimer laser ablation of the cornea
CLEO'92 CThL6 Conference on Lasers and Electro Optics (1992) Anaheim
66. S.P. Le Blanc, **G. Szabó** and R. Sauerbrey:
Single-shot phase-sensitive autocorrelator for the ultraviolet
CLEO'92 CTuB7 Conference on Lasers and Electro Optics (1992) Anaheim
67. B. Rácz, Á. Patócs, **G. Szabó**, Zs. Bor and F. Ignácz:
Subnanosecond Pulse Generation by a Miniature Excimer Laser
XVIII International Quantum Electronics Conference (1992) Vienna, Austria
68. Zs. Bor, B. Rácz, **G. Szabó** and B. Hopp, I. Süveges, J. Mohay and I. Ratkay:
Time resolved study of surface shock wave formation during excimer laser ablation of the cornea
CThL6 Conference on Lasers and Electro Optics, (1992) Anaheim, CA, paper
69. Th. Hofmann, F. K. Tittel, K. Mossawi, and **G. Szabó**:
Spectrally compensated sum-frequency mixing scheme for generation of broadband radiation at 193 nm
Opt. Lett. 17 1691-1693 (1992)
70. K. Osvay, Zs. Bor, B. Rácz, **G. Szabó**:
Propagation-time-dispersion in a streak camera lens
Ultrafast Processes in Spectroscopy 1991 ed.: A. Laubereau, A. Seilmeier, Institute of Physics Conference Series Number 126
Institute of Physics, Bristol and Philadelphia (1992) 169
71. Th. Hofmann, K. Mossawi, **G. Szabó**, and F. K. Tittel:
Generation and amplification of subpicosecond ArF radiation
SPIE Vol. 1810, Gas flow and chemical lasers, 400-403, (1992)
72. T. Juhász, L. Turi, Zs. Bor, B. Frueh and **G. Szabó**:
Experimental investigation of picosecond optical breakdown in water and biological tissues
Proceedings of the International Conference on Lasers'92
1992, Houston, 739-746
73. K. Mossawi, Th. Hofmann, F. K. Tittel, and **G. Szabó**:
Generation and amplification of broadband radiation at 193 nm
Proceedings of the International Conference on Lasers'92
1992, Houston, 125-130

74. Groma, **G. Szabó** and L. Keszthelyi:
Conformation changes in bacteriorhodopsin studied by pump and probe tryptophane fluorescence decay
SPIE Vol. 1921, Laser Spectroscopy of Biomolecules, 172-176, (1992)
75. Groma G.I., **Szabó G.**, Varó G., Ráksi F., Keszthelyi L.:
Bacteriorhodopsin: A picosecond optoelectric signal transducer
BioSystems, 27 (4) 201-202 (1992)
76. Zs. Bor, B. Hopp, B. Rácz, **G.Szabó**, I. Ratkay, I. Süveges, Á. Füst and J. Mohay:
Plume emission, shock wave formation during excimer laser ablation of the cornea
Refractive and Corneal Surgery 9 (1993) s111-s115.
77. Mossavi, Th. Hofmann, F. K. Tittel and **G. Szabó**:
Femtosecond gain characteristics of the discharge pumped ArF excimer amplifier
Opt. Lett. 18 635-638 (1993)
78. Mossavi, Th. Hofmann, F. K. Tittel and **G. Szabó**:
Ultra-high-brightness, femtosecond ArF excimer laser system
Appl. Phys. Lett. 62 1205 (1993)
79. Zs. Bor, B. Hopp, B. Rácz, **G. Szabó**, Zs. Márton, I. Ratkay, J. Mohay, I. Süveges and Á. Füst:
Physical problems of excimer laser cornea ablation
Opt. Eng. 32, 2481 (1993)
80. Zs. Bor, B. Rácz, **G. Szabó**, M. Hilbert and H.A. Hazim:
Femtosecond pulse front tilt caused by angular dispersion
Opt. Eng. 32, 2501-2504 (1993)
81. F. K. Tittel, K. Mossavi and **G. Szabó**:
Recent progress of terawatt excimer laser sources
Short Wavelength V.: Physics with intense laser pulses
San Diego, March 1993.
82. Zs. Bor, **G. Szabó**, B. Hopp, Zs. Márton and T. Juhász:
Dynamics of laser ablation of biological tissues
Conference on Laser Ablation, Knoxville, 1993 (invited)
83. **G. Szabó** and K. Mossavi:
Ultra-high-brightness, short pulse excimer laser system at 193 nm
Conference on Lasers and Electro-Optics CLEO'93,
Baltimore, May 2-7, 1993. (invited)
84. B. Rácz, Zs. Bor, B. Hopp, **G. Szabó**, I. Süveges, J. Mohay, I. Ratkay and Á. Füst:
Ultrafast Photography of the Cornea Ablation
Laser '93, München, DoK3 p. 14.
85. Le Blanc, S. P.; Cote, F.; **Szabo, Gabor**; Sauerbrey, Roland A.:
Single-shot phase-sensitive autocorrelator for short-pulse ultraviolet lasers
Proc. SPIE Vol. 1861, 161-169, Ultrafast Pulse Generation and Spectroscopy (1993)
86. **G. Szabó**, K. Mossavi and F. K. Tittel:
Ultra-high-power, femtosecond ArF excimer laser system
16th Congress of the International Commission for Optics, ICO 16,
SPIE Vol. 1993, 25-27 (1993)

87. B. Amstrup, J. D. Doll, R. A. Sauerbrey, **G. Szabó** and A. Lőrincz:
Optimal control of quantum systems by chirped pulses
Phys. Rev. A 48, 3830 (1993)
88. **G. Szabó** and Zs. Bor
Frequency conversion of ultrashort pulses
Applied Physics B. 58, 237 (1994)
89. Kido, **G. Szabó**, J. R. Cavallaro, W. L. Wilson, and F. K. Tittel:
A new phase shifting method for high resolution microlithography
SPIE Conference on Optical/Laser Microlithography VII. San Jose, USA, 1994
90. F.K. Tittel, J.R. Cavallaro, M. Kido, M.C. Smayling, **G. Szabó**, and W.L. Wilson:
Interferometric phase shift technique for High Resolution Deep-UV Microlithography
X.-th Conference on Gas Flow and Chemical Lasers Friedrichshafen, Germany 1994
SPIE Proceedings Vol. 2502, pp. 614-627 (1994)
91. Kido, J.R. Cavallaro, **G. Szabó**, W.L. Wilson, and F.K. Tittel:
A new phase shifting method for high resolution microlithography
Proc. of 1994 NSF Design and Manufacturing Grantees Conference
Society of Manufacturing Engineers Press, p. 577 (1994)
92. B. Amstrup, **G. Szabo**, R. Sauerbrey and A. Lorincz:
Chirped pulse control of CsI fragmentation: An experimental possibility
Chem. Phys. 188, 87-97 (1994)
93. Kido, **G. Szabó**, J.R. Cavallaro, W.L. Wilson, M.C. Smayling, and F.K. Tittel:
Advanced high resolution interferometric phase shift technique for microlithography
CLEO '94 Anaheim CA p. 395
94. D. Xenakis, c. Kalpouzos, c. Fotakis, Z. Bor, B. Rácz, **G. Szabó**:
Non-linear reflection from polymer surfaces during femtosecond ultraviolet photoablation
X.-th International Symposium on Gas Flow and Chemical Lasers Friedrichshafen,
Germany, 1994
SPIE Proceedings Vol. 2502, p. 682 (1994)
95. M. Erdelyi, C.Sengupta, Zs. Bor, R.J. Cavallaro, M. Kido, M.C. Smayling, F.K. Tittel,
W.L. Wilson and **G. Szabo**:
*A New Interferometric Phase Shifting Technique for Sub-half Micron Laser
Microlithography*
Optical/Laser Microlithography VIII, Santa Clara (Feb. 1995)
96. Zs. Bor, J.R Cavallaro, M. Erdelyi, M Kido, C. Sengupta, M.C. Smayling, **G. Szabo**,
F.K. Tittel, W. Wilson:
A New Phase Shifting Technique for Deep UV Excimer Laser Based Lithography
Photonics West '95, San Jose, CA (Feb. 1995)
97. B. Amstrup, G.J. Toth, **G. Szabo**, H. Rabitz and A. Lorincz:
*Genetic algorithm with migration on topology conserving maps for optimal control of
quantum systems*
J. Phys. Chem. 93, 5206-5213 (1995).
98. Zs. Bor, B. Rácz, **G. Szabó**, D. Xenakis, C. Kalpouzos, C. Fotakis:
*Femtosecond transient reflection from polymer surfaces during femtosecond UV
photoablation*
Appl. Phys. A 60, 365-368 (1995)

99. M. Kido, **G. Szabó**, J.R. Cavallaro, W.L. Wilson, M.C. Smayling, and F.K. Tittel:
Submicron Optical Lithography Based on a New Interferometric Phase Shifting Technique
Jap. J. Appl. Phys. 34, 4269-4273 (1995)
100. B. Hopp, M. Csete, **G. Szabó**, and Zs. Bor:
Time resolved study of ArF excimer laser ablation processes of PolyMethylMethAcrylate (PMMA)
Appl. Phys. A 61, 339-345 (1995)
101. **G. Szabo**, B. Hopp, M. Csete, B. Rácz, Z. Ball, and R. Sauerbrey:
Mechanism of laser ablation; time resolved studies
CLEO/Pacific Rim '95 Chiba, Japan 1995, (invited)
102. Z. Ball, B. Hopp, F. Ignácz, M. Csete, B. Rácz, **G. Szabó**, and R. Sauerbrey:
Transient optical properties of excimer laser irradiated polyimide I: Refractive index
Appl. Phys. A 61, 547-551 (1995)
103. Z. Ball, B. Hopp, F. Ignácz, M. Csete, B. Rácz, **G. Szabó**, and R. Sauerbrey:
Transient optical properties of excimer laser irradiated polyimide II: Carbon cluster scattering
Appl. Phys. A 61, 575-578 (1995)
104. M. Erdélyi, Zs. Bor, F.K. Tittel, J.R. Cavallaro, **G. Szabó**, W.L. Wilson, M. Smayling and C. Sengupta:
A Phase Shifting Technique for Ultrahigh Resolution Deep-UV Lithography
First International Symposium on 193 nm Lithography
Colorado, CO, Aug 15-18, (1995)
105. M. Erdélyi, Zs. Bor, J.R. Cavallaro, **G. Szabó**, W.L. Wilson, C. Sengupta, M. Smayling, and F.K. Tittel:
Enhanced Microlithography Using Combined Phase Shifting and Off-axis Illumination
Jap. J. Appl. Phys. 34, L 1629-L 1631 (1995)
106. F.K. Tittel, M. Erdélyi, C. Sengupta, Zs. Bor, **G. Szabó**, J.R. Cavallaro, M.C. Smayling, W.L. Wilson:
Ultrahigh resolution lithography with excimer lasers
E.J. Witteman and V.N. Ochkin (eds.), Gas Lasers- Recent Developements and Future Prospects, 263-272. (1996)
107. H. Nishikawa, **G. Szabo** and T. Kawai:
Time-Resolved Studies of Ion Desorption from Ca Surfaces Using Double-Pulsed Laser Ablation Technique
Jpn. J. App. Phys. Vol. 35 (1996) pp. 985-988
108. C. Sengupta, M. Erdélyi, Zs. Bor, J.R. Cavallaro, M.C. Smayling, **G. Szabó**, F.K. Tittel, W.L. Wilson:
An Integrated CAD Framework Linking VLSI Layout Editors and Process Simulators
Optical Microlithography IX. Santa Clara, CA (March 13-15, 1996); SPIE Proc. 2726, 271 (1996)
109. M. Erdélyi, Zs. Bor, **G. Szabó**, J.R. Cavallaro, M.C. Smayling, F.K. Tittel, W.L. Wilson:
Sub-quarter micron contact hole fabrication using annular illumination
Optical Microlithography IX. Santa Clara, CA (March 10-13, 1996); SPIE Proc. 2726, 271 (1996)

- 110.F.K. Tittel, M. Erdélyi, **G. Szabó**, Zs. Bor, J.R. Cavallaro, M.C. Smayling:
High Resolution Microlithography Applications of Deep-UV Excimer Lasers,
GCL/HPL'96 Edinburgh, U.K. (Aug. 26-30, 1996)
- 111.M. Erdélyi, Z.L. Horváth, **G. Szabó**, Zs. Bor, F.K. Tittel, J.R. Cavallaro, M.C. Smayling:
Application of Nondiffracting Bessel Beams to Optical Lithography
Second International Symposium on 193 nm Lithography, Colorado Springs CO
(July 30-Aug 2, 1996) – poszter
- 112.Z. Bozóki, J. Sneider, **G. Szabó**, A. Miklós, M. Serényi, G. Nagy, M. Fehér:
Intracavity Photoacoustic Gas Detection with an External Cavity Diode Laser
Appl. Phys. B. 63 (1996) 399-401
- 113.J. Sneider, Z. Bozóki, A. Miklós, **G. Szabó**:
*On the possibility of Combining External Cavity Diode Laser with Photoacoustic Detector
for High Sensitivity Gas Monitoring*
26th International Symposium on Environmental Analytical Chemistry, Vienna Austria,
April 9-12 1996. Book of Abstracts, TH 20
- 114.Z.L. Horváth, M. Erdélyi, **G. Szabó**, Zs. Bor, F.K. Tittel and J. Cavallaro:
Generation of nearly nondiffracting Bessel Beams with a Fabry-Perot interferometer
J. Opt. Soc. Am. A, vol. 14 pp. 3009-3013 (1997)
- 115.J. Sneider, Z. Bozóki, **G. Szabó** and Zs. Bor:
Photoacoustic Gas Detection Based on External Cavity Diode Laser Light Source
Opt. Eng. Vol. 36(2) 482-486 (1997)
- 116.J. Sneider, Z. Bozóki, A. Miklós, Zs. Bor and **G. Szabó**:
*On the Possibility of Combining External Cavity Diode Laser with Photoacoustic Detector
for High Sensitivity Gas Monitoring*
Int. J. of Env. Anal. Chem. 67 (1-4) 253-260 (1997)
- 117.M. Erdélyi, Z. L. Horváth, **G. Szabó**, Zs. Bor, J. R. Cavallaro and F. K. Tittel:
*Enhancement of depth of focus using nearly nondiffracting bessel beams in optical
microlithography*
Submitted to the seminar on „New Nanostuctures below 100 nm: Perspectives &
Applications”, Bad Honnef, Germany (27-30 January 1997)
- 118.M. Erdélyi, Z. L. Horváth, Zs. Bor, **G. Szabó**, J. R. Cavallaro, M. C. Smayling and F. K.
Tittel:
Optical microlithography with nearly nondiffracting beams
SPIE's Microlithography'97 Symposium, Optical Microlithography X, Santa Clara,
California, 1997.
- 119.Tittel, F.K.; Erdelyi, M.; **Szabo, G.**; Bor, Zs.; and others:
High resolution microlithography applications of deep-UV excimer lasers
(XI International Symposium on Gas Flow and Chemical Lasers and High-Power Laser
Conference). Proceedings of the SPIE - The International Society for Optical Engineering,
1997, vol.3092:462-6.
- 120.Erdelyi, M.; Horvath, Z.L.; **Szabo, G.**; Bor, Z.; and others:
Generation of diffraction-free beams for applications in optical microlithography
Journal of Vacuum Science & Technology B (Microelectronics and Nanometer
Structures), 15 (2):287-292. March (1997)

121. B. Bónis, L. Kemény, A. Dobozy, Zs. Bor, **G. Szabó** and F. Ignác:
308 nm UVB excimer laser for psoriasis.
The Lancet, 1997, Vol. 350, p. 1522.
122. Z. Bozóki, J. Sneider, M. Szakáll, Á. Mohácsi, G. Tóth, Zs. Bor, **G. Szabó**:
Toward a Gas Detection Instrument Based on External Cavity Diode Lasers and Photoacoustic Detection
2nd GR-I International Conference on “New Laser Technologies and Application”,
Olympia, Greece, June 1-4, 1997
123. M. Erdélyi, Zs. Bor, **G. Szabó**, F.K. Tittel:
Enhanced microlithography using coated objectives and image duplication
Opt. Microlithography XI. Santa Clara, CA SPIE Proc. Vol. 3334, pp. 579-589 (1998)
124. Z.L. Horváth, M. Erdélyi, **G. Szabó**, Zs. Bor, F.K. Tittel, J.R. Cavallaro:
Generation of zero-order Bessel beams with Fabry-Perot interferometer
Proc. SPIE Vol. 3423, p. 135-139, Second GR-I, Int. Conf. on New Laser Technologies
and Applications, Paolo di Lazzaro, E. Publication Date: 07/1998.
125. F.K. Tittel, M. Erdélyi, Z.L. Horváth, A. Kroyan, W.L. Wilson, M.C. Smayling, Zs. Bor,
G. Szabó:
Present and future trends in excimer –laser –based microlithography
Proc. SPIE Vol. 3403, p. 248-253, Int. Conf. on Atomic and Molecular Pulsed Lasers II,
Victor F. Tarasenko, Georgy V. Mayer, Gueorgii G. Petrash, Eds. Publ. Date: 06/1998.
126. B. Hopp, Zs. Bor, B. Rácz, **G. Szabó**, D. Xenakis, C. Kalpouzou, C. Fotakis:
Single shot measurement picosecond time-resolved measurement of the transient reflectivity increase of ablated polymer surfaces
9th Internat. Conf. on Modern Materials and Technologies, Florence, Italy, 14-19 June 98.
127. Z. Bozóki, J. Sneider, M. Szakáll, Á. Mohácsi, G. Tóth, Zs. Bor, **G. Szabó**:
Gas-detection instrument based on external-cavity diode lasers and photoacoustic detectors
J. Proc. SPIE Vol. 3423, p. 238-241, 2nd GR-I Int. Conf. on New Laser Technologies
Application, Paolo de Lazzaro, ed. (1998)
128. J. Sneider, Z. Bozóki, **G. Szabó**, Zs. Bor, Á. Mohácsi, M. Szakáll:
Towards portable diode laser based photoacoustic sensors for the determination of water vapour and H₂S
ISEAC'98 Conference, Genova, Book Abstracts, PA 03 (1998)
129. **G. Szabó**, J. Péter, S.D. Carpenter, P.M. Weber, T. Szakács, A. Lőrincz:
Self-learning optical system based on a genetic algorithm driven spatial light modulator
Proc. SPIE 3423, Second GR-I International Conference on New Laser Technologies
and Applications, 130 (Jul 1998)
130. J. Sneider, Z. Bozóki, **G. Szabó**, Zs. Bor:
Methane detection with single laser photoacoustic Raman spectroscopy
X. International Conference on Photoacoustic and Photothermal Phenomena, Rome 23-27
August 1998. Book of Abstracts pp. 201-202 (1998)
131. J. Sneider, Z. Bozóki, **G. Szabó**, Zs. Bor
Water Vapour Detection in Gases with External Cavity Diode Laser Based Photoacoustics
7th Workshop of “Laser-based Photoacoustic Trace Gas Research in Life Science”,
Nijmegen (The Netherlands) 5-6 February 1998 Book of Abstracts (1998)

- 132.J. Sneider, Z. Bozóki, **G. Szabó**, Zs. Bor:
Methane detection with single laser photoacoustic Raman spectroscopy
 X. Int. Conf. on Photoacoustic and Photothermal Phenomena: Tenth International Conference, edited by: F. Scudieri and M. Bertolotti, AIP Conference Proceedings 463, The American Institute of Physics, New York, 1999, pp. 271-273.
- 133.Z. Bozóki, J. Sneider, Z. Gingl, Á. Mohácsi, M. Szakáll, Zs. Bor, **G. Szabó**:
A high-sensitivity, near-infrared tunable-diode-laser-based photoacoustic water-vapour-detection system for automated operation
 Meas. Sci. Technol. 10 (1999) 999-1003.
- 134.Zs. Bor, M. Erdélyi, Z.L. Horváth, **G. Szabó**, K. Osvay, W.L. Wilson and F.K.Tittel:
Application of Non-Diffracting Beams
 18th Congress of the International Commission for Optics 2-6 August 1999 (3749-32) S4A, San Francisco California USA, [Conference Paper] SPIE-Int. Soc. Opt. Eng. Proceedings of Spie - the International Society for Optical Engineering, vol.3749, 1999, pp.76-7. USA.
- 135.B. Hopp, Zs. Bor, B. Rácz, **G. Szabó**, D. Xenakis, C. Kalpouzou, C. Fotakis:
Single shot picosecond time-resolved measurement of the transient reflectivity increase of ablated polymer surfaces; Advances in Sciences and technology, Surface Engineering Proc. 9th CIMTEC World Forum on New Materials, Ed.: P. Vincenzini, TECHNFAENZA (1999) pp. 337
- 136.J. Sneider, Z. Bozóki, **G. Szabó** and Zs. Bor:
Methane detection with single laser photoacoustic Raman spectroscopy
 In Photoacoustic and Photothermal Phenomena: 10th International Conference, ed. by: F. Scudieri and M. Bertolotti, AIP Conference Proc. 463, The American Inst. of Physics, New York, 1999., pp. 271-273.
- 137.Nógrádi, B. Hopp, K. Révész, **G. Szabó**, Zs. Bor and L. Kolozsvári:
Atomic force microscopic study of the human cornea following excimer laser keratectomy.
 Exp. Eye Res. 70 (2000) 363-368.
- 138.Á. Mohácsi, M. Szakáll, Z. Bozóki, **G. Szabó** and Zs. Bor:
High Stability external cavity diodelaser system for photoacoustic gas detection.
 Laser Physics, 10(1) (2000) 1-4.
- 139.Glaß, T. Rozgonyi, T. Feurer, R. Sauerbrey, **G. Szabó**:
Control of the photodissociation of CsCl
 Appl. Phys. B 71, 267-276 (2000)
- 140.K. Michelmann, A. Glaß, T. Feurer, R. Sauerbrey, **G. Szabó**:
Temporal probing of an ultrafast plasma shutter driven by a KrF femtosecond laser system
 Appl. Phys. B 71, 487-490 (2000)
- 141.Nishikawa H, Kanai M, **Szabo G**, Kawai T:
Mechanism for excimer-laser ablation in alkaline-earth metals
 Phys. Rev B 61 (2), 967-973 (2000)
- 142.E. Baltas, P. Nagy, B. Bonis, Z. Novak, F. Ignacz, **G. Szabo**, Zs. Bor, A. Dobozy and L. Kemeny:
Repigmentation of localized vitiligo with the xenon chloride.
 British Journal of Dermatology 144(6) (2001) 1266-1267.

- 143.L. Kemény, B. Bónis, A. Dobozy, Zs. Bor, **G. Szabó** and F. Ignác:
308-nm excimer laser therapy for psoriasis.
Arch. Dermatol. 137 (2001) 95-96.
- 144.M. Chirtoc, J. Gibkes, H.G.Walther, A. Christ, J.S. Antoniow, D. Bicanic, Z. Bozóki, **G. Szabo**, B. Bein, J. Pelzl, M. Kleebauer, H. Bader and M. Marinelli:
Comparative Study of Coating Thickness Determination in Packaging Composite Materials Using Photothermal Radiometry, Photoacoustic and Photopyroelectric methods.
Analytical Sciences. 17. s185-188. (2001).
- 145.Hacker M, Feurer T, Sauerbrey R, Lucza T, **Szabo G**:
Programmable femtosecond laser pulses in the ultraviolet
J. of Opt. Soc. of Am. B 18(6), 866-871 (2001)
- 146.Feurer T, Glass A, Rozgonyi T, Sauerbrey R, **Szabo G**:
Control of the photodissociation process of CsCl using a feedback-controlled self-learning fs-laser system
Chem. Phys. 267 (1-3), 223-229 (2001)
- 147.Bicanic D, Doka O, Luterotti S, Bohren A, Sikovec M, van Veldhuizen B, Berkessy O, Chirtoc M, Franko M, **Szabo G**, Sigrist M:
Assessing the extent of oxidation in thermally stressed vegetable oils. Part I: Optical characterization by photothermal and some conventional physical methods
Analytical Sciences 17, 547-550 (2001)
- 148.Z. Bozóki, A. Mohácsi, **G. Szabó**, Zs. Bor, M. Erdélyi, Weidong Chen, F.K. Tittel:
Near-infrared diode laser based spectroscopic detection of ammonia: a comparative study of photoacoustic and direct optical absorption methods.
[Journal Paper] Applied Spectroscopy, 56 (6), June 2002, pp.715-19. Publisher: Soc. Appl. Spectrosc, USA.
- 149.Zoltán Bozóki, Miklós Szakáll, Árpád Mohácsi, **Gábor Szabó** and Zsolt Bor:
Diode laser based photoacoustic humidity sensors
The 9th International meeting on chemical sensors, Boston USA, 7-10 July 2002, Abstract book p. 114.
- 150.Z. Bozóki, M. Szakáll, Á. Mohácsi, **G. Szabó** and Zs. Bor:
Diode laser based photoacoustic humidity sensors.
Sensors and Actuators B. 91, 219-226 (2003)
- 151.Anikó Veres, Zoltán Bozóki, Árpád Mohácsi, Miklós Szakáll and **Gábor Szabó**:
External cavity diode laser based photoacoustic detection of CO₂ at 1.43 μm; the effect of molecular relaxation.
Applied Spectroscopy. 57, 900-905 (2003)
- 152.M. Szakáll, Z. Bozóki, Á. Mohácsi, A. Varga and **G. Szabó**:
Diode laser based photoacoustic water vapor detection system for atmospheric research.
Applied Spectroscopy, 58 (2004) 792-798
- 153.H. Veres, F. Sarlós, A. Varga, **G. Szabó**, Z. Bozóki, G. Motika, J. Gyapjas:
Nd:YAG laser based photoacoustic detection of ozon and its field tests,
Proceedings of the 11th Symposium on Analytical and Environmental Problems, Abstract book p: 252-256, 2004

154. Csoma Z., Ignacz F., Bor Z., **Szabo G.**, Bodai L., Dobozy A., Kemeny L.:
Intranasal irradiation with the xenon chloride ultraviolet B laser improves allergic rhinitis,
Journal of Photochemistry and Photobiology B-Biology 75 (3): 137-144 Sep (2004)
155. H. Veres, F. Sarlós, A. Varga, **G. Szabó**, Z. Bozóki, G. Motika and J. Gyapjas:
Nd:YAG laser based photoacoustic detection of ozone; comparison of pulsed and quasi continuous wave operation and field tests.
Spectroscopy Letters, 38 (2005) 377-388.
156. H. Huszár, M. Szakáll, Z. Bozóki, A. Zahn and **G. Szabó**:
Characterization of Photoacoustic Water Vapor Detector for Atmospheric Applications.
7th Atmospheric Spectroscopy Applications Meeting, Reims-France, 6-8 September 2005
157. M. Szakáll, Z. Bozóki, Á. Mohácsi, A. H. Veres, A. Varga, H. Huszár and **G. Szabó**:
Photoacoustic Detectors for Gas Emission and Imission Monitoring.
7th Atmospheric Spectroscopy Applications Meeting, Reims-France, 6-8 September 2005
158. Koreck AI, Csoma Z, Bodai L, Ignacz F, Kenderessy AS, Kadocsa E, **Szabo G**, Bor Z, Erdei A, Szony B, Homey B, Dobozy A, Kemeny L:
Rhinophototherapy: A new therapeutic tool for the management of allergic rhinitis
Journal of Allergy and Clinical Immunology 115 (3): 541-547 MAR 2005
159. Szakáll, H. Huszár, Z. Bozóki and **G. Szabó**:
On the Pressure Dependent Sensitivity of a Photoacoustic Water Vapor Detector Using a Novel Modulation Method.
Infrared Physics and Technology 48 (3) 192-201 Aug 2006
160. H. Huszár, Z. Bozóki, Á. Mohácsi, S. Puskás, J. Tamás and **G. Szabó**:
Combination of photoacoustic detector with diffusion sampler for the measurement of water vapor concentration in ethylene glycols for the natural gas industry.
Sensors and Actuators B Chemical 119 (2): 600-607 Dec 7 (2006)
161. Varga, Z. Bozóki, M. Szakáll and **G. Szabó**:
Photoacoustic System for On-line Process Monitoring of Hydrogen Sulfide (H₂S) Concentration in Natural Gas Streams Applied Physics B-Lasers and Optics 85 (2-3): 315-321 Nov (2006)
162. Linke, O. Mohler, A. Veres, Á. Mohácsi, Z. Bozóki, **G. Szabó** and M. Schnaiter:
Optical properties and mineralogical composition of different Saharan mineral dust samples: a laboratory study.
Atmospheric Chemistry and Physics. 6: 3315-3323 (2006)
163. C. Linke, O. Mohler, A. Veres, Á. Mohácsi, Z. Bozóki, **G. Szabó** and M. Schnaiter:
Optical properties and mineralogical composition of different Saharan mineral dust samples: a laboratory study.
Atmospheric Chemistry and Physics Discussions 6 (2): 2897-2922 (2006)
164. Z. Filus, T. Ajtai, Z. Bozóki, G. Pap, **G. Szabó**, I. Domonkos, T. Nagy and T. Katona:
Novel gas detection method for permeability measurement
Oilfield Engineering with Polymers, 29-30 March 2006, London, UK
165. Csoma Z, Koreck A, Ignacz F, Bor Z, **Szabo G**, Bodai L, Dobozy A, Kemeny L:
PUVA treatment of the nasal cavity improves the clinical symptoms of allergic rhinitis and inhibits the immediate-type hypersensitivity reaction in the ski
Journal of Photochemistry and Photobiology B-Biology 83 (1): 21-26 Apr 3 (2006)

166. Zoltán Filus, Tibor Ajtai, Zoltán L. Horváth, Zoltán Bozóki, Gábor Pap, Tibor Nagy, Tamás Katona, **Gábor Szabó**:
A novel apparatus based on a photoacoustic gas detection system for measuring permeation parameters of polymer samples
Polymer Testing, 26 (5): 606-613 August (2007)
167. Miklós Szakáll, János Csikós, Zoltán Bozóki, **Gábor Szabó**:
On the temperature dependent characteristics of a photoacoustic water vapor detector for airborne application.
Infrared Physics and Technology 51 (2): 113-121 October (2007)
168. A. Varga.; Á. Mohácsi; M. Szakáll; Z. Bozóki; **G. Szabó**:
Photoacoustic system for monitoring hydrogen sulphide (H₂S) in natural gas and in biogas. EGU General Assembly 2007. Bécs (Ausztria), 2007. április 15-20.,
Geophysical Research Abstracts, Vol. 9, 11678, 2007, SRef-ID: 1607-7962/gra/EGU2007-A-11678
169. T. Ajtai, Á. Filep, A. H. Veres, G. Motika, Z. Bozóki, **G. Szabó**:
Multi purpose air quality monitoring photoacoustic system for aerosol, NO₂ and ozone detection: laboratory and field test.
(EGU2007-A-11653), EGU General Assembly 2007.,
Geophysical Research Abstracts, Vol. 9, 11635, 2007, SRef-ID: 1607-7962/gra/EGU2007-A-11635
170. T. Ajtai, Á. Filep, A. H. Veres, G. Motika, Z. Bozóki, **G. Szabó**:
Novel Multi-Purpose Sensor for Atmospheric Monitoring Using Nd:YAG Laser Based Multi-wavelength Photoacoustic System.
(EGU2007-A-11646), EGU General Assembly 2007,
Geophysical Research Abstracts, Vol. 9, 11646, 2007, SRef-ID: 1607-7962/gra/EGU2007-A-11646
171. B. Hopp, T. Smausz, T. Csizmadia, J. Budai, A. Oszkó, **G. Szabó**:
Laser-induced backside dry etching: wavelength dependence
Journal of Physics D: Applied Physics 41, 175501 (6pp) (AUG 2008)
172. Helga Huszár, Andrea Pogány, Zoltán Bozóki, Árpád Mohácsi, László Horváth, **Gábor Szabó**:
Ammonia monitoring at ppb level using photoacoustic spectroscopy for environmental application
Sensors and Actuators B: Chemical 134 (2), 1027-1033 (Sept 2008)
173. A. Varga.; Á. Mohácsi; A. Szabó; V. Hanyecz, Z. Bozóki; **G. Szabó**:
Photoacoustic detection system for biogas applications.
EGU General Assembly 2008. Bécs (Ausztria), 2008. április 14-18.,
Geophysical Research Abstracts, Vol. 10, EGU2008-A-04748, 2008, SRef-ID: 1607-7962/gra/EGU2008-A-04748
174. Z. Bozóki, T. Ajtai, M. Schnaiter, C. Linke, M. Vragel, Á. Filep, A. H. Veres, **G. Szabó**:
Novel Multi Wavelength photoacoustic system (WaSul-MuWaPas) for spectral characterization of aerosols.
EGU General Assembly 2008. Bécs (Ausztria), 2008. április 14-18.,
Geophysical Research Abstracts, Vol. 10, EGU2008-A-04052, 2008, SRef-ID: 1607-7962/gra/EGU2008-A-04052

175. H. Huszár, Z. Bozóki, Á. Mohácsi, **G. Szabó**, A. Zahn:
WaSul-Hygro: A diode laser based photoacoustic instrument for airborne measurement of water vapour and total water concentration.
 EGU General Assembly 2008. Bécs (Ausztria), 2008. április 14-18.,
 Geophysical Research Abstracts, vVol. 10, EGU2008-A-01890, 2008, SRef-ID: 1607-7962/gra/EGU2008-A-01890
176. Pogány, Á. Mohácsi, L. Horváth, Z. Bozóki, **G. Szabó**:
A photoacoustic system for measuring ammonia exchange between the biosphere and atmosphere.
 EGU General Assembly 2008. Bécs (Ausztria), 2008. április 14-18.,
 Geophysical Research Abstracts, Vol. 10, EGU2008-A-01665, 2008, SRef-ID: 1607-7962/gra/EGU2008-A-01665
177. Erdélyi M, Lajkó M, Kákonyi R, **Szabó G.**:
Measurement of the x-ray tube anodes' surface profile and its effects on the x-ray spectra.
 Medical Physics 36 (2): 587-593 (FEB 2009)
178. Pogány A, Mohácsi A, Varga A, Bozóki Z, Galbács Z, Hováth L, **Szabó G**:
A compact ammonia detector with sub-ppb accuracy using near-infrared photoacoustic spectroscopy and preconcentration sampling.
 Environmental Science and Technology 43 (3): 826-830 (FEB 2009)
179. Hopp B, Smausz T, Vass C, **Szabó G**, Bohme R, Hirsch D, Zimmer K:
Laser-induced backside dry and wet etching of transparent materials using solid and molten tin as absorbers.
 Applied Physics A-Materials Science and Processing 94 (4): 899-904 (MAR 2009)
180. Szakáll M., Varga A., Pogány A., Bozóki Z., **Szabó G.**:
Novel resonance profiling and tracking method for photoacoustic measurements.
 Applied Physics B-Lasers and Optics, 94(4): 691-698 MAR 2009
181. Róbert Kákonyi, Miklós Erdélyi and **Gábor Szabó**:
Monte Carlo analysis of energy dependent anisotropy of bremsstrahlung x-ray spectra.
 Med. Phys. Volume 36, Issue 9, pp. 3897-3905 (September 2009)
182. Gajdátsy G, Benedek F, Kokavec J, **Szabó G**, Kornis J:
Improved fiber optic device for in situ determination of electrolyte stratification in lead-acid batteries.
 Review of Scientific Instruments, 80 (12), Art. No.: 125108 (DEC 2009)
183. Pogány, Á. Mohácsi, Z. Bozóki, T. Weidinger, L. Horváth, and **G. Szabó** :
"Diode laser based photoacoustic instrument for ammonia concentration and flux monitoring",
 EGU General Assembly, 2009, Vienna (Austria)
184. Z. Bozóki, A. Pogány, A. Varga, Á. Mohácsi and **G. Szabó**:
„Diode laser based photoacoustic gas detection instruments for environmental monitoring applications”,
 EGU General Assembly, 2009, Vienna (Austria)
185. T. Ajtai, M. Schnaiter, C. Linke, M. Vragel, Á. Filep, L. Fodi, G., Motika, Z. Bozóki, **G. Szabó**:
Demonstration of the Applicability of Novel Photoacoustic Aerosol Monitor for Optical Absorption Coefficient Determination. Laboratory and Field Test.,
 EGU General Assembly 2009. Bécs (Ausztria), 2009. 04. 20. - 24.

186. T. Ajtai, M. Schnaiter, C. Linke, M. Vragel, Á. Filep, L. Fodi, G., Motika, Z. Bozóki, **G. Szabó:**
„Novel Photoacoustic Aerosol Monitor for Optical Absorption Coefficient Determination. Laboratory and Field Test.”,
EAC 2009. Karlsruhe (Németország), 2009. 09. 07. - 11.
187. B. Hopp, T. Smausz, B. Zsibrita and **G. Szabó:**
„Deposition of pepsin thin layer using IR-MAPLE procedure”,
CM.P.3 CL.P.15 CLEO®/Europe-EQEC 2009, International Congress Centre Munich, Germany, 14 - 19 June 2009
188. B. Hopp, T. Smausz, T. Csizmadia, Cs. Vass, T. Csákó, **G. Szabó:**
„Comparative Study of Different Indirect Laser-Based Methods Developed for Microprocessing of Transparent Materials”, invited lecture
Proceedings of LAMP2009 - the 5th International Congress on Laser Advanced Materials Processing, Kobe, Japan. 2009
189. Veronika Hanyecz, Árpád Mohácsi, Andrea Pogány, Attila Varga, Zoltán Bozóki, Imre Kovács, **Gábor Szabó:**
Multi-component photoacoustic gas analyzer for industrial applications.
Vibrational Spectroscopy 52 (1) (JAN 22, 2010) 63–68
190. Hopp B, Smausz T, Csizmadia T, Vass C, Csako T, **Szabo G:**
Comparative study of different indirect laser-based methods developed for microprocessing of transparent materials.
Journal of Laser Micro Nanoengineering 5 (1) 80-85 (FEB 2010)
191. Zoltán Györi, Dávid Tátrai, Ferenc Sarlós, **Gábor Szabó**, Ákos Kukovecz, Zoltán Kónya, Imre Kiricsi:
Laser-induced fluorescence measurements on CdSe quantum dots.
Processing and Application of Ceramics 4 (1), 33-37 (MARCH 2010)
192. Andrea Pogány, Árpád Mohácsi, Stephanie K. Jones, Eiko Nemitz, Attila Varga, Zoltán Bozóki, Zoltán Galbács, Tamás Weidinger, László Horváth, **Gábor Szabó:**
Evaluation of a diode laser based photoacoustic instrument combined with preconcentration sampling for measuring surface-atmosphere exchange of ammonia with the aerodynamic gradient method.
Atmospheric Environment 44 (12) 1490-1496 (APR 2010)
193. Z. Bozóki, A. Szabó, Á. Mohácsi, **G. Szabó:**
A fully opened photoacoustic resonator based system for fast response gas concentration measurements.
Sensors and Actuators B: Chemical-B, 147 (1) 206-212 (MAY 18 2010)
194. Z. Kőkuti, J. Kokavecz, A. Czirják, I. Holczer, A. Danyi, Z. Gábor, **G. Szabó**, N. Pézsa, P. Ailer, H. Németh, L. Palkovics:
„Nonlinear viscoelasticity of silicone fluids”,
poster az „Annual European Rheology Conference 2010, Göteborg” konferencián
195. Z. Kőkuti, J. Kokavecz, A. Czirják, I. Holczer, Cs. Vass, A. Danyi, Z. Gábor, **G. Szabó**, N. Pézsa, P. Ailer, H. Németh, L. Palkovics:
„Nonlinear viscoelasticity and thixotropy of silicone fluids”,
poster az „European Seminar on Coupled Problems 2010, Pilsen” konferencián

196. Andrea Pogány, Tamás Weidinger, Jerzy Bienkowski, Árpád Bordás, Zoltán Bozóki, Attila Eredics, Arjan Hensen, Krzysztof Janku, Győző Kiss, Aline Kraai, Zoltán Istenes, Árpád Mohácsi, **Gábor Szabó**, Kirsten Schelde, Mark Theobald:
Energy budget components, ammonia concentration and flux measurements on an agricultural landscape near Bjerringbro, Denmark
EGU Assembly 2010 Vienna, Geophysical Research Abstracts 12: Paper 14742. (2010)
197. G Gajdásy, L Dudás, M Erdélyi, **G Szabó**:
Line-scanning tomographic optical microscope with isotropic transfer function.
Journal of Optics 12 (11) art.no.115505 (NOV 2010)
198. Ajtai T., Filep Á., Varga A., Motika G., Bozóki Z., **Szabó G.**:
Ozone concentration-monitoring photoacoustic system based on a frequency-quadrupled Nd:YAG laser.
Applied Physics B-Lasers and Optics 101 (1-2) pp.403-409 (OCT 2010)
199. Ajtai T., Filep Á., Schnaiter M., Linke C., Vragel M., Bozóki Z., **Szabó G.**, Leisner T.:
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 (11) pp.1020-1029 (NOV 2010)
200. Kákonyi R., Erdélyi M., **Szabó G.**:
Monte Carlo simulation of the effects of anode surface roughness on x-ray spectra.
Medical Physics 37 (11) pp.5737-5745 (NOV 2010)
201. Czirják, A., Bara, L., Danyi, A., **Szabó, G.**, Ailer, P., Pézsa, N., Lukács, P.:
Simulation of rod-climbing of viscoelastic and thixotropic fluids
16th International Conference on Finite Elements in Flow Problems (FEF 2011) W. A. Wall and V. Gravemeier (Eds), Munich, Germany, March 23-25 (2011)
202. P Novák, M Móra, D Aladzic, A Szabó, Á Mohácsi, Z Rakonczay, K Turzo, **G Szabó**, K Nagy:
Assessment of halitosis in a student population in Hungary
Journal of Dental Research 90:(Spec Iss B,) Paper 507. (2011)
203. Ajtai, T ; Filep, A ; Kecskemeti, G ; Hopp, B ; Bozoki, Z ; **Szabo, G** :
Wavelength dependent mass-specific optical absorption coefficients of laser generated coal aerosols determined from multi-wavelength photoacoustic measurements
Applied Physics A-Materials Science & Processing Volume: 103 Issue: 4 pp. 1165-1172 (JUN 2011)
204. József Sinkó, László Dudás, Gábor Gajdásy, Miklós Erdélyi and **Gábor Szabó**:
Map free line-scanning tomographic optical microscope
Optics Letters Vol. 36, No. 20 (15 OCT 2011)
205. Veronika Hanyecz, Árpád Mohácsi, Sándor Puskás, Árpád Vágó and **Gábor Szabó**:
Photoacoustic spectroscopy-based detector for measuring benzene and toluene concentration in gas and liquid samples
Meas. Sci. Technol. 22 (2011) 125602 (7pp)
206. Ajtai, T; Filep, A; Utry, N; Schnaiter, M; Linke, C; Bozoki, Z; **Szabo, G**; Leisner, T:
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, Vol. 42, Issue: 12 pp. 859-866 (DEC 2011)

207. Z. Bozoki; A. Pogany; **G. Szabo**:
Photoacoustic instruments for practical applications: present, potentials and future challenges
Applied Spectroscopy Reviews 46 (1) 1-37 (2011)
208. B. Hopp, T. Smausz, **G. Szabó**, L. Kolozsvári, D. Kafetzopoulos, C. Fotakis, A. Nógrádi:
Femtosecond laser printing of living cells using absorbing film assisted laser induced forward transfer;
Optical Engineering (January 2012), Vol. 51 (1) Art. N.:014302
209. Anna Szabó, Árpád Mohácsi, Péter Novák, Daniela Aladzic, Kinga Turzó, Zoltán Rakonczay, Gábor Erős, Mihály Boros, Katalin Nagy and **Gábor Szabó**:
Diode laser based photoacoustic gas measuring instruments intended for medical research
Proc. SPIE 8427, Progress in Biomedical Optics and Imaging 84272J (April 2012)
210. Tuboly E, Szabo A, Garab D, Bartha G, Janovszky A, Eros G, Szabo A, Mohacsi A, **Szabo G**, Kaszaki J, Ghyczy M, Boros M:
Methane biogenesis during sodium azide-induced chemical hypoxia in rats
American Journal of Physiology-Cell Physiology Epub ahead of print: Paper 10.1152/ajpcell.00300.2012. (2012)
211. 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**:
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 (2012)
212. B. Hopp, G. Kecskeméti, T. Smausz, T. Ajtai, A. Filep, N. Utry, A. Kohut, Z. Bozóki, **G. Szabó**:
Characterization of excimer laser ablation generated pepsin particles using multi-wavelength photoacoustic instrument;
Appl. Phys. A 107 (2) (May 2012) 429-435
213. M. Csete, A. Szalai, Á. Sipos, **G. Szabó**:
Impact of polar-azimuthal illumination angles on efficiency of nano-cavity-array integrated single-photon detectors
Optics Express, 20/15 (Jul 16, 2012) 17065-17081
214. Z. Kócuti, K. van Gruijthuisen, M. Jenei, A. Czirják, J. Kokavec, A. Danyi, P. Ailer, L. Palkovics, A. C. Völker, **G. Szabó**,
„High-frequency rheology of nonlinear silicone fluids”
poster előadás a XVIth International Congress on Rheology konferencián, August 5-10, 2012, Lisszabon
215. Kecskeméti, G; Hopp, B; Smausz, T; Toth, Z; **Szabo, G**:
Production of porous PTFE-Ag composite thin films by pulsed laser deposition
Applied Surface Science 258 (209) 7982-7988 (Aug 2012)
216. Dudas, L; Gajdatsy, G; Sinko, J; Erdelyi, M; **Szabo, G**:
Correction of error motion in a line-scanning tomographic optical microscope
Applied Optics 51 (26) 6319-6324 (Sep 10 2012)
217. M. Csete, Á. Sipos, A. Szalai, **G. Szabó**:
Theoretical study on interferometric illumination of gold colloid sphere monolayers to produce complex structures for spectral engineering
IEEE Photonics Journal, 4/5 (Oct 2012); DOI: 10.1109/JPHOT.2012.2218587

218. Dudas, L, Sinko, J, Erdelyi, M, **Szabo, G**:
Confocal line-scanning microscope with modified illumination
 Optics Letters 37 (20) 4293-4295 (Oct 15, 2012)
219. M. Csete, Á. Sipos, A. Szalai, **G. Szabó**:
Optimized illumination directions of single-photon detectors integrated with different plasmonic structures
 in proceeding, talk, COMSOL Conference, 2012 Boston
- 220.: Kis, B. J., Sarnyai, Z, Kákonyi, R, Erdélyi, M, **Szabó G**
Single-energy material decomposition using X-ray path length estimation
 Journal of Computer Assisted Tomography, November issue, Vol. 36, No. 6 (Nov-Dec 2012) 768-777
221. 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, publikálásra elfogadva

Egyéb publikációk:

1. **G. Szabó**, Zs. Bor, I. Ketskemény, L. Kozma and B. Rácz:
Improvement of the spectral properties of a single-cavity dye laser, by using an intracavity lens
 3rd Conference on Luminescence, Szeged, (1979) 285-289
2. B. Rácz, Zs. Bor, I. Ketskemény, L. Kozma and **G. Szabó**:
Short-pulse generation by a long cavity dye laser
 3rd Conference on Luminescence, Szeged, (1979) 291-297
3. Zs. Bor, B. Rácz, **G. Szabó** and Z. Gy. Horváth:
Halo laser
 Digest of the Conference on Optics, Budapest (1980)
4. Zs. Bor, B. Rácz, **G. Szabó**, S. Szatmári, A. Müller and F.P. Schafer:
Picosecond pulse generation by distributed feedback dye lasers
 International Conference and School "Laser and Applications", Bucharest (1982) 307-321
5. **G. Szabó**, Zs. Bor and A. Müller:
 20 mw 2.5 ps pulse generation by a mode-locked nd-YAG laser pumped distributed feedback dye laser
 4th Conference on Luminescence, Szeged, (1982) 323-326
6. Zs. Bor, B. Rácz, **G. Szabó**, S. Szatmári, A. Müller and F.P. Schafer:
Picosecond pulse generation by distributed feedback dye lasers
 4th Conference on Luminescence, Szeged, (1982) 263-271
7. **G. Szabó**, Zs. Bor, B. Rácz, A. Müller and I. Ketskemény:
Picosecond and subpicosecond pulse generation by travelling wave amplified spontaneous emission and distributed feedback dye lasers
 Symposium Optika '84, Budapest (1984) 170-172

8. G.I. Groma, F. Ráksi, Gy. Váró, **G. Szabó** and L. Nagy:
Light induced picosecond electric response signal of bacteriorhodopsin protein
XIIIth International Conference on Photochemistry, Budapest (1987)
9. G.I. Groma, F. Ráksi, Gy. Váró and **G. Szabó**:
Opto-electronic properties of bacteriorhodopsin in picosecond and nanosecond regions
9th International Symposium on Bioelectrochemistry and Bioenergetics, Szeged (1987)
10. Zs. Bor and **G. Szabó**:
Generation and measurement of picosecond and femtosecond laser pulses
OPTIKA '88 Third International Symposium on Modern Optics, Budapest (1988)
53-59
11. G.I. Groma, **G. Szabó**, Gy. Váró, F. Ráksi and L. Keszthelyi:
Bacteriorhodopsin: picosecond optoelectric signal transducer
Proceeding of Initial Meeting of International Society for Molecular Electronics and Biocomputing (1991)
12. J. Mohay, I. Süveges, I. Ratkay, Á. Füst, Zs. Bor, **G. Szabó**, B. Rácz, B. Hopp and Sz. Virágh:
Scanning electron microscopical study of corneal incisions induced by an excimer laser
Szemészet, 129 (1992)
13. Zs. Bor, M. Erdélyi, Z.L. Horváth, **G. Szabó**, F.K. Tittel, J.R. Cavallaro, M.C. Smayling:
Generation of Diffraction-Free Beams for Application in Optical Microlithography
Workshop „Holography as Realized” Kecskemét, Hungary, June 3-4, 1996
14. Zs. Bor, M. Csete, M. Erdélyi, Zs. Geretovszky, P. Heszler, B. Hopp, Z. Horváth, Z. Kántor, B. Rácz, K. Révész, **G. Szabó**, T. Szörényi and Zs. Tóth:
Surface structuring by laser-based techniques
International Workshop and Grain Boundary Segregation, NANO. Konf. Eger, 1997.
15. M. Erdélyi, Zs. Bor, **G. Szabó**, K. Osvay, F.K. Tittel:
Resolution and Depth of focus enhancement in optical microlithography using off-axis illumination
TTK book, 1998.
16. J. Sneider, Z. Bozóki, M. Szakáll, Á. Mohácsi, Zs. Bor and **G. Szabó**:
On the possible application areas of the diode laser based photoacoustic gas detection method.
Optika '98 5th Congress on Modern Optics, 14-17 Sept. 1998 Budapest, Hungary. SPIE Vol. 3573, 264-267 (1998).
17. J. Sneider, Z. Bozóki, Á. Mohácsi, M. Szakáll, A. Miklós, **G. Szabó** and Zs. Bor:
Optimalisation of diode laser based photoacoustic laser system for high sensitivity detection of water vapour, methane and carbon-dioxide.
Optika '98 5th Congress on Modern Optics, 14-17 Sept. 1998 Budapest, Hungary. SPIE Vol. 3573, 260-263 (1998).

18. J. Sneider, Z. Bozóki, Á. Mohácsi, M. Szakáll, **G. Szabó** and Zs. Bor:
Development and application of external cavity diode laser systems for photoacoustic gas detection.
Optika '98 5th Congress on Modern Optics, 14-17 Sept. 1998 Budapest, Hungary.
SPIE Vol. 3573,256-259 (1998).
19. B. Hopp, Zs. Bor, B. Rácz, **G. Szabó**, D. Xenakis, C. Kalpouzos and C. Fotakis:
Single shot picosecond time-resolved measurement of the transient reflection increase of ablated polymer surfaces.
CIMTEC'98
20. B. Hopp, Zs. Bor, B. Rácz, **G. Szabó**, D. Xenakis, C. Kalpouzos, C. Fotakis:
Single shot measurement picosecond time-resolved measurement of the transient reflectivity increase of ablated polymer surfaces
TTK kiadvány (1998)
21. B. Hopp, K. Révész, M. Csete, F. Ignác, **G. Szabó**, B. Rácz, Zs. Bor:
Excimer laser induced surface chemical modification of polyimide and polytetrafluorethylene
TTK kiadvány (1998)
22. J. Sneider, Z. Bozóki, **G. Szabó**, Zs. Bor, Á. Mohácsi, M. Szakáll:
Toward sub ppm. water vapour detection based on external cavity diode laser and photoacoustic spectroscopy
5th Int. Symposium on Gas Analysis by Tunable Diode Lasers Freiburg, VDI Berichte 1366, pp. 63 (1998)
23. B. Hopp, K. Révész, M. Csete, F. Ignác, **G. Szabó**, B. Rácz, Zs. Bor:
Excimer laser induced surface chemical modification of polyimide and polytetrafluoroethylene
TTK book 1998
24. Á. Mohácsi, M. Szakáll, Z. Bozóki, J. Sneider, **G. Szabó** and Zs. Bor:
Diode laser based high sensitive gas detection
TTK book 1998
25. **G. Szabó**, J. Péter, S.D. Carpenter, P.M. Weber, T. Szakács, A. Lőrincz:
Self-learning optical system based on a genetic algorithm driven spatial light modulator
TTK book 1998
26. M. Erdélyi, Zs. Bor, **G. Szabó**, K. Osvay and F.K. Tittel:
Resolution and depth of focus enhancement in optical microlithography using off-axis illumination
TTK book 1998
27. B. Hopp, Zs. Bor, B. Rácz, **G. Szabó**, D. Xenakis, C. Kalpouzos, C. Fotakis:
Single shot picosecond time-resolved measurement of the transient reflection increase of ablated polymer surfaces
TTK book 1998
28. Z. Bozóki, **G. Szabó**, A. Miklós, Á. Mohácsi, M. Szakáll, Zs. Bor:
Photoacoustic Spectroscopy: A Toll For High Sensitivity Gas Detection
International Békésy Conference, Budapest (1999)
(Satellite Conference of the World Science Congress of UNESCO)

29. Á. Mohácsi, Z. Bozóki, M. Szakáll, **G. Szabó**, Zs. Bor:
High Stability external cavity diode laser system for photoacoustic gas detection
8th International Laser Physics Workshop (Lphys'99 Budapest)
30. Zoltán Bozóki, Miklós Szakáll, Árpád Mohácsi Attila Varga, Helga Huszár, Anikó Hegedis Veres, Zoltán Filus, János Csikós and **Gábor Szabó**:
Photoacoustic System Development for Industrial and Environmental Gas Monitoring.
Forum Acousticum, Budapest 2005. August 29 - September 2 2005
31. Koreck A, Csoma Zs, Ignác F., Bodai L, Kadocsa Edit, **Szabó G**, Bor Zs, Nékám K, Dobozy A és Kemény L:
Intranasalis fototerápia az allergiás rhinitis kezelésében.
Orvosi Hetilap, 146. évf. 19. szám, (2005) 965-969
32. Attila Varga, Zoltán Bozóki, Árpád Mohácsi, Miklós Szakáll, **Gábor Szabó**:
Photoacoustic system for on-line process monitoring of hydrogen sulfide (H₂S) and water vapor concentration in natural gas streams
Petroleum Engineering Summer School, Workshop 20: Natural gas from reservoir to the burner tip (part two); Dubrovnik, Croatia, 2006
33. **Gábor Szabó**, Zoltán Bozóki, Gábor Pap, Tamás Katona, Zoltán Filus:
Development and application of photo-acoustic and photo-thermal systems for the measuring of the gas permeability of polymers. (Entwicklung und Anwendung fotoakustischer bzw. fothermischer Systeme zur Messung der Gasdurchlässigkeit von Polymeren.)
Gummi Fasern Kunststoffe, 2007/6, 343-347
34. Z. Bozóki, A. Mohácsi, A. Varga, H. Huszár, **G. Szabó**:
WaSul: Photoacoustic instruments for various applications.
The 16th International Conference on Advanced Laser Technologies, Sept 13-18, 2008 Siófok, meghívott előadás
35. Pogány, Á. Mohácsi, Z., Galbács, T. Weidinger, L. Horváth, A. Varga, Z. Bozóki, **G. Szabó**:
"Diode laser based photoacoustic instrument for ammonia concentration and flux monitoring",
10th International Symposium „Interdisciplinary Regional Research” Romania-Hungary-Serbia, 2009, Hunedoara (Romania)
36. Andrea Pogány, Árpád Mohácsi, Zoltán Bozóki, **Gábor Szabó**, Attila Varga, László Horváth, Tamás Weidinger:
"Ammonia concentration and gradient measurements at various sites with a room temperature diode laser based photoacoustic instrument (WaSil-Flux)",
NitroEurope 4th General Assembly and Annual Meeting, 2009, Gothenburg (Sweden)
37. T. Ajtai, Á. Filep, Z. Bozóki, M. Schnaiter, C. Linke, M. Vragel, L. Fodi, **G. Szabó**:
„Demonstration of the Applicability of Novel Photoacoustic Aerosol Monitor for Optical Absorption Coefficient Determination. Laboratory and Field Test.”,
ISSIR 2009. Hunedoara (Románia), 2009. 04. 22. - 24.

38. T. Ajtai, Á. Filep, Z. Bozóki, M. Schnaiter, C. Linke, M. Vragel, L. Fodi and **G. Szabó:**
„Demonstration of the Applicability of Novel Photoacoustic Aerosol Monitor for Optical Absorption Coefficient Determination, Laboratory Tests,”
Eurochamp
39. Z. Kőkuti, J. Kokavecz, A. Czirják, I. Holczer, A. Danyi, Z. Gábor, **G. Szabó**, N. Pézsa, P. Ailer, L. Palkovics:
„Nonlinear viscoelasticity and thixotropy of a silicone fluid”,
előadás a „TEAM 2010 / AGTEDU 2010” konferencián, Kecskemét, 2010. november 4–5.
40. V Hanyecz, Á. Mohácsi, S. Puskás, Á. Vágó, **G. Szabó:**
Fotoakusztikus műszer fejlesztése gázok és folyadékok BTX-tartalmának automatikus meghatározására
In: Janaky Cs, Németh Z (szerk.):XXXIII. Kémiai Előadói Napok (Chemistry Lectures): Program és előadásösszefoglalók (Program and Proceedings)
Konferencia helye, ideje: Szeged, Magyarország, 2010.10.24-2010.10.27.
Szeged: Magyar Kémikusok Egyesülete, 2010. pp. 173-174.
(ISBN:978-96-3315-020-7)
41. V Hanyecz , Á. Mohácsi, A. Pogány, A. Varga, Z. Bozóki, I. Kovács, **G. Szabó:**
Fotoakusztikus gázelemző fejlesztése a MOL Nyrt. kísérleti laboratóriumába
In: Janaky Cs, Nemeth Z (szerk.)
XXXII. Kémiai Előadói Napok (Chemistry Lectures): Program és előadásösszefoglalók (Program and Proceedings).
Konferencia helye, ideje: Szeged, Magyarország, 2010.10.26-2010.10.28.
Magyar Kémikusok Egyesülete, pp. 215-216.(ISBN:978-96-3315-020-7)
42. Kőkuti, Z., Kokavecz, J., Holczer, I., Danyi, A., Gábor, Z., **Szabó, G.**, Ailer, P., Palkovics, L., Pézsa, N., Czirják, A.:
Nonlinear viscoelasticity and thixotropy of a silicone fluid
A jövő járműve, 2011/1-2, 134-136 oldal, X-méditor Lapkiadó Oktatás-és Rendezvényszervező Kft., HU ISSN 1788-2699 (2011)
43. Z. Kőkuti, J. Kokavecz, A. Czirják, I. Holczer, A. Danyi, Z. Gábor, **G. Szabó**, N. Pézsa, P. Ailer, L. Palkovics:
„Nonlinear viscoelasticity and thixotropy of a silicone fluid”,
Annals of Faculty Engineering Hunedoara – International Journal of Engineering, **9** (2) 177-180 (2011)
44. **Szabo, G** :
Towards attosecond biophysics: what can ELI-ALPS offer?
European Biophysics Journal with Biophysics Letters Volume: 40 Supplement: 1 pp. 193-193 (AUG 2011)
45. Pogany, A; Weidinger, T; Bozoki, Z; Mohacsi, A; Bienkowski, J; Jozefczyk, D; Eredics, A; Bordas, A; Gyongyosi AZ; Horvath, L; **Szabo, G**:
Application of a novel photoacoustic instrument for ammonia concentration and flux monitoring above agricultural landscape – results of a field measurement campaign in Choryn, Poland
Idojaras 116 (2) 93-107 (Apr-Jun 2012)

46. T. Csizmadia, B. Hopp, T. Smausz, I. Hanyecz, J. Kopniczky, and **G. Szabó**:
*Application possibility of laser-induced backside dry etching technique for
fabrication of SERS active surfaces*
Conference poster, P2-34, E-MRS 2012 Spring Meeting May 14-18 2012,
Strasbourg, France