

## Papers in referred international journals:

1. T. Csizmadia, B. Hopp, T. Smausz, J. Kopniczky, I. Hanyecz, Á. Sipos, M. Csete, G. Szabó: "Possible application of laser-induced backside dry etching technique for fabrication of SERS substrate surfaces", *Applied Surface Science* **278/1** (2013), 234-240, <https://doi.org/10.1016/j.apsusc.2012.12.037>
2. H. Tóháti, Á. Sipos, G. Szekeres, A. Mathesz, A. Szalai, P. Jójárt, J. Budai, Cs. Vass, A. Kőházi-Kis, M. Csete, Zs. Bor: "Surface plasmon scattering on polymer-bimetal layer covered fused silica gratings generated by laser induced backside wet etching", *Appl. Surf. Sci.* **255/10** (2009) 5130-5137, <https://doi.org/10.1016/j.apsusc.2008.08.067>
3. M. Csete, Á. Sipos, A. Kőházi-Kis, A. Szalai, G. Szekeres, A. Mathesz, T. Csákó, K. Osvay, Zs. Bor, B. Penke, M. A. Deli, Sz. Veszélka, A. Schmatulla, O. Marti: "Comparative study of sub-micrometer polymeric structures: Dot-arrays, linear and crossed gratings generated by UV laser based two-beam interference, as surfaces for SPR and AFM based bio-sensing", *Appl. Surf. Sci.* **254/4** (2007) 1194-1205, <https://doi.org/10.1016/j.apsusc.2007.08.020>
4. Cs. Vass, K. Osvay, M. Csete, B. Hopp: "Fabrication of 550 nm gratings in fused silica by laser induced backside wet etching technique", *Appl. Surf. Sci.* **253** (2007) 8059-8063, <https://doi.org/10.1016/j.apsusc.2007.02.087>
5. M. Csete, A. Kőházi-Kis, Cs. Vass, Á. Sipos, G. Szekeres, M. Deli, K. Osvay, Zs. Bor: "Atomic force microscopical and surface plasmon resonance spectroscopical investigation of sub-micrometer metal gratings generated by UV laser-based two-beam interference in Au-Ag bimetallic layers", *Appl. Surf. Sci.* **253** (2007) 7662-7671, <https://doi.org/10.1016/j.apsusc.2007.02.035>
6. M. Csete, A. Kőházi-Kis, V. Megyesi, K. Osvay, Zs. Bor, M. Pietralla, O. Marti: "Coupled surface plasmon resonance on bimetallic films covered by sub-micrometer polymer gratings", *Org. Electronics* **8/2-3** (2007) 148-160, <https://doi.org/10.1016/j.orgel.2006.06.003>
7. M. Csete, G. Kurdi, J. Kokavecz, V. Megyesi, K. Osvay, Z. Schay, Zs. Bor, O. Marti: "Application possibilities and chemical origin of sub-micrometer adhesion modulation on polymer gratings produced by UV laser illumination", *Mat. Sci. and Engin. C* **26** (2006) 1056-1062, <https://doi.org/10.1016/j.msec.2005.09.008>
8. M. Csete, G. Szekeres, Cs. Vass, N. Maghelli, K. Osvay, Zs. Bor, M. Pietralla, O. Marti: "Surface plasmon resonance spectroscopy on rotated sub-micrometer polymer gratings generated by UV-laser based two-beam interference", *Appl. Surf. Sci.* **252/13** (2006) 4773-4780, <https://doi.org/10.1016/j.apsusc.2005.07.121>
9. M. Csete, N. Kresz, G. Kurdi, Zs. Heiner, M. Deli, Zs. Bor, O. Marti: "Sub-micrometer adhesion modulation on polymer surfaces containing gratings produced by two-beam interference", *Mat. Sci. and Engin. C* **25** (2005) 813-819, <https://doi.org/10.1016/j.msec.2005.06.030>
10. M. Csete, Cs. Vass, J. Kokavecz, M. Goncalves, V. Megyesi, Zs. Bor, M. Pietralla, O. Marti, "Effect of sub-micrometer polymer gratings generated by two-beam interference on surface plasmon resonance", *Appl. Surf. Sci.* **247/1-4** (2005) 477-485, <https://doi.org/10.1016/j.apsusc.2005.01.070>
11. N. Kresz, J. Kokavecz, T. Smausz, B. Hopp, M. Csete, S. Hild, O. Marti: "Investigation of pulsed laser deposited crystalline PTFE thin layer with pulsed force mode AFM", *Thin Solid Films* **453-454** (2004) 239-244, <https://doi.org/10.1016/j.tsf.2003.11.254>
12. M. Csete, S. Hild, A. Plettl, P. Ziemann, Zs. Bor, O. Marti: "The role of original surface roughness in laser-induced periodic surface structure formation process on polycarbonate films", *Thin Solid Films* **453-454** (2004) 114-120, <https://doi.org/10.1016/j.tsf.2003.11.086>
13. M. Csete, J. Kokavecz, Zs. Bor, O. Marti: "The existence of sub-micrometer micromechanical modulation generated by polarized UV laser illumination on polymer

- surfaces", *Mat. Sci. and Engin. C* **23** (2003) 939-944, <https://doi.org/10.1016/j.msec.2003.09.091>
14. R. Kemkemer, M. Csete, S. Schrank, D. Kaufmann, J. Spatz: "*The determination of the morphology of melanocytes by laser-generated periodic surface structures*", *Mat. Sci. and Engin. C* **23** (2003) 437-440, [https://doi.org/10.1016/S0928-4931\(02\)00317-X](https://doi.org/10.1016/S0928-4931(02)00317-X)
  15. M. Csete, R. Eberle, M. Pietralla, O. Marti, Zs. Bor: "*Attenuated total reflection measurements on poly-carbonate surfaces structured by laser illumination*", *Appl. Surf. Sci.* **208-209** (2003) 474-480, [https://doi.org/10.1016/S0169-4332\(02\)01436-8](https://doi.org/10.1016/S0169-4332(02)01436-8)
  16. M. Csete, O. Marti, Zs. Bor: "*Laser-induced periodic surface structures on different poly-carbonate films*", *Appl. Phys. A* **73** (2001) 521-526, <https://doi.org/10.1007/s003390100973>
  17. M. Csete and Zs. Bor: "*Laser-induced periodic surface structure formation on polyethylene-terephthalate*", *Appl. Surf. Sci.* **133** (1998) 5-16, [https://doi.org/10.1016/S0169-4332\(98\)00192-5](https://doi.org/10.1016/S0169-4332(98)00192-5)
  18. M. Csete and Zs. Bor: "*Plano-concave microcuvette for measuring the absorption coefficient of highly absorbing liquids*", *Appl. Opt.* **36** (1997) 2133-2138. <https://doi.org/10.1364/AO.36.002133>
  19. B. Hopp, M. Csete, K. Révész, J. Vinkó, Zs. Bor: "*Formation of the surface structure of polyethylene-terephthalate (PET) Due to ArF Excimer Laser Ablation*", *Appl. Surf. Sci.* **96-98** (1996) 611-616, [https://doi.org/10.1016/0169-4332\(95\)00563-3](https://doi.org/10.1016/0169-4332(95)00563-3)
  20. Z. Ball, B. Hopp, M. Csete, F. Ignácz, B. Rácz, G. Szabó, R. Sauerbrey: "*Transient optical properties of excimer-laser-irradiated polyimide: II. Carbon-cluster scattering*", *Appl. Phys. A* **61** (1995) 575-578, <https://doi.org/10.1007/BF01542866>
  21. Z. Ball, B. Hopp, M. Csete, F. Ignácz, B. Rácz, R. Sauerbrey, G. Szabó: "*Transient optical properties of excimer-laser-irradiated polyimide: I. Refractive index*", *Appl. Phys. A* **61** (1995) 547-551, <https://doi.org/10.1007/BF01540257>
  22. B. Hopp, M. Csete, G. Szabó, Zs. Bor: "*Time-resolved study of ArF-excimer-laser ablation processes of polymethylmethacrylate*", *Appl. Phys. A* **61** (1995) 339-345, <https://doi.org/10.1007/BF01540105>

### Referred conference proceedings, book-chapters:

1. M. Csete and Zs. Bor: "*Excimer laser induced periodic surface structure formation on polyethylene-terephthalate*" in *Advances in science and technology 20: Surface engineering* (Proc. of Topical Symposium III of 9<sup>th</sup> CIMTEC), Ed.: P. Vincenzini, (Techna, Faenza, 1999) 441-446, Firenze, Italy, poster. ISSN: 1661-819X, ISBN: 8886538219, 9788886538213
2. M. Csete and Zs. Bor: "*Development of submicrometer periodic surface structures on polyethylene-terephthalate*", (Proc. of 5<sup>th</sup> Congress on Modern Optics: OPTIKA '98) SPIE Vol. **3573** (1998) 120-123, Budapest, Hungary, poster. <https://doi.org/10.1117/12.320990>
3. B. Hopp, Zs. Márton, M. Csete, F. Ignácz, Zs. Bor: "*Changes in optical properties of excimer-laser-irradiated polymers*", (Proc. of 5<sup>th</sup> Congress on Modern Optics: OPTIKA '98) SPIE Vol. **3573** (1998) 100-103, Budapest, Hungary, poster. <https://doi.org/10.1117/12.320985>
4. Zs. Márton, B. Hopp, Zs. Tóth, M. Csete, F. Ignácz, Zs. Bor: "*Velocity measurements in the nanosecond range realised by variably delayed dye laser exposition*", (Proc. of International Conference on Applied Optical Metrology, 1998,) SPIE Vol. **3407** (1998) 291-296, Balatonfüred, Hungary, poster. <https://doi.org/10.1117/12.323327>
5. M. Csete, Zs. Tóth, Zs. Bor: "*Submicrometer periodic surface structures on polyethylene-terephthalate generated by polarized excimer laser irradiation*", in *Precision Machining: Laser Beam Micromachining* (Proc. of 10<sup>th</sup> Hungarian-Korean Seminar), Ed.: E. Czoboly, (ISBN 9630365642 Hungarian-Korean Technical Cooperation Centre Foundation, 1998) 133-138, Budapest, Hungary, talk.

6. Zs. Geretovszky, B. Hopp, Z. Kántor, K. Révész, F. Ignác, M. Csete, T. Szörényi, Zs. Bor: "*Surface chemical modification and pattern deposition with lasers*", in Integrated circuits and devices (Proc. of 9<sup>th</sup> Hungarian-Korean Seminar), Ed.: E. Czoboly, (ISBN 963-0489880, Hungarian-Korean Technical Cooperation Centre Foundation 1997) 263-271, Budapest, Hungary, talk.
7. Zs. Bor, M. Csete, M. Erdélyi, Zs. Geretovszky, P. Heszler, B. Hopp, Z. Horváth, Z. Kántor, B. Rác, K. Révész, G. Szabó, T. Szörényi, Zs. Tóth: "*Surface structuring by laser-based techniques*", in Nanotechnology, a dedicated tool for the future, Eds.: I. Mojzes and B. Kovács, (ISBN 963-8531657, MIL-ORG. Ltd, NETI, Budapest, 1997) 67-105.