

Marko Cvejić publications

Peer-reviewed papers:

1. M.R. Gavrilović, **M. Cvejić**, V. Lazic and S. Jovičević; *Secondary plasma formation after single pulse laser ablation underwater and its advantages for laser induced breakdown spectroscopy (LIBS)* (2016) *Physical Chemistry Chemical Physics*, 18, 14629- -14637
DOI: 10.1039/C6CP01515H
2. **M. Cvejić**, Krzysztof Dzierzega, T. Pięta; *Investigation of the thermodynamic equilibrium in laser-induced aluminum plasma using the H α line profiles and Thomson scattering spectra* (2015) *Applied Physics Letters*, 107, 024102-1
DOI: 10.1063/1.4926990
3. **M. Cvejić**; *Diagnostics of laser-induced plasma by optical emission spectroscopy* (2014) *Journal of Physics Conference Series* 565 (1), art. no. 012014
DOI: 10.1088/1742-6596/565/1/012014
4. **M. Cvejić**, E. Stambulchik, M.R. Gavrilović, S. Jovičević, N. Konjević; *Neutral lithium spectral line 460.28 nm with forbidden component for low temperature plasma diagnostics of laser-induced plasma* (2014) *Spectrochimica Acta - Part B, Atomic Spectroscopy*, 100, pp. 86-97.
DOI: 10.1016/j.sab.2014.08.007
5. A.V. Tatarinov, **M. Cvejić**, I.L. Epstein, S. Jovicevic, N. Konjevic, Y.A. Lebedev; *The Beenakker's cavity for uniform column of nonequilibrium argon plasma generation: Experiment and 3-d modeling* (2014) *IEEE Transactions on Plasma Science*, 42 (10), art. no. 6847148, pp. 2836-2837.
DOI: 10.1109/TPS.2014.2328017
6. M. Cirisan, **M. Cvejić**, M.R. Gavrilović, S. Jovičević, N. Konjević, J. Hermann; *Stark broadening measurements of Al II lines in a laser-induced plasma* (2014) *Journal of Quantitative Spectroscopy and Radiative Transfer*, 133, pp. 652-662
DOI: 10.1016/j.jqsrt.2013.10.002
7. **M. Cvejić**, M.R. Gavrilović, S. Jovičević, N. Konjević; *Stark broadening of Mg I and Mg II spectral lines and Debye shielding effect in laser induced plasma* (2013) *Spectrochimica Acta - Part B Atomic Spectroscopy*, 85, pp. 20-33.
DOI: 10.1016/j.sab.2013.03.011
8. Dj. Spasojević, **M. Cvejić**, N.M. Šišović, N. Konjević; *Spectroscopic diagnostics of microhollow gas discharge in hydrogen* (2012) *Journal of Applied Physics*, 111 (9), art. no. 096103, .
DOI: 10.1063/1.4718570

9. M. Cvejić, Dj. Spasojević, N.M. Šišović, N. Konjević; *A contribution to spectroscopic diagnostics and cathode sheath modeling of micro-hollow gas discharge in argon* (2011) Journal of Applied Physics, 110 (3), art. no. 033305, DOI: 10.1063/1.3615962

10. M. Tausanovic, S. Markovic, S. Marjanovic, J. Cvetic, M. Cvejić; *Dynamics of a lightning channel corona sheath using a generalized traveling-current-source return stroke model-theory and calculations* (2010) IEEE Transactions on Electromagnetic Compatibility, 52 (3), art. no. 5460969, pp. 646-656. DOI: 10.1109/TEMPC.2010.2044886

11. Dj. Spasojević, M. Cvejić, N.M. Šišović, N. Konjević,; *Simultaneous plasma and electric field diagnostics of microdischarge from hydrogen Balmer line shape* (2010) Applied Physics Letters, 96 (24), art. no. 241501, . DOI: 10.1063/1.3449129

Conferences:

- 1. Dimitry Mikitchuk, Marko Cvejić, Eyal Kroupp, Ramy Doron, Yitzhak Maron, Alexander L. Velikovich, John L. Giuliani,** *Magnetic-field evolution in Z-pinch implosion with preembedded axial magnetic field*, Pulsed Power Conference (PPC), Brighton, 2017
- 2. Marko Cvejić, Dimitry Mikitchuk, Eyal Kroupp, Ramy Doron and Yitzhak Maron,** *Determination of the azimuthal magnetic field evolution in imploding magnetized plasma*, 19th Israeli Conference on Plasma Science, Jerusalem, 2017
- 3. M. Cvejić, T. Pięta, K. Dzierżęga,** *Diagnostics of laser-induced aluminum plasma using Ha line profiles and Thomson scattering spectra: Investigation of isothermal equilibrium*, 8th Euro-mediterranean Symposium on Laser-Induced Breakdown Spectroscopy (EMSLIBS), Linz 2015.
- 4. D. Mikitchuk, R. Doron, M. Cvejić, E. Kroupp, Y. Maron,** *Method for spatially resolved magnetic field measurements in plasmas using laser produced dopant*, 8th Euro-mediterranean Symposium on Laser-Induced Breakdown Spectroscopy (EMSLIBS), Linz 2015.
- 5. M.R. Gavrilović, M. Cvejić, V. Lazić, S. Jovićević,** *Diagnostics of underwater laser-induced breakdown on alumina target*, 8th Euro-mediterranean Symposium on Laser-Induced Breakdown Spectroscopy (EMSLIBS), Linz 2015.
- 6. M. Cvejić, T. Pięta, M.R. Gavrilović, S. Jovicević and K. Dzierżęga,** *Investigations of Ha line profile in laser - induced plasma using Thomson scattering and optical emission methods*, 3rd Spectral Line Shapes in Plasmas Workshops (SLSP), Marseille 2015
- 7. M. Cvejić, E. Stambulchik, M.R. Gavrilović, S. Jovićević, N. Konjević,** *Neutral Lithium Spectral Line 460.28 nm with Forbidden Component for Low Temperature Plasma Diagnostics of Laser-Induced Plasma*, IPSTA-2015, Ariel University
- 8. M. Cvejić,** *Diagnostics of Laser Induced Plasma by Optical Emission Spectroscopy*, 27th Summer School and International Symposium on the Physics of Ionized Gases (SPIG), Belgrade 2014, Contributed papers & abstracts of invited Lectures, topical invited lectures, progress Reports and workshop lectures, p261
- 9. M. R. Gavrilović, M. Cvejić, V. Lazić and S. Jovićević,** *Single-Pulse Laser Induced Plasma in Water: Shock Wave, Bubble and Plasma Emission*, 27th Summer School and International Symposium on the Physics of Ionized Gases (SPIG), Belgrade 2014, Contributed papers &

abstracts of invited Lectures, topical invited lectures, progress Reports and workshop lectures, p311-314

10. M. R. Gavrilović, **M. Cvejić**, V. Lazic and S. Jovićević, *Dynamics and Optical Properties of the Laser Induced Bubble*, 27th Summer School and International Symposium on the Physics of Ionized Gases (SPIG), Belgrade 2014, Contributed papers & abstracts of invited Lectures, topical invited lectures, progress Reports and workshop lectures, p315-319

11. M. Ćirišan, **M. Cvejić**, J. Hermann, S. Jovićević, N. Konjević,; Study of the optical thickness of laser-induced plasma for improved calibration-free LIBS analysis, Publ. University of Novi Sad, Faculty of Sciences, Department of Physics, Contributed Paper, SPIG 2012, p147

12. **M. Cvejić**, M. Gavrilović, S. Jovićević,; Procedure for processing spectral images and self-absorption correction Publ. University of Novi Sad, Faculty of Sciences, Department of Physics, Contributed Paper, SPIG 2012, p151

13. M. Gavrilović, **M. Cvejić**, S. Jovićević, N. Konjević,; Characterization of laser-induced plasma by optical emission spectroscopy, Publ. University of Novi Sad, Faculty of Sciences, Department of Physics, Contributed Paper, SPIG 2012, p171

14. **M. Cvejić**, S. Jovićević, N. Konjević,; Spectroscopic characterization of atmospheric pressure glow discharge, Publ. University of Novi Sad, Faculty of Sciences, Department of Physics, Contributed Paper, SPIG 2012, p289

15. **Marko Cvejić**, Sonja Jovićević, Emilien Mothe, Laurent Mercadier, Nikola Konjević, Jörg Hermann,; Electron density diagnostics of laser induced plasma in helium Publ. Astron. Obs. Belgrade No. 89 (2010), 189-192, Contributed Paper SPIG 2010-08-25

16. **M. Cvejić**, M. Ćirišan, M.R. Gavrilović, S. Jovićević, N. Konjević, J. Hermann,; Stark broadening parameters of Al II line 704.9 nm measured in laser-induced plasma, EMSLIBS 2013 Euro Mediterranean Symposium on Laser Induced Breakdown Spectroscopy, Bari, Italy, Book of Abstracts, p129

17. M. R. Gavrilović, **M. Cvejić**, S. Jovićević, N. Konjević; Stark broadening of Pb II lines in laser induced plasma, EMSLIBS 2013 Euro Mediterranean Symposium on Laser Induced Breakdown Spectroscopy, Bari, Italy, Book of Abstracts, p.137

18. M. Vinić, **M. Cvejić**, M. Ivković,; Spatial and temporal characterization of combined laser induced plasma and spark technique, EMSLIBS 2013 Euro Mediterranean Symposium on Laser Induced Breakdown Spectroscopy, Bari, Italy, Book of Abstracts, p.151

19. **M. Cvejić**, M. Gavrilović, S. Jovićević, M. Ivković, N. Konjević,; Li I 460.3 nm line with forbidden component for LIBS electron number density diagnostics, EMSLIBS 2011 Euro Mediterranean Symposium on Laser Induced Breakdown Spectroscopy, Izmir, Turkey, Book of Abstracts, p.128

20. E. Mothe, **M. Cvejić**, S. Jovićević, L. Mercadier, S. Beldjilali, N. Konjević, J. Hermann ; Time- and space-resolved laser plasma diagnostics for Stark broadening measurements in laser plasma, LIBS 2010 Laser Induced Breakdown Spectroscopy Memphis, Tennessee, USA, Book of Abstracts, p084

21. **M. Cvejić**, M.R. Gavrilović, S. Jovićević, N. Konjević,; Diagnostics of laser induced plasma by optical emission spectroscopy, CEAMP2013, 3rd National Conference of Electronic, Atomic, Molecular and Photonic Physics, Contributed papers & abstracts of invited lectures and progress reports, Publ. University of Belgrade, Faculty of Physics, p. 11