

Публикации в периодични научни издания

1. P.Das, **V. Mihailov**, O.Ivanov, V.Georgiev, S.Andreev, V.Pustovoit
"Contactless characterization of semi-conductor devices using surface photocharge effect"
IEEE - Electron Device Letters 13, 291-293 (1992)
2. R.Djulgerova, **V. Mihailov**
"Laser optogalvanic analysis of nitrogen layers in hollow cathode glow discharge"
Spectroscopy Letters 26, 347-358 (1993)
3. R.Djulgerova, **V. Mihailov**
"Laser-assisted photoelectric optogalvanic analysis of thin films and surfaces using a hollow cathode glow discharge"
Applied Physics B 56, 301-305 (1993)
4. R.Djulgerova, **V. Mihailov**
"Non-resonant photoionization optogalvanic effect in hollow cathode glow discharge"
Spectroscopy Letters 27, 1271-1279 (1994)
5. O.Ivanov, **V. Mihailov**, V.Pustovoit, P.Das
"Surface photo-charge effect in dielectrics" **C.R. Acad. Bulg. Sci.**, 47, 21-24 (1994)
6. **V. Mihailov**, R.Djulgerova, A.Blagoev
"An interpretation of NeI(5s-2p) optogalvanic signal in hollow cathode discharge"
Europhysics Letters 30, 25-29 (1995)
7. O.Ivanov, **V. Mihailov**, V.Pustovoit, A.Abbate, P.Das
"Surface photo-charge effect in solids"
Optics Communications 113, 509-512 (1995)
8. R.Djulgerova, **V. Mihailov**
"Laser optogalvanic effect from Ar positive ions in a hollow cathode discharge"
Europhysics Letters 36, 571-576 (1996)
9. **V. Mihailov**, R.Djulgerova - "Laser optogalvanic analysis of thin film thickness in hollow cathode discharge"
Bulg. J. Phys. 23, 58-62 (1996)
10. R.Djulgerova, **V. Mihailov**, V.Gencheva, V.Hlebarov
"Optogalvanic effect enhancement in N₂ hollow cathode discharge"
Spectroscopy Letters 30, 677-683 (1997)
11. G.Petrov, V.Gencheva, R.Djulgerova, **V. Mihailov**, H.-D. Kronfeldt
"Theoretical description of NeI (5d³-2p₄) optogalvanic signal registered in a hollow cathode discharge"
JQSRT 59, 33-38 (1997)
12. G.Petrov, V.Gencheva, R.Djulgerova, **V. Mihailov**
"Time-dependent description of N₂(B₃-C) optogalvanic effect in a hollow cathode discharge"
JQSRT, 64, 563-572 (1999)

13. O. Ivanov, **V. Mihailov**, R. Djulgerova
“Spectral dependencies of the Surface photocharge effect at conducting surfaces”
Spectroscopy Letters **33**, 393-398 (2000)
14. **V. Mihailov**, V. Gencheva, R. Djulgerova
“Measurements of H⁻ concentration in (Ne+H₂) hollow cathode discharge by an emission method”
Jour. Phys. D: Applied Physics **34**, 2185-2190 (2001)
15. V. Gencheva, **V. Mihailov**, R. Djulgerova
“Enhancement of H⁻ production in hollow cathode discharge by using Hydrogen and Neon mixture”
Spectroscopy Letters **35**, 835-843 (2002)
16. R. Djulgerova, B. Pantchev, **V. Mihailov**, V. Gencheva, J. Flaga
“Concentration profiles of ion exchanged optical waveguides in glass analysed in hollow cathode plasma”
Surface & Coatings Technology **166**, 201-205 (2003)
17. R. Djulgerova, L. Popova, **V. Mihailov**, G. Beshkov, A. Szytula, L. Gondek, Z. Petrovic
“Depth profile analysis of surface modified SnO₂ gas sensors performed in hollow cathode discharge”
Spectrochimica Acta B, 905-908 (2004)
18. L. Popova, R. Djulgerova, G. Beshkov, **V. Mihailov**, A. Szytula, L. Gondek, Z. Petrovic
“SnO₂ thin films for gas sensors modified by hexamethyldisilazane after rapid thermal annealing”
Sensors & Actuators B **100**, 352-358 (2004)
19. V. Gencheva, R. Djulgerova, **V. Mihailov**, A. Stojanova-Ivanova
“Multi-component material sputtering by hollow cathode discharge”
Czech. J. Phys., vol **54**, 903-907 (2004)
20. R. Djulgerova, L. Popova, G. Beshkov, Z. Lju Petrovic Z. Rakocevic **V. Mihailov**, V. Gencheva, T. Dohnalik
“Investigation of modified thin SnO₂ layers treated by rapid thermal annealing by means of hollow cathode spectroscopy and AFM technique”
Journal of Phys. D: Appl. Phys. **39**, 3267-3271, (2006)
21. V. Gencheva, R. Djulgerova, **V. Mihailov**, T. Dohnalik, Z. Petrovic
“On hydrogen negative ion formation and concentration measurements in hollow cathode discharge and positive column glow discharge”
Journal of Physics: Conf. Series **71**, 1-15, (2007), 012009
22. R. Djulgerova, **V. Mihailov**, J. Koperski, M. Ruszczak, T. Dohnalik and Z. Lju. Petrovic
“Dynamic optogalvanic Krypton and Neon spectra for 428-451nm range in hollow cathode discharge”
Publ. Astron. Obs. Belgrade №84, 297-300, (2008)
23. **V. Mihailov**, R. Djulgerova, J. Koperski, M. Ruszczak, T. Dohnalik and Z. Lju. Petrovic
“Argon dynamic optogalvanic spectrum in hollow cathode discharge”
Publ. Astron. Obs. Belgrade №84, 335-338, (2008)

24. N. Skoro, D. Marich, G. Malovic, Z. Lju. Petrovic, **V. Mihailov** and, R. Djulgerova “Electical properties and spatiotemporal profiles of the low pressure hollow cathode discharge “
Publ. Astron. Obs. Belgrade №84, 331-334, (2008)
25. **V. Mihailov**, R. Djulgerova, J. Koperski, M. Strojecki, Z. Lju Petrovic
“Krypton dynamic optogalvanic signals in 427-451nm range for wavelength calibration”
C.R. Acad. Bulg. Sci., Tome 61, №8, pp. 979-984, (2008)
26. R. Djulgerova, **V. Mihailov**, M.D. Todorov, J. Koperski, M. Ruszczkak, T. Dohnalik, Z. Lju Petrovic
“Restoration of the pure dynamic optogalvanic signals in Ne hollow cathode discharge”
IEEE – TRANSACTIONS ON PLASMA SCIENCE, 37, 159-163 (2009)
27. D.Maric, N.Skoro, G. Malovic, Z. Lju. Petrovic, **V. Mihailov**, R. Djulgerova
“Hollow cathode Discharges: Volt-Ampere Characteristics and Space-Time Resolved Structure of the Discharge”
Journal of Physics: Conf. Series: 162, 1-15 (2009) 012007

Списания с ИФ

Spectroscopy letters	ИФ 0.82
JQSRT	ИФ 1.97
Jour. Phys. D: Appl. Phys.	ИФ 2.20
Surfac & Coatings Technology	ИФ 1.68
Spectochimica Acta	ИФ 2.36
Sensors & Actuators	ИФ 2.39
Czech. Jour. Phys.	ИФ 0.43
IEEE - Electron Devise Lett.	ИФ 2.49
Applied Physics B	ИФ 2.28
Europhysics Letters	ИФ 2.57
Optics Communications	ИФ 1.40
Czech. Jour. Phys.	ИФ 0.43
IEEE – Transaction on Plasma Science	ИФ 1.03
C.R. Acad. Bulg. Sci.	ИФ 0.20

Списания без ИФ

Bulg. Jour. Physics
Publ. Astron. Obs. Belgrade
Journal of Physics: Conf. Series

**Публикации в материали на
международни конференции в пълен текст**

28. D.Zechev, R.Djulgerova, **V.Mihailov**
"On spectral line intensity reaction and optogalvanic signal enhancement in hollow cathode discharge at resonant light illumination"
Proc.XXII EGAS conference, Uppsala (Sweden), I, 200-202 (1990)
29. **V.Mihailov**, R.Djulgerova
"Depth profile analysis of Co and Ni in hollow cathode discharge"
Proc. Fifth Nation. Coll. with Intern. Partic. "Physical methods for investigations and control of metal and allows", Sofia, 11-12(1993)
30. V.Gencheva, **V.Mihailov**, R.Djulgerova, A.Stojanova, Y.Yordanov
"Hollow cathode discharge possibilities for element depth profile analysis of Ag- covered high temperature superconducting materials"
Contrib. Papers 19th SPIG, Zlatibor, Yugoslavia, 291 – 293 (1998)
31. R.Djulgerova, G.Petrov, V.Gencheva, **V.Mihailov**
"Modeling and description of nitrogen optogalvanic effect registered by pulse mode in a hollow cathode discharge"
Contrib. Papers 19th SPIG, Zlatibor, Yugoslavia, 453 - 456 (1998)
32. **V.Mihailov**, V.Gencheva, R.Djulgerova, D.Astadjov, N.Sabotinov
"Influence of Hydrogen on (Ne+H₂) hollow cathode discharge characteristics"
Proc. SPIE 10th Intern. School on Quant. Electr. : Lasers phys. and appl., Varna, Bulgaria (1998)
33. R.Djulgerova, **V.Mihailov**, V.Gencheva, T.Dochnalik
"Hydrogen negative ion concentration in hollow cathode discharge "
Contrib. Papers of 20th SPIG, Zlatibor (Yugoslavia), 361-363 (2000)
34. V.Gencheva, **V.Mihailov**, R.Djulgerova
"Hydrogen negative ion concentration in (Ne+H₂) positive column glow discharge"
Proc. SPIE 11th Intern. School on Quant. Electr.: Laser Physics and Applications, v. 4397, 211-215 (2001)
35. V.Gencheva, **V. Mihailov**, R.Djulgerova
"On Hydrogen Negative Ions Concentration Measurements Depending on H₂ Concentration in (H₂+Ne) Hollow Cathode Discharge"
Contrib. Papers of 22th SPIG, Serbia and Montenegro, 401-404 (2004)
36. **V.Mihailov**, R. Djulgerova, M.Todorov, J. Koperski, M. Ruszczak, Z.Lju.Petrovic
"Obtaining of true dynamic optogalvanic signal from the registered one in hollow cathode discharge"
Contrib. Papers of 22th SPIG, Serbia and Montenegro 481-484 (2004)
37. A.Stoyanova-Ivanova, S.Terzieva, A.Zahariev, **V.Mihailov**, H.Ignatov
"Obtaining of YBCO tapes by OPIT method"
Proc. of the Advanced Studies on Supercond. Eng. 56-59, (2004), I. Vajda and L.Farkas (Eds.)

38. R. V. Gencheva, **V. Mihailov**, Djulgerova – “Modeling of (Ne+H₂) positive column and hollow cathode glow discharges”
Fourth International Workshop and School “Towards Fusion Energy – Plasma Physics, Diagnostics, Applications”, Kudowa Zdroj, Poland, 638-642, (2004)
39. R. Djulgerova, **V. Mihailov**, V. Gencheva, L. Popova, B. Panchev, V. Michaylova, A. Szitula, L. Gondek, T. Dohnalik, Z.Lj.Petrovic
 “Depth profile analysis of new materials in hollow cathode discharge”
The Physics of Ionized Gases, AIP Conf. Proc., Lj. Hadzievski, T. Grozdanov, N. Bibic (Eds.), American Institute of Physics 373-384 (2004)
40. R. Djulgerova, **V. Mihailov**, V. Gencheva, L. Popova, G. Beshkov, Z. Rakocevic, Z. Lju. Petrovic
 “Is it possible to use hollow cathode discharge for depth profiling?”
Pros. XXVIIth ICPiG, Eindhoven, Netherlands 00-093, 1-4 (2005)
41. **V. Mihailov**, R. Djulgerova, V. Gencheva, M. Todorov, J. Koperski, M. Ruszczak, T. Dohnalik, Z. Lju. Petrovic
 “Argon dynamic optogalvanic signals in 445-467nm spectral range for wavelength calibration”
Proc. 5th EU-Japan Symposium on Plasma processing, Serbia PO-2, (2007)
42. R. Djulgerova, **V. Mihailov**, V. Gencheva, M. Todorov, J. Koperski, M. Ruszczak, M. Strojcki, Z. Lju. Petrovic
 “Plasma instabilities in a hollow cathode discharge demonstrated by the dynamic Ne optogalvanic signal”
Proc. 5th EU-Japan Symposium on Plasma processing, Serbia PO-2, (2007)
43. Stoyanova- Ivanova A., Terzieva S., **Mihailov V.**, Mikli V., Kovachev V.
 “AC magnetic susceptibility of elements in Ag sheathed BSCCO (2223) tapes with Te addition”
AIP Conf. Proc., Editor(s): Serkant Ali Cetin, Iskender Hikmet, Vol. 899, Page 802, (2007)
44. M. Todorov, , R. Djulgerova, **V. Mihailov** , J. Koperski,
 “Procedure for Deconvolution of Time-Dependent Signals with Sinusoidal Shape”
APPLICATIONS OF MATHEMATICS IN ENGINEERING AND ECONOMICS: AIP Conf. Proc., Editor(s): Michail D. Todorov, Volume 1067, pp. 279-283 (2008)
45. N. Skoro, D. Maric, G. Malovic, Z. Lj. Petrovic, **V. Mihailov** and R.Djulgerova
 “Volt-Ampere characteristics and spatial profiles of the low pressure hollow cathode discharge” –
Proc. 19th ESCAMPIG, Granada, Spain, 3-20, 2008
46. **V. Mihailov**, R. Djulgerova, J. Koperski, N. Skoro, D. Maric, Z. Lj. Petrovic
 “Dynamic optogalvanic signals behaviour in Ne/Zn hollow cathode discharge”
Proc. 20th ESCAMPIG, Vol. 34B, 2010, P3.193