

# PUBLICATIONS of Dragutin Sevic

(in inverse chronological order)

Revised on December 20, 2022

## Monographs

M1. D. Sevic, M. S. Rabasovic, V. Pejcev and B. P. Marinkovic,  
“Experimental Study of Indium Atom Using Electron and Optical Spectroscopy”,  
Chapter 8 in Monograph *Indium: Properties, Technological Applications and Health Issues* Eds. H.G. Woo  
and H. T. Choi, Nova Science Publ. Inc., New York, 2013, pp.241 – 260.  
[https://www.novapublishers.com/catalog/product\\_info.php?products\\_id=32464](https://www.novapublishers.com/catalog/product_info.php?products_id=32464)  
Acknowledgements: grant – MES RS OI #171020 and the COST Action No. MP1002 “Nanoscale insight in  
ion beam cancer therapy (Nano-IBCT)”  
ISBN: 978-1-62257-696-8

## International Journals (refereed)

90. Maja S. Rabasovic, Bratislav P. Marinkovic, Dragutin Sevic,  
“Analysis of laser induced plume in atmosphere using deep learning”,  
Contrib. Astron. Obs. Skalnaté Pleso 52(3), 126 – 131 (2022).  
<https://doi.org/10.31577/caosp.2022.52.3.126>  
Astronomical Institute Slovak Academy of Sciences Special Issue: Astrophysical Spectroscopy: A&M Data -  
Atmosphere  
ISSN: 1335-1842; 1336–0337 (online)

89. D. Sevic, M.S. Rabasovic, J. Križan, S. Savic-Sevic, B.P. Marinkovic, M.G. Nikolic,  
“Luminescence thermometry based on Y<sub>2</sub>O<sub>2</sub>S:Er,Yb nanophosphor”,  
Opt. Quant. Electron. 54, 523 (2022) [10pp].  
Collection: Photonics: Current Challenges and Emerging Applications  
doi: 10.1007/s11082-022-03885-4  
ISSN: 0306-8919

88. K. R. Hamilton, O. Zatsarinny, K. Bartschat, B. Predojević, D. Šević, B. P. Marinković & M. J. Brunger,  
“Electron-impact excitation of the 52S1/2→52P1/2 and 52P3/2 transitions in rubidium by 40 eV electrons:  
theory and experiment”,  
Eur. Phys. J D: Atoms, Molecules, Clusters and Optical Physics 76, 92 (2022) [6pp].  
doi: 10.1140/epjd/s10053-022-00413-7  
ISSN: 1434-6060

87. Maja S. Rabasovic, Bratislav P. Marinkovic, Dragutin Sevic,  
“Time resolved study of laser triggered electric discharge spark in atmosphere: machine learning approach”,  
Adv. Space Res. (online 27 April 2022) [7pp]  
doi: 10.1016/j.asr.2022.04.046  
Special issue: Spectroscopy & data  
ISSN: 0273-1177

86. Sasa Dujko, Jasmina Atić, Danko Bošnjaković, Ron D White, Peter Stokes, Kathryn R Hamilton, Oleg  
Zatsarinny, Klaus Bartschat, Maja S Rabasovic, Dragutin Sevic, Bratislav P Marinkovic, Dmitry V Fursa,  
Igor Bray, Robert P McEachran, Francisco Blanco, Gustavo Garcia, Darryl Jones, Laurence Campbell and  
Michael J Brunger,

“Transport of electrons and propagation of the negative ionisation fronts in indium vapour”, *Plasma Sources Sci. Technol.* **30**, 115019 (2021) [22pp]  
doi: 10.1088/1361-6595/ac3343  
ISSN: 0963-0252

85. B. P. Marinković, S. D. Tošić, D. Šević, R. P. McEachran, F. Blanco, G. García, and M. J. Brunger, “Electron-impact excitation of the (4d105s) 2S<sub>1/2</sub> → (4d95s2) 2D<sub>3/2</sub> and (4d105s) 2S<sub>1/2</sub> → (4d106s) 2S<sub>1/2</sub> transitions in silver: Experiment and theory” *Phys. Rev. A* **104**, 022808 (2021) [8pp].  
doi: 10.1103/PhysRevA.104.022808  
ISSN: 2469-9926

84. M. S. Rabasovic, B. P. Marinkovic, M. D. Rabasovic, M. G. Nikolic, D. Sevic, “Time-resolved luminescence spectra of greater celandine plant extract (*Chelidonium majus* L.)”, *Eur. Phys. J. D* **75**(6), 180 (2021) [6pp]  
doi: 10.1140/epjd/s10053-021-00185-6  
ISSN: 1434-6060

83. K. R. Hamilton, O. Zatsarinny, K. Bartschat, M. S. Rabasović, D. Šević, B. P. Marinković S. Dujko, J. Atić, D. V. Fursa, I. Bray, R. P. McEachran, F. Blanco, G. García, P. W. Stokes, R. D. White, D. B. Jones, L. Campbell, and M. J. Brunger, “Recommended cross sections for electron–indium scattering”, *J. Phys. Chem. Ref. Data* **50**, (2021) [accepted 3 Dec. 2020, Published Online: 29 January 2021].  
doi: 10.1063/5.0035218  
ISSN: 0047-2689

82. Dragutin Sevic, Janez Krizan, Maja S. Rabasovic, Bratislav P. Marinkovic, “Temperature sensing using YAG:Dy single crystal phosphor”, *Eur. Phys. J. D* **75**, 56 (2021)  
doi: 10.1140/epjd/s10053-021-00068-w  
ISSN: 1434-6060

81. Maria F. Ferreira, Kalil Z. R. de Sousa, Wagner L. Massarotto, Emiliane G. Ricci, Emerson H. de Faria, Katia J. Ciuffi, Dragutin Sevic, Lucas A. Rocha and Eduardo J. Nassar, “Er<sup>3+</sup>/Yb<sup>3+</sup>-Doped GdVO<sub>4</sub> Obtained by the Non-Hydrolytic Sol-Gel Route and Potential Application as Up-Conversion Thermometer”, *J. Braz. Chem. Soc.*, **32**(2) 376-384 (2021)  
doi: 10.21577/0103-5053.20200189  
ISSN: 0103-5053

80. K. R. Hamilton, O. Zatsarinny, K. Bartschat, M. S. Rabasović, D. Šević, B. P. Marinković, S. Dujko, J. Atić, D. V. Fursa, I. Bray, R. P. McEachran, F. Blanco, G. García, P. W. Stokes, R. D. White and M. J. Brunger, “Electron-impact excitation of the (5s<sup>2</sup>5p) <sup>2</sup>P<sub>1/2</sub> → (5s<sup>2</sup>6s) <sup>2</sup>S<sub>1/2</sub> transition in Indium: Theory and Experiment”, *Phys. Rev. A* **102**, 022801 (2020) [10pp]  
doi: 10.1103/PhysRevA.102.022801

79. B. Predojević, D. Šević, B. P. Marinković, R. P. McEachran, F. Blanco, G. García and M. J. Brunger, “Joint theoretical and experimental study on elastic electron scattering from bismuth”, *Phys. Rev. A* **101**, 032704 (2020) [9pp]  
doi: 10.1103/PhysRevA.101.032704  
ISSN: 2469-9926

78. R. M. Abozaid, D. B. Stojanovic, A. Radisavljevic, D. M. Sevic, M. S. Rabasovic, I. M. Radovic, V. Radojevic, “Polymer composite films and nanofibers doped with core-shell quantum dots”, *J. Optoelectron Adv. M.*, **22**(1-2), 67- 74 (2020).  
<https://joam.inoe.ro/articles>

ISSN: 1454-4164

77. D. Šević, M.S. Rabasović, J. Križan, S. Savić-Šević, M.D. Rabasović, B.P. Marinkovic, and M.G. Nikolic, “Effects of temperature on luminescent properties of  $Gd_2O_3:Er,Yb$  nanophosphor”, *Opt. Quant. Electron.* **52**, 232 (2020)

doi: [10.1007/s11082-020-02348-y](https://doi.org/10.1007/s11082-020-02348-y)

Collection: [Advanced Photonics Meets Machine Learning](#)

ISSN: 0306-8919 (Print) 1572-817X (Online)

76. Dragutin Sevic, Maja S Rabasovic, Janez Krizan, S Savic-Sevic, Marko G Nikolic, Bratislav P Marinkovic and Mihailo D Rabasovic, “ $YVO_4:Eu^{3+}$  nanopowders: multi-mode temperature sensing technique”, *J. Phys. D: Appl. Phys.* **53**, 015106 (2020),

DOI: [10.1088/1361-6463/ab499f](https://doi.org/10.1088/1361-6463/ab499f)

ISSN: 0022-3727

75. Rouaida M. Abozaid, Zorica Ž. Lazarević, Nataša Tomić, Aleksandra Milutinović, Dragutin Šević, Maja S. Rabasović, Vesna Radojević,

“Optical properties  $CaWO_4:Nd_3^+/PMMA$  composite layered structures”,

*Opt. Mater.* **96**, 109361 (2019) [8pp].

DOI: [10.1016/j.optmat.2019.109361](https://doi.org/10.1016/j.optmat.2019.109361)

ISSN: 0925-3467

74. B. P. Marinković, R. Panajotović, D. Šević, R. P. McEachran, G. García, F. Blanco, and M. J. Brunger, “Experimental and theoretical cross sections for elastic electron scattering from zinc”,

*Phys. Rev. A* **99**, 062702 (2019) [10pp – published 10 June 2019]

DOI: [10.1103/PhysRevA.99.062702](https://doi.org/10.1103/PhysRevA.99.062702)

ISSN: 2469-9926

73. Rouaida M. Abozaid, Zorica Ž. Lazarević, Ivana Radović, Martina Gilić, Dragutin Šević, Maja S. Rabasović, Vesna Radojević,

“Optical properties and fluorescence of quantum dots  $CdSe/ZnS-PMMA$  composite films with interface modifications”,

*Opt. Mater.* **92**, 405-410 (2019).

DOI: [10.1016/j.optmat.2019.05.012](https://doi.org/10.1016/j.optmat.2019.05.012)

ISSN: 0925-3467

72. Maja S. Rabasovic, Mihailo D. Rabasovic, Bratislav P. Marinkovic and Dragutin Sevic, “Laser-Induced Plasma Measurements Using Nd:YAG Laser and Streak Camera: Timing Considerations”, *Atoms*, **7**(1), 6 (2019) [12pp].

doi: [10.3390/atoms7010006](https://doi.org/10.3390/atoms7010006)

ISSN: 2218-2004

71. R. M. Abozaid, Z. Ž. Lazarević, V. Radojević, M. S. Rabasović, D. Šević, M. D. Rabasović, N. Ž. Romčević,

“Characterization of Neodymium Doped Calcium Tungstate Single Crystal by Raman, IR and Luminescence Spectroscopy”,

*Science of Sintering*, **50**, No 4, 445-455 (2018)

doi: [10.2298/SOS1804445A](https://doi.org/10.2298/SOS1804445A)

<http://ojs.itn.sanu.ac.rs/index.php/scisint/article/view/315>

70. M.G. Nikolic, M.S. Rabasovic, J. Krizan, S. Savic-Sevic, M.D. Rabasovic, B.P. Marinkovic, A. Vlastic and D. Sevic,

“Luminescence thermometry using  $Gd_2Zr_2O_7:Eu^{3+}$ ”,

*Opt. Quant. Electron.* **50**, 258 (2018) [8pp online 12 June 2018].

doi: [10.1007/s11082-018-1529-6](https://doi.org/10.1007/s11082-018-1529-6)

ISSN: 0306-8919

69. M. S. Rabasovic, B. P. Marinkovic, and D. Sevic,  
 “Time-resolved analysis of pure indium sample and LCD displays”,  
*Opt. Quant. Electron.* **50**, 236 (2018) [11pp, on-line 23 May 2018]  
[doi: 10.1007/s11082-018-1506-0](https://doi.org/10.1007/s11082-018-1506-0)  
 ISSN: 0306-8919
68. M. S. Rabasovic, J. Krizan, S. Savic-Sevic, M. Mitric, M. D. Rabasovic, B. P. Marinkovic and D. Sevic,  
 “Orange - reddish light emitting phosphor  $\text{GdVO}_4:\text{Sm}^{3+}$  prepared by solution combustion synthesis (SCS)”,  
*J. Spectrosc.*, **2018**, 3413864. [8pp, online 16 April 2018]  
[DOI: 10.1155/2018/3413864](https://doi.org/10.1155/2018/3413864)  
<https://www.hindawi.com/journals/jspec/aip/3413864/>  
 ISSN: 2314-4920
67. A. Vlasić, D. Šević, M.S. Rabasović, J. Križan, S. Savić-Šević, M.D. Rabasović, M. Mitrić, B.P. Marinković, M.G. Nikolić,  
 “Effects of temperature and pressure on luminescent properties of  $\text{Sr}_2\text{CeO}_4:\text{Eu}^{3+}$  nanophosphor”,  
*Journal of Luminescence*, **199**, 285-292 (2018). [online 22 March 2018]  
[DOI: 10.1016/j.jlumin.2018.03.061](https://doi.org/10.1016/j.jlumin.2018.03.061)  
 ISSN: 0022-2313
66. H. El-Swie, I. Radovic, D. B. Stojanovic, D. M. Sevic, M. S. Rabasovic, P. Uskokovic, V. Radojevic,  
 “Fluorescence, thermal and mechanical properties of PMMA-CdSe QD film”,  
*Journal of Optoelectronics and Advanced Materials*, **19**, No. 3 - 4, March – April 2017, p. 228 – 233,  
<https://joam.inoe.ro/index.php?option=magazine&op=view&idu=4093&catid=102>
65. D. Šević, M. S. Rabasović, J. Križan, S. Savic-Sevic, M. Mitric, M. Gilic, B. Hadzic and N. Romcevic,  
 “Characterization and luminescence kinetics of  $\text{Eu}^{3+}$  doped  $\text{YVO}_4$  nanopowders”,  
*Materials Research Bulletin*, **88**, 121-126 (2017). [online: 21 Dec 2016]  
[doi: 10.1016/j.materresbull.2016.12.021](https://doi.org/10.1016/j.materresbull.2016.12.021)  
 ISSN: 0025-5408  
 Acknowledgements: grants – MESTD RS III45003, OI #171020.  
 (M23=8; if<sub>2</sub>=2.435 for 2015 MSM\_74/271; if<sub>5</sub>=2.380 for 2015 MSM\_80/271)
64. Hana Ibrahim Elswie, Zorica Ž. Lazarević, Vesna Radojević, Martina Gilić, Maja Rabasović, Dragutin Šević, Nebojša Ž. Romčević,  
 " The Bridgman Method Growth and Spectroscopic Characterization of Calcium Fluoride Single Crystals",  
*Science of Sintering*, **48** (2016) 333-341. [http://www.iiss.sanu.ac.rs/download/vol48\\_3/vol48\\_3\\_07.pdf](http://www.iiss.sanu.ac.rs/download/vol48_3/vol48_3_07.pdf)  
[doi: 10.2298/SOS1603333E](https://doi.org/10.2298/SOS1603333E)
63. J. Trajic, M.S. Rabasovic, S. Savic-Sevic, D. Sevic, B. Babic, M. Romcevic, J.L. Ristic-Djurovic,  
 N. Paunovic, J. Krizan, N. Romcevic,  
 “Far-infrared spectra of dysprosium doped yttrium aluminum garnet nanopowder”,  
*Infrared Physics & Technology* **77**, (2016) 226–229  
[DOI 10.1016/j.infrared.2016.06.003](https://doi.org/10.1016/j.infrared.2016.06.003)
62. B P Marinković, B Predojević, D Šević and V Pejčev,  
 “Electron impact excitation of the  $6p^27s^4P_{1/2}$  state of bismuth from the ground state”,  
*J. Phys. B: At. Mol. Opt. Phys.* **49**, 235203 (2016) [7pp]  
[doi:10.1088/0953-4075/49/23/235203](https://doi.org/10.1088/0953-4075/49/23/235203)
61. M. S. Rabasović, D. Šević, N. Lukač, M. Jezeršek, J. Možina and P. Gregorčič,  
 “Evaluation of laser-induced thin-layer removal by using shadowgraphy and laser-induced breakdown spectroscopy”,  
*Appl. Phys. A: Materials Science & Processing* **122**, 186 (2016) [7pp, First online: 24 February 2016]  
[DOI 10.1007/s00339-016-9697-3](https://doi.org/10.1007/s00339-016-9697-3)

Topical Collection: Emerging trends in photo-excitations and promising new laser ablation technologies  
ISSN: 0947-8396 (Print) 1432-0630 (Online)

60. Maja S. Rabasović, Janez Križan, Peter Gregorčič, Mihailo D. Rabasović, Nebojša Romčević and Dragutin Šević,

“Time-resolved luminescence spectra of  $\text{Eu}^{3+}$  doped  $\text{YVO}_4$ ,  $\text{Sr}_2\text{CeO}_4$  and  $\text{Gd}_2\text{Zr}_2\text{O}_7$  nanopowders”,  
*Optical and Quantum Electronics*, February 2016, 48:163

First online: 03 February 2016

[doi: 10.1007/s11082-016-0436-y](https://doi.org/10.1007/s11082-016-0436-y)

ISSN: 0306-8919 (Print) 1572-817X (Online)

Acknowledgements: grants – MESTD RS III45003, OI #171020 and Bilateral Project Serbia – Slovenia (2014–2015) No. 451-03-3095/2014-09/30.

59. M. S. Rabasović, D. Šević, J. Križan, M. D. Rabasović, S. Savić-Šević, M. Mitrić, M. Petrović, M. Gilić and N. Romčević,

“Structural properties and luminescence kinetics of white nanophosphor  $\text{YAG:Dy}$ ”,

*Optical Materials* **50**, 250–255 (2015).

[doi: 10.1016/j.optmat.2015.11.002](https://doi.org/10.1016/j.optmat.2015.11.002)

ISSN: 0925-3467

Acknowledgements: grants – MESTD RS III45003, OI #171020 and Bilateral Project Serbia – Slovenia (2014–2015) No. 451-03-3095/2014-09/30.

58. M. S. Rabasović, D. Šević, J. Križan, M. D. Rabasović, N. Romčević,

"Annealing Effects on Luminescent Properties of  $\text{Eu}^{3+}$  Doped  $\text{Gd}_2\text{Zr}_2\text{O}_7$  Nanopowders",  
*Science of Sintering*, **47** (2015) 269-272.

[doi: 10.2298/SOS1503269R](https://doi.org/10.2298/SOS1503269R)

57. M. S. Rabasović, D. Šević, J. Križan, M. Terzić, J. Možina, B. P. Marinković, S. Savić Šević, M. Mitrić, M. D. Rabasović, and N. Romčević,

“Characterization and luminescent properties of  $\text{Eu}^{3+}$  doped  $\text{Gd}_2\text{Zr}_2\text{O}_7$  nanopowders”,

*J. Alloys and Compounds* **662**, 292-295 (2015) (Available online 22 Oct.2014)

[DOI: 10.1016/j.jallcom.2014.10.072](https://doi.org/10.1016/j.jallcom.2014.10.072)

ISSN: 0925-8388

Acknowledgements: grant – MESTD RS OI #171020 and Bilateral project Serbia-Slovenia #651-03-1251/2012-09/03.

56. S. D. Tošić, V. Pejčev, D. Šević, R. P. McEachran, A. D. Stauffer and B. P. Marinković,

“Electron-impact excitation of silver”,

*Phys. Rev. A* **91**, 052703 (2015).

[DOI: 10.1103/PhysRevA.91.052703](https://doi.org/10.1103/PhysRevA.91.052703)

55. Maja S. Rabasović, Bratislav P. Marinković, and Dragutin Šević,

“Time-Resolved Optical Spectra of the Laser Induced Indium Plasma detected using a Streak Camera”,  
*IEEE Trans. Plasma Sci.* **42**(10) 2588-2589 (2014).

7<sup>th</sup> Triannual Special Issue on Images in Plasma Science

[DOI: 10.1109/TPS.2014.2352400](https://doi.org/10.1109/TPS.2014.2352400)

ISSN: 0093-3813

Acknowledgements: grant – MES RS OI #171020

54. Ramdan M. Dukali, Ivana M. Radović, Dušica B. Stojanović, Dragutin M. Šević, Vesna J. Radojević, Dragan M. Jocić and Radoslav R. Aleksić,

“Electrospinning of the laser dye rhodamine B-doped poly(methyl methacrylate) nanofibers”,

*J. Serb. Chem. Soc.* **79** (7) 867–880 (2014).

[doi:10.2298/JSC131014011D](https://doi.org/10.2298/JSC131014011D)

Acknowledgements: grants – MES RS # TR 34011, III 45019 and OI 171020.

ISSN: 0352-5139

53. D. Sevic, S. Savic-Sevic, D. Pantelic and B. Marinkovic,  
“Application of Fourier-Pade Approximation in Analysis of Holographic Diffraction Gratings”,  
*Acta Physica Polonica A* **124**(4) 619-621 (2013). [3pp]  
[DOI: 10.12693/APhysPolA.124.619](https://doi.org/10.12693/APhysPolA.124.619)

ISSN: 0587-4246

Acknowledgements: grant – MES RS OI #171020 and III # 45016.

52. Bratislav P. Marinković, Ambra Delneri, Maja S. Rabasović, Mira Terzić, Mladen Franko and Dragutin Šević,

“Investigation and detection of cyanobacterial Cr-phycoerythrin by laser based techniques”,

*J. Serb. Chem. Soc.* **78**() 2013.

[doi: 10.2298/JSC130417088M](https://doi.org/10.2298/JSC130417088M)

ISSN: 0352-5139

Acknowledgements: grant – MES RS OI #171020 and COST Action FA0906 “UV-B radiation: A specific regulator of plant growth and food quality in a changing climate (UV4growth)”.

51. M. S. Rabasović, D. Šević, M. Terzić, and B. P. Marinković,  
“Comparison of beetroot extracts originating from several sites using Time resolved laser induced fluorescence spectroscopy”,

*Phys. Scr.* **T149** 014076 (2012).

Proc. Photonica 2011: 3<sup>rd</sup> *International School and Conference on Photonics*, 29 August–2 September 2011, Belgrade, Serbia, Edited by Jovana Petrović, Milutin Stepić and Ljupčo Hadžievski.

[doi:10.1088/0031-8949/2012/T149/014076](https://doi.org/10.1088/0031-8949/2012/T149/014076)

Acknowledgements: MES RS OI #171020

50. M.S. Rabasovic, D. Sevic, V. Pejcev, B.P. Marinkovic,  
“Detecting indium spectral lines using electron and laser induced breakdown spectroscopy”,  
*Nucl.Instrum. Meth. B.* **279** 58-61 (2012).

Special issue: Proceedings of the *Fifth International Conference on Elementary Processes in Atomic Systems*, Belgrade, Serbia, 21-25 June 2011, Edited by Bratislav Marinković and Károly Tőkési.

[doi:10.1016/j.nimb.2011.10.020](https://doi.org/10.1016/j.nimb.2011.10.020)

Acknowledgements: grants: grant MES RS #OI 171020 and ESF COST Action FA0906 UV4growth.

49. Maja S. Rabasovic, Dragutin Sevic, Mira Terzic, and Bratislav P. Marinkovic,  
“Time resolved laser induced fluorescence measurements: Considerations when using Nd:YAG based system”,

*Nucl.Instrum. Meth. B.* **279** 16-19 (2012).

Special issue: Proceedings of the *Fifth International Conference on Elementary Processes in Atomic Systems*, Belgrade, Serbia, 21-25 June 2011, Edited by Bratislav Marinković and Károly Tőkési.

[doi:10.1016/j.nimb.2011.10.017](https://doi.org/10.1016/j.nimb.2011.10.017)

Acknowledgements: grants: MES RS #OI 171020 and ESF COST Action FA0906 UV4growth.

48. S.D. Tošić, V. Pejčev, D. Šević, R.P. McEachran, A.D. Stauffer, and B.P. Marinković,  
“Absolute differential cross sections for electron excitation of silver at small scattering angles”,  
*Nucl. Instrum. Meth. B.* **279** 53-57 (2012).

Special issue: Proceedings of the *Fifth International Conference on Elementary Processes in Atomic Systems*, Belgrade, Serbia, 21-25 June 2011, Edited by Bratislav Marinković and Károly Tőkési.

[doi:10.1016/j.nimb.2011.10.066](https://doi.org/10.1016/j.nimb.2011.10.066)

Acknowledgements: MES RS OI #171020 and ESF COST Action MP1002 Nano-scale insights in ion beam cancer therapy (Nano-IBCT) and Prof. A.Z. Msezane.

47. Dragutin Šević, Maja Rabasović, and Bratislav P. Marinković,  
“Time-Resolved LIBS Streak Spectrum Processing”

*IEEE Trans. Plasma Sci.* **39**(11) 2782-2783 (2011).

Special issue on images in plasma science

doi: [10.1109/TPS.2011.2158555](https://doi.org/10.1109/TPS.2011.2158555)

Acknowledgements: MES RS OI 171020 and ESF COST Action FA0906 UV4growth.

46. B. Predojević, V. Pejčev, †D. M. Filipović, D. Šević, B. Tomčik and B. P. Marinković, “Electron Impact excitation of the  $3s3p\ ^3P$  state of magnesium from the ground state”, *J. Phys. B: At. Mol. Opt. Phys.* **44**, 055208 (2011) (6 pages).

<http://iopscience.iop.org/0953-4075/44/5/055208>

doi: [10.1088/0953-4075/44/5/055208](https://doi.org/10.1088/0953-4075/44/5/055208)

Acknowledgements: grants MES RS 171020 and 06/0-020/961-33/06 and ESF/COST Action MP1002 (Nano-IBCT).

45. J. B. Maljković, A. R. Milosavljević, F. Blanco, D. Šević, G. García, and B. P. Marinković, “Absolute differential cross sections for elastic scattering of electrons from pyrimidine”, *Phys. Rev. A* **79**, 052706 (2009) [7 pages]

<http://link.aps.org/doi/10.1103/PhysRevA.79.052706>

DOI: [10.1103/PhysRevA.79.052706](https://doi.org/10.1103/PhysRevA.79.052706)

44. A. R. Milosavljević, J. J. Jureta, Gy. Viktor, Z. Pešić, D. Šević, S. Matefi-Tempfli, M. Matefi-Tempfli, and B. P. Marinković,

“Low-energy electron transmission through high aspect ratio  $Al_2O_3$  nanocapillaries”,

*EPL* **86** 23001 (2009). [6pp]

<http://www.iop.org/EJ/abstract/0295-5075/86/2/23001>

doi: [10.1209/0295-5075/86/23001](https://doi.org/10.1209/0295-5075/86/23001)

43. S. D. Tošić, V. I. Kelemen, D. Šević, V. Pejčev, D. M. Filipović, E. Yu. Remeta and B. P. Marinković, “Elastic electron scattering by silver atom”,

*Nucl. Instrum. and Meth. in Phys. Res. B* **267**(2) 283 – 287 (2009).

DOI: [10.1016/j.nimb.2008.10.060](https://doi.org/10.1016/j.nimb.2008.10.060)

42. M. S. Rabasović, S. D. Tošić, D. Šević, V. Pejčev, D. M. Filipović and B. P. Marinković, “Electron-impact excitation of the  $6s\ ^2S_{1/2}$  state of In atom at small scattering angles”,

*Nucl. Instrum. and Meth. in Phys. Res. B* **267**(2) 279 – 282 (2009).

DOI: [10.1016/j.nimb.2008.10.056](https://doi.org/10.1016/j.nimb.2008.10.056)

41. D. Šević, S. Savić-Šević, D. Pantelić, B. Jelenković and B.P. Marinković,

“Application of Fourier–Padé Approximation in Analysis of Holographic Photonic Crystal Structures”, *Acta Physica Polonica A* **116** (4) 647 – 648 (2009).

Proceedings of the International School and Conference on Photonics PHOTONICA09 Belgrade, Serbia, August 24 - 28, 2009

<http://przyrbwn.icm.edu.pl/APP/ABSTR/116/a116-4-60.html>

<http://przyrbwn.icm.edu.pl/APP/PDF/116/a116z460.pdf>

ISSN: 1898-794X

Acknowledgements: MSTD Project No. OI141011 and 141003

40. S. Rabasović, D. Šević, M. Terzić, S. Savić-Šević, B. Murić, D. Pantelic and B.P. Marinković, “Measurement of Beet Root Extract Fluorescence Using TR-LIF Technique”,

*Acta Physica Polonica A* **116** (4) 570 – 572 (2009).

Proceedings of the International School and Conference on Photonics PHOTONICA09 Belgrade, Serbia, August 24 - 28, 2009

<http://przyrbwn.icm.edu.pl/APP/ABSTR/116/a116-4-38.html>

<http://przyrbwn.icm.edu.pl/APP/PDF/116/a116z438.pdf>

ISSN: 1898-794X

Acknowledgements: MSTD Project No. OI141011 and 141003

39. A. R. Milosavljević, F. Blanco, J. B. Maljković, D. Šević, G. García, and B. P. Marinković, “Absolute cross sections for elastic electron scattering from 3-hydroxytetrahydrofuran”,

*New J. Phys.* **10** 103005 (2008).  
[doi: 10.1088/1367-2630/10/10/103005](https://doi.org/10.1088/1367-2630/10/10/103005)

38. B. P. Marinković, F. Blanco, D. Šević, V. Pejčev, G. García, D. M. Filipović, D. Pavlović, and N. J. Mason,  
“Elastic scattering of electrons from alanine”,  
*Int. J. Mass Spectrom.* **276** 300 – 304 (2008).  
<http://dx.doi.org/10.1016/j.ijms.2008.07.016>

37. M. S. Rabasović, V. I. Kelemen, S. D. Tošić, D. Šević, M. M. Dovahnych, V. Pejčev, D. M. Filipović, E. Yu. Remeta and B. P. Marinković,  
“Experimental and theoretical study of the elastic electron-indium atom scattering in the intermediate energy range”,  
*Phys. Rev. A* **77** 062713 (2008). (11 pages)  
<http://link.aps.org/abstract/PRA/v77/e062713>  
[doi: 10.1103/PhysRevA.77.062713](https://doi.org/10.1103/PhysRevA.77.062713)

36. B. P. Marinković, D. M. Filipović, V. Pejčev and D. Šević,  
“Electron-impact excitations of the autoionizing states of bismuth”,  
*Int. J. Mass Spectrom.* **271**(1-3) 76-79 (2008).  
[doi:10.1016/j.ijms.2007.09.017](https://doi.org/10.1016/j.ijms.2007.09.017)

35. S. D. Tošić, M. S. Rabasović, D. Šević, V. Pejčev, D. M. Filipović, Lalita Sharma, A. N. Tripathi, Rajesh Srivastava, and B. P. Marinković,  
“Elastic electron scattering by a Pb atom”,  
*Phys. Rev. A* **77** 012725 (2008). (8 pages)  
<http://link.aps.org/abstract/PRA/v77/e012725>  
[DOI: 10.1103/PhysRevA.77.012725](https://doi.org/10.1103/PhysRevA.77.012725)

34. B. Predojević, V. Pejčev, D. M. Filipović, D. Šević and B. P. Marinković,  
“Electron scattering by magnesium: excitation of the  $3s4s\ ^1S_0$ ,  $3s3d\ ^1D_2$  and  $3s4p\ ^1P_1$  states”,  
*J. Phys. B: At. Mol. Opt. Phys.* **41**, 015202 (2008) (10 pages).  
<http://www.iop.org/EJ/abstract/0953-4075/41/1/015202>  
[doi:10.1088/0953-4075/41/1/015202](https://doi.org/10.1088/0953-4075/41/1/015202)

33. S. Milisavljević, M. S. Rabasović, D. Šević, V. Pejčev, D. M. Filipović, Lalita Sharma, Rajesh Srivastava, A. D. Stauffer, and B. P. Marinković,  
“Excitation of the  $6p7s\ ^3P_{0,1}$  states of Pb atom by electron impact: Differential and integrated cross sections”,  
*Phys. Rev. A* **76** 022714 (2007). (5 pages)  
<http://link.aps.org/abstract/PRA/v76/e022714>  
[doi:10.1103/PhysRevA.76.022714](https://doi.org/10.1103/PhysRevA.76.022714)

32. S. Milisavljević, M. S. Rabasović, D. Šević, V. Pejčev, D. M. Filipović, Lalita Sharma, Rajesh Srivastava, A. D. Stauffer, and B. P. Marinković,  
“Electron-impact excitation of the  $6p7s\ ^3P_1$  state of Pb atom at small scattering angles”,  
*Phys. Rev. A* **75** 052713 (2007). (6 pages)  
<http://link.aps.org/abstract/PRA/v75/e052713>  
[doi:10.1103/PhysRevA.75.052713](https://doi.org/10.1103/PhysRevA.75.052713)

31. B. Predojević, V. Pejčev, D. M. Filipović, D. Šević and B. P. Marinković,  
“Elastic electron scattering by magnesium atom”,  
*J. Phys. B: At. Mol. Opt. Phys.* **40** (10) 1853-1861 (2007).  
<http://www.iop.org/EJ/abstract/0953-4075/40/10/019>  
[doi:10.1088/0953-4075/40/10/019](https://doi.org/10.1088/0953-4075/40/10/019)

30. A. R. Milosavljević, Gy. Viktor, Z. Pesić, P. Kolarž, D. Šević, B. P. Marinković, S. Matefi-Tempfli, M. Matefi-Tempfli, and L. Piraux,



“Guiding of low-energy electrons by highly ordered Al<sub>2</sub>O<sub>3</sub> nanocapillaries”

*Phys. Rev. A* **75** 030901 (R) (2007) Rapid Communications

<http://link.aps.org/abstract/PRA/v75/e030901>

DOI: [10.1103/PhysRevA.75.030901](https://doi.org/10.1103/PhysRevA.75.030901)

29. B. P. Marinković, V. Pejčev, D. M. Filipović, D. Šević, S. Milisavljević, B. Predojević,

“Electron collisions by metal atom vapours”,

*Rad. Phys. Chem.* **76** (3) 455-460 (2007).

Proceedings of the 3<sup>rd</sup> International Conference on Elementary Processes in Atomic Systems

[doi:10.1016/j.radphyschem.2006.01.018](https://doi.org/10.1016/j.radphyschem.2006.01.018)

28. B. P. Marinković, A. R. Milosavljević, J. B. Maljković, D. Šević, B. A. Petruševski, D. Pavlović, D. M. Filipović, M. Terzić and V. Pejčev,

“Optical and Electron Spectrometry of Molecules of Biological Interest”,

*Acta Physica Polonica A* **112**(5) 1143-1148 (2007).

<http://przyrbwn.icm.edu.pl/APP/PDF/112/a112z568.pdf>

Proceedings of the International School and Conference on Optics and Optical Materials, ISCOM07, September 3-7, 2007, Belgrade, Serbia. ISSN: 0001-673X

27. D M Filipović, B Predojević, V Pejčev, D Šević, B P Marinković, Rajesh Srivastava and A. D. Stauffer,

“Electron scattering by magnesium: Excitation of the 3s3p <sup>1</sup>P<sub>1</sub> state”,

*J. Phys. B: At. Mol. Opt. Phys.* **39** (11) 2583-2592 (2006).

<http://www.iop.org/EJ/abstract/0953-4075/39/11/021>

[doi:10.1088/0953-4075/39/11/021](https://doi.org/10.1088/0953-4075/39/11/021)

26. D M Filipović, B Predojević, D Šević, V Pejčev, B P Marinković, Rajesh Srivastava and A. D. Stauffer,

“Electron-impact excitation of the 3s3p <sup>1</sup>P<sub>1</sub> state of magnesium: Electron scattering at small angles”,

*Int. J. Mass Spectrom.* **251** 66-75 (2006).

[doi:10.1016/j.ijms.2006.01.019](https://doi.org/10.1016/j.ijms.2006.01.019)

25. A. R. Milosavljević, S. Madžunkov, D. Šević, I. Čadež and B. P. Marinković,

“Experimental determination of differential cross section surface for elastic electron-atom (molecule) scattering”,

*J. Phys. B: At. Mol. Opt. Phys.* **39** (3) 609-623 (2006).

<http://www.iop.org/EJ/abstract/0953-4075/39/3/014>

[doi:10.1088/0953-4075/39/3/014](https://doi.org/10.1088/0953-4075/39/3/014)

24. A. R. Milosavljević, F. Blanco, D. Šević, G. García and B. P. Marinković,

“Elastic scattering of electrons from tetrahydrofurfuryl alcohol”,

*Eur. Phys. J. D.* **40** (1) 107-114 (2006).

[doi: 10.1140/epjd/e2006-00138-7](https://doi.org/10.1140/epjd/e2006-00138-7)

23. B Predojević, D Šević, V Pejčev, B P Marinković and D M Filipović,

“Electron scattering by ytterbium: II. Excitation of the 4f<sup>14</sup>(6s6p <sup>3</sup>P<sub>1</sub>, 5d6s <sup>1</sup>D<sub>2</sub> and 6s7p <sup>1</sup>P<sub>1</sub>) and 4f<sup>13</sup>5d6s<sup>2</sup> (7/2,5/2)<sub>1</sub> states”,

*J. Phys. B: At. Mol. Opt. Phys.* **38** (19) 3489-3501 (2005).

<http://www.iop.org/EJ/abstract/0953-4075/38/19/003>

<http://stacks.iop.org/0953-4075/38/3489>

[doi:10.1088/0953-4075/38/19/003](https://doi.org/10.1088/0953-4075/38/19/003)

22. Dmitry V. Fursa, Igor Bray, and R. Panajotović, D. Šević, V. Pejčev, D. M. Filipović and B. P. Marinković,

“Excitations of <sup>1</sup>P levels of zinc by electron impact on the ground state”,

*Phys. Rev. A* **72** 012706 (2005) 9 pages.

<http://link.aps.org/abstract/PRA/v72/e012706>

[doi:10.1103/PhysRevA.72.012706](https://doi.org/10.1103/PhysRevA.72.012706)

21. S Milisavljević, D Šević, R K Chauhan, V Pejčev, D M Filipović, R Srivastava and B P Marinković, “Differential and integrated cross sections for the elastic electron scattering by calcium atom”, *J. Phys. B: At. Mol. Opt. Phys.* **38** (14) 2371 – 2384 (2005).  
<http://www.iop.org/EJ/abstract/0953-4075/38/14/004>  
<http://stacks.iop.org/0953-4075/38/2371>  
[doi:10.1088/0953-4075/38/14/004](https://doi.org/10.1088/0953-4075/38/14/004)
20. A R Milosavljević, V I Kelemen, D M Filipović, S M Kazakov, V Pejčev, D Šević and B P Marinković, “Elastic scattering of electrons by krypton in the energy range 20–260 eV”, *J. Phys. B: At. Mol. Opt. Phys.* **38** (13) 2195 – 2210 (2005).  
<http://www.iop.org/EJ/abstract/0953-4075/38/13/012>  
<http://stacks.iop.org/0953-4075/38/2195>  
[doi:10.1088/0953-4075/38/13/012](https://doi.org/10.1088/0953-4075/38/13/012)
19. B Predojević, D Šević, V Pejčev, B P Marinković and D M Filipović, “Electron scattering by ytterbium: I. Excitation of the  $4f^{14}6s6p\ ^1P_1$  resonance state and elastic collision”, *J. Phys. B: At. Mol. Opt. Phys.* **38** (8) 1329 – 1340 (2005).  
<http://www.iop.org/EJ/abstract/0953-4075/38/8/019/>  
<http://stacks.iop.org/0953-4075/38/1329>  
[doi:10.1088/0953-4075/38/8/019](https://doi.org/10.1088/0953-4075/38/8/019)
18. A. R. Milosavljević, A. Giuliani, D. Šević, M.-J. Hubin-Franskin and B. P. Marinković, “Elastic scattering of electrons from tetrahydrofuran molecule”, *Eur. Phys. J. D.* **35** (2) 411-416 (2005).  
<http://link.springer.de/link/service/journals/10053/>  
[doi:10.1140/epjd/e2005-00191-8](https://doi.org/10.1140/epjd/e2005-00191-8)  
ISSN: 1434-6060 (Paper) 1434-6079 (Online).
17. A R Milosavljević, D Šević and B P Marinković, Critical minimum in elastic electron scattering by krypton, *J. Phys. B: At. Mol. Opt. Phys.* **37** (24) 4861 – 4868 (2004).  
<http://www.iop.org/EJ/abstract/0953-4075/37/24/011>  
<http://stacks.iop.org/0953-4075/37/4861>  
[doi:10.1088/0953-4075/37/24/011](https://doi.org/10.1088/0953-4075/37/24/011)
16. S Milisavljević, D Šević, V Pejčev, D M Filipović and B P Marinković, Differential and integrated cross sections for the electron excitation of the  $4^1P^0$  state of calcium atom, *J. Phys. B: At. Mol. Opt. Phys.* **37** (18) 3571-3581 (2004).  
<http://www.iop.org/EJ/abstract/0953-4075/37/18/002/>  
<http://stacks.iop.org/0953-4075/37/3571>  
[doi:10.1088/0953-4075/37/18/002](https://doi.org/10.1088/0953-4075/37/18/002)
15. A Milosavljević, S Telega, D Šević, J E Sienkiewicz and B P Marinković, The high – energy critical minimum in elastic electron scattering by argon, *Eur. Phys. J. D.* **29** (3) 329 – 336 (2004).  
<http://www.edpsciences.org/articles/epjd/abs/2004/06/d03183/d03183.html>  
[doi: 10.1140/epjd/e2004-00057-7](https://doi.org/10.1140/epjd/e2004-00057-7)
14. R. Panajotović, D. Šević, V. Pejčev, D. M. Filipović and B. P. Marinković, “The  $^1S - ^1P$  electron excitations of Zn at small scattering angles,” *Int. J. Mass Spectrom.* **233** (1-3) 253 – 257 (2004).  
[doi:10.1016/j.ijms.2003.12.025](https://doi.org/10.1016/j.ijms.2003.12.025)
13. A Milosavljević, S Telega, D Šević, J E Sienkiewicz and B P Marinković, Elastic electron scattering by argon in the vicinity of the high-energy critical minimum, *Rad. Phys. Chem.* **70** (6) 669 – 676 (2004).  
[doi:10.1016/j.radphyschem.2004.01.001](https://doi.org/10.1016/j.radphyschem.2004.01.001)

12. B Predojević, D Šević, V Pejčev, B P Marinković and D M Filipović,  
 “Electron-impact excitation of the  $(n-1)d^p ns^2 np$  autoionising states of cadmium ( $n=5$ ) and zinc ( $n=4$ ),”  
*J. Phys. B: At. Mol. Opt. Phys.* **36** (11) 2371 – 2383 (2003).  
<http://www.iop.org/EJ/abstract/0953-4075/36/11/319>  
<http://stacks.iop.org/0953-4075/36/2371>  
[doi: 10.1088/0953-4075/36/11/319](https://doi.org/10.1088/0953-4075/36/11/319)
11. Dragutin Šević,  
 “On Computing the 2-D FFT,”  
*IEEE transactions on Signal Processing*, Vol. 47, no 5, May 1999, pp. 1428-1431.
10. Jagoš Purić, Dragutin Šević, Milivoje Ćuk,  
 “Analysis of Self-Organizing Phenomena in Plasma focus: Neural Network Approach,”  
*Journal of Plasma and Fusion Research*, vol. 2, pp. 494-497, 1999.
9. R. Antanasijević, J. Vuković, D. Šević, D. Joksimović, A. Dragic, V. Udovičić, J. Purić and M. Cuk,  
 “Angular distribution of positive particles emitted from deuterium plasma focus,”  
*Radiat. Meas.* Vol 28, Nos 1-6, pp. 245-248, 1997.
8. R. Antanasijević, A. Dragic, D. Joksimović, Z. Marić, D. Šević, Z. Todorović and V. Udovičić,  
 “Analysis of hot spots in deuterium plasma focus with the SSNTD,”  
*Radiat. Meas.* Vol 28, Nos 1-6, pp. 241-243, 1997.
7. M. Popović and D. Šević,  
 “Realization of an in-place unscrambler for prime factor algorithm”,  
*Signal Processing*, 46 (1995), pp. 249-252, Fast Communication.
6. D. Šević and M. Popović,  
 “A New Efficient Implementation of the oddly stacked Princen-Bradley Filter Bank”, *IEEE Signal Processing Letters*, Vol. 1. no. 11, pp. 166-168, November 1994.
5. D. Šević and M. Popović,  
 “Improved Implementation of the Princen-Bradley Filter Bank”,  
*IEEE transactions on Signal Processing*, Vol. 42, no. 11, pp. 3260-3261 November 1994.
4. M. Popović and D. Šević,  
 “A New Look at Comparison of the Fast Hartley and Fourier Transform”,  
*IEEE transactions on Signal Processing*, Vol. 42, no. 8. pp. 2178-2182, August 1994.
3. Z. Todorović, R. Antanasijević, D. Šević, A. Zarić, DJ. Konjevic, J. Vuković, J. Purić and M. Cuk,  
 “Discrimination of Positive Particles Emitted in Deuterium Plasma Focus Device Using SSNTD”, *Radiat. Meas.* Vol. 25, Nos 1-4, pp. 265-266, 1995.
2. R. Antanasijević, I. Lakicević, Z. Marić, D. Šević, A. Zarić, J.P. Vigier,  
 “Preliminary observations on possible implications of new Bohr orbits (resulting from electromagnetic spin-spin and spin-orbit coupling) in “cold” quantum mechanical fusion processes appearing in strong “plasma focus” and “capillary fusion” experiments”, *Physics Letters A* Volume 180, number 1,2 pp. 25-32, August 1993.
1. R. Antanasijević, D. Šević, A. Zarić, I. Lakicevic, S. Popović, J. Vuković, Dj. Konjevic, J. Purić and M. Cuk,  
 “Measurement of Fluences and Energies of D<sup>+</sup> Emitted from Plasma Focus in Capacitor Bank Energy Interval of 1-20 kJ”,  
*Nucl. Tracks Radiat. Meas.*, Vol. 22, Nos 1-4, pp. 535-536, 1993.

## National Journals

9. D. Šević, A. Vlasić, M. S. Rabasović, S. Savić-Šević, M. D. Rabasović, Marko G. Nikolić, B. D. Murić, B. P. Marinković, and Janez Križan, “Temperature effects on luminescent properties of  $\text{Sr}_2\text{CeO}_4:\text{Eu}^{3+}$  nanophosphor: a machine learning approach”, *Tehnika* **75**(3) 279-283 (2020) [accepted May 2020, published June 2020]  
[doi: 10.5937/tehnika2003279S](https://doi.org/10.5937/tehnika2003279S)  
ISSN: 0040-2176
8. M. S. Rabasović, S. D. Tošić, V. Pejčev, D. Šević, D. M. Filipović, B. P. Marinković, “Volume correction factor in electron-indium atom scattering experiments”, *Facta Universitatis, Series Phys. Chem. Technol.* **6**, (1), 127 – 139 (2008).  
[DOI 10.2298/FUPCT0801119R](https://doi.org/10.2298/FUPCT0801119R)  
ISSN 0354 – 4656
7. M. Terzić, B. P. Marinković, D. Šević, J. Jureta, A. R. Milosavljević, “Development of time-resolved laser-induced fluorescence spectroscopic technique for the analysis of biomolecules”, *Facta Universitatis, Series Phys. Chem. Technol.* **6**, (1), 105 – 117 (2008).  
[DOI 10.2298/FUPCT0801105T](https://doi.org/10.2298/FUPCT0801105T)  
ISSN 0354 – 4656
6. B. Predojević, D. Šević, V. Pejčev, B. P. Marinković and D. M. Filipović, Electron energy-loss spectroscopy of autoionizing states of zinc, *Serbian Astronomical Journal* **169**, 53 – 58 (2004).  
<http://saj.matf.bg.ac.yu/archive.html>
5. Miodrag Popović and Dragutin Šević, “Subband Coding of Images: Novel Approaches and Some Improvements,” *Facta Universitatis, series: Electronics and Energetics*, Vol. 11, no. 3, pp. 321-343, 1998.
4. R. Antanasijević, T.S. Ceranic, S.V. Ribnikar, A. S. Safranjan, D. Šević, M. M. Vukov, A. Zarić, “A Search for the Element 113 in Nature”, *Bulletin T. CXXII de l’Academie Serbe des Sciences et des Arts - 1996, Classe des sciences mathemataiques et naturelles, Sciences naturelles No 36*, pp. 1-9.
3. D. Šević and M. Popović, “Image Coding using Vector Quantization and Decomposition into 10 Subbands”, *Facta Universitatis, series: Electronics and Energetics*, 7 (1994) pp. 97-103.
2. Dragutin Šević, Jagos Purić, and Aleksandar Zarić, “Analysis of “Plasma focus” Electromagnetic Signals Using Discrete Wavelet Transform and Short Time Fourier Transform,” *Journal of Magnetohydrodynamics and Plasma and Space Research*, vol.10, no 1, 2002 .
1. B. Stojanović, Lj. Sutulović, R. Antanasijević, Dj. Konjević, D. Šević, “Dejstvo svetlosnog bleska na oko i kriterijumi za zastitu,” *Naucno tehnicki pregled*, no. IV, str 114, 1994.

## Invited Talks at International Conferences

11. **A. R. Milosavljević**, J. Jureta, Gy. Víkor, Z. D. Pešić, D. Šević, M. Mátéfi-Tempfli, S. Mátéfi-Tempfli, and B. P. Marinković, “Guiding of low-energy electrons by  $\text{Al}_2\text{O}_3$  nanocapillaries”, *Proc. XXVII ICPEAC11 International Conference on Photonic, Electronic and Atomic Collisions*, 27 July - 2 August 2011, Belfast, United Kingdom, Progress Report.

Acknowledgements: MES Serbia (# 141011), and the Interuniversity Attraction Pole Pro-gram (P6/42) - Belgian Science Policy.

10. (M32=1.5) “Electron collision cross section data base: from Hveragerði 2007 to Trieste 2009”  
B. P. Marinković, V. Bočvarski, N. Nikolić, Dj. Lazović, D. Šević, G. García, and N. J. Mason,  
*Proc. EIPAM09/PEIC, Joint EU – Australia Meeting 2009 and The Fifth Annual Meeting of ESF Programme on ‘Electron Induced Processing at the Molecular Level’ (EIPAM09), 12 – 16 Oct. 2009, Trieste, Italy, Invited Lecture.*

<http://www.isa.au.dk/meetings/eipam09/programme.html>

9. (M32=1.5) “Measurements of Electron Interactions with Metal Vapour Atoms”,  
B. P. Marinković, S. D. Tošić, M. S. Rabasović, D. Šević, V. Pejčev, B. Predojević and D. M. Filipović,  
*Proc. 2<sup>nd</sup> Meeting on Electron Controlled Chemical Lithography (ECCL 2009), 4<sup>th</sup> – 9<sup>th</sup> June 2009, Sabani Üniversitesi, Istanbul, Turkey, Abstract Booklet, Oral Presentation, p.34.*

<http://www.isa.au.dk/meetings/eccl09/>

8. IT2. (M32=1.5) “Energy and angular distributions of electrons transmitted through Al<sub>2</sub>O<sub>3</sub> nanocapillaries”,  
A. R. Milosavljević, J. Jureta, Gy. Víkor, Z. D. Pešić, D. Šević, S. Mátéfi-Tempfli, M. Mátéfi-Tempfli and B. P. Marinković,

Invited oral presentation at The 2<sup>nd</sup> Symposium on Ion-Insulator-Interactions (S3I), 20<sup>th</sup> and 21<sup>st</sup> May 2009, Girona, Spain.

<http://www.its-leif.org/events/4AM/index.html>

7. (M32=1.5) “Low-Energy Electron Transport Through High Aspect Ratio Al<sub>2</sub>O<sub>3</sub> Nanocapillaries”,  
A. R. Milosavljević, J. Jureta, Gy. Víkor, Z. D. Pešić, D. Šević, S. Mátéfi-Tempfli, M. Mátéfi-Tempfli, B. P. Marinković,

*Proc. 17<sup>th</sup> Symp. on Appl. of Plasma Processes (SAPP), January 17 – 22, (2009) Liptovský Ján, Slovakia, Book of Contributed Papers,*

Eds. P. Papp, J. Országh, J. Matúška, Š. Matejčík, Progress Report, PR10-p.103.

<http://neon.dpp.fmph.uniba.sk/sapp/base.php?stranka=Home>

6. “Electron interaction with DNA and deoxyribose analogues”,

A. R. Milosavljević, D. Šević and B. P. Marinković,

*Proc. Conference on Radiation Damage in Biomolecular Systems (RADAM) EU/ESF COST Action P9, Invited Lecture, 19<sup>th</sup> - 22<sup>nd</sup> June 2007, The Royal College of Surgeons, Dublin, Ireland.*

<http://www.isa.au.dk/networks/cost/radam07/programme.html>

Published in *Journal of Physics: Conference Series*, **101**, 012014 (2008).

<http://www.iop.org/EJ/abstract/1742-6596/101/1/012014>

5. “Cross section data for electron collisions in plasma physics”,

B. P. Marinković, V. Pejčev, D. M. Filipović, D. Šević, A. R. Milosavljević, S. Milisavljević, M. S. Rabasović, D. Pavlović and J. B. Maljković,

*Proc. 5th EU-Japan Joint Symposium on Plasma Processing (Radicals and Non-Equilibrium Processes in Low-Temperature Plasmas), 7-9.03.2007*

Belgrade, Serbia, Abstracts of Invited Lectures, Progress Reports and Contributed Papers, Eds. Z. Lj. Petrović, N. Mason, S. Hamaguchi,

M. Radmilović-Radjenović, (Serbian Academy of Sciences and Arts, Institute of Physics: Belgrade, 2007) Invited Lecture p.I-12.

<http://www.euj07.phy.bg.ac.yu/>

Published in *Journal of Physics: Conference Series*, **86**, 012006 (2007).

<http://www.iop.org/EJ/abstract/1742-6596/86/1/012006>

4. “Low Energy Interactions with Bio-Molecules”,

B. P. Marinković, D. M. Filipović, V. Pejčev, D. Šević, A. R. Milosavljević, D. Pavlović, S. Milisavljević, P. Kolarž and M. Pardjovska,

*Proc. XXIV ICPEAC Int. Conf. Photonic, Electronic and Atomic Collisions, 20 – 26 July, 2005, Progress Report, Rosario, Argentina.*

Published in *Photonic, Electronic and Atomic Collisions*, Eds. P D Fainstein, M A P Lima, J E Miraglia, E C Montenegro and R D Rivarola,

World Scientific 2006, pp. 336 – 342, ISBN 981-270-412-4.

[http://www.icpeac2005.cnea.gov.ar/rep\\_lp.shtml](http://www.icpeac2005.cnea.gov.ar/rep_lp.shtml)

<http://www.worldscibooks.com/physics/6329.html>

3. Miodrag Popović and Dragutin Šević, Subband Coding of Images: Novel Approaches and Some Improvements,  
in Proc. 3rd International Conference Telsiks '97, pp. 138-147, Nis 8-10. October 1997.

2. A. Zarić and D. Šević, Neutron Emission Detection in Plasma Focus and Capillary Fusion Experiments,  
16. SPIG, Beograd, 25-28.9.1993, poglavlje u knjizi: Low Temperature and  
General Plasmas, Nova Science Publishers, Inc. 1996, pp. 127-144, takodje u casopisu:  
Journal of Magnetohydrodynamics and Plasma Research, Vol. 7, no 1, pp. 53-70, 1997.

1. R. Antanasijević, Dj. Konjevic, Z. Marić, D. Šević, J.P. Vigier, and A. Zarić,  
Cold Fusion in Terms of New Quantum Chemistry: The Role Of Magnetic Interactions In  
Dense Phisica Media,  
in Proceedings of the 5th International Conference on Cold Fusion, pp. 505-522,  
Monte-Carlo, Monaco 9-13 April 1995.

### **Invited Talks at International Conferences (abstracts)**

9. (M32=1.5) “Current research on electron interactions relevant to modelling of radiation damage processes”,  
Bratislav P. Marinković, Aleksandar R. Milosavljević and Dragutin Šević,  
*Proc. 7<sup>th</sup> Int. Conf. on RAdiation Damage in Biomolecular Systems – RADAM 2010*, 30<sup>th</sup> June – 4<sup>th</sup> July 2010  
Madrid, Spain, p.39.

<http://www.uned.es/074150/radam10>

Acknowledgements: grant 141011 as well as EU/ESF COST CM0601 “Electron Controlled Chemical  
Lithography” (ECCL)

The invitation letter: [here](#)

8. “Low-Energy Electron Transport Through High Aspect Ratio Al<sub>2</sub>O<sub>3</sub> Nanocapillaries”,  
A. R. Milosavljević, J. Jureta, Gy. Víkor, Z. D. Pešić, D. Šević, S. Mátéfi-Tempfli, M. Mátéfi-Tempfli,  
B. P. Marinković,

*Proc. 17<sup>th</sup> Symp.on Appl. of Plasma Processes (SAPP)*, January 17 – 22, (2009) Liptovský Ján, Slovakia,  
Book of Contributed Papers, Eds. P. Papp, J. Országh, J. Matúška, Š. Matejčík, Progres Report, PR10-p.103.

<http://neon.dpp.fmph.uniba.sk/sapp/base.php?stranka=Home>

7. “Transmission of low-energy electrons through insulating nanocapillaries”,  
A. R. Milosavljević, J. Jureta, Gy. Víkor, Z. D. Pešić, D. Šević, S. Mátéfi-Tempfli, M. Mátéfi-Tempfli,  
B. P. Marinković,

Research Conference, ESF-FWF Conference in Partnership with LFUI, "Chemical Control with Electrons and  
Photons", Chairs: P. Swiderek and N. J. Mason, 22-27 November, 2008, Oberurgl, Austria, Short Talk.

<http://www.esf.org/conferences/08261>

6. “Guiding of low-energy electrons through insulating nanocapillaries”,  
A. R. Milosavljević, J. Jureta, Gy. Víkor, Z. D. Pešić, P. Kolarž, D. Šević, S. Mátéfi-Tempfli, M. Mátéfi-  
Tempfli, L. Piraux and B. P. Marinković,

Proc. 1<sup>st</sup> annual conference on *Electron Controlled Chemical Lithography* (ECCL), COST Action CM0601,  
12-16. 03. 2008, Lisbon, Portugal, Eds. O. Ingólfsson and P. Limão-Vieira, Invited talk, p.23

<http://www.isa.au.dk/meetings/eccl08/>

5. “Electron collision cross section data base”,  
B. P. Marinković, G. García, D.Šević and N. J. Mason,

*Proc. Third Annual Meeting of ESF Programme on Electron Induced Processing at the Molecular Level* (EIPAM 07) Hveragerdi, Iceland, 25-29 May 2007. Eds. N J Mason and O Ingólfsson, Invited Talk No.6.

<http://theochem.org/eipam07/program.html>

4. “Elastic electron scattering by amino acids: glycine and alanine”,  
B. P. Marinković, F. Blanco, V. Pejčev, D. M. Filipović, G. García, D. Šević, D. Pavlović and N. J. Mason,  
*Proc. EIPAM06 Second Annual Meeting of ESF Programme on “Electron Induced Processing at the Molecular Level”*, Valletta, Malta, 16-20 Sept. 2006 Invited Lecture.

<http://theochem.org/eipam07/program.html>

3. “Electron collisions by metal atom vapours”,  
B.P. Marinković, D.M. Filipović, V. Pejčev, D. Šević, S. Milisavljević, B. Predojević, M. Pardjovska,  
Progress Report at CEPAS 2005 Conference (3rd Conf. on Elementary Processes in Atomic Systems), 31  
Aug. - 2 Sept. 2005. University of Miskolc, Hungary, Book of Abstracts I-19.

<http://www.uni-miskolc.hu/cepas2005/>

2. “Electron Scattering by THF Molecule”,  
A. R. Milosavljević, A. Giuliane, D. Šević, M.-J. Hubin-Franskin and B. P. Marinković,  
in Abstracts of *First Workshop of the ESF Programme, Electron Induced Processing at the Molecular Level*  
(EIPAM), April 19 – 20, 2005, Milton Keynes, Open University, U.K., Abstract p25.

<http://www.isa.au.dk/eipam/>

1. Electron Interaction with Small and “Little Larger” Molecules,  
B. P. Marinković, D. M. Filipović, J. Jureta, V. Pejčev, D. Šević, M.-J. Hubin-Franskin, A. Giuliani, A. R.  
Milosavljević, P. Kolarž, S. Milisavljević, M. Pardjovska, D. Pavlović and N. J. Mason,  
in Abstracts of *RADAM Conference (RADiation DAMage in Biomolecular Systems)*, June 24 – 27, 2004,  
Lyon, France, Working – Group invited talk, COST action P9, Ed. M. Farizon, Abstract S1\_2.

## Contributed Papers at International Conferences

55. D. Sevic, M. S. Rabasovic, P. Gregorčič, M. D. Rabasovic and B. P. Marinkovic,  
“Principal Components Analysis of Printed Circuit Board LIBS Data”,  
*Proc. 30<sup>th</sup> Summer School and International Symposium on the Physics of Ionized Gases* (SPIG2020), August  
24 – 28, 2020, Šabac, Serbia, Contributed Papers & Abstracts Of Invited Lectures, Topical Invited Lectures  
and Progress Reports, Editors: Luka Č. Popović, Duško Borka, Dragana Ilić and Vladimir Srećković, (Faculty  
of Mathematics - Dept. of Astronomy, Astronomical Observatory of Belgrade, Institute of Physics -  
University of Belgrade, Belgrade, 2020) Contributed Paper, pp.117-120.

*Publ. Astron. Obs. Belgrade* No. **99**, 117-120 (2020).

<http://spig2020.ipb.ac.rs/Spig2020-Book-Online.pdf>

ISSN: 0373-3742

ISBN 978-86-80019-94-9

54. M. S. Rabasovic, M. D. Rabasovic, B. P. Marinkovic and D. Sevic,  
“Spatial Measurements of Laser-Induced Breakdown in Air”,  
*Proc. 29<sup>th</sup> Summer School and Int. Symp. on the Physics of Ionized Gases* (SPIG2018), Aug. 28 - Sep. 1,  
2018, Belgrade, Serbia, Contributed Papers & Abstracts of Invited Lectures, Topical Invited Lectures,  
Progress Reports and Workshop Lectures Editors: Goran Poparić, Bratislav Obradović, Duško Borka and  
Milan Rajković (Vinča Institute of Nuclear Sciences and Serbian Academy of Sciences and Arts, Belgrade,  
2018). Contributed Paper, pp.174-177.

ISBN 978-86-7306-146-7

<http://www.spig2018.ipb.ac.rs/SPIG2018-book-online.pdf>

53 S. D. Tošić, V. Pejčev, D. Šević, B. P. Marinković, R. P. McEachran and A.D. Stauffer,  
“Excitation of silver by electron impact”,  
*Proc. XXVII ICPEAC11 International Conference on Photonic, Electronic and Atomic Collisions*, 27 July - 2  
August 2011, Belfast, United Kingdom, Poster presentation We015.

52. B Predojević, V Pejčev, D Šević, S Lekić, R. Srivastava, A. Stauffer, B P Marinković,  
“Electron impact excitation of rubidium”,  
*Proc. XXVII ICPEAC11 International Conference on Photonic, Electronic and Atomic Collisions*, 27 July - 2 August 2011, Belfast, United Kingdom, Poster presentation Fr007.

51. (M33=1) M. Terzic, M.S. Rabasovic, D. Sevic and B.P. Marinkovic,  
“Application of time resolved laser-induced fluorescence measurements and laser induced breakdown spectroscopy for analysis of environmental contaminants”,  
*Proc. The 11<sup>th</sup> European Meeting on Environmental Chemistry*, Portoroz, Slovenia, 8-11 December 2010, Poster Section: S1-Analytical Methods and Monitoring, Poster No.S151-P  
<http://sabotin.ung.si/~EMEC11/program.html>

50. (M33=1) Maja Rabasović, Dragutin Šević, Mira Terzić and Bratislav Marinković,  
“Detecting indium in electric waste using laser induced breakdown spectroscopy”,  
*Proc. 25<sup>th</sup> Summer School and International Symposium on Physics of Ionized Gases SPIG*, 30<sup>th</sup> Aug – 4<sup>th</sup> Sept. 2010, Donji Milanovac, Serbia, Book of Contributed Papers and Abstracts of Invited Lectures, Topical Invited Lectures and Progress Reports, editors: L. Č. Popović and M. M. Kuraica, ISBN 978-86-80019-37-6, *Publ. Astron. Obs. Belgrade* No. 89, July 2010, ISSN: 0373-3742 pp. 229 – 232.  
Acknowledgements: grant 141011.

49. (M33=1) Aleksandar R. Milosavljević, Jelena B. Maljković, Dragutin Šević, Iztok Čadež and Bratislav P. Marinković,  
“Measurement of kinetic energy distribution of positive ions from electron induced dissociation of pyrimidine molecule”,  
*Proc. 25<sup>th</sup> Summer School and International Symposium on Physics of Ionized Gases SPIG*, 30<sup>th</sup> Aug – 4<sup>th</sup> Sept. 2010, Donji Milanovac, Serbia, Book of Contributed Papers and Abstracts of Invited Lectures, Topical Invited Lectures and Progress Reports, editors: L. Č. Popović and M. M. Kuraica, ISBN 978-86-80019-37-6, *Publ. Astron. Obs. Belgrade* No. 89, July 2010, ISSN: 0373-3742 pp. 37 – 40.  
Acknowledgements: grant 141011 as well as the project of bilateral scientific collaboration between Serbia and Slovenia 2008-2009 (“Electron induced fragmentation of organic molecules and small hydrocarbons”).

48. (M33=1) Jelena B. Maljković, Aleksandar R. Milosavljević, Zoran Pešić, F. Blanco, G. García, Dragutin Šević and Bratislav P. Marinković,  
“Absolute differential cross section for elastic electron scattering from halothane at 100eV  
*Proc. 25<sup>th</sup> Summer School and International Symposium on Physics of Ionized Gases SPIG*, 30<sup>th</sup> Aug – 4<sup>th</sup> Sept. 2010, Donji Milanovac, Serbia, Book of Contributed Papers and Abstracts of Invited Lectures, Topical Invited Lectures and Progress Reports, editors: L. Č. Popović and M. M. Kuraica, ISBN 978-86-80019-37-6, *Publ. Astron. Obs. Belgrade* No. 89, July 2010, ISSN: 0373-3742 pp. 33 – 36.  
Acknowledgements: grant 141011 as well as EU/ESF COST CM0601 “Electron Controlled Chemical Lithography” (ECCL), and MP1002 “Nano-scale insights in ion beam cancer therapy” (Nano-IBCT)

47. C17. (M33=1) Maja Rabasović, Dragutin Šević, Mira Terzić, Bratislav P. Marinković,  
“Development and testing of laser induced breakdown spectroscopy technique”,  
*Proc. XX European Conf. on the Atomic and Molecular Physics of Ionized Gases (XX ESCAMPIG)*, 13 – 17 July 2010, Novi Sad, Serbia, European Conference Abstracts Vol. 34B editors: Zoran Lj. Petrovic, Gordana Malovic and Dragana Maric, ISBN: 2-914771-63-0, Poster contribution P3.52  
<http://www.escampig2010.ipb.ac.rs/?page=c03p3>  
<http://www.escampig2010.ipb.ac.rs/papers/P3.52.pdf>  
Acknowledgements: MSTD grant 141011 as well as EU/ESF COST FA0906 “UV-B radiation: A specific regulator of plant growth and food quality in a changing climate” (UV4growth)

46. C16. (M33=1) Bratislav P. Marinković, Vladimir I. Kelemen, Vladimir Pejčev, Dragutin Šević, Milos Krunić, Branko A. Petrushevski, Evgenij Yu. Remeta and †Dušan M. Filipović,  
“Experimental and theoretical study of differential cross sections for elastic electron scattering by Sb atom”,  
*Proc. XX European Conf. on the Atomic and Molecular Physics of Ionized Gases (XX ESCAMPIG)* and Workshop: “Atomic and Molecular Collision Data for Plasma Modelling”, 13 – 17 July 2010, Novi Sad,



Serbia, European Conference Abstracts Vol. 34B editors: Zoran Lj. Petrovic, Gordana Malovic and Dragana Maric, ISBN: 2-914771-63-0, Poster contribution WAM\_P1.68

<http://www.escampig2010.ipb.ac.rs/?page=c03p1>

[http://www.escampig2010.ipb.ac.rs/papers/WAM\\_P1.68.pdf](http://www.escampig2010.ipb.ac.rs/papers/WAM_P1.68.pdf)

Acknowledgements: MSTD grant 141011 as well as EU/ESF COST FA0906 “UV-B radiation: A specific regulator of plant growth and food quality in a changing climate” (UV4growth)

45. (M34=0,5) S. D. Tošić, D. Šević, V. Pejčev, D. M. Filipović, B. P. Marinković,  
“Electron scattering by Ag atom at small scattering angles”,

*Proc. 10<sup>th</sup> European Conf. on Atoms, Molecules, and Photons – ECAMP X*, 4 – 9 July 2010, Salamanca, Spain, European Conference Abstracts, editors: Fernando Martin, Gustavo García, Luis Roso and Paulo Limão-Vieira, Poster contribution P065.

<http://www.ecamp10.com/>

44. (M34=0,5) B. P. Marinković, B. Predojević, V. Pejčev, D. Šević, D. M. Filipović,  
“Electron impact excitation of the 3s3p <sup>3</sup>P state of magnesium atom”

*Proc. 10<sup>th</sup> European Conf. on Atoms, Molecules, and Photons – ECAMP X*, 4 – 9 July 2010, Salamanca, Spain, European Conference Abstracts, editors: Fernando Martin, Gustavo García, Luis Roso and Paulo Limão-Vieira, Poster contribution P052.

<http://www.ecamp10.com/>

Acknowledgements: MSTD grant 141011; MST 06/0-020/961-33/06; EU/ESF COST MP1002 “Nanoscale Insights into Ion Beam Cancer Therapy” (Nano-IBCT)

43. (M34=0,5) Branko A. Petruševski, Dragutin Šević and Bratislav P. Marinković,

“User-friendly software for resolving some of the parameters in electron spectrometry experiments: scattering volume correction factor and metal vapour pressure curves”,

*Proc. 7<sup>th</sup> Int. Conf. on Radiation Damage in Biomolecular Systems – RADAM 2010* 30<sup>th</sup> June – 4<sup>th</sup> July 2010 Madrid, Spain, p.86.

<http://www.uned.es/074150/radam10>

Acknowledgements: MSTD grant 141011 as well as EU/ESF COST CM0601 “Electron Controlled Chemical Lithography” (ECCL)

42. (M34=0,5) M. Terzić, M. S. Rabasović, D. Šević, S. Savić Šević, B. Murić, D. Pantelić, B. P. Marinković,  
“Measurement of Laser-Induced Fluorescence of Optical Materials Using a Time-Resolved Spectrometer”,

*Proc. 2<sup>nd</sup> International Conference on Physics of Optical Materials and Devices (ICOM 2009)*, 27 – 30th August, Hotel Plaža, Herceg Novi, Montenegro, Book of Abstracts, Eds. M. Dramićanin and B. Viana, (Vinča INS, Belgrade, 2009), ISBN: 978-86-7306-102-3, Poster P2-14, p.129.

<http://icomonline.org/>

41. (M34=0,5) Dragutin Šević, Svetlana Savić Šević, Dejan Pantelić, Bratislav Marinković,  
“Application of Fourier-Padé Approximation in Analysis of Materials for Optical Applications”,

*Proc. 2<sup>nd</sup> International Conference on Physics of Optical Materials and Devices (ICOM 2009)*, 27 – 30th August, Hotel Plaža, Herceg Novi, Montenegro, Book of Abstracts, Eds. M. Dramićanin and B. Viana, (Vinča INS, Belgrade, 2009), ISBN: 978-86-7306-102-3, Poster P1-62, p.128.

<http://icomonline.org/>

40. (M34=0,5) B. A. Petruševski, M. Terzić, M. S. Rabasović, D. Šević, S. Savić Šević, B. Murić, D. Pantelić,  
and B. P. Marinković,

“Measurement of Laser-Induced Fluorescence of Molecules Using a Time-Resolved Spectrometer”,

*Proc. 2<sup>nd</sup> Meeting on Electron Controlled Chemical Lithography (ECCL 2009)*, 4<sup>th</sup> – 9<sup>th</sup> June 2009, Sabam Üniversitesi, Istanbul, Turkey, Abstract Booklet, Poster Presentation, p.91.

39. A. R. Milosavljević, J. Jureta, Gy. Viktor, Z. D. Pešić, D. Šević, S. Mátéfi-Tempfli, M. Mátéfi-Tempfli and B. P. Marinković,

“Transmission of electrons through Al<sub>2</sub>O<sub>3</sub> nanocapillaries in the energy range 2-120 eV”,

*Proc. 24<sup>th</sup> Symposium on Physics of Ionized Gases – SPIG'2008*, Contributed Papers and Abstracts of Invited Lectures, Topical Invited Lectures and Progress Reports, 25 – 29 August 2008, Novi Sad, Serbia, Eds. G. Malović, L. Č. Popović and M. S. Dimitrijević (Belgrade, Astronomical Observatory) Publ. Astron. Obs. Belgrade, No. 84, July 2008, Contributed Paper, pp. 189 – 192.

38. D. Šević, A. R. Milosavljević, I. Čadež and B. P. Marinković,  
“SELE HEM: Adjusting the parameters”,

*Proc. 24<sup>th</sup> Symposium on Physics of Ionized Gases – SPIG'2008*, Contributed Papers and Abstracts of Invited Lectures, Topical Invited Lectures and Progress Reports, 25 – 29 August 2008, Novi Sad, Serbia, Eds. G. Malović, L. Č. Popović and M. S. Dimitrijević (Belgrade, Astronomical Observatory) Publ. Astron. Obs. Belgrade, No. 84, July 2008, Contributed Paper, pp. 107 – 110.

37. B. Predojević, D. Šević, V. Pejčev, D. M. Filipović and B. P. Marinković,  
“Electron impact excitation of ytterbium”,

*Proc. 24<sup>th</sup> Symposium on Physics of Ionized Gases – SPIG'2008*, Contributed Papers and Abstracts of Invited Lectures, Topical Invited Lectures and Progress Reports, 25 – 29 August 2008, Novi Sad, Serbia, Eds. G. Malović, L. Č. Popović and M. S. Dimitrijević (Belgrade, Astronomical Observatory) Publ. Astron. Obs. Belgrade, No. 84, July 2008, Contributed Paper, pp. 49 – 52.

36. S. D. Tošić, D. Šević, V. Pejčev, D. M. Filipović and B. P. Marinković,  
“Electron impact excitation of Ag atom: energy-loss spectroscopy”,

*Proc. 24<sup>th</sup> Symposium on Physics of Ionized Gases – SPIG'2008*, Contributed Papers and Abstracts of Invited Lectures, Topical Invited Lectures and Progress Reports, 25 – 29 August 2008, Novi Sad, Serbia, Eds. G. Malović, L. Č. Popović and M. S. Dimitrijević (Belgrade, Astronomical Observatory) Publ. Astron. Obs. Belgrade, No. 84, July 2008, Contributed Paper, pp. 45 – 48.

35. J. Maljković, A. R. Milosavljević, D. Šević and B. P. Marinković,

“Relative angle-differential cross sections for elastic electron scattering from pyrimidine”,

*Proc. 24<sup>th</sup> Symposium on Physics of Ionized Gases – SPIG'2008*, Contributed Papers and Abstracts of Invited Lectures, Topical Invited Lectures and Progress Reports, 25 – 29 August 2008, Novi Sad, Serbia, Eds. G. Malović, L. Č. Popović and M. S. Dimitrijević (Belgrade, Astronomical Observatory) Publ. Astron. Obs. Belgrade, No. 84, July 2008, Contributed Paper, pp. 45 – 48.

34. Transmission of 50-200 eV Electrons through Highly Ordered Al<sub>2</sub>O<sub>3</sub> Nanocapillaries,

A. R. Milosavljević, Z. D. Pešić, D. Šević, S. Matefi-Tempfli, M. Matefi-Tempfli, L. Piraux, Gy. Viktor, B. P. Marinković,

*Proc. 23<sup>rd</sup> Symposium on Physics of Ionized Gases – SPIG'2006*, Contributed Papers and Abstracts of Invited Lectures, Topical Invited Lectures and Progress Reports, 28 August – 1 September 2006, Kopaonik, Serbia, Eds. N. Simonović, B. P. Marinković and Lj. Hadžievski (Belgrade, Institute of Physics) Contributed Paper 2P02, pp. 167 – 170.

33. A Comparison of Practical Systems for Producing a Uniform Magnetic Field for Electron Scattering Experiments,

B. P. Marinković, A. R. Milosavljević, Darko Marušnik, D. Šević,

*Proc. 23<sup>rd</sup> Symposium on Physics of Ionized Gases – SPIG'2006*, Contributed Papers and Abstracts of Invited Lectures, Topical Invited Lectures and Progress Reports, 28 August – 1 September 2006, Kopaonik, Serbia, Eds. N. Simonović, B. P. Marinković and Lj. Hadžievski (Belgrade, Institute of Physics) Contributed Paper 1P19, pp. 97 – 100.

32. Differential Cross Section for Elastic Electron Scattering by In Atom,

M. Pardjovska, S. Milisavljevic, V. Pejcev, D. Sevic, D. M. Filipovic, B. P. Marinkovic, V. I. Kelemen, E. Yu. Remeta and E. P. Sabad,

*Proc. 23<sup>rd</sup> Symposium on Physics of Ionized Gases – SPIG'2006*, Contributed Papers and Abstracts of Invited Lectures, Topical Invited Lectures and Progress Reports, 28 August – 1 September 2006, Kopaonik, Serbia, Eds. N. Simonović, B. P. Marinković and Lj. Hadžievski (Belgrade, Institute of Physics) Contributed Paper 1P13, pp. 71 – 74.

31. Elastic Electron Scattering by Alanine,  
D. Pavlović, D.M. Filipović, V. Pejčev, D. Šević and B.P. Marinković,  
*Proc. 23<sup>rd</sup> Symposium on Physics of Ionized Gases – SPIG’2006*, Contributed Papers and Abstracts of Invited Lectures, Topical Invited Lectures and Progress Reports, 28 August – 1 September 2006, Kopaonik, Serbia, Eds. N. Simonović, B. P. Marinković and Lj. Hadžievski (Belgrade, Institute of Physics) Contributed Paper 1P12, pp. 67 – 70.

30. Electron Impact Excitation of the  $6p7s\ ^3P_1$  State of Pb Atom at Small Scattering Angles: Generalized Oscillator Strengths,  
S. Milisavljević, M. Pardjovska, D. Šević, V. Pejčev, D. M. Filipović and B. P. Marinković  
*Proc. 23<sup>rd</sup> Symposium on Physics of Ionized Gases – SPIG’2006*, Contributed Papers and Abstracts of Invited Lectures, Topical Invited Lectures and Progress Reports, 28 August – 1 September 2006, Kopaonik, Serbia, Eds. N. Simonović, B. P. Marinković and Lj. Hadžievski (Belgrade, Institute of Physics) Contributed Paper 1P09, pp. 55 – 58.

29. Energy and Angular Distributions of Positive Ions from Electron Induced Dissociative Ionization of DNA Deoxyribose Analogue Molecules,  
A. R. Milosavljević, D. Šević, I. Čadež, and B. P. Marinković  
*Proc. 23<sup>rd</sup> Symposium on Physics of Ionized Gases – SPIG’2006*, Contributed Papers and Abstracts of Invited Lectures, Topical Invited Lectures and Progress Reports, 28 August – 1 September 2006, Kopaonik, Serbia, Eds. N. Simonović, B. P. Marinković and Lj. Hadžievski (Belgrade, Institute of Physics) Contributed Paper 1P06, pp. 41 – 44.

28. Electron-impact excitation of the  $(4f^{14} 6s6p)\ ^1P_1$  level in Ytterbium,  
B. Predojević, D. Šević, V. Pejčev, B.P. Marinković and D.M. Filipović,  
*Proc. 22<sup>nd</sup> Symposium on Physics of Ionized Gases – SPIG’2004*, Contributed Papers and Abstracts of Invited Lectures, Topical Invited Lectures and Progress Reports, 23-27 August 2004, National Park Tara, Bajna Bašta, Serbia and Montenegro, Ed. Ljupco Hadžievski (Belgrade, Vinča Institute of Nuclear Sciences) Contributed Paper, pp. 65 – 68.  
<http://www.vin.bg.ac.yu/spig2004/>

27. Differential Cross Section for Elastic Electron Scattering by Pb Atom  
S. Milisavljević, M. Pardovska, D. Šević, V. Pejčev, D.M. Filipović and B.P. Marinković,  
*Proc. 22<sup>nd</sup> Symposium on Physics of Ionized Gases – SPIG’2004*, Contributed Papers and Abstracts of Invited Lectures, Topical Invited Lectures and Progress Reports, 23-27 August 2004, National Park Tara, Bajna Bašta, Serbia and Montenegro, Ed. Ljupco Hadžievski (Belgrade, Vinča Institute of Nuclear Sciences) Contributed Paper, pp. 73 – 75.  
<http://www.vin.bg.ac.yu/spig2004/>

26. Uniformity of the Magnetic Field of CTEM and Its Optimization,  
M. Pardovska, D. Šević, and B.P. Marinković,  
*Proc. 22<sup>nd</sup> Symposium on Physics of Ionized Gases – SPIG’2004*, Contributed Papers and Abstracts of Invited Lectures, Topical Invited Lectures and Progress Reports, 23-27 August 2004, National Park Tara, Bajna Bašta, Serbia and Montenegro, Ed. Ljupco Hadžievski (Belgrade, Vinča Institute of Nuclear Sciences) Contributed Paper, pp. 77 – 80.  
<http://www.vin.bg.ac.yu/spig2004/>

25. A. R. Milosavljević, D. Šević, D. M. Filipović and B. P. Marinković,  
“The consistent data set of angular and energy dependent DCS for elastic electron-argon scattering in the vicinity of critical points,”  
Proc. of the Fifth Gen. Conf. of Balkan Physical Union BPU-5, Vrnjčka banja, Serbia and Montenegro, August 25-29, 2003, Eds. S. Jokic, I. Milošević, A. Balaz and Z. Nikolic, (Belgrade: Serbian Physical Society) CD-ROM Abstract SO04 - 001

24. S. Tošić, D. Šević, V. Pejčev, D. M. Filipović and B. P. Marinković,  
“Differential crosssections for inelastic electron scattering by calcium atom,”

Proc. of the Fifth Gen. Conf. of Balkan Physical Union BPU-5, Vrnjčka banja, Serbia and Montenegro, August 25 -

29, 2003, Eds. S. Jokic, I. Milošević, A. Balaz and Z. Nikolic, (Belgrade: Serbian Physical Society) CD-ROM Abstract SO04 - 002

23. A. R. Milosavljević, D. Šević and B. P. Marinković

“The investigation of focal properties of four-cylinder electrostatic lenses by simulations in the SIMION program,”

Proc. Of the Fifth Gen. Conf. of Balkan Physical Union BPU-5, Vrnjčka banja, Serbia and Montenegro, August 25 - 29, 2003, Eds. S. Jokic, I. Milošević, A. Balaz and Z. Nikolic, (Belgrade: Serbian Physical Society) CD-ROM Abstract SP04 - 014

22. B. Predojević, D. Šević, V. Pejčev, B.P. Marinković and D.M. Filipović

“Electron energy-loss spectra of the  $(n-1)d9ns2np$  autoionising states of Cd ( $n=5$ ) and Zn ( $n=4$ ),” Proc 23rd ICPEAC 2003, Stockholm, Abstract of Contributed Paper, Mo083.

21. A. Milosavljević, S. Telega, D Šević, J. E. Sienkiewicz and B. P. Marinković,

“The third critical minimum in elastic electron-argon scattering,” Proc 23rd ICPEAC 2003, Stockholm, Abstract of Contributed Paper, Mo058

20. A. Milosavljević, D. Šević and B. P. Marinković,

“The energy dependent differential cross sections for elastic electron-argon scattering,” Proc 23rd ICPEAC 2003,

Stockholm, Abstract of Contributed Paper, Mo057.

19. S. Tošić, D. Šević, V. Pejčev, D. M. Filipović and B. P. Marinković

“Generalized oscillator strengths for electron scattering by Ca atom at small angles,” Proc 23rd ICPEAC 2003,

Stockholm, Abstract of Contributed Paper Tu050.

18. A.R.Milosavljević, D. Šević and B.P.Marinković,

“Differential cross sections for elastic electron scattering by argon in the energy range of the third critical minimum,”

Proc. 21<sup>st</sup> SPIG, Contributed Papers and Abstracts of Invited Lectures, Topical Invited Lectures and Progress Reports, 26-30 August 2002, Soko Banja, Yugoslavia, Eds. M.K.Radović and M.S.Jovanović (Dept. of Physics, Faculty of Sciences and Mathematics, Univ. of Nis) Contributed Paper, p.33-36

17. S.Tošić, D.Šević, V.Pejčev, D.M.Filipović and B.P.Marinković,

“Differential cross sections for elastic electron scattering by Ca atom,” Proc. 21st SPIG, Contributed Papers and

Abstracts of Invited Lectures, Topical Invited Lectures and Progress Reports, 26-30 August 2002, Soko Banja, Yugoslavia, Eds. M.K.Radović and M.S.Jovanović (Dept. of Physics, Faculty of Sciences and Mathematics, Univ. of Nis) Contributed Paper, p.26-29

16. A.R.Milosavljević, D. Šević and B.P.Marinković,

“Investigation of transmission of four-element analyzer electron lenses on the apparatus 'UGRA' by simulations in the 'SIMION'

program,” Proc. 21st SPIG, Contributed Papers and Abstracts of Invited Lectures, Topical Invited Lectures and Progress Reports, 26-30 August 2002, Soko Banja, Yugoslavia, Eds. M.K.Radović and M.S.Jovanović (Dept. of Physics, Faculty of Sciences and Mathematics, Univ. of Nis) Contributed Paper, p.22-25.

15. B.Predojević, D. Šević, V.Pejčev, B.P.Marinković and D.M.Filipović,

“Decomposition of lines in electron autoionizing spectra of Zn.” Proc. 21st SPIG, Contributed Papers and Abstracts of Invited Lectures, Topical Invited Lectures and Progress Reports, 26-30 August 2002, Soko Banja, Yugoslavia, Eds. M.K.Radović and M.S.Jovanović (Dept. of Physics,

Faculty of Sciences and Mathematics, Univ. of Nis) Contributed Paper, p.18-21

14. Panajotović, R., Šević, D., Pejčev, V., Marinković, B., Predojević, B., and Filipović, D.M, "Generalized oscillator strengths for e-Zn scattering at small angles" *Proc. XXII ICPEAC, Santa Fe, July 2001, Abstracts of Contributed Papers*, Eds. S. Datz, M. E. Bannister, H. F. Krause, L. H. Saddiq, D. Schultz and C. R. Vane, p.190, poster MO035
13. B. Predojević, D. Šević, R. Panajotović, V. Pejčev, D.M. Filipović and B.P. Marinković "Differential cross section minima in electron scattering by zinc atom" in *Proc. 20th SPIG'2000, Contributed Papers, Zlatibor 2000*, pp.35-38.
12. Dragutin Šević, Jagoš Purić, Aleksander Kovacević, and Aleksandar Zarić, "Analysis of Plasma Focus Magnetic Field Signals Using Neural Networks," in *Proc. 19th SPIG, Zlatibor, 31.8-4.9.1998*, pp 619-622.
11. Jagoš Purić, Dragutin Šević, Milivoje Čuk, "Estimating the correlations between the Basic Characteristics of Plasma Focus," in *Proc. 19th SPIG, Zlatibor, 31.8-4.9.1998*, pp 623-626.
10. Dragutin Šević and Miodrag Popović, "On Computing the 2-D Extended Lapped Transforms," in *Proc. IEEE Int. Conf. ASSP, vol III, pp. 1977-1980, Munich, Germany, 20-24 April 1997*.
9. Dragutin Šević and Miodrag Popović, "Fuzzy Median Filter Adapted to Subband Coding Schemes," in *Proc. 3rd International Conference Telsiks '97*, pp. 162-163, Niš 8-10. October 1997.
8. Dragutin Šević, Radovan Antanasijević, Jagoš Purić, Aleksandar Zarić and Aleksander Kovacević, "Analysis of Plasma Focus Electromagnetic Signals Using Neural Networks," in *Proc. of 4th Seminar NEUREL 97*, pp. 143-146, Belgrade, September 8-9. 1997.
7. A. Mojsilović, M. Popović, D. Šević, "Classification of the Ultrasound Liver Images with the 2x1-D Wavelet Transform," in *Proc. IEEE Int. Conf. Image Processing, vol I, pp. 367-370, Lausanne, Switzerland, Sept. 16-19, 1996*.
6. Dragutin Šević, Radovan Antanasijević, Aleksandar Dragic, Vladimir Udovičić, Jagoš Purić, Milivoje Čuk, "Analysis of Spectral Characteristics of Plasma Focus Current and Magnetic Field Signals," in *Proc. 18th SPIG*, pp. 469-472, Kotor, 1-6.9.1996.
5. Radovan Antanasijević, Zvonko Marić and Dragutin Šević, "A Comparative Study of Capacitive and Inductive Storage Systems for the Capillary Fusion Experiment," in *Proc. 18th SPIG*, pp. 477-480, Kotor, 1-6.9.1996.
4. J. Purić, M. Čuk, V. Milosavljević, R. Antanasijević, D. Šević and A. Zarić, "Neutron Yield Dependence on the Basic Plasma Focus Characteristics", 17. Summer School & International Symposium on the Physics of Ionized Gases '94, pp. 315-318, Beograd, 25-28.9.1994
3. R. Antanasijević, I. Lakicević, D. Šević, A. Zarić, Dj. Konjević, J. Vuković, J. Purić, M. Čuk, "Influence of the Current Sheath Propagation on Particle Yields in D-plasma Focus Facility", 16. Summer School & International Symposium on the Physics of Ionized Gases'93, pp. 294, Beograd, 25-28.9.1993

2. R. Antanasijević, I. Lakicević, Z. Marić, D. Šević, A. Zarić, J.P. Vigier, "Preliminary observations on possible consequences of electromagnetic spin-spin and spin-orbit coupling in "Cold" Quantum Mechanical Fusion Processes appearing in Strong "Plasma Focus" and "Capillary Fusion" Experiments", 3th Int. Conf. on Dense Z-pinchs, London 20-23 April 1993.

1. S. Glisic, D.Šević, D. Tanaskoski, I. Belic, "The realization of 125 kJ EDMA", 14. Summer School & International Symposium on the Physics of Ionized Gases 88, pp. 446-448, Sarajevo, 15-19.8.1988

### Abstracts at International Conferences

46. M. D. Radmilovic, M. S. Rabasovic, D. Sevic, D.Pantelic, B.Kolaric, S. R. Mouchet and P.Vukusic, "Revealing the optical response of *Stegastes apicalis* fin parts using fluorescence spectroscopy", Proc. PHOTONICA2019 - The Seventh International School and Conference on Photonics, 26 August – 30 August 2019, Belgrade, Serbia & Machine Learning with Photonics Symposium (ML-Photonica 2019) & ESUO Regional Workshop & COST action CA16221, Book of Abstracts, (Abstracts of Tutorial, Keynote, Invited Lectures, Progress Reports and Contributed Papers) Eds: Milica Matijević, Marko Krstić and Petra Beličev (Vinča Institute of Nuclear Sciences, Belgrade, 2019), Session 4. Biophotonics, print:p.110; on-line:p.125.

[http://www.photonica.ac.rs/docs/PHOTONICA2019-Book\\_of\\_abstracts.pdf](http://www.photonica.ac.rs/docs/PHOTONICA2019-Book_of_abstracts.pdf)

ISBN 978-86-7306-153-5

(M34=0,5)

45. M. S. Rabasovic, D. Sevic, B. P. Marinkovic, A. J. Krmpot and M. D. Rabasovic, "Nonlinear microscopy and time resolved fluorescence spectroscopy of *Chelidonium majus* L.", Proc. PHOTONICA2019 - The Seventh International School and Conference on Photonics, 26 August – 30 August 2019, Belgrade, Serbia & Machine Learning with Photonics Symposium (ML-Photonica 2019) & ESUO Regional Workshop & COST action CA16221, Book of Abstracts, (Abstracts of Tutorial, Keynote, Invited Lectures, Progress Reports and Contributed Papers) Eds: Milica Matijević, Marko Krstić and Petra Beličev (Vinča Institute of Nuclear Sciences, Belgrade, 2019), Session 4. Biophotonics, print:p.108; on-line:p.123.

[http://www.photonica.ac.rs/docs/PHOTONICA2019-Book\\_of\\_abstracts.pdf](http://www.photonica.ac.rs/docs/PHOTONICA2019-Book_of_abstracts.pdf)

ISBN 978-86-7306-153-5

(M34=0,5)

44. D. Sevic, M. S. Rabasovic, J. Krizan, S. Savic-Sevic, M. D. Rabasovic, B. P. Marinkovic and M. G. Nikolic,

"Effects of temperature on luminescent properties of  $\text{CaGdAlO}_4:\text{Er,Yb}$  nanophosphor",

Proc. PHOTONICA2019 - The Seventh International School and Conference on Photonics, 26 August – 30 August 2019, Belgrade, Serbia & Machine Learning with Photonics Symposium (ML-Photonica 2019) & ESUO Regional Workshop & COST action CA16221, *Book of Abstracts*, (Abstracts of Tutorial, Keynote, Invited Lectures, Progress Reports and Contributed Papers) Eds: Milica Matijević, Marko Krstić and Petra Beličev (Vinča Institute of Nuclear Sciences, Belgrade, 2019), Session 3. Optical materials, print:p.84; on-line:p.99.

[http://www.photonica.ac.rs/docs/PHOTONICA2019-Book\\_of\\_abstracts.pdf](http://www.photonica.ac.rs/docs/PHOTONICA2019-Book_of_abstracts.pdf)

ISBN 978-86-7306-153-5

(M34=0,5)

**43. M. S. Rabasovic, D. Sevic, M. D. Rabasovic, M. G. Nikolic and B. P. Marinkovic,**

"Time resolved luminescence spectra of greater celandine (*Chelidonium majus* L.)",

*Proc. The Sixth International School and Conference on Photonics & COST actions: MP1406 and MP1402 & H2020-MSCA-RISE-2015 CARDIALLY workshop* (PHOTONICA 2017), 28 August – 1 September 2017 Belgrade, Serbia, Book of Abstracts, Abstracts of Tutorial, Keynote, Invited Lectures, Progress Reports and Contributed Papers, Eds. Marina Lekić and Aleksandar Krmpot (Institute of Physics Belgrade, Belgrade,

2017), Section:4. Biophotonics, Oral presentation – Contributed Paper B.21, p.122.

ISBN 978-86-82441-46-5

<http://www.photonica.ac.rs>

42. Rouaida M. Abozaid, Dušica B. Stojanović, Anđela Radisavljević, Dragutin M. Sević, Maja S. Rabasović, Petar S. Uskoković, Vesna Radojević,

“Electrospun PMMA nanofibers doped with CdSe/ZnS core shell quantum dots”,

The Nineteenth Annual Conference YUCOMAT 2017, Herceg Novi, Montenegro, September 4-8, 2017, *Programme and The Book of Abstracts*, Editors: Dragan P. Uskoković, Velimir R. Radmilović (Materials Research Society of Serbia, Belgrade, 2017), Symposium C: Nanostructured Materials – Session 2: P.S.C.13. p.94.

ISBN: 978-86-919111-2-6

<http://www.itn.sanu.ac.rs/opus4/files/1189/9788691911126.pdf>

(M34=0,5)

41. M.G. Nikolic, M.S. Rabasovic, J. Krizan, S. Savic-Sevic, M.D. Rabasovic, B.P. Marinkovic, A. Vlastic and D. Sevic,

“Luminescence thermometry using  $Gd_2Zr_2O_7:Eu^{3+}$ ,

*Proc. The Sixth International School and Conference on Photonics & COST actions: MP1406 and MP1402 & H2020-MSCA-RISE-2015 CARDIALLY workshop* (PHOTONICA 2017), 28 August – 1 September 2017 Belgrade, Serbia, Book of abstracts, Abstracts of Tutorial, Keynote, Invited Lectures, Progress Reports and Contributed Papers, Eds. Marina Lekić and Aleksandar Krmpot (Institute of Physics Belgrade, Belgrade, 2017), Section: 3. Optical materials, Contributed Paper O.M.22, p.101.

ISBN 978-86-82441-46-5

<http://www.photonica.ac.rs/>

(M34=0,5)

40. M.S. Rabasovic, D. Sevic, B.P. Marinkovic,

“Nd:YAG laser ablation of materials of biological interest”,

*Proc. 7<sup>th</sup> Conference on Elementary Processes in Atomic Systems* (CEPAS 2017), 3<sup>rd</sup> – 6<sup>th</sup> September 2017, Průhonice, Czech Republic, Editors: M. Tarana, R. Čurík (J. Heyrovský Institute of Physical Chemistry, Prague, 2017), Abstracts of Posters, p.45.

ISBN: 978-80-87351-46-8

<https://www.jh-inst.cas.cz/cepas2017/>

(M34=0,5)

39. M. S. Rabasović, D. Šević, J. Križan, M. D. Rabasović, S. Savić-Šević, M. Mitrić, M. Petrović, M. Gilić, N. Romčević,

“Annealed nanopowder  $GdVO_4:Sm^{3+}$  prepared by solution combustion synthesis”,

The Fifth Serbian Ceramic Society Conference »*Advanced Ceramics and Application V*« September 21- 23, 2016, Serbian Academy of Sciences and Arts, Belgrade, Serbia, Program and the Book of Abstracts, p.67.

(M64=0,2)

38. Zorica Ž. Lazarević, Hana Ibrahim Elswie, Vesna Radojević, Slobodanka Kostić, Maja Rabasović, Dragutin Šević, Nebojša Ž. Romčević,

" The Bridgman method growth, spectroscopic characterization and photoluminescence of calcium fluoride single crystals",

The Fifth Serbian Ceramic Society Conference »*Advanced Ceramics and Application V*« September 21- 23, 2016, Serbian Academy of Sciences and Arts, Belgrade, Serbia, Program and the Book of Abstracts, p.73.

(M64=0,2)

37. M. S. Rabasović, D. Šević, J. Križan, M. D. Rabasović, S. Savić-Šević, M. Mitrić, M. Petrović, M. Gilić, N. Romčević,

“Annealed nanopowders YAG and YAG:Dy prepared by solution combustion synthesis”,

The Fourth Serbian Ceramic Society Conference »*Advanced Ceramics and Application IV*« September 21- 23, 2015, Serbian Academy of Sciences and Arts, Belgrade, Serbia, Program and the Book of Abstracts,

Editors: V. Mitić, O. Milošević, L. Mančić, N. Obradović, p.80.  
ISBN 978-86-915627-3-1, (Serbian Ceramic Society)

36. M.S. Rabasović, D. Šević, J. Križan, M.D. Rabasović, N. Romčević,  
“Time resolved luminescence spectra of YVO<sub>4</sub>:Eu powder samples”,  
V International School and Conference on Photonics, 24 – 28 August 2015, Belgrade, Book of Abstracts,  
Editors: Suzana Petrović, Goran Gligorić and Milutin Stepić, Poster: P.OM.14, p.200-201.

[http://www.vin.bg.ac.rs/photonica2015/UserFiles/File/BookOfA/Photonica2015\\_Book\\_of\\_Abstracts.pdf](http://www.vin.bg.ac.rs/photonica2015/UserFiles/File/BookOfA/Photonica2015_Book_of_Abstracts.pdf)  
ISBN 978-86-7306-131-3, (Vinča Institute of Nuclear Sciences, Belgrade, Serbia)

35. M. S. Rabasovic, D. Sevic, J. Krizan, M. D. Rabasovic and N. Romcevic , "Annealing effects on luminescent properties of Eu<sup>3+</sup> doped Gd<sub>2</sub>Zr<sub>2</sub>O<sub>7</sub>nanopowders"  
The Book of Abstracts , The Third Serbian Ceramic Society Conference »Advanced Ceramics and Application« September 29-October 1, 2014, Serbian Academy of Sciences and Arts, Knez Mihailova 35, Belgrade, Serbia

<http://www.itn.sanu.ac.rs/images/ACAIII2014Programme.pdf>

34. D. Šević, M. S. Rabasović, M. Terzić, J. Možina, P. Gregorčič, J. Križan and B. P. Marinković,  
“Measuring the time resolved fluorescence spectra from powder samples of YAG:Dy“  
*Proc. IV International School and Conference on Photonics (Photonica'13)*, 26-30 August 2013, Belgrade, Serbia,

Book of Abstracts of Lectures, Talks & Contributed Papers, Editors: Dragana Jović, Borislav Vasić, Dejan Timotijević, Radmila Panajotović, and Radoš Gajić, Poster Session D - Optical Materials, p.90.

ISBN: 978-86-82441-36-6

<http://www.photonica.ac.rs/>

Acknowledgments: MESTD OI 171020 and Bilateral Project Serbia – Slovenia #651-03-1251/2012-09/03.

33. I. Radović, V. Radojević, D. Stojanović, A. Kojović, D. Šević, B.P. Marinković and R. Aleksić,  
“Morphology and optical Activity of Electrospun Poly(methyl methacrylate) - Rhodamine B”,  
*Proc. of the First International Conference on Processing, Characterisation and Application of Nanostructured Materials and Nanotechnology – NanoBelgrade 2012*; 26-28<sup>th</sup> September 2012, Belgrade, Serbia, The Book of Abstracts, 2012, University of Belgrade, Faculty of Technology and Metallurgy; p.88.  
ISBN: 978-86-7401-285-7

<http://nanobelgrade.tmf.bg.ac.rs/>

(M34=0,5)

32. D. Šević, M.S. Rabasović, V. Radojević, I. Radović, R. Aleksić, B.P. Marinković,  
“Lifetime analysis of rhodamine B/PMMA fluorescence emission”,  
*Proc. 14<sup>th</sup> Annual Conference YUCOMAT 2012*, Herceg Novi, Montenegro, September 3–7, 2012, Programme and The Book of Abstracts, Ed. D. Uskoković, p.88, Abstract P.S.B.24.

[http://www.mrs-serbia.org.rs/conference\\_program2012.html](http://www.mrs-serbia.org.rs/conference_program2012.html)

31. I. Radović, S. S. Musbah, V. Radojević, D. Stojanović, M. Zrilić, S. Nikolić, D. Šević and R. Aleksić,  
“Scintillating Composite Material Poly(Methylmethacrylate)-Bismuth-Silicon-Oxide”,  
International workshop: *Characterization, properties and applications of nanostructured ceramics, polymers and composites* (under FP7 NANOTECH FTM project - Reinforcing of Nanotechnology and Functional Materials Centre, # 245916), University of Belgrade, Faculty of Technology and Metallurgy, October 24 - 25, 2011 Serbia, BOOK OF ABSTRACTS, Poster presentation P26, p.56

[http://www.nanotechftm.tmf.bg.ac.rs/images/stories/Book\\_of\\_Abstracts\\_2nd\\_workshop.pdf](http://www.nanotechftm.tmf.bg.ac.rs/images/stories/Book_of_Abstracts_2nd_workshop.pdf)

30. M. S. Rabasović, D. Šević, V. Pejčev, B. P. Marinković,  
“Detecting indium spectral lines using electron spectroscopy and laser induced breakdown spectroscopy”,  
Proc. 5<sup>th</sup> Conference On Elementary Processes In Atomic Systems (CEPAS2011) and the 2<sup>nd</sup> National Conference On Electronic, Atomic, Molecular And Photonic Physics (CEAMPP2011),, 21<sup>st</sup> – 25<sup>th</sup> June 2011, Belgrade, Serbia, Contributed Papers & Abstracts Of Invited Lectures, Editors: Aleksandar R. Milosavljević, Saša Dujko and Bratislav P. Marinković, Abstract of Poster Contributions p.51.

ISBN: 978-86-82441-32-8



Acknowledgements: MES Serbia (# 171020), ESF/COST Action FA0906 UV4growth.  
<http://www.cepas2011.ipb.ac.rs/>

29. M. S. Rabasović, D. Šević, M. Terzić, B. P. Marinković,  
“Time resolved laser induced fluorescence measurements: considerations when using Nd:YAG based system”,  
Proc. 5<sup>th</sup> Conference On Elementary Processes In Atomic Systems (CEPAS2011) and the 2<sup>nd</sup> National Conference On Electronic, Atomic, Molecular And Photonic Physics (CEAMPP2011),, 21<sup>st</sup> – 25<sup>th</sup> June 2011, Belgrade, Serbia, Contributed Papers & Abstracts Of Invited Lectures, Editors: Aleksandar R. Milosavljević, Saša Dujko and Bratislav P. Marinković, Abstract of Poster Contributions p.50.  
ISBN: 978-86-82441-32-8  
Acknowledgements: MES Serbia (# 171020), ESF/COST Action FA0906 UV4growth.  
<http://www.cepas2011.ipb.ac.rs/>

28. A. R. Milosavljević, J. B. Maljković, D. Šević and B. P. Marinković,  
"Electron interaction with biologically relevant molecules in gaseous phase",  
Research Conference, ESF-FWF Conference in Partnership with LFUI, "Chemical Control with Electrons and Photons", Chairs: P. Swiderek and N. J. Mason, 22-27 November, 2008, Obergurgl, Austria, Poster Abstracts 30.  
<http://www.esf.org/conferences/08261>

27. A. R. Milosavljević, P. Limão-Vieira, F. Ferreira da Silva, D. Almeida, R. Antunes, Y. Nunes, J. B. Maljković, D. Šević, N. J. Mason, and B. P. Marinković,  
“Electronic excitation of pyrimidine studied by VUV photoabsorption and electron energy loss spectroscopy methods”,  
*Proc. CMP 2008, Control of Molecular Processes Induced by Electrons and Photons: Experiments and Interpretations – A Congress in Honour of Prof. Hotop*, Lincei Academy, Palazzo Corsini, Rome, 2 – 4 October 2008, Ed. F. A. Gianturco, Contributed Posters, p.33.

26. S. D. Tošić, V. I. Kelemen, D. Šević, V. Pejčev, D. M. Filipović, E. Yu. Remeta and B. P. Marinković,  
“Elastic electron scattering by silver atoms”,  
Proc. 4<sup>th</sup> Conf. on Elementary Processes in Atomic Systems, (CEPAS 2008) 18-20 June 2008, Babes-Bolyai University, Cluj-Napoca, Romania, Book of Abstracts, Eds. K. Póra, V. Chis and L. Nagy.  
ISBN 978-973-647-596-2, Poster presentation We-17, p.75.  
<http://www.phys.ubbcluj.ro/cepas/>

25. M. S. Rabasović, S. D. Tošić, V. Pejčev, D. Šević, D. M. Filipović and B. P. Marinković,  
“Generalized oscillator strengths for electron scattering by In atom at small angles”,  
Proc. 4<sup>th</sup> Conf. on Elementary Processes in Atomic Systems, (CEPAS 2008) 18-20 June 2008, Babes-Bolyai University, Cluj-Napoca, Romania, Book of Abstracts, Eds. K. Póra, V. Chis and L. Nagy.  
ISBN 978-973-647-596-2, Poster presentation We-16, p.74.  
<http://www.phys.ubbcluj.ro/cepas/>

24. B. P. Marinković, A. R. Milosavljević, J. Maljković, D. Šević, B. Petrušev, D. Pavlović, D. M. Filipović, M. Terzić and V. Pejčev,  
“Optical and electron spectrometry of molecules of biological interest”,  
Proc. International School and Conference on Optics and Optical Materials (ISCOM), Belgrade, September 3-7, 2007. Contributed paper, Poster session - Tuesday - Bio-optics TU\_41, p.75.  
<http://iscom.phy.bg.ac.yu/>

23. B. P. Marinković, V. Pejčev, D. Šević, M. Rabasović, D. M. Filipović, V. I. Kelemen, M. M. Dovahnych and E. Yu. Remeta,  
“Experimental and theoretical study of differential cross sections for elastic electron scattering by In atom in the 10-100 eV energy range”,  
*Proc. XXV ICPEAC07 International Conference on Photonic, Electronic and Atomic Collisions*, Freiburg, Germany 25 - 31 July 2007. Poster presentation Tu046  
<https://www.mpi-hd.mpg.de/ICPEAC2007/webpdf/Tu046.pdf>

22. B. Predojević, D. Šević, V. Pejčev, S. Lekić, S. Dupljanin, D. M. Filipović and B. P. Marinković, “Electron impact excitation of the  $3s3d\ ^1D_2$  state in magnesium”, *Proc. XXV ICPEAC07 International Conference on Photonic, Electronic and Atomic Collisions*, Freiburg, Germany 25 - 31 July 2007. Poster presentation Fr061  
<https://www.mpi-hd.mpg.de/ICPEAC2007/webpdffiles/Fr061.pdf>
21. Guided transmission of low energy electrons by highly ordered  $Al_2O_3$  nanocapillaries, A. R. Milosavljević, Gy. Viktor, Z. D. Pešić, S. Mátéfi-Tempfli, M. Mátéfi-Tempfli, L. Piroux, P. Kolarž, D. Šević and B. P. Marinković, *Proc. 9<sup>th</sup> EPS Conference on Atomic and Molecular Physics (ECAMP IX)*, Heraklion, Crete, Greece, 6 – 11 May 2007, Europhysics conference abstract, Eds. D. Charalambidis, S. Farantos and P. Lambropoulos, Vol.31C Part II, No.Mo3-17.  
<http://www.iesl.forth.gr/conferences/ecamp9/index.aspx>
20. S. Milosavljević, M. Pardovska, D. Šević, V. Pejčev, D. M. Filipović and B. P. Marinković, “Electron Energy-Loss Spectroscopy of Pb Atom” *Proc. 15<sup>th</sup> Int. Symp. “Spectroscopy in Theory and Practice”*, 18-21 April 2007, Nova Gorica, Slovenia, Book of Abstracts (Knjiga povzetkov), Eds. M. Bavcon Kralj and P. Trebše, ISBN: 978-961-6311-44-1. Poster P17 - p.78.  
<http://www.p-ng.si/~isstp/>
19. Electron scattering by zinc atom, B. P. Marinkovic, V. Pejcev, D. Sevic, M. Krunic, D. M. Filipovic, F. Blanco and G. Garcia, *Proc. Symp. on Radiation Effects of Biomedical Interest*, February 22-25, 2007 Consejo Superior de Investigaciones Cientificas (CSIC), Madrid, Spain, Poster 13, p.44  
<http://www.isa.au.dk/networks/cost/wg1/2007/index.html>
18. Electron interaction with molecules of biological interest, D. Pavlović, A. R. Milosavljević, D. Šević, V. Pejčev, D. M. Filipović and B. P. Marinković *Proc. 5<sup>th</sup> EU-Japan Joint Symposium on Plasma Processing (Radicals and Non-Equilibrium Processes in Low-Temperature Plasmas)*, 7-9.03.2007 Belgrade, Serbia, Abstracts of Invited Lectures, Progress Reports and Contributed Papers, Eds. Z. Lj. Petrovic, N. Mason, S. Hamaguchi, M. Radmilovic-Radjenovic, (Serbian Academy of Sciences and Arts, Institute of Physics: Belgrade, 2007) Contributed Paper p.Po-12.  
<http://www.euj07.phy.bg.ac.yu/>
17. Electron collisions by metal atoms, S. Milosavljević, M. S. Rabasović, B. Predojević, D. Šević, V. Pejčev, D. M. Filipović and B. P. Marinković, *Proc. 5<sup>th</sup> EU-Japan Joint Symposium on Plasma Processing (Radicals and Non-Equilibrium Processes in Low-Temperature Plasmas)*, 7-9.03.2007 Belgrade, Serbia, Abstracts of Invited Lectures, Progress Reports and Contributed Papers, Eds. Z. Lj. Petrovic, N. Mason, S. Hamaguchi, M. Radmilovic-Radjenovic, (Serbian Academy of Sciences and Arts, Institute of Physics: Belgrade, 2007) Contributed Paper p.Po-11.  
<http://www.euj07.phy.bg.ac.yu/>
16. Electron Energy Loss Spectra Of Atomic And Molecular Antimony, D. M. Filipovic, V. Pejcev, D. Sevic, B. P. Marinkovic, *Proc. 6<sup>th</sup> Int. Conf. of the Balkan Physical Union (6BPU)*, 22-26 August 2006, Istanbul, Turkey, Eds. S. Ali Cetin and I. Hikmet, Poster 4-P-023, Sec.4 Atomic and Molecular Physics, p.643.
15. Transitions To Autoionizing States In Bismuth By Electron Impact, D. M. Filipovic, V. Pejcev, D. Sevic, B. P. Marinkovic, *Proc. 6<sup>th</sup> Int. Conf. of the Balkan Physical Union (6BPU)*, 22-26 August 2006, Istanbul, Turkey, Eds. S. Ali Cetin and I. Hikmet, Oral 4-O-009, Sec.4 Atomic and Molecular Physics, p.183.
14. Electron energy loss by tetrahydrofurfuryl alcohol, A. R. Milosavljević, D. Šević and B. P. Marinković, In *Proc. 3<sup>rd</sup> Annual Conference on Radiation Damage in Biomolecular Systems (RADAM 2006)*, Groningen,

Netherlands, Book of Abstracts, Eds. T. Schlathölder *et al.*  
<http://www.kvi.nl/~atf/radam06/radam06.html>

13. Electron impact excitation of the  $6p7s\ ^3P_1$  state of Pb atom,  
S. Milisavljević, M. Pardovska, D. Šević, V. Pejčev, D.M. Filipović, B.P. Marinković,  
*Proc. CEPAS 2005 Conference (3rd Conf. on Elementary Processes in Atomic Systems)* 31 Aug. - 2 Sept.  
2005. University of Miskolc, Hungary, Book of Abstracts, Poster presentation P-25, p.73  
<http://www.uni-miskolc.hu/cepas2005/>

12. Electron energy loss spectra of alanine,  
B. P. Marinković, D. M. Filipović, V. Pejčev, D. Šević, D. Pavlović and M. Pardjovska,  
*Proc. 14<sup>th</sup> Int. Sym. on Electron-Molecule Collisions and Swarms*, EMS-05, July 27 – 30, 2005, Campinas,  
SP, Brazil, Eds. S. d'A. Sanchez, R. F. da Costa and M. A. Lima, Book of Abstracts, p.53  
<http://www.ems05.unicamp.br/Boa-em05.pdf>

11. Energy and angular distribution of positive ions from electron induced dissociative ionization of tetrahydrofuran molecule,  
A. R. Milosavljević, D. Šević, I. Čadež and B. P. Marinković,  
*Proc 24<sup>th</sup> Int. Conf. on Photonic Electronic and Atomic Collisions ICPEAC 2005*, July 20 – 26, 2005, Rosario,  
Argentina, Eds: F. D. Colavecchia, P. D. Fainstein, J.Fiol, M. A. P. Lima, J. E. Miraglia, E. C. Montenegro  
and R. D. Rivarola, Abstracts of Contributed Papers, Vol. I, Fr063, p.326  
<http://www.icpeac2005.cnea.gov.ar/announcements/conf-prog.pdf>

10. Electron energy loss spectra of glycine and tetrahydrofuran molecules,  
B. P. Marinković, D. M. Filipović, V. Pejčev, D. Šević, A. R. Milosavljević, D. Pavlović and M. Pardjovska,  
*Proc 24<sup>th</sup> Int. Conf. on Photonic Electronic and Atomic Collisions ICPEAC 2005*, July 20 – 26, 2005, Rosario,  
Argentina, Eds: F. D. Colavecchia, P. D. Fainstein, J.Fiol, M. A. P. Lima, J. E. Miraglia, E. C. Montenegro  
and R. D. Rivarola, Abstracts of Contributed Papers, Vol. I, Mo069, p.295  
<http://www.icpeac2005.cnea.gov.ar/announcements/conf-prog.pdf>

9. Electron scattering from the ground state of zinc,  
Dmitry V. Fursa, Igor Bray, R. Panajotović, D. Šević, V. Pejčev, D. M. Filipović and B. P. Marinković,  
*Proc 24<sup>th</sup> Int. Conf. on Photonic Electronic and Atomic Collisions ICPEAC 2005*, July 20 – 26, 2005, Rosario,  
Argentina, Eds: F. D. Colavecchia, P. D. Fainstein, J. Fiol, M. A. P. Lima, J. E. Miraglia, E. C. Montenegro  
and R. D. Rivarola, Abstracts of Contributed Papers, Vol. I, Fr047, p.216  
<http://www.icpeac2005.cnea.gov.ar/announcements/conf-prog.pdf>

8. Electron scattering by Yb: excitation of the  $4f^{14}6s6p\ ^3P_1$  state,  
B. Predojević, D. Šević, V. Pejčev, B. P. Marinković and D. M. Filipović,  
*Proc 24<sup>th</sup> Int. Conf. on Photonic Electronic and Atomic Collisions ICPEAC 2005*, July 20 – 26, 2005, Rosario,  
Argentina, Eds: F. D. Colavecchia, P. D. Fainstein, J. Fiol, M. A. P. Lima, J. E. Miraglia, E. C. Montenegro  
and R. D. Rivarola, Abstracts of Contributed Papers, Vol. I, Fr041, p.210  
<http://www.icpeac2005.cnea.gov.ar/announcements/conf-prog.pdf>

7. Absolute energy and angle dependent cross sections for elastic electron scattering by tetrahydrofuran molecule,  
A. R. Milosavljevic, A. Giuliani, D. Ševic, M.-J. Hubin-Franskin and B. P. Marinkovic,  
*Proc. "Radiation Damage in Biomolecular Systems"*, RADAM Conference 2005, 17 - 20 March, Potsdam,  
Berlin, Germany, Conference within the COST P9 Action supported by ESF, Poster Abstract, p.59.  
<http://www.radam05.org/>

6. Jagos Purić, Dragutin Šević, Milivoje Cuk,  
"Analysis of Self-Organizing Phenomena in Plasma focus: Neural Network Approach," 9th International Toki  
Conference on Plasma  
Physics and Controlled Nuclear Fusion (ITC-9) - New Frontiers in Plasma Physics - Pro-  
gram and Abstracts, December 7 - 11, 1998, p. 95.

5. R. Antanasijević, J. Vuković, D. Šević, D. Joksimović, A. Dragic, V. Udovičić, J. Purić and M. Ćuk, “Angular distribution of positive particles emitted from deuterium plasma focus,” 18th International Conference on Nuclear Tracks in Solids (Abstracts), Kairo, 1996.

4. R. Antanasijević, A. Dragic, D. Joksimović, Z. Marić, D. Šević, Z. Todorović and V. Udovičić, “Analysis of hot spots in deuterium plasma focus with the SSNTD,” 18th International Conference on Nuclear Tracks in Solids (Abstracts), Kairo, 1996.

3. Z. Todorović, R. Antanasijević, D. Šević, A. Zarić, DJ. Konjević, J. Vuković, J. Purić and M. Ćuk, “Discrimination of Positive Particles Emitted in Deuterium Plasma Focus Device Using SSNTD”, 17th International Conference on Nuclear Tracks in Solids (Abstracts), Dubna August 24-28,1994, pp. 174.

2. A. Zarić and D. Šević, “Neutron Emission Detection in Plasma Focus and Capillary Fusion Experiments,” Progress reports, 16. Summer School & International Symposium on the Physics of Ionized Gases '93, p. 177, Beograd, 25-28.9.1993.

1. R. Antanasijević, I. Lakicević, S. Popović, A. Zarić, D. Šević, J. Vuković, and Dj. Konjević, “Measurement of Fluences and Energy of D<sup>+</sup> Emitted from Plasma Focus in Capacitor Bank Energies Interval of 1-30 kJ”, 16th International Conference on Nuclear Tracks in Solids (Abstracts), Beijing(1992), p. 156.

### **Invited Talks at National Conferences**

8. Maja Rabasović, Dragutin Šević, Bratislav Marinković, “Analiza prostornih i spektralnih slika laserski indukovane plazme snimljenih strik kamerom”, 7. radionica fotonika 2014. *Zbornik radova*, Kopaonik, 10 – 14.03.2014. Urednici: A. Kovačević, D. Lukić, Oral presentation, p.26.  
ISBN 978-86-82441-39-7  
<http://photonicsworkshop.ipb.ac.rs/7/index.php>

7. M.S.Rabasović, D.Šević and B.P.Marinković, “Time-Resolved Optical Spectra of the Laser Induced Indium Plasma detected using a Streak Camera“ *3<sup>rd</sup> National Conference on Electronic, Atomic, Molecular and Photonic Physics (CEAMPP2013)* 25<sup>th</sup> August 2013, Belgrade, Serbia, Contributed Papers & Abstracts of Invited Lectures and Progress Reports, Editors: B.P. Marinković, G.B. Poparić, Abstracts of Invited Progress Reports, p.12.  
ISBN: 978-86-84539-10-8  
<http://www.ff.bg.ac.rs/CEAMPP2013/index.html>

6. S. D. Tošić, V. Pejčev, D. Šević and B. P. Marinković, “Absolute cross sections for electron excitation of silver”, Proc. 5<sup>th</sup> Conference On Elementary Processes In Atomic Systems (CEPAS2011) and the 2<sup>nd</sup> National Conference On Electronic, Atomic, Molecular And Photonic Physics (CEAMPP2011),, 21<sup>st</sup> – 25<sup>th</sup> June 2011, Belgrade, Serbia, Contributed Papers & Abstracts Of Invited Lectures, Editors: Aleksandar R. Milosavljević, Saša Dujko and Bratislav P. Marinković, Abstract of Progress Report p.112.  
ISBN: 978-86-82441-32-8  
Acknowledgements: MES Serbia (# 171020).  
<http://www.cepas2011.ipb.ac.rs/CEAMPP11.html>

5. (M62=1) J. B. Maljković, A. R. Milosavljević, D. Šević and B. P. Marinković, “Merenje apsolutnih diferencijalnih preseka za elastično rasejanje elektrona na malim biomolekulima”, *Zbornik radova “Fizika 2010 BL”*, Banja Luka, Republika Srpska, BiH, 22-24 septembar 2010. Urednik: B. Predojević, Sekcijsko predavanje *Sudari elektrona sa atomima i molekulima*, str. 201 – 210. “Measurements of differential cross sections for elastic electron scattering by small biomolecules”, (in Serbian)  
Proceedings “*Physics 2010 BL*”, Banja Luka, Republic of Srpska, BiH, 22-24 September 2010.

Ed. B. Predojević, Oral presentation within the section *Electron Scattering by Atoms and Molecules*, pp.201 – 210.

Acknowledgements: grant 141011 as well as EU/ESF COST CM0601 “Electron Controlled Chemical Lithography”

(ECCL) and MP1002 “Nano-scale Insights in Ion Beam Cancer Therapy (Nano-IBCT). Personal acknowledgements to F. Blanco and G. García.

ISBN: 978-99955-21-21-9

<http://www.fizika.rs.ba/Physics2010BL/sr/index.html>

4. (M62=1) S. D. Tošić, D. Šević, V. Pejčev and B. P. Marinković, “Diferencijalni preseki za rasejanje elektrona na atomima srebra i olova”, Zbornik radova “*Fizika 2010 BL*”, Banja Luka, Republika Srpska, BiH, 22-24 septembar 2010. Urednik: B. Predojević, Sekcijsko predavanje *Sudari elektrona sa atomima i molekulima*, str. 181 – 189. “Differential cross sections for electron scattering by silver and lead atoms”, (in Serbian) Proceedings “*Physics 2010 BL*”, Banja Luka, Republic of Srpska, BiH, 22-24 September 2010. Ed. B. Predojević, Oral presentation within the section *Electron Scattering by Atoms and Molecules*, pp.181 – 189.

Acknowledgements: grant 141011. Personal acknowledgements to Dušan Filipović.

ISBN: 978-99955-21-21-9

<http://www.fizika.rs.ba/Physics2010BL/sr/index.html>

3. (M44=2, M62=1) B. P. Marinković, D. Šević, B. Predojević, V. Pejčev, S. D. Tošić, M. S. Rabasović, V. D. Bočvarski, B. A. Petruševski, N. S. Nikolić and D. Radosavljević, “Elektron - metal atom interakcije i informacioni system u fizici atomskih sudara”, Zbornik radova “*Fizika 2010 BL*”, Banja Luka, Republika Srpska, BiH, 22-24 septembar 2010. Urednik: B. Predojević, Plenarno predavanje, str. 13 – 46. “Electron – metal atom interactions and information system in physics of atomic collisions”, (in Serbian) Proceedings “*Physics 2010 BL*”, Banja Luka, Republic of Srpska, BiH, 22-24 September 2010. Ed. B. Predojević, Plenary invited talk. pp.13 – 46.

Acknowledgements: grant 171020 as well as EU/ESF COST MP1002 “Nano-scale Insights in Ion Beam Cancer Therapy (Nano-IBCT). Personal acknowledgements to Djordje Lazović and *BigByte*.

ISBN: 978-99955-21-21-9

<http://www.fizika.rs.ba/Physics2010BL/sr/index.html>

2. Atomic and Molecular Physics, B. P. Marinković, D. M. Filipović, D. Šević, V. Bočvarski, M. Terzić, D. D. Markušev, and D. Belic, Abstract in Proc. “Applied Physics in Serbia - APS” Belgrade 2002, Eds. S. Koićki, N.Konjević;, Z. Lj. Petrović; and Dj. Bek-Uzarov, Serbian Academy of Sciences and Arts, Scientific Meetings Vol.XCVIII, Dept. of Mathematics, Physics and Geo-Sciences, Book2/1, pp.25-6 (YU ISSN: 1451-2025) Full contribution in Proc. “Applied Physics in Serbi” Belgrade 2002, Eds. S. Koićki, N. Konjević;, Z. Lj. Petrović; and Dj. Bek-Uzarov, Serbian Academy of Sciences and Arts, Vol. CIV, book 2/2, Belgrade (2003) pp. 191-207 (ISBN: 86-7025-391-4)

1. “A Comparative Study of Algorithms for Subband Coding of Images”, Miodrag Popović and Dragutin Šević, in Proc. 40th ETRAN Conf., Budva, jun 1996, pp. 249-254.

## Contributed Papers at National Conferences

44. D. Šević, M. S. Rabasović, M. Terzić and B. P. Marinković, “Red shift in 6 pictures” *3<sup>rd</sup> National Conference on Electronic, Atomic, Molecular and Photonic Physics (CEAMPP2013)* 25<sup>th</sup> August 2013, Belgrade, Serbia, Contributed Papers & Abstracts of Invited Lectures and Progress Reports, Editors: B.P. Marinković, G.B. Poparić, Contributed Papers pp.29-31. ISBN: 978-86-84539-10-8 <http://www.ff.bg.ac.rs/CEAMPP2013/index.html>

Acknowledgments: MESTD No. OI 171020.

43. (M63=0.5) B. P. Marinkovic, M. Rabasovic, M. Terzic, D. Šević,  
“Application of time resolved laser-induced fluorescence measurements and laser induced  
breakdown spectroscopy for development of new methods for food quality control”,  
Proc. of the Workshop: *Specific methods for food safety and quality*,  
pre event to PHYSICAL CHEMISTRY 2010, 21. September 2010,  
Vinca Institute of Nuclear Sciences, Poster presentation B18-P.  
<http://www.vin.bg.ac.rs/Workshop-0910/workshop.htm>
42. (M63=0.5) D. Šević, S. Savić-Šević, D. Pantelić, B. Jelenković and B. P. Marinković,  
“Application of Fourier-Padé approximation in analysis of holographic photonic crystal structures”,  
*Proc. of the 2<sup>nd</sup> International School and Conference on Photonics (PHOTONICA 09)*, 24 - 28<sup>th</sup> August 2009,  
Belgrade, Serbia,  
‘*ABSTRACTS OF PLENARY AND INVITED LECTURES AND CONTRIBUTED PAPERS*’,  
Editors: Brana Jelenković and Aleksandra Strinić, (Institute of Physics, Belgrade, 2009),  
ISBN: 978-86-82441-25-0, Poster, THU\_29 Photonic Crystals, p.125.
41. (M63=0.5) M. S. Rabasović, D. Šević, M. Terzić, S. Savić-Šević, B. Murić, D. Pantelić, B. P. Marinković,  
“Measurement of betanin fluorescence using TR-LIF technique”,  
*Proc. of the 2<sup>nd</sup> International School and Conference on Photonics (PHOTONICA 09)*, 24 - 28<sup>th</sup> August 2009,  
Belgrade, Serbia, ‘*ABSTRACTS OF PLENARY AND INVITED LECTURES AND CONTRIBUTED PAPERS*’,  
Editors: Brana Jelenkovic and Aleksandra Strinic, (Institute of Physics, Belgrade, 2009),  
ISBN: 978-86-82441-25-0, Poster, TU\_57 Laser and Laser Spectroscopy, p.91.
40. D. Šević, B. P. Marinković and S. Marinković,  
“Low Complexity Source Coding Based On Hadamard Transform”,  
Proc. 52<sup>nd</sup> ETRAN Conference for Electronics, Telecommunications, Computers, Automatic Control and  
Nuclear Engineering,  
June 8-12, 2008 Palić, Serbia, Book of Abstracts and Program, Oral presentation EK1.6 p.31
39. M. Terzić, B. P. Marinković, D. Šević, J. Jureta, and A. R. Milosavljević,  
“Development of Time-Resolved Laser-Induced Fluorescence Spectroscopic Technique for the Analysis of  
Biomolecules”,  
in Proc. 1<sup>st</sup> National Conference on Electronic, Atomic, Molecular and Photonic Physics, 15-18 May 2008,  
Zaječar, Serbia, Book of Contributed Papers and Abstracts of Invited Lectures and Progress Reports,  
Eds. A. R. Milosavljević, D. Šević and B. P. Marinković, (Institute of Physics, Belgrade 2008)  
ISBN: 978-86-82441-22-9, Contributed Paper, pp.62-66.
38. D. Šević, A. R. Milosavljević, and B. P. Marinković,  
“Uniformity of CTEM Magnetic Field: Practical Considerations”,  
in Proc. 1<sup>st</sup> National Conference on Electronic, Atomic, Molecular and Photonic Physics, 15-18 May 2008,  
Zaječar, Serbia, Book of Contributed Papers and Abstracts of Invited Lectures and Progress Reports,  
Eds. A. R. Milosavljević, D. Šević and B. P. Marinković, (Institute of Physics, Belgrade 2008)  
ISBN: 978-86-82441-22-9, Contributed Paper, pp.45-46.
37. M. S. Rabasović, S. D. Tošić, V. Pejčev, D. Šević, D. M. Filipović and B. P. Marinković,  
Effective Path Length Correction Factor in Electron-Indium Atom Scattering Experiments”,  
in Proc. 1<sup>st</sup> National Conference on Electronic, Atomic, Molecular and Photonic Physics, 15-18 May 2008,  
Zaječar, Serbia, Book of Contributed Papers and Abstracts of Invited Lectures and Progress Reports,  
Eds. A. R. Milosavljević, D. Šević and B. P. Marinković, (Institute of Physics, Belgrade 2008)  
ISBN: 978-86-82441-22-9, Contributed Paper, pp.42-44.
36. J. B. Maljković, A. R. Milosavljević, F. Blanco, D. Šević, G. García and B. P. Marinković,  
“Relative Angle-Differential Cross Sections for Elastic Scattering of Electrons from 3-hydroxy-  
tetrahydrofuran Molecule”,  
in Proc. 1<sup>st</sup> National Conference on Electronic, Atomic, Molecular and Photonic Physics, 15-18 May 2008,

Zaječar, Serbia,

Book of Contributed Papers and Abstracts of Invited Lectures and Progress Reports, Eds. A. R. Milosavljević, D. Šević and B. P. Marinković, (Institute of Physics, Belgrade 2008) ISBN: 978-86-82441-22-9, Contributed Paper, pp.37-41.

35. A. R. Milosavljević, Gy. Viktor, Z. D. Pešić, S. Matefi-Tempfli, M. Matefi-Tempfli, L. Piraux, P. Kolarž, D. Šević, and B. P. Marinković, "Guiding of Electrons by Al<sub>2</sub>O<sub>3</sub> Nanocapillaries", *Proc. XVII Symp. on Cond. Matter Phys. (SFKM 2007)*, Sept. 16-20, 2007, Vrsac, Serbia, Program and Contributed Papers, Eds. R. Žikić, Z. V. Popović, M. Damnjanović and Z. Radović, Poster No. s1p008, p.64-67

34. Dragutin Šević, Bratislav Marinković, Aleksandar Milosavljević, Dušan Filipović, Vladimir Pejčev, "Analiza signala elektronskog spektrometra diskretnom harmonijskom wavelet transformacijom", "Analysis of Electron Spectrometer Signals Using Harmonic Wavelet Transform", *Proc. 51<sup>st</sup> ETRAN (Society for Electronics, Telecommunication, Computers, Automation, and Nuclear Engineering)*, 4-8 June 2007, Herceg Novi-Igalo, Montenegro, oral presentation.

33. Dragutin Šević, Bratislav Marinković, Aleksandar Milosavljević, Dušan Filipović, Vladimir Pejčev, "Filtriranje signala elektronskog spektrometra proširenom preklapljenom transformacijom", "Filtering of electron spectrometer signals using extended lapped transform", (in Serbian) *Proc. XLIX Konferencija ETRAN-a. Budva, 5-10. juna 2005, saopštenje EK3.4* (komisija za električna kola i sisteme i procesiranje signala; sednica "algoritmi i modelovanje") <http://etran.etf.bg.ac.yu/>

32. Integral Cross-Sections for Electron Excitation of the 4<sup>1</sup>P State of Calcium Atom, S. Milosavljević, D. Šević, V. Pejčev, D. M. Filipović and B. P. Marinković, *Proc. XI Congress of Physicists of Serbia and Montenegro*, Petrovac na Moru, 3 – 5 June 2004, Eds. Nikola Konjevic, Borko Vujcic and Predrag Miranovic, CD Contribution [s2\_10] pp. 2.67 – 69 (in Serbian)

31. Magnetic Field generator for experimental Apparatus SELE, Maja Pardjovska, Dragutin Šević, Bratislav Marinković, Aleksandar Milosavljević, Stojan Madžunkov, *Proc. XI Congress of Physicists of Serbia and Montenegro*, Petrovac na Moru, 3 – 5 June 2004, Eds. Nikola Konjevic, Borko Vujcic and Predrag Miranovic, CD Contribution [s2\_13] pp. 2.79 – 82 (in Serbian)

30. B. Predojević, B.P. Marinković, D. Šević, V. Pejčev, D.M. Filipović, S. Cucković, "Merenje preseka za pobudjivanje autojonizacionih stanja atoma metala udarom elektrona," *Zbornik radova Drugog kongresa metrologa Jugoslavije 2000*, Novi Sad 15.-17. novembar 2000, CD 040, 7p.

29. A. Milosavljević, B.P. Marinković, D. Šević, S. Madzunkov, I. Cadez, M.V. Kurepa, "Merenje ugaonih raspodela elektrona i jona u eksperimentima sudara elektrona sa atomima i molekulima," *Zbornik radova Drugog kongresa metrologa Jugoslavije 2000*, Novi Sad 15.-17. novembar 2000, CD 043, 8p.

28. Dragutin Šević, Radmila Panajotović, Bratislav Marinković, Vladimir Pejčev, "Fuzzy median filter adapted for fitting the measured spectra in scattering experiments", u zborniku sa 44. ETRAN konferencije, Zlatibor, 26-29 jun 2000, pp 137-138.

27. Dragutin Šević, Bratislav Marinković, "Optimizacija osobina magnetskog polja trohoidalnog elektronskog monohromatora", 10. Kongres fizičara Jugoslavije, Vrnjačka banja, 27-29.3.2000. *Zbornik radova, Poster saopštenje, str.99-102.*

26. B.P. Marinković, R. Panajotović, V. Pejčev, D.Šević, S. Cucković i D.M. Filipović, "Bethe-ov dijagram eksperimentalnih rezultata rasejanja elektrona srednjih energija na atomima

Ilb grupe: Zn, Cd i Hg”, 10. Kongres fizičara Jugoslavije, Vrnjačka banja, 27-29.3.2000. Zbornik radova, Poster saopštenje, str.67-70.

25. D. Šević and M. Popović, “Coding of image subbands using neural networks,” Telekomunikacioni forum TELFOR '97, pp. 381-383, Beograd. 25-27. novembar 1997.

24. Dragutin Šević, Milan Stefanović, Radovan Antanasijević, Aleksandar Zarić, “Računarski sistem za detekciju retkih nuklearnih događaja,” u zborniku sa 41. ETRAN konferencije, Zlatibor, jun 1997, pp. 336-338.

23. M. Popović, D. Šević, A. Mojsilović, “Image coding using discrete Wavelet transform with direction dependent resolution,” in Proc. 41th ETRAN Conf., Zlatibor, jun 1997, pp. 261-263.

22. Dragutin Šević, Milan Stefanović, Radovan Antanasijević, Aleksandar Zarić, Jagoš Purić, Milivoje Čuk, “Računarski sistem za kalibraciju detektora neutrona u eksperimentu ”Plazma fokus”,” konferencija YU-INFO 97, Brezovića, 1-4. april 1997, pp. 877-881.

21. D. Šević and M. Popović, “Image coding using nonseparable wavelet transform and lattice vector quantization,” Telekomunikacioni forum TELFOR '96, Beograd. 26-28. novembar 1996, pp. 547-550.

20. R. Antanasijević, J. Vuković, D. Šević, D. Joksimović, A. Dragic, V. Udovičić, J. Purić and M. Čuk, “Angular distribution of positive particles emitted from deuterium plasma focus,” Konferencija X-JUNFE C, Kopaonik, Contributed papers, pp. 50-53, 1996.

19. R. Antanasijević, A. Dragic, D. Joksimović, Z. Marić, D. Šević, Z. Todorović and V. Udovičić, “Analysis of hot spots in deuterium plasma focus with the SSNTD,” Konferencija X-JUNFE C, Kopaonik, Contributed papers, pp. 54-57, 1996.

18. A. Mojsilović, M. Popović, D. Šević, “Analiza tekstone primenom 2×1-D Wavelet transformacije,” u zborniku konferencije 40. ETRAN, Budva, jun 1996, pp. 271-274.

17. Dragutin Šević, Milan Stefanović, Radovan Antanasijević, Jagoš Purić, Milivoje Čuk, “Prikuljanje i obrada podataka pomocu računara u eksperimentu ”Plazma fokus”,” u zborniku konferencije YU-INFO 96, Brezovića, april 1996, u zborniku apstrakata pp. 101-102.

16. Radovan Antanasijević, Dragutin Šević, Aleksandar Dragic i Vladimir Udovičić, “Istraživanje fuzionih procesa u deuterijumskim sredinama,” simpozijum Kvantni svet, Zbornik radova, pp. 168-174, Beograd 4 i 5 oktobar 1996.

15. Dragutin Šević, Aleksandar Zarić, Radovan Antanasijević, Djordje Konjević, Milivoje Čuk i Jagoš Purić, “Primena wavelet transformacije u obradi podataka eksperimenta plazma fokus”, 9. kongres fizičara Jugoslavije, Zbornik radova pp. 441-444, Petrovac, 29-31. maj 1995.

14. Aleksandar Zarić, Dragutin Šević, Radovan Antanasijević, Djuro Krmpotic, “Istraživanje supertekstskih elemenata u geološkim uzorcima”, 9. kongres fizičara Jugoslavije, Zbornik radova pp. 585-588, Petrovac, 29-31. maj 1995.

13. Radovan Antanasijević, Aleksandar Zarić, Dragutin Šević, Djordje Konjević, Zvonko Marić i J. P. Vigier, “Analiza X-zračenja emitovanog iz deuterijumskog plazma fokusa”, 9. kongres fizičara Jugoslavije, Zbornik radova pp. 349-350, Petrovac, 29-31. maj 1995.

12. Radovan Antanasijević, Aleksandar Zarić, Dragutin Šević, Zivojin Todorović, Djordje Konjević, Zvonko Marić, J. P. Vigier, “Detekcija nuklearnih reakcija u deuterijumskom plazma



fokusu”, 9. kongres fizičara Jugoslavije, Zbornik radova pp. 469-472, Petrovac, 29-31. maj 1995.

11. D. Šević i M. Popović, “Kodovanje slike rešetkastom vektorskom kvantizacijom i proširenom preklapljenom transformacijom”, u Zborniku sa Telekomunikacionog foruma TELFOR '95, pp. 705-708, Beograd 5-7. decembar 1995.

10. D. Šević i M. Popović, “Adaptivno orijentisano kodovanje slike proširenom preklapljenom transformacijom”, u zborniku konferencije ETRAN, Zlatibor, 6-9. jun 1995, vol. 1, pp. 242-245.

9. M. Popović i D. Šević, “Adaptivno orijentisano kodovanje slike wavelet transformacijom,” u zborniku konferencije TELSIS'95, 10-12 oktobar 1995, Niš, pp. 198-201.

8. D. Šević i M. Popović, “Kodovanje slike modulisanom preklapljenom transformacijom i vektorskom kvantizacijom”, u zborniku Telekomunikacioni forum TELFOR '94, pp. 354-357, Beograd 24-26. novembar 1994.

7. M. Popović i D. Šević, “Kodovanje slike Wavelet transformacijom i vektorskom kvantizacijom”, u zborniku konferencije ETRAN, pp. 135-136, Niš, jun 1994.

6. D. Šević and M. Popović, “Computationally Efficient Subband Coding of Images”, u zborniku Telekomunikacioni forum TELFOR '93, pp. 473-478, Beograd 24-26. novembar 1993.

5. D. Šević i M. Popović, “Kodovanje slike koriscenjem vektorske kvantizacije pri razlaganju na 10 podopsega”, u zborniku konferencije Telsiks '93, pp. 8.23-8.28, Niš 7-9. oktobar 1993.

4. D. Šević, ”Prakticna realizacija algoritma Notch Fourier Transform za digitalno procesiranje signala”, u zborniku 32 Simpozijum ETAN-a u pomorstvu, pp. 547-550, Zadar 25-27.06.1990.

3. D. Šević, ”Teorijski i prakticni aspekti fazne regulacije pomocu tiristora na primarnoj strani transformatora”, u zborniku 32 Simpozijum ETAN-a u pomorstvu, pp. 405-408, Zadar 25-27.06.1990.

2. D. Šević, A. Zarić, S. Pavljašević, ”Mikroprocesorsko upravljanje osetljivošću fotomultiplikatora u sistemu za detekciju nuklearnog zračenja”, u zborniku 31 Simpozijum ETAN-a u pomorstvu, pp. 200-203, Zadar 26-28.06.1989.

1. D. Šević, ”Generator visokonaponskih visokofrekventnih impulsa”, u zborniku III jugoslovenski simpozijum o primeni fizike, pp. XVIII, Beograd 10-12.4.1985.

## Abstracts at National Conferences

**18. D. Šević, M.S. Rabasović, J. Križan, S. Savić-Šević, M.G. Nikolić, and B.P. Marinković,** “Host effects on luminescent properties of Er, Yb doped nanophosphors”, *Proc. 14<sup>th</sup> Photonics Workshop*, March 14-17, 2021, Kopaonik, Book of Abstracts, Eds. D. Lukić, M. Lekić, Z. Grujić (Institute of Physics Belgrade, Belgrade, 2021) Oral presentation, p.24.

[Book of Abstracts](#)

ISBN 978-86-82441-52-6

<http://www.photonicsworkshop.ipb.ac.rs/14/index.php>

17. **D. Šević, M.S. Rabasović, J. Križan, S. Savić-Šević, M.D. Rabasović, M. G. Nikolić and B. P. Marinković,**

“Machine learning for laser induced fluorescence spectroscopy”,  
*Proc. 13<sup>th</sup> Photonics Workshop*, Kopaonik, 8-12 March 2020, Book of Abstracts, Eds. D. Lukić, M. Lekić, D. Grujić (Institute of Physics Belgrade, Belgrade, 2020) Progress Report, Oral presentation, p.18.  
Konferencija Trinaesta radionica fotonike (2019), Kopaonik 8-12.03.2020, Zbornik apstrakata, Urednici: D. Lukić, M. Lekić, D. Grujić (Institut za fiziku Beograd, 2020) Usmeno izlaganje, str.18.  
ISBN: 978-86-82441-50-2

<http://www.photonicsworkshop.ipb.ac.rs/13/index.php>

16. **D. Sević**, **M.S. Rabasovic**, J. Krizan, S. Savic-Sevic, M.D. Rabasovic, **B. P. Marinkovic**, and M. G. Nikolic,

“Effects of temperature on luminescent properties of Gd<sub>2</sub>O<sub>3</sub>:Er,Yb nanophosphor”

*Proc. 12<sup>th</sup> Photonics Workshop*, Kopaonik, 11-14 March 2019, Book of Abstracts, Eds. D. Lukić, M. Lekić, D. Grujić (Institute of Physics Belgrade, Belgrade, 2019) Oral presentation, p.43.

Konferencija Dvanaesta radionica fotonike (2019), Kopaonik 11-14.03.2019, Zbornik apstrakata, Urednici: D. Lukić, M. Lekić, D. Grujić (Institut za fiziku Beograd, Beograd, 2019) Usmeno izlaganje, str.43.

ISBN: 978-86-82441-49-6

<http://www.photonicsworkshop.ipb.ac.rs/12/index.php>

15. Rouaida M. Abozaid, **Ivana M. Radović**, Zorica Lazarević, **Dragutin Šević**, **Maja Rabasović** and Vesna Radojević,

“Processing and characterization of polymer nanocomposites with embedded ceramic quantum dots”,

*Proc. The Seventh Serbian Ceramic Society Conference »Advanced Ceramics and Application«*, September 17-19, 2018, Serbian Academy of Sciences and Arts, Belgrade, Serbia, Program; and the Book of Abstracts, Ed. V. Mitic, L. Mancic, N. Obradovic (Serbian Ceramic Society, Belgrade, 2018) Invited lecture: INV-AC3, p.59.

ISBN 978-86-915627-6-2

(M64=0,2)

14. Rouaida M. Abozaid, **Ivana M. Radović**, Zorica Lazarević, **Dragutin Šević**, **Maja Rabasović** and Vesna Radojević,

“Processing and characterization of polymer nanocomposites with embedded ceramic quantum dots”,

*Proc. The Seventh Serbian Ceramic Society Conference »Advanced Ceramics and Application«*, September 17-19, 2018, Serbian Academy of Sciences and Arts, Belgrade, Serbia, Program; and the Book of Abstracts, Ed. V. Mitic, L. Mancic, N. Obradovic (Serbian Ceramic Society, Belgrade, 2018) Invited lecture: INV-AC3, p.59.

ISBN 978-86-915627-6-2

(M64=0,2)

13. **D. Šević**, **M. S. Rabasović**, J. Križan, S. Savić-Šević, M. G. Nikolić, **B. P. Marinković**, and M. D. Rabasović,

“Effects of temperature on luminescent properties of YVO<sub>4</sub>:Eu<sup>3+</sup> nanophosphor”,

*Proc. 11<sup>th</sup> Photonics Workshop*, Kopaonik, 11-14 March 2018, Book of Abstracts, Ed. D. Lukić, (Institute of Physics Belgrade, Belgrade, 2018) Oral presentation, p.20.

Konferencija Jedanaesta radionica fotonike (2018), Kopaonik 11-14.03.2018, Zbornik apstrakata, Urednik: D. Lukić, (Institut za fiziku Beograd, 2018) Usmeno izlaganje, str.26.

ISBN: 978-86-82441-47-2

<http://photonicsworkshop.ipb.ac.rs/11/index.php>

12. D. Šević, M. S. Rabasović, J. Krizan, S. Savić-Šević, M. D. Rabasović,

“Luminescence and structural properties of Eu<sup>3+</sup> doped Sr<sub>2</sub>CeO<sub>4</sub> nanopowders”,

*Proc. 10<sup>th</sup> Photonics Workshop*, Kopaonik, Feb.26<sup>th</sup> – 2<sup>nd</sup> March 2017, Book of Abstracts, Ed. D. Lukić, oral presentation p.4. ISBN: 978-86-82441-45-8

<http://photonicsworkshop.ipb.ac.rs/10/>

(M64=0,2)

11. Maja S. Rabasović, Dragutin Šević and Nebojša Romčević,

“Fingerprint image enhancement: preliminary study of some computationally efficient approaches”,  
Konferencija 9. radionica fotonike 2016. Zbornik apstrakata, Kopaonik, 2 – 6.03.2016. Urednik: D. Lukić,  
Oral presentation, p.18.  
ISBN 978-86-82441-41-1, (Institute of Physics Belgrade)  
(M64=0,2)

10. Dragutin Šević and Maja S. Rabasović,  
“Nd:YAG laser ablation of dry bone and soft tissue: a time resolved LIBS study”,  
Konferencija 9. radionica fotonike 2016. Zbornik apstrakata, Kopaonik, 2 – 6.03.2016. Urednik: D. Lukić,  
Oral presentation, p.2.  
ISBN 978-86-82441-41-1, (Institute of Physics Belgrade)  
(M64=0,2)

9. M. S. Rabasović, D. Šević, J. Križan, M. D. Rabasović and N. Romčević,  
“Time resolved fluorescence spectra of YAG:Dy powder samples”,  
Konferencija 8. radionica fotonika 2015. Zbornik apstrakata, Kopaonik, 8 – 12.03.2015. Urednik: D. Lukić,  
Oral presentation, p.27.  
ISBN 978-86-82441-41-0, (Institute of Physics Belgrade)  
(M64=0,2)

8. Dragutin Šević, Maja Rabasović, Mladen Franko, Mira Terzić, Bratislav Marinković,  
“Analiza optičkih osobina i mogućnosti detekcije pigmenata cijanobakterija”  
7. radionica fotonika 2014. *Zbornik radova*, Kopaonik, 10 – 14.03.2014. Urednici: A. Kovačević, D. Lukić,  
Oral presentation, p.29.  
ISBN 978-86-82441-39-7

7. Dragutin Šević, Maja Rabasović, Bratislav Marinković,  
“Snimanje i procesiranje slika snimljenih *streak* kamerom”  
6. radionica fotonika 2013. *Zbornik radova*, Kopaonik, 4 – 8.03.2013. Urednici: A. Kovačević, D. Lukić, Oral  
presentation, p.20.  
ISBN 978-86-82441-35-9  
<http://photonicsworkshop.ipb.ac.rs/6/index.php>

6. D. Šević and B. P. Marinković,  
“Laser spectroscopy of biology relevant samples by streak camera” (in Serbian)  
“Laserska spektroskopija uzoraka od biološkog interesa korišćenjem streak kamere”,  
*Proc. 5<sup>th</sup> Fotonika*, 10 – 14. March 2012, Kopaonik, Serbia, Zbornik apstrakata, Ed. D. Lukić, p.32. Oral  
presentation. ISBN 987-86-82441-33-5

5. B. P. Marinković, V. Pejčev, B. Predojević and D. Šević,  
“Elastic electron scattering by bismuth”,  
Proc. 5<sup>th</sup> Conference On Elementary Processes In Atomic Systems (CEPAS2011) and the 2<sup>nd</sup> National  
Conference On Electronic, Atomic, Molecular And Photonic Physics (CEAMPP2011),, 21<sup>st</sup> – 25<sup>th</sup> June 2011,  
Belgrade, Serbia, Contributed Papers & Abstracts Of Invited Lectures, Editors: Aleksandar R. Milosavljević,  
Saša Dujko and Bratislav P. Marinković, Abstract of Poster Contributions p.125.  
ISBN: 978-86-82441-32-8  
Acknowledgements: MES Serbia (# 171020), ESF/COST Action Nano-IBCT (#MP1002).  
<http://www.cepas2011.ipb.ac.rs/CEAMPP11.html>

4. M. Terzić, M. S. Rabasović, D. Šević, A. Delneri, M. Franko and B. P. Marinković,  
“Analysis of cyanobacterial Cr-Phycocyanin by laser based techniques”,  
Proc. 5<sup>th</sup> Conference On Elementary Processes In Atomic Systems (CEPAS2011) and the 2<sup>nd</sup> National  
Conference On Electronic, Atomic, Molecular And Photonic Physics (CEAMPP2011),, 21<sup>st</sup> – 25<sup>th</sup> June 2011,  
Belgrade, Serbia, Contributed Papers & Abstracts Of Invited Lectures, Editors: Aleksandar R. Milosavljević,  
Saša Dujko and Bratislav P. Marinković, Abstract of Poster Contributions p.128.  
ISBN: 978-86-82441-32-8

Acknowledgements: MES Serbia (# 171020), ESF/COST Action FA0906 UV4growth.  
<http://www.cepas2011.ipb.ac.rs//CEAMPP11.html>

3. Sanja D. Tošić, D. Šević, V. Pejčev, D. M. Filipović and B. P. Marinković,  
“Electron Energy-Loss Spectroscopy of Ag Atom”,  
in Proc. 1<sup>st</sup> National Conference on Electronic, Atomic, Molecular and Photonic Physics, 15-18 May 2008,  
Zaječar, Serbia, Book of Contributed Papers and Abstracts of Invited Lectures and Progress Reports,  
Eds. A. R. Milosavljević, D. Šević and B. P. Marinković, (Institute of Physics, Belgrade 2008) ISBN: 978-86-  
82441-22-9, p.16.

2. S. Milisavljević, D. Šević, V. Pejčev, D. M. Filipović, B. P. Marinković,  
“Electron scattering by Ca atom”  
Proc. QuAMP II, The Second National Meeting on Quantum, Atomic, Molecular and Plasma Physics, The  
Open University, September 19<sup>th</sup> – 22<sup>nd</sup> 2005.

1. B.D. Stojanović, R. Antanasijević, D. Šević i Lj. Sutulović, “Brzina aktiviranja nelinearnih  
optičkih filtera sa t-t apsorbcijom”, 2. savetovanje društva fizikohemičara Srbije “Fizička  
hemija '94”, 26-28 septembar 1994, izvodi radova str. 112-113.

## **Theses**

### **Ph.D. thesis:**

Dragutin Šević, “Poboljšanja razlaganja slike na podopsege i kodovanja podopsega slike”,  
“Improvements of subband decomposition and subband coding of images”,  
University of Belgrade, Faculty of Electrical Engineering, 1995. (in Serbian)

### **Masters thesis:**

Dragutin Šević, “Analiza algoritama za diskretnu Hartljevu i Furijeovu transformaciju sa primenom u  
digitalnoj obradi signala”,  
“Analysis of algorithms for discrete Hartley and Fourier transform with application in digital signal  
processing”,  
University of Belgrade, Faculty of Electrical Engineering, 1991. (in Serbian)

### **B.Sc. Degree**

Dragutin Šević, “Praktična realizacija Čukovog konvertora”,  
“Practical realization of Čuk’s converter”,  
University of Belgrade, Faculty of Electrical Engineering, 1984. (in Serbian)