

## CURRICULUM VITAE

**ЛИЧНИ ПОДАЦИ** Виолета М. Петровић

**email:** violeta.petrovickg@gmail.com

**ЗВАЊЕ** Доктор физичких наука

### РАДНО ИСКУСТВО

**1997-1999** Сарадник у настави

**1999 – 2004** Асистент приправник, 2004-2008 Асистент

**2008 –** Доцент

### OBRAZOVANJE

2007	Доктор физичких наука Природно-математички факултет, Крагујевац
2003	Магистар физичких наука Природно-математички факултет, Крагујевац
1997	Дипломирани физичарг Природно-математички факултет, Крагујевац

### ОБЛАСТ ИНТЕРЕСОВАЊА

Радијациона, атомска, молекулска и оптичка физика

### ДОДАТНЕ ИНФОРМАЦИЈЕ

**Искуство у настави:** Електроника 1  
Електроника 2  
Архитектура рачунара 1  
Методиа наставе информатике  
Методиа наставе физике  
Историја физике

**Публикације:** 15 радова на SCI листи, 7 радова на међународним конференцијама, 4 рада у домаћим часописима

Листа публикација

1. **V. Petrovic** and V. Bocvarski, **Expert system for threshold spectra analysis**, *International Journal of Modern Physics C*, Vol. **14**, 433-440 (2003), ISSN: 0129-1831, (IF=0.750 31/83 2001) [M22]
2. **V. Petrovic** and V. Bocvarski, **Expert system for threshold spectra analysis of nitrogen molecules**, *International Journal of Modern Physics C*, Vol. **16**, Nb **9**, 1395-1407 (2005), ISSN: 0129-1831, (IF=1.099 29/83) [M22]
3. **V. Petrović**, V. Bočvarski and I. Petrović, **“Expert System For Threshold Spectra Analysis Of SO<sub>2</sub> Molecules”**, *International Journal of Modern Physics C*, Vol. **18**, No. **7**, 1133-1148, (2007), ISSN: 0129-1831, (IF=0.841 49/92) [M22]
4. Ivan Petrović, **V. Petrović**, D. Krstić, D. Nikezić and V. Bočvarski, **“Expert System For Analysis Of Spectra In Nuclear metrology”**, *International Journal of Modern Physics C*, Vol. **19**, No. **11**, 1763-1775, (2008), ISSN: 0129-1831, (IF=0.841 49/92) [M22]
5. T.B. Miladinović, **V.M. Petrović** and V.M. Ristić, **Influence of ponderomotive potential and non-zero initial momentum of ejected electron on transition rate in multiphoton ionization**, *Acta Physica Polonica A*, **124**, No. **4**, 658 – 660 (2013); ISSN: 0587-4246; DOI:10.12693-APhysPolA.124.658  
(IF = 0.604 za 2013. godinu; 65/83; oblast: Physics, Multidisciplinary), [M23]
6. T.B. Miladinović, **V.M. Petrović**, **Quasiclassical approach to tunnel ionization in the non relativistic and relativistic regimes**, *Revista Mexicana de Fisica*, **60**, No. **4**, 290-295, (2014); ISSN: 0035-001X  
(IF = 0.339 za 2014. godinu; 74/78; oblast: Physics, Multidisciplinary) [M23]
7. **V.M. Petrović**, T.B. Miladinović, **Influence of the spatial and temporal distribution of an incident laser beam profile on the energy distribution of ionized photoelectrons**, *JETP*, **119**, No. **4**, 651-656 (2014); ISSN:1063-7761;  
DOI: 10.1134/S1063776114100082  
(IF = 0.931 za 2013. godinu; 48/77; oblast: Physics, Multidisciplinary) [M23]
8. **V. Petrović**, T. Miladinović, V. Ristić, **Single and double tunneling ionization of the noble gases exposed to a linearly or circularly polarizes laser field**, *Romanian Reports in Physics*, **66**, No **4**, 929-938 (2014); ISSN:1221-1451;  
(IF = 1.517 za 2014. godinu; 32/78; oblast: Physics, Multidisciplinary) [M22]

9. Tatjana B. Miladinović, **Violeta M. Petrović**, **Relativistic angular distribution of photoelectrons in the tunneling ionization of atoms by a linearly polarized laser field**, *Brazilian Journal of Physics*, **45**, No. 2, 251 – 257(2015); ISSN: 0103-9733; DOI: 10.1007/s13538-015-0303-5

(IF = 1.042 za 2015. godinu; 44/79; oblast: Physics, Multidisciplinary), [M22]

10. Tatjana B. Miladinović, **Violeta M. Petrović**, Behavior of the **relativistic angular and energy distributions of atoms exposed to a strong and low-frequency circularly polarized laser field**, *Chinese Optics Letters*, **13**, No. 7, 070005– 4 (2015); ISSN: 1671-7694; DOI:10.3788/COL201513.070005

(IF = 1.899 za 2015. godinu; 33/87; oblast: Physics, Optics), [M22]

11. Tatjana B. Miladinović, **Violeta M. Petrović**, **Laser field ionization rates in the barrier-suppression regime**, *Journal of Russian Laser Research*, **36**, No. 4, 312 – 319 (2015); ISSN: 1071-2836; DOI:10.1007/s10946-015-9505-0

(IF = 0.800 za 2015. godinu; 67/90; oblast: Physics, Optics), [M23]

12. **Violeta M. Petrović**, Tatjana B. Miladinović, **Photoelectrons angular and energy distributions from laser- ionized argon atom**, *Romanian Journal of Physics*, **60**, No. 9-10,1450-1461 (2015); ISSN: 1221-146X;

(IF = 1.398 za 2015. godinu; 39/79; oblast: Physics, Multidisciplinary), [M22]

13. Tatjana B. Miladinović, **Violeta M. Petrović**, **Behaviour of tunnelling transition rate of argon atom exposed to strong low-frequency elliptical laser field**, *Pramana journal of physics*, **86**, No. 3, 565-573 (2016); ISSN: 0304-4289; DOI:10.1007/s12043-015-1023-7

(IF = 0.692 za 2015. godinu; 59/79; oblast: Physics, Multidisciplinary), [M23]

14. I. Petrović, **V. Petrović**, V. Bočvarski, D. Krstić and D. Nikezić, **Expert System For Analysis of Spectra of Natural Radionuclides**, *U.P.B. Sci. Bull., Series A*, Vol. 77, Iss. 3, 285, (2015), ISSN: 1223-7027. M23

(IF = 0.405 za 2014. godinu; 72/78; oblast: Physics, Multidisciplinary), [M23]

15. **Violeta M. Petrović**, Tatjana B. Miladinović, **Effect of the corrected ionization potential and spatial distribution on the angular and energy distribution in tunnel ionization**, *Journal of Experimental and Theoretical Physics*, 122, No 5, 813-817, (2016); ISSN:1063-7761; DOI: 10.1134/S1063776116050101

(IF = 0.953 za 2015. godinu; 49/79; oblast: Physics, Multidisciplinary) [M23]

#### Саопштења са међународних конференција

1. M. Bilbija, B. Marinković, V. Cvjetković, V. Nikolić and V. Bočvarski, *Logical model of information system in atomic collision physics, 19th Summer School and*

*International Symposium on the Physics of Ionized Gases*, (1998), 143-146, ISBN нема података, **M33 (1 поен)**.

2. V. Petrović and V. Bočvarski, *Expert system for threshold spectra analysis, Fifth General Conference of Balkan Physical Union, Vrnjačka Banja, Serbia and Montenegro*, (2003), 71, ISBN 86-902537-3-4, **M33 (1 поен)**
3. V. Cvjetković, B. Marinković, V. Bočvarski, M. Bilbija and V. Petrović, *Information System aided research in atomic physics, Fifth General Conference of Balkan Physical Union, BPU-5, Vrnjačka Banja, Serbia and Montenegro*, (2003), 55, ISBN 86-902537-3-4, **M33 (1 поен)**.
4. V. Cvjetković, V. Nikolić and V. Bočvarski, *Expert system for spectrum analysis in the near threshold spectroscopy, 19th Summer School and International Symposium on the Physics of Ionized Gases, Zlatibor* (1998), 147-150, ISBN нема података, **M33 (1 поен)**
5. V. Petrovic and V. Bocvarski, *Expert System For Threshold Spectra Analysis Of N<sub>2</sub> Molecules, 22nd Summer School and International Symposium on the Physics of Ionized Gases, Tara, Serbian and Montenegro*, (2004), ISBN 80-7306-063-6, **M33 (1 поен)**
6. V. Petrovic and V. Bocvarski, *Expert System For Threshold Spectra Analysis Of SO<sub>2</sub> Molecules, 23rd Summer School and International Symposium on the Physics of Ionized Gases, Kopaonik*, (2006), 79-82, ISBN 86-82441-18-7, **M33 (1 поен)**
7. Ivan Petrović, Violeta Petrović and Valerij Bočvarski, "The Expert System For Analysis Of Electron Energy-Loss Spectra", *Journal of Physics: Conference Series* 133, 1-8, (2008), ISSN: 1742-6588, **M 31 (3 поена)**
8. Ivan Petrović, Violeta Petrović and Valerij Bočvarski, " The Expert System For Analysis Of Atom and Molecule Threshold Spectra", *23rd Summer School and International Symposium on the Physics of Ionized Gases, Novi Sad*, 131-134, (2008), ISBN 978-86-80019-27-7, **M33 (1 поен)**

#### **Радови у домаћим часописима:**

1. Violeta Petrović, Mesto i uloga fizike u obrazovnom sistemu Republike Srbije, (2015), *Nastava Fizike*, ISSN: 2406-2626, Broj 1, 88-98. (Predavanje po pozivu, XXXIII Republički seminar o nastavi fizike, Zlatibor 2015)
2. Violeta Petrović, Realnost i izazovi inkluzivnog obrazovanja u okviru nastave fizike u srednjim školama, (2015), *Nastava Fizike*, ISSN: 2406-2626, Broj 2, 99-109. (Predavanje po pozivu, IV Međunarodna konferencija o nastavi fizike u srednjim školama, Aleksinac 2016)
3. Христина Делибашевић, Виолета Петровић, Фарадејев закон електромагнетне индукције, *Настава Физике*, ISSN: 2406-2626, Број 3, (Постер, XXXIV Републички семинар о настави физике, Златибор 2016)
4. Ivan D. Petrovic, Violeta M. Petrović, Tatjana B. Miladinović, **Theoretical and expert system approach to photoionization theories**, *Kragujevac J. Sci.* 38 (2016) 53-62. **[M51]**