

Биографија

Владимир Д. Стојановић рођен је 1961. године у Београду, где је завршио основну школу и гимназију. Дипломирао је на Електротехничком факултету Универзитета у Београду 1987. године на студијској групи за техничку физику.

У Институту за физику почео је да ради 1987. године. Последипломске студије на Електротехничком факултету у Београду, завршио је на смеру Физика и Техника Плазме 1991. Године. Магистарску тезу радио је у Лабораторији за гасну електронику под руководством др Бранислава Јеленковића и др Зорана Петровића.

Магистарску тезу са насловом "Електронски ексцитациони коефицијенти за побуђена стања азота на средњим и високим вредностима E/N (E -електрично поље, N – густина гаса)" одбранио је у априлу месецу 1992. године.

Докторску дисертацију са насловом "Моделовање Таунзендових пражњења на високим E/N и ниском притиску" одбранио је 13.марта 2008. године под руководством др Зорана Петровића и др Жељке Никитовић.

Садашња истраживачка активност кандидата везана је за симулације транспорта наелектрисаних честица и одређивање пресека за расејање електрона, јона и неутрала на молекулима.

Тренутно ради у групи академика Зорана Петровића са ангажовањем на два пројекта Министарства просвете и науке.

У Београду 12.септембра 2012.

Владимир Д. Стојановић

НАУЧНА И СТРУЧНА АКТИВНОСТ

Ангажовање на пројектима

У досадашњем истраживачком и научном и стручном раду је био учесник на следећим пројектима Министарства за науку:

2001-2004 „Физика нискотемпературних неравнотежних плазми” ОИ 1478

2005-2010 „Физичке основе примене неравнотежних плазми у нано-технологијама и третману материјала“ ОИ 141025

2011- „Примене нискотемпературних плазми у биомедицини, заштити човекове околине и нанотехнологијама“ III41011 Област: Биомедицина

2011- „Фундаментални процеси и примене транспорта честица у неравнотежним плазмама, траповима и наноструктурама“ ON171037, као и на међународном пројекту

“Reinforcing Experimental Centre for Non-Equilibrium Studies With Application in Nano-Technologies, Etching of Integrated Circuits and Environmental Research”.

На почетку каријере др Стојановић се бавио експерименталним мерењем транспортних коефицијената у слабострујним Таунзендовим пражњењима. Каријеру је наставио у домену нискотемпературске плазме и то у домену везаном за моделовање система ројева електрона и анализу добијених резултата. Нискотемпературне, неравнотежне плазме мастају у гасним пражњењима на ниским притисцима (мањим од 1 Torr) која се одржавају електричним и магнетним пољима којима се обезбеђује да електрони покрену дисоцијативне процесе и произведу саму плазму, али да при томе не дође до пораста температуре јона и неутрала. Такве плазме имају широку примену у најсавременијим технологијама. У микроелектроници ове плазме се користе за модификацију површина полупроводничких материјала. Под модификацијом површина подразумевају се процеси депозиције танких слојева, процеси анизотропног нагризања плазмом и процеси чишћења и распршивања материјала. Неравнотежне плазме су нашле и бројне примене у развоју извора светлости, плазма екрана, извора јона, псеудо спарк прекидача, гасних ласера, за уклањање загађујућих гасова.

Од 2006. године др Стојановић почиње да се бави и транспортом негативних јона у гасовима и прављењем базе података за транспорт негативних јона у гасовима.

Менторство

Међународна сарадња

Од 2006-2009 учествује на међународном пројекту FP6 IPB-CNP 026328: "Reinforcing Experimental Centre for Non-Equilibrium Studies With Application in Nano-Technologies, Etching of Integrated Circuits and Environmental Research".

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SPISAK RADOVA KANDIDATA dr Vladimira Stojanovića

Napomena: sa zvezdicom (*) su označeni radovi publikovani posle izbora u zvanje naučni saradnik,

M21. Radovi objavljeni u vrhunskom međunarodnom časopisu (vrednost rezultata=8)

1. **V.D. Stojanović**, J. Božin, Z. Lj. Petrović and B.M. Jelenković,
Excitation of the C^3A_u state of N_2 and $B^2E_g^+$ state of N_2^+ by electrons at moderate and high values of E/N
Phys. Rev. A (1990) **42** 4983.

2. Z. Stokić, M.M.F.R. Fraga, J. Božin, **V. Stojanović**, Z. Lj. Petrović and B.M. Jelenković
Excitation of Balmer lines in low-current discharges of hydrogen and deuterium
Phys. Rev. A (1992) **45** 7463.

3. **V.D. Stojanović**, B.M. Jelenković and Z. Lj. Petrović
Excitation by electrons and fast neutrals in nitrogen discharges at very high electric field to gas density ratios
J. Appl. Phys. (1997) **81** 1601.

4. Z. Lj. Petrović and **V.D. Stojanović**
The role of heavy particles in kinetics of low current discharges in argon at high electric field to gas density ratios
J. Vac. Sci. Technol. A (1998) **16** 329.

5. **V.D. Stojanović** and Z. Lj. Petrović
Comparison of the results of Monte Carlo simulations with experimental data for electron swarms in N_2 from moderate to very high electric field to gas density ratios (E/N)
J. Phys. D: Appl. Phys. (1998) **31** 834.

6. A.A. Mihajlov, **V.D. Stojanović** and Z. Lj. Petrović
Resonant vibrational excitation/de-excitation of $N_2(v)$ by electrons
J. Phys. D: Appl. Phys. (1999) **32** 2620.

7. S. Vrhovac, **V. Stojanović**, B. Jelenković and Z. Petrović
Energy distribution of electrons in low-current self-sustained nitrogen discharge
J. Appl. Phys. (2001) **90** 5871.

8. Z. Lj. Petrović, M. Šuvakov, Ž. Nikitović, S. Dujko, O. Šašić, J. Jovanović,
G. Malović and **V. Stojanović**

Kinetic phenomena in charged particle transport in gases, swarm parameters and cross section data.

Plasma Sources Sci. Technol. (2007) **16**, S1-S12.

doi:10.1088/0963-0252/16/1/S01 TOPICAL REVIEW

9. *J.V. Jovanović, Z.Lj. Petrović, and V. Stojanović

Cross Sections and Transport Properties of F⁻ Ions in Ar, Kr and Xe

Nucl. Instr. And Meth. In Phys. Res. B (NIM B) **267(2)** (2009) pp. 295-298.

doi: 10.1016/j.nimb.2008.10.037

10.*Z Lj Petrović, V Stojanović and Ž. Nikitović

Modelling of thermalization of fast electrons in nitrogen at low pressures

Plasma Sources Sci. Technol. **18** (2009) 034017 (6pp)

11.*Željka D Nikitović, Vladimir D Stojanović, Jean Paul Booth and Zoran Lj Petrović

Electron transport coefficients in mixtures of CF₄ and CF₂ radicals

Plasma Sources Sci. Technol. **18** (2009) 035008 (6pp)

12.*Z. Lj. Petrović, S. Dujko, D. Marić, G. Malović, Ž. Nikitović, O. Šašić, J. Jovanović, V. Stojanović and M. Radmilović-Rađenović

Measurement and interpretation of swarm parameters and their application in plasma modelling

J. Phys.D:Appl. Phys. **42** (2009) 194002 (33pp)

doi: 10.1088/0022-3727/42/19/194002

13.* Nikitović Ž., Stojanović V., Petrović Z. Lj, Cvelbar U., Mozetič M.

Transport coefficients for electron scattering in CF₄/Ar/O₂ mixtures with a significant presence of F_x or CF_x radicals

EPL Vol 91 Issue: 5 (2010) 55001

ISSN: 0295-5075 DOI: 10.1209/0295-5075/91/55001

14.*Ž. Nikitović, S. Radovanov, L. Godet, Z. Raspopović, O. Šašić, V. Stojanović and Z. Lj. Petrović,

Measurements and modeling of electron energy distributions in the afterglow of a pulsed discharge in BF₃

EPL Vol 95 (2011) 45003

15. *Vladimir D. Stojanović, Zoran M. Raspopović, Jasmina Jovanović, Željka D., Nikitović, Svetlana B. Radovanov, Zoran Lj. Petrović,

Cross sections and transport properties of positive ions in BF₃ plasmas

Nuclear Instruments and Methods in Physics Research Section B **279** (2012) pp. 151-154 ,

DOI-10.1016/j.nimb.2011.10.052 (2011)

16. *Ž. Nikitović, V. Stojanović and Z. Lj. Petrović

Transport of electrons in Ar/H₂ mixtures

EPL Vol 99 (2012) 35003

ISSN: 0295-5075 DOI: 10.1209/0295-5075/99/35003

**M22. Radovi objavljeni u istaknutom međunarodnom časopisu
(vrednost rezultata=5)**

1. Z. Lj. Petrović, Z. M. Raspopović, **V. D. Stojanović**, J. V. Jovanović, G. Malović,
T. Makabe and J. de Urquijo

**Data and modeling of negative ion transport in gases of interest for production of
integrated circuits and nanotechnologies.**

Applied Surface Science, (2007) **253**, pp.6619-6640,

2. Željka D. Nikitović, Aleksandra I. Strinić, **Vladimir D. Stojanović**,
Gordana N. Malović and Zoran Lj. Petrović

A Monte Carlo simulation of collisional processes in a Townsend discharge in neon

Radiation Physics and Chemistry (2007) **76** pp.556-560.

3. Željka Nikitović, Aleksandra Strinić, Gordana Malović, **Vladimir Stojanović** and Zoran Lj.
Petrović

**Measurements and analysis of spatial profiles of 777.4 nm line in Townsend discharge in
oxygen**

Acta Chim. Slov. (2008) **55** pp.219-222 (ISSN: 1318-0207) online at <http://acta.chem-soc.si>

4.*Z. Lj. Petrović, J.V. Jovanović, **V. Stojanović**, Z. M. Raspopović and Z. Ristivojević

Cross Sections and Transport Properties of Cl⁻ Ions in Noble Gases

The European Physical Journal D **48** 1 (2008) pp.87-94.

M23. Radovi objavljeni u međunarodnom časopisu (vrednost rezultata=3)

1. Zoran Petrović and **Vladimir Stojanović**

**Anomalous Doppler broadening of Hydrogen lines due to excitation by fast neutrals in low
pressure Townsend discharges**

Mem. S.A.It. (2005) Vol. 7, 172

2. Ž.D. Nikitović, A.I. Strinić, G.N. Malović, **V.D. Stojanović** and Z. Lj. Petrović

**Modeling of absolute spatial emission profiles of Townsend discharges
at high E/N in methane by a Monte Carlo technique.**

Czech. J. Phys. (Suppl. B) (2006) **56**:B958-B962.

3. M. Radmilović-Rađenović, A. Stojković, A. Strinić, **V. Stojanović**,
Ž. Nikitović, G.N. Malović and Z.Lj. Petrović

Modeling of a plasma etcher for charging free processing of nanoscale structures

Materials Science Forum (2006) **518** pp.57-62,

(ISBN: 0-87849-405-7) (ISSN: 0255-5476).

online at <http://www.scientific.net>

4. M. Radmilović-Radenović, Z.Lj. Petrović, Ž. Nikitović, A. Strinić, **V. Stojanović**, A. Nina and B. Radenović

Particle-in-cell Modelling of a Neutral Beam Source for Material Processing in Nanoscale Structures Fabrication

Materials Science Forum (2007) **555** pp.47-52,

(ISBN: 0-87849-405-7) (ISSN: 0255-5476).

online at <http://www.scientific.net>

5.*Ž. Nikitović, **V. Stojanović** and Z. Lj. Petrović

On the role of radicals in kinetics of plasma etchers in Ar/CF₄ mixtures

Acta Physica Polonica A, vol.115, (2009) pp. 765-767

6.*Ž. Nikitović, O. Šasić, Z. Raspopović, **V. Stojanović**, S. Radovanov, M. Mozetić and U. Cvelbar,

Modeling of Electron Kinetics in BF₃

Acta Physica Polonica A, vol.117(5) (2010) pp. 748-751

7. *Ž. Nikitović and **V. Stojanović**

The influence of F, F₂ on electrons in BF₃

Hemijska industrija (2011) pp. 229-232

doi:10.2298/HEMIND110110014N

8. *Željka Nikitović, **V. Stojanović** and M. Radmilović-Radjenović,

Transport Coefficients For Electrons in Mixtures CF₄/Ar/O₂ and CF, CF₂ or CF₃ Radicals,

Acta Physica Polonica A, vol.120 (2011) pp. 289-291

9. *Vladimir Stojanović, Željka Nikitović and Zoran Lj. Petrović

On Anisotropy and Spatial Dependence of Doppler-Induced Broadening Due to Heavy-particle excitation

IEEE Transactions on Plasma Science, vol 39. No.11 (2011) pp.2592-2593

ISSN: 0093-3813, DOI: 10.1109/TPS.2011.2160743

10. ***V. Stojanović** and Ž. Nikitović

MODELING OF EXCITATION BY HEAVY PARTICLES IN PURE H₂ DISCHARGES AT HIGH E/N

Acta Physica Polonica A, vol.121 (2012) pp. 622-624

**M31. Predavanja po pozivu sa međunarodnog skupa štampano u celini
(vrednost rezultata=3)**

1. *Vladimir D. Stojanović

Modeling of Townsend discharges at high E/N and low pressure

Journal of Physics: Conference Series 133 (2008) 012008

24th Summer School and International Symposium on the Physics of Ionized Gases edited by G. Malović, L. Č. Popović, M. S. Dimitrijević
August 25-29, 2008, Novi Sad, Serbia.

**M32. Predavanja po pozivu sa međunarodnog skupa štampana u izvodu
(vrednost rezultata=1.5)**

1. *V. Stojanović, Ž. Nikitović and Z. Lj. Petrović

Monte Carlo modeling of electrons and heavy particles in pure H₂ discharge

CEPAS 2011 & CEAMPP 2011 Ed. A. Milosavljević, S. Dujko, B. Marinković

5th Conference on Elementary Processes in Atomic Systems, Belgrade, Serbia, June 21-25, 2011, p.62

M33. Radovi saopšteni na skupovima međunarodnog značaja štampani u celini (vrednost rezultata=1)

M33.1 Koautorska predavanja po pozivu

1. Z.Lj. Petrović, V. Stojanović, Ž. Nikitović

Electron, ion and atom collisions leading to anomalous Doppler Broadening in hydrogen

AIP Conf. Proc. -- September 28, 2007 -- Volume 938, pp. 237-244

SPECTRAL LINE SHAPES IN ASTROPHYSICS:

VIth Serbian Conference on Spectral Line Shapes in Astrophysics (VI SCSLSA)

June 11-15 2007, Sremski Karlovci, Serbia, eds. Milan S. Dimitrijević and Luka È. Popović

Online ISSN 1551-7616

2. *Z. Lj. Petrović, Ž. Nikitović and V. D. Stojanović

MODELING OF ANOMALOUS DOPPLER BROADENED LINES, THERMALIZATION OF ELECTRONS AND THE ROLE OF RADICALS IN DISCHARGES AT HIGH E/N

Journal of Physics: Conference Series 133 (2008) 012003

24th Summer School and International Symposium on the Physics of Ionized Gases edited by G. Malović, L. Č. Popović, M. S. Dimitrijević
August 25-29, 2008, Novi Sad, Serbia.

3. *Z. Lj. Petrović, S. Dujko, A. Banković, J. Jovanović, O. Šašić,

Ž. Nikitović, V. Stojanović and J. P. Marler

Electron and Position Swarms: Collision and Transport Data and Kinetic Phenomena

**Proceedings of the Seventeenth International
Conference on GAS DISCHARGES AND THEIR APPLICATIONS
Cardiff University 7th – 12th September 2008
Editor: J. E. Jones, D.Sc. pp. 71-80.**

4. *Z. Lj. Petrović, M. Radmilović-Rađenović, D. Marić, G. Malović, **V. Stojanović** and Ž. Nikitović

Basic Phenomena and Data for Modelling of Interactions Between Surfaces and Gas Discharges

6th solid states surfaces and interfaces

November 24-27, 2008, Smolenice Castle, Slovak Republic, pp. 39-42.

5. *Z. Lj. Petrović, S. Dujko, Ž. Nikitović, **V. Stojanović**, M. Savić, M. Radmilović-Rađenović, D. Marić, G. Malović and A. Banković

Theoretical foundations, numerical techniques and application of transport coefficients in modelling of plasmas and gas breakdown

(2009) 2nd International Conference On Advanced Plasma Technologies With 1st International Plasma Nanoscience Symposium, sep 29th-Oct 2nd, Piran, Slovenia, Conference Proceedings, pp.28-31

6.*Zoran Lj. Petrović, Saša Dujko, Olivera Šašić, **Vladimir Stojanović** and Gordana Malović,

Kinetic phenomena in charged particle transport in gases and plasmas

AIP Conference Proceedings vol. 1438, pp. 17-22 (2012); doi: 10.1063/1.4707849

The 17th International Conference On Atomic Processes in Plasmas) ICAPiP

M33.2 Radovi saopštene na skupovima

1. **V. Stojanović**, Z.Lj. Petrović, J. Božin, B.M. Jelenković

Excitation of $C^3\Pi_u$ of N_2 and $B^2\Sigma_g^+$ of N_2^+ at high E/N ,

(1988), SPIG 88, Sarajevo, Yugoslavia, Proc. Contrib. Papers p.124.

2. **V. Stojanović**, Z.Lj. Petrović, J. Božin, B.M. Jelenković

Excitation of $B^2\Sigma_g^+$ of N_2^+ by electrons at high E/N

(1988), IX ESCAMPIG, Lisbon, Portugal, p.313.

3. J. Božin, **V. Stojanović**, Z.Lj. Petrović, B.M. Jelenković

Excitation coefficients for the $C^3\Pi_u$ of N_2 and $B^2\Sigma_g^+$ of N_2^+ at high electric fields to gas density ratios

(1989), ICPIG, Book of contributed papers, ed. J.M. Labat, Beograd, Yugoslavia, 3 558.

4. **V. Stojanović**, J. Božin, Z. Stokić, Z. Petrović, B. Jelenković

Electron excitation coefficient for the a state of H_2 in discharges at high electric field to gas density ratio

(1990), Proc. SASP (Symposium on Atomic and surface Physics), Ed's T.D. Mark and F. Howorka, Obertaun, Austria p.160.

5. J. Božin, Z. Stokić, **V. Stojanović**, Z. Petrović, B. Jelenković
Electron Excitation Coefficients for the Continuous Spectrum of Deuterium
(1990), 17th EPS Fusion Conference Ed. G.Briffod, Adri Nijsen-Vis and Schuller Amsterdam, Holland, pp.1405-1408.

6. Z. Stokić, J.V. Božin, **V. Stojanović**, Z. Lj. Petrović, B.M. Jelenković
Electron Excitation of a $^3\Sigma_g$ state of deuterium in D_2 discharges at moderate and high values of E/N
(1990) X ESCAMPIG 1990, Orleans, France, Ed. Prof. B. Dubreuil
Europhysics Conference Abstracts, **14E** 138.

7. Z. Stokić, **V. Stojanović**, J. Božin, Z. Petrović, B.M. Jelenković
Ionization and excitation by electrons in H_2 at moderate and high E/N
(1991), ICPIG, Ciocco, Italy, Contributed Papers 4, p.149.

8. B.M. Jelenković, Z. Stokić, **Vladimir Stojanović**, Zoran Petrović
Monte Carlo simulations of electron kinetics at high E/N in N_2
(1991), ISPC-10 (International Symposium on Plasma Chemistry), Bochum, Germany, Ed.s Ute Ehlemann, H.G.Lergon and K.Wiesemann, p .3.2.24.

9. S.B. Radovanov , Z. Lj. Petrović, S.A. Bzenić, S.B. Vrhovac, **V. Stojanović**, B.M. Jelenković
Spectroscopic studies of discharges in hydrogen
(1991), (International Symposium on Plasma Chemistry), Bochum, Germany, Ed.s Ute Ehlemann, H.G.Lergon and K.Wiesemann, p. 2.1.14.

10. Z.Lj. Petrović, **V.D. Stojanović**
Monte Carlo simulation of electron kinetics at high E/N
(1992), Proc. Tenth International Conference on Gas Discharges and their applications, vol. II, GD92, Swansea, UK, p.832.

11. **V.D. Stojanović**, Z.Lj. Petrović
Monte Carlo simulation of emission in nitrogen taking into account simple models of electron reflection and emission at anode boundary
(1994), 6th APP and 11th AIPC, Brisbane, Australia, p.97.

12. **V.D. Stojanović**, Z. Lj. Petrović
Monte Carlo Simulation of Electron Transport at very High E/N
(1995) International Symposium on Electron and Photon- Molecule Collisions and Swarms, ed. T. Rescigno, Berkeley, USA, H-5

13. **V.D. Stojanović**, Z.Lj. Petrović
 Ar^+ swarms in argon at high E/N

(1996) Proc. 18th SPIG, Ed.s B. Vujičić and S. ourović, (Kotor, Yugoslavia) p.124.

14. **V.D. Stojanović**, B.M. Jelenković, Z.Lj. Petrović

Heavy particle excitation in nitrogen at very high E/N

(1996) Proc. 13th ESCAMPIG-96 (ed. P. Lukac, I. Kosinar, J. Skalny) (Poprad, Slovakia) p.65.

(1996) Europhysics conference abstracts **20E** 65.

15. V.D. Stojanović, Z.Lj. Petrović

Arrival time spectrum of electron and ion avalanches at very high E/n in nitrogen

(1996) Proc. First Belarussian-Yugoslav symposium on Physics and Diagnostics of Laboratory and Astrophysical Plasma PDP-I 96 (Ed. V.S. Burakov and M.S. Dimitrijević) (Minsk, Belarus) p.35.

16. **V.D. Stojanović**, Z.Lj. Petrović

The effect of reflection of fast electrons from the anode: Monte Carlo simulation of low current discharges at very high E/N

(1997) XIII ICPiG, Toulouse, France, Proceedings Contributed Papers, Editors: M. C. Bordage and A. Gleizes I-34.

17. **V. Stojanović**, Z.Lj. Petrović

Monte Carlo simulation of non-equilibrium electron and heavy particle transport at very high E/N

(1997) ICRP-3/SPP-14, Nara, Japan, VIb-5 p. 233.

18. Z.Lj. Petrović, **V.D. Stojanović**

Monte Carlo simulation of spatial line emission profiles in low current argon discharges at high E/N

(1997), International Symposium on Electron-Molecule Collisions and Ion and Electron Swarms, Ed. M. Allan, Engelberg, Switzerland P 64/1.

19. A.A. Mihajlov, **V.D. Stojanović**, Z.Lj. Petrović

Rate coefficients for resonant electron induced excitation between two vibrational levels of nitrogen

(1998), Proc. XIV ESCAMPIG 98, Malahide, Ireland, Europhys. Abstracts **22H** 96.

20. J. Spasojević, A. Strinić, **V.D. Stojanović**, Z.Lj. Petrović

Excitation of N_2 at very high E/N ratios

(1998), XIX SPIG, Zlatibor, Yugoslavia, Contributed Papers, ed. N.Konjević, M.Ćuk and I. Videnović pp.179-182.

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M34. Radovi saopšteneni na skupovima međunarodnog značaja štampani u izvodu (vrednost rezultata=0.5)

M34.1 Koautorska predavanja po pozivu

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Chemical physics of low temperature plasmas (31 Jan- 2 Feb 2011, Bari, University of Bari)

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**Transport Coefficients and Cross Section Set for Electron Scattering in mixtures CF₄ and
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ODREĐIVANJE TRANSPORTNIH KOEFICIJENATA U SMEŠI BF_3 I F_2

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**M64. Saopštenja sa skupa nacionalnog značaja štampana u izvodu
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**TRANSPORTNI KOEFICIJENTI I PRESECI ZA RASEJANJE ELEKTRONA U
SMEŠAMA CF₃ I CF₄**

*PROGRAM I ZBORNIK APSTRAKTA 51. KONFERENCIJE ZA ETRAN, HERCEG NOVI-
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3.*Željka Nikitović,**Vladimir Stojanović** i Zoran Lj. Petrović
**TRANSPORTNI KOEFICIJENTI ZA RASEJANJE ELEKTRONA U SMEŠAMA CF₄,
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*Zbornik apstrakta i program 53. Konferencije ETRAN, Ed. Zoran Jakšić, Zorica Nikolić,
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*Zbornik apstrakta i program 55. Konferencije ETRAN, Društvo za ETRAN, Institut IMTEL
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M70. MAGISTARSKE I DOKTORSKE TEZE

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Odbranjena magistarska teza M72 (vrednost rezultata=3)

Vladimir Stojanović, “Elektronski eksitacioni koeficijenti za pobuđena stanja azota na srednjim i visokim vrednostima E/N (E -električno polje, N -gustina gasa)”
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**МИНИМАЛНИ КВАНТИТАТИВНИ ЗАХТЕВИ ЗА СТИЦАЊЕ ПОЈЕДИНАЧНИХ
 НАУЧНИХ ЗВАЊА**

За природно-математичке и медицинске струке

Диференцијални услов- Од првог избора у претходно звање до избора у звање.....	потребно је да кандидат има најмање XX поена, који треба да припадају следећим категоријама:		
		Неопходно XX=	Остварено
Научни сарадник	Укупно	16	
	$M_{10}+M_{20}+M_{31}+M_{32}+M_{33}$ $M_{41}+M_{42} \geq$	10	
	$M_{11}+M_{12}+M_{21}+M_{22}$ $M_{23}+M_{24} \geq$	5	
Виши научни сарадник	Укупно	48	131.6
	$M_{10}+M_{20}+M_{31}+M_{32}+M_{33}$ $M_{41}+M_{42}+M_{51} \geq$	40	110.5
	$M_{11}+M_{12}+M_{21}+M_{22}$ $M_{23}+M_{24}+M_{31}+M_{32}+M_{41}+M_{42} \geq$	28	91.5
Научни саветник	Укупно	65	
	$M_{10}+M_{20}+M_{31}+M_{32}+M_{33}$ $M_{41}+M_{42}+M_{51} \geq$	50	
	$M_{11}+M_{12}+M_{21}+M_{22}$ $M_{23}+M_{24}+M_{31}+M_{32} \geq$	35	

За избор у научног саветника је потребно да је публикован један рад категорија M_{41} - 45
 M_{51} - 52 на српском језику или језицима националних мањина.

У Београду 14. септембра 2012. године