

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".

Педагошки рад

Цитираност

Укупно цитата **322**

Укупно цитата без самоцитата **246**

h-index = 9

U Beogradu, 14.09.2012.godine

SPISAK RADOVA KANDIDATA dr Vladimira Stojanovića

Rad objavljen u međunarodnom časopisu kategorija M_{21} (k=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

10. 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) 87-94

11. *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

12. *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)

13. *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)

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

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](https://doi.org/10.1088/0022-3727/42/19/194002)

15.* 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

16.*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

17. ***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)

18. *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

Rad objavljen u međunarodnom časopisu kategorija M₂₂(k=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**, 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) 87-94

Rad objavljen u međunarodnom časopisu kategorija M₂₃ (k=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**,

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-Rađenović, Z.Lj. Petrović, Ž. Nikitović, A. Strinić, **V. Stojanović**, A. Nina and B. Rađenović

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

Hemijaska 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 PolonicaA, 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 PolonicaA, vol.121 (2012) pp. 622-624

Predavanja po pozivu štampana u celini $M_{31}(k=3)$

1. Vladimir D. Stojanović

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

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, p. 20

Journal of Physics: Conference Series **133** (2008) 012008

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

Electron, ion and atom collisions leading to anomalous Doppler broadening in Hydrogen and Hydrogen rare gas mixtures

VI Serbian Conference On Spectral Line Shapes In Astrophysic

Eds. Milan S. Dimitrijević and Luka Č. Popović

11-15 June 2007, Sremski Karlovci, Serbia, pp. 237-244

3. 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

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, p. 14

Journal of Physics: Conference Series **133** (2008) 012003

4. 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

5.*Stojanović Vladimir D., Nikitović Željka D. and Petrović Zoran Lj.

Doppler Profile in Townsend Discharge in Pure Hydrogen (Proceedings Paper)

7th International Conference of the Balkan Physical Union vols. 1 and 2 (2009) vol. 1203 pp.

318-323 ISSN: 0094-243x

Predavanja po pozivu štampana u izvodu $M_{32}(k=1.5)$

1. Nikitović Ž. D., Strinić A. I., Radmilović-Radenović M. D., Malović G. N., Stojanović V. D., Šamara V. M., Petrović Z. Lj.

Heavy particle excitation and delay distance in oxygen

22nd Summer School and International Symposium on the Physics of Ionized Gases, August 23-

27, 2004, Tara, Serbia and Montenegro (2004) p.145-149

2. Z. Lj. Petrović, J. Jovanović, O. Šašić, Ž. Nikitović, **V. Stojanović**, S. Dujko, A. Banković, J. P. Marler, G. Malović

Transport of Charged Particles and Fast Neutrals in Low Pressure Gases and Discharges
Second Workshop & Training School on Low Cost Applications of Plasma Technology in Industry and Environment 10-15 November 2007, Al-Azhar University, Nasr City, Cairo, Egypt

3. 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

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, p. 14

4. 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

5. Z. Lj. Petrović, D. Marić, Ž. Nikitović, C. M. O. Mahony, P. D. Maguire, M. Radmilović-Rađenović, N. Škoro and **V. Stojanović**

Voltampere Characteristics of Low Current Micro Discharges and Transport Coefficients in CF_x/CF₄ Mixtures

The 6th EU-Japan Joint Symposium on Plasma Processing (EU-Japan JSPP)
April 21-23, 2008, Okinawa, Japan, pp. 16-17

6. Z. Lj. Petrović, S. Dujko, J. Jovanović, O. Šašić, S. Dupljanin, G. Malović, Ž. Nikitović, **V. Stojanović**, A. Banković

Kinetic phenomena and data for cross sections for electrons, positrons and negative ions in ionized gases

21 Symposium on Plasma Science for Materials
October 8-11, 2008, Huangshan, China, p.49

7. 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

8. Z. Lj. Petrović, S. Dujko, Ž. Nikitović, **V. Stojanović**, M. Savić, M. Radmilović-Radenović, 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

*9. Z. Lj. Petrović, G. Malovic, O. Šašić, J. Jovanović, Ž. Nikitović, V. Stojanović, S. Dujko, A. Banković and J de Urquijo

ELECTRON AND POSITRON SWARMS: COLLISION AND TRANSPORT DATA AND KINETIC PHENOMENA

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

Radovi saopšteni na skupovima međunarodnog značaja štampani u celini
 $M_{33}(k=1)$

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

Excitation of C^3A_u of N_2 and $B^2E_g^+$ 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 $B^2E_g^+$ 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^3A_u of N_2 and $B^2E_g^+$ 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 a³Γ_g state of deuterium in D₂ 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 H₂ 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 N₂
(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. Đurović, (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.
21. A.A. Mihajlov, V.D. Stojanović and Z.Lj. Petrović
Resonant vibrational excitation of $N_2(v)$ by electrons
(1998), XIX SPIG, Zlatibor, Yugoslavia, Contributed Papers ed. N. Konjević, M. Ćuk and I. Videnović, pp.81-84.
22. Z.Lj. Petrović, V. Stojanović, M. Radmilović
The influence of electrons reflected from the anode on ionization
(2000), XXth SPIG, Zlatibor, Yugoslavia, Contributed Papers, Editors: Z.Lj. Petrović, M.M. Kuraica, N. Bibić and G. Malović, p.131.
23. V.D. Stojanović, Z.Lj. Petrović
Validity of perturbation theory for ion transport at very high E/N

- (2002), 34th EGAS, Sofia, Bulgaria, P2-64.
24. J.V. Jovanović, S. Dujko, V. Stojanović, S.B. Vrhovac, Z.Lj. Petrović
Momentum transfer of ion transport under the influence of resonant charge transfer collisions: the case of argon and neon ions in parent gases
 (2002), Proc. 21st SPIG (Symposium on physics on ionized gases) Ed. M.K. Radović and M.S. Jovanović, Sokobanja, Yugoslavia, pp. 160-163.
25. V. D. Stojanović, Z.Lj. Petrović,
Non-hydrodynamic effects for N_2^+ ion transport close to the boundaries
 (2003), Fifth General Conference of the Balkan Physical Union, BPU-5, *Proceedings*, Ed. S. Jokić, I. Milošević, A. Balaž and Z. Nikolić, 25-29. avgust, Vrnjačka Banja, Serbia and Montenegro, content on CD-ROM, ISBN 86-902537-4-2
26. V. D. Stojanović, M. Radmilović-Radenović, Z.Lj. Petrović,
Modelling of electron reflection from the anode
 (2003), International Symposium on Electron-Molecule Collisions and Swarms, 30 July – 2 August, Pruhonice near Prague, Czech Republic.
27. A.I. Strinić, Ž.D. Nikitović, G.N. Malović, V.D. Stojanović, Z.Lj. Petrović
Modeling of spatial emission profiles of high E/N in neon by Monte Carlo technique
Seventeenth European Conference on Atomic & Molecular Physics of Ionized Gases (ESCAMPIG 17), edited by Victor Ciupina, Geavit Musa and Rodica Vladioiu, published by European Physical Society, Constanta-Romania, September 1-5 (2004) p. 90-91.
28. A. Strinić, Ž. Nikitović, V.D. Stojanović, G. Malović, Z.Lj. Petrović
Monte Carlo simulation Townsend discharges in neon
XXVIIth ICPIG, Eindhoven, the Netherlands (2005) 1-3.
29. J.V. Jovanović, Z.Lj. Petrović, Z.M. Raspopović, V. Stojanović
Cross sections and transport properties of Cl ions in Ar
 2006, in 18th European Conference on The Atomic and Molecular Physics of Ionized Gases, ESCAMPIG XVIII, Lecce, Italy, 225.
30. V.D. Stojanović, Z.Lj. Petrović
337.1 nm And 391.4 nm Emission as a Consequence of Electron Thermalization in Pure N_2
 SPIG 2006, 23rd Summer School and International Symposium on the Physics of Ionized Gases, Kopaonik, Serbia, August 28 – September 1, 2006,
 Contributed papers & Abstracts of Invited Lectures, Topical Invited lectures and progress reports, Editors, N.S. Simonović, B.P. Marinković and Lj. Hadžievski, p.101.
31. Zeljka Nikitović, Aleksandra Strinić, Vladimir Stojanović, Olivera Sasić, Gordana Malović, Zoran Lj. Petrović
Townsend Discharges in Methane at Very High E/N

SPIG 2006, 23rd Summer School and International Symposium on the Physics of Ionized Gases, Kopaonik, Serbia, August 28 – September 1, 2006, Contributed papers & Abstracts of Invited Lectures, Topical Invited lectures and progress reports, Editors, N.S. Simonović, B.P. Marinković and Lj. Hadžievski, p139.

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

Electron transport in X/CF₄ mixtures (X=F, F₂, CF, CF₂, CF₃) and modelling of high E/N discharges in hydrogen

5th EU-Japan Joint Symposium on Plasma Processing, Editors: Z. Lj. Petrović, N. Mason, S. Hamaguchi, M. Radmilović-Radenović, 7–9 March 2007, Zemun, Serbia, Po-3

33. J. V. Jovanović, Z. Lj. Petrović, Z. M. Raspopović, V. Stojanović

Cross Sections and Transport Properties of Negative Halogen Ions in Noble Gases

5th EU-Japan Joint Symposium on Plasma Processing, Editors: Z. Lj. Petrović, N. Mason, S. Hamaguchi, M. Radmilović-Radenović, 7–9 March 2007, Zemun, Serbia, Po-6

34. Ž. Nikitović, G. Malović, A. Strinić, V. Stojanović, O. Šašić, Z. Lj. Petrović

Electron and fast neutral excitation in Townsend discharges in helium, neon, oxygen and methane

5th EU-Japan Joint Symposium on Plasma Processing, Editors: Z. Lj. Petrović, N. Mason, S. Hamaguchi, M. Radmilović-Radenović, 7–9 March 2007, Zemun, Serbia, Po-9

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

Electron transport in X/CF₄ mixtures (X=F, F₂, CF, CF₂, CF₃) and modelling of high E/N discharges

XXVII International Conference on Phenomena in Ionized Gases, 15 - 20 July 2007, Prague, Czech Republic, pp.121-123, ISBN 978-80-87026-01-4

36. 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

37. V. D. Stojanović, Ž. D. Nikitović and Z. Lj. Petrović

The effect of anisotropy of the scattering of heavy particles on modeling of the Doppler profile in pure H₂ discharge

24rd Summer School and International Symposium on the Physics of Ionized Gases, August 25-29, 2008, Novi Sad, Serbia (2008) pp.87-91

38. V. D. Stojanović, Z. M. Raspopović, J. V. Jovanović, Ž. D. Nikitović and Z. Lj. Petrović

Electron detachment of H⁻ ions in hydrogen discharge

24rd Summer School and International Symposium on the Physics of Ionized Gases, August 25-29, 2008, Novi Sad, Serbia (2008) pp.91-95

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

Modelling of high E/N in mixtures of CF_4 and its radicals

24rd Summer School and International Symposium on the Physics of Ionized Gases, August 25-29, 2008, Novi Sad, Serbia (2008) pp.103-107

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

Time resolved $H\alpha$ emission in pure hydrogen discharge

Frontiers in Low Temperature Plasma Diagnostics 8

19th - 23th April 2009, Blansko, Czech Republic, p. 73

41. Zoran Lj. Petrović, **Vladimir Stojanović**, Željka Nikitović

Modeling of Fast Neutral Transport in Low Pressure Discharges

The 7th EU-Japan Joint Symposium on Plasma Processing 23rd to 26th April 2009. Chateau Liblice, Liblice, Czech Republic, p. 25

42. Ž. Nikitović, M. Radmilović-Radenović, **V. Stojanović** and Z. Lj. Petrović

Modeling of the effect of radicals on plasmas used for etching in microelectronics

(2009), 29th ICPIG, July 12-17, 2009, Cancún, México, Conference Proceedings on CD ROM PA5-4

43. Ž. Nikitović, **V. Stojanović**, Z.Lj. Petrović

Transport coefficients for electron scattering in mixtures of CF_4 , Ar and O_2

(2009) ISPC 19, International Symposium on Plasma Chemistry, Book of Abstracts, Ed. A. von Keudell, J. Winter, M. Boke, V. Schulz-von der Gathen, July 27-31, 2009, Ruhr-University, Bochum, Germany, p.338

44. **V. Stojanović**, Ž. Nikitović, Z.Lj. Petrović, Z.Raspopović and J. Jovanović

Effects of H^+ ions produced at the surface in Townsend discharge

(2009) XI International Symposium on Electron-molecule Molecule Collisions and Swarms, BOOK OF ABSTRACTS, 29.july-1.avgust, York University, Toronto, Canada, p.59

45. **V. D. Stojanović**, Ž.D. Nikitović, Z.Lj. Petrović

Effect of anode surface on Doppler profile in Townsend discharge in pure hydrogen

(2009), Seventh General Conference of the Balkan Physical Union, BPU-7, *Proceedings*, 25-29. avgust, Alexandroupolis, Greece. submitted 20.sep. 2009.

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

Modelling of discharges at high E/N in mixtures of CF_4 , O_2 and Ar

(2009) 2nd International Conference On Advanced Plasma Technologies With 1st International Plasma Nanoscience Symposium, sep 29th-Oct 2nd, Piran, Slovenia, Conference Proceedings, pp.140-142.

*Ž. D. Nikitović, **V. D. Stojanović**, Z. Lj. Petrović, Uroš Cvelbar and Miran Mozetič
The influence of F₂ molecules on kinetics of electrons in BF₃
3rd International Conference on Advanced Plasma Technologies, Slovenia, Bohinj, Jun 14th-16th,
2010, p.63-65

*Željka Nikitović, **Vladimir Stojanović**, Zoran Lj. Petrović, Uroš Cvelbar, Miran Mozetič,
Svetlana Radovanov
Electron kinetics in mixtures in BF₃ and F₂
*20th European Conference on the Atomic and Molecular Physics of Ionized Gases, Novi Sad,
Serbia, 13-17 July 2010.*, 2-52.

***Vladimir Stojanović**, Željka Nikitović, Zoran Lj. Petrović
Monte Carlo modeling of electrons and heavy particles in pure H₂ discharge
*20th European Conference on the Atomic and Molecular Physics of Ionized Gases, Novi Sad,
Serbia, 13-17 July 2010.*, 2-53.

*Željka Nikitović, **Vladimir Stojanović**, and Zoran Lj. Petrović
Transport coefficients for electron scattering in mixtures of CF₄, Ar and O₂
*25th Summer School and International Symposium on the Physics of Ionized Gases, August 30-
September 3, 2010, Donji Milanovac, Serbia Publ. Astron. Obs. Belgrade No. 89 (2010) 75-78
ISSN 0373-3742*

***V. Stojanović**, Ž. Nikitović, Z. Lj. Petrović
Modeling particle energy distribution functions in Ar/H₂ discharge
30th ICPIG
August 28th – September 2nd 2011, Belfast, Northern Ireland, UK, A2-243.

* Ž. Nikitović, **V. Stojanović**, Z. Lj. Petrović
Modeling in Ar/H₂ discharge
*21th European Conference on the Atomic and Molecular Physics of Ionized Gases
(ESCAMPIG), Viana do Castelo, Portugal, July 10-14, 2012 P1.1.8.*

***V. Stojanović**, Z. M. Raspopović, J. Jovanović, Ž. Nikitović, Z. Lj. Petrović
Detachment rate for negative ions in Ar/BF₃ discharges
*21th European Conference on the Atomic and Molecular Physics of Ionized Gases
(ESCAMPIG), Viana do Castelo, Portugal, July 10-14, 2012 P2.1.5.*

*Ž. Nikitović, **V. Stojanović** and Z. Lj. Petrović
MONTE CARLO SIMULATIONS IN Ar/H₂
MIXTURES
*26th Summer School and International
Symposium on the Physics of Ionized Gases
August 27th -31st, 2012, Zrenjanin Serbia, Editors: Milorad Kuraica
Zoran Mijatović, ISBN 978-86-7031-242-5, S3.22, 223-227*

*V. Stojanović, Z. Raspopović, J. Jovanović, Ž. Nikitović, Z. Lj. Petrović

TRANSPORT OF F⁻ IONS IN F₂

26th Summer School and International Symposium on the Physics of Ionized Gases

August 27th -31st, 2012, Zrenjanin Serbia. Editors: Milorad Kuraica

Zoran Mijatović, ISBN 978-86-7031-242-5, S3.51, 341-345

*V. Stojanović, J. Sivoš, D. Marić, N. Škoro, Z. Lj. Petrović

MONTE CARLO SIMULATION OF ELECTRON TRANSPORT IN H₂O VAPOUR

26th Summer School and International Symposium on the Physics of Ionized Gases

August 27th -31st, 2012, Zrenjanin Serbia. Editors: Milorad Kuraica

Zoran Mijatović, ISBN 978-86-7031-242-5, S3.51, 35-38

Radovi saopšteni na skupovima međunarodnog značaja štampani u izvodu M₃₄ (k=0.5)

1. Z.Lj. Petrović, V.D. Stojanović, B.M. Jelenković, A.V. Phelps

Monte Carlo simulations of electron kinetics at very high E/N

(1992), IEEE International Conference on Plasma Science, Tampa, Florida, USA, 6B1- 176.

2. V. Stojanović, B.M. Jelenković, Z.Lj. Petrović

Excitation by Electrons and fast neutrals in N₂ discharges at high E/N

(1996) Proc. 49th GEC, Argonne, USA, MPB-12, (1996) Bull. Am.Phys. Soc. **41** 1296.

3. S. Vrhovac, V.D. Stojanović, B.M. Jelenković, Z.Lj. Petrović

Electron energy distribution function in N₂ Townsend discharge - measurements and Monte Carlo simulations

(1998), Proc. 51st GEC (Gaseous Electronics Conference) and 4th ICRP (International Conference on Reactive Plasmas), Maui, USA, (1998) Bull. Am.Phys. Soc. 1469 **43** (JTP7 1).

4. M. Radmilović-Radenović, Z.Lj. Petrović, V. Stojanović

Reflection of Electrons from the Anode

July (2001) International Symposium on Electron-Molecule Collisions and Swarms, Lincoln NE USA pp. 126-127.

5. V. D. Stojanović, Z.Lj. Petrović,

Non-hydrodynamic effects for N₂⁺ ion transport close to the boundaries

(2003), Fifth General Conference of the Balkan Physical Union, BPU-5, Book of Abstracts, Ed. S. Jokić, I. Milošević, A. Balaž and Z. Nikolić, 25-29. avgust, Vrnjačka Banja, Serbia and Montenegro, p. [SP08-003] p.208 ISBN 86-902537-4-2

6. Željka D. Nikitović, Aleksandra I. Strinić, Vladimir D. Stojanović, Zoran Lj. Petrović

Townsend discharges in neon at very high E/N

57th Annual Gaseous Electronics Conference
September 26-29 (2004) Bunratty, Ireland, p.26
(2004) Bul. Am. Phys. Soc. 49 (5) (2004) 26 ES1 37.

7. Ž. D. Nikitović, A. I. Strinić, G. N. Malović, Z. Lj. Petrović
A Monte Carlo simulation of collisional processes in a Townsend discharge in neon
Third Conference on the Elementary Processes in Atomic Systems (CEPAS)
Book of Abstracts, Ed: B. Palasthy, 31. August-2.September (2005) Miskolc, Hungary p.75

8. Ž. Nikitović, A. Strinić, G. Malović, V.D. Stojanović, Z. Petrović
Monte Carlo simulations of low current Townsend discharges in Neon
14th International Symposium on Electron – Molecule Collisions and Swarms, Ed: Sergio d A. Sanchez, Romarly F. da Costa, Marco A. Lima, Campinas, Brazil (2005) p.78 .

9. A. Stojković, Ž. Nikitović, A. Strinić, V. Stojanović, M. Radmilović-Rađenović, Z.Lj. Petrović
Modelling of a plasma etcher for charging free processing of nanoscale structures
The Seventh Yugoslav Materials Research Society Conference “YUCOMAT”, Book of Abstracts,
Editor: Prof. dr Dragan P. Uskoković 12-16 September 2005, Herceg-Novi, Serbia and
Montenegro [P.S.C.24.] (2005) 150.

10. Ž. D. Nikitović, A. I. Strinić, G. N. Malović, V. D. Stojanović, O. M. Šašić, Z. Lj. Petrović
Modeling of Spatial Emission of High E/N in Methane by Monte Carlo Technique
22nd SYMPOSIUM ON PLASMA PHYSICS AND TEHNOLOGY
June 26-29, 2006, Praha, Czech Republic, p. 50.

11. Zoran Petrović, Vladimir Stojanović
Monte Carlo simulation of 337.1 nm and 391.4 nm emission due to the electron thermalization in Nitrogen.
59th Annual Gaseous Electronics Conference, October 10-13, 2006, Ohio State, USA
(2006) Bul. Am. Phys. Soc. Vol. 51 No.5, p.24.

12. Zoran Petrović, Vladimir Stojanović
Monte Carlo simulation of H α emission in hydrogen Townsend discharge
59th Annual Gaseous Electronics Conference, October 10-13, 2006, Ohio State, USA,
(2006) Bul. Am. Phys. Soc. Vol. 51 No.5, p.64.

13. Željka Nikitović, Aleksandra Strinić, Vladimir Stojanović, Olivera Šašić, Gordana Malović,
Zoran Petrović
Townsend discharge in Methane at Very High E/N
59th Annual Gaseous Electronics Conference, October 10-13, 2006, Ohio State, USA,
(2006) Bul. Am. Phys. Soc. Vol. 51 No.5, p.70.

14. Željka Nikitović, Aleksandra Strinić, Vladimir Stojanović, Olivera Šašić, Gordana Malović,
Zoran Petrović
Townsend Discharge in Methane at Very High E/N

59th Annual Gaseous Electronics Conference, October 10-13, 2006, Ohio State, USA, p.70
(2006) Bul. Am. Phys. Soc. Vol. 51 No.5.

15. M. Radmilović-Radženić, Z.Lj. Petrović, Ž. Nikitović, A. Strinić, V. Stojanović, A. Nina, B. Radjenović

Particle-in-Cell Modeling of a Neutral Beam Source for Material Processing in Nanoscale Structures Fabrication

The Eighth Yugoslav Materials Research Society Conference "YUCOMAT", Book of Abstracts, Editor: Prof. dr Dragan P. Uskoković 4-8 September 2006, Herceg-Novci, Serbia (2006)
[P.S.A.4.] 66

16. Vladimir Stojanović, Željka Nikitović, Zoran Petrović

H α emission in pure hydrogen Townsend discharge obtained by a Monte Carlo simulation

60th Annual Gaseous Electronics Conference

October 2-7, 2007, Arlington, Virginia p.27 FTP1 39.

Bul. Am. Phys. Soc. Vol. 52 No.8 (2007) ISSN: 0003-0503.

17. Željka Nikitović, Vladimir Stojanović, Zoran Petrović

Transport Coefficients and Cross Section Set for Electron Scattering in mixtures CF₄ and CF₂

60th Annual Gaseous Electronics Conference

October 2-7, 2007, Arlington, Virginia p.42 MWP1 29

Bul. Am. Phys. Soc. Vol. 52 No.8 (2007) ISSN: 0003-0503

18. V.D. Stojanović, Ž.D. Nikitović, Z.Lj. Petrović,

Modelling H α emission in Hydrogen by Monte Carlo simulation

15th International Symposium on Electron Molecule Collisions and Swarms & XIV International Workshop on Low Energy Positron and Positronium Physics, August 1-4, 2007, University of Reading, United Kingdom, p69

19. Ž. Nikitović, V. Stojanović and Z. Lj. Petrović

Electron Transport in X/CF₄ Mixtures (X=F, F₂, CF, CF₂, CF₃)

23rd Symposium on Plasma Physics and Technology

June 16-19. 2008. Prague, Czech Republic, p. 109

20. O. Šašić, Z. Raspopović, Ž. Nikitović, V. Stojanović and Z. Lj. Petrović

Modelling electron kinetics in BF₃

4th Conference on Elementary Processes in Atomic Systems Cluj-Napoca, Romania, June 18-20, 2008., We-9.

21. Zoran Lj. Petrović, Olivera Šašić, Zoran Raspopović, Željka Nikitović, Vladimir Stojanović, Svetlana Radovanov, Ludovic Godet

Transport coefficients for electrons in BF₃

19th Europhysics Conference on the Atomic and Molecular Physics of Ionized Gases, Granada, Spain, 15-19 July 2008., 3-80.

22. Ž. Nikitović, **Vladimir Stojanović**, Z. Lj. Petrović,
The role of radicals in kinetics of plasma etchers in Ar/CF₄ mixtures
The Tenth Yugoslav Materials Research Society Conference "YUCOMAT", Book of Abstracts,
Editor: Prof. dr Dragan P. Uskoković 8-12 September 2008, Herceg-Novi, Montenegro (2008)
[P.S.B.16] 105
23. **Vladimir Stojanović**, Željka Nikitović, Zoran Petrović
Thermalization of High Energy Electrons in Nitrogen
61st Annual Gaseous Electronics Conference
October 13-17, 2008, Dallas, Texas USA p.40 FTP1 98
Bul. Am. Phys. Soc. Vol. 53 No.10 (2008) ISSN: 0003-0503
24. **Vladimir Stojanović**, Željka Nikitović, Zoran Petrović
Arrival Time Spectra of Heavy Particles in Hydrogen Discharge
61st Annual Gaseous Electronics Conference
October 13-17, 2008, Dallas, Texas USA p.40 FTP1 104
Bul. Am. Phys. Soc. Vol. 53 No.10 (2008) ISSN: 0003-0503
25. V. D. Stojanović, Ž.D. Nikitović, Z.Lj. Petrović,
Effect of anode surface on Doppler profile in Townsend discharge in pure hydrogen
(2009), *7th General Conference of the Balkan Physical Union, BPU-7*, Book of Abstracts, 9-13.
september, Alexandroupolis, Greece, p.65
26. Zoran Lj. Petrović, Željka Nikitović, Olivera Šašić, Zoran Raspopović, Vladimir Stojanović,
Svetlana Radovanov
Transport Coefficients for Electrons in BF₃
62nd Annual Gaseous Electronics Conference
October 20-23, 2009, Saratoga Springs, New York, USA p.22 GT1 6
Bul. Am. Phys. Soc. Vol. 54 No.12 (2009) ISSN: 0003-0503
27. Željka Nikitović, Vladimir Stojanović, Zoran Petrović
Transport Coefficients and Cross Section Set for Electron Scattering in mixtures CF₄, Ar and O₂
62nd Annual Gaseous Electronics Conference
October 20-23, 2009, Saratoga Springs, New York, USA p.77 URP 9
Bul. Am. Phys. Soc. Vol. 54 No.12 (2009) ISSN: 0003-0503
28. Ž. Nikitović, **V. Stojanović** and Z. Lj. Petrović,
TRANSPORT COEFFICIENTS IN MIXTURES BF₃, F₂ AND F
The Eleventh Annual Conference "YUCOMAT", Book of Abstracts, Editor: Prof. dr Dragan P.
Uskoković 31 August - 4 September 2009, Herceg-Novi, Montenegro (2009)

*Željka Nikitović, **Vladimir Stojanović** and Zoran Lj. Petrović
Time resolved H emission in pure hydrogen discharge

Frontiers in Low Temperature Plasma Diagnostics 8
19th - 23th April 2009, Blansko, Czech Republic, p. 73

***V. Stojanović, Ž. Nikitović, Z. Raspopović, J. Jovanović and Z. Lj. Petrović**
Effects of H⁺ ions produced at the surface in H₂ Townsend discharges
XVI International Symposium on Electron Molecule Collisions and Swarms
(ed R. Campeanu, York University) 29.7-1.8 2009 Toronto p. 59.

***Ž. Nikitović, Vladimir Stojanović and Z. Lj. Petrović**
Transport coefficients in mixtures BF₃, F₂ and F
The Eleventh Annual Conference "YUCOMAT", Book of Abstracts, Editor: Prof. dr Dragan P. Uskoković August 31-September 4, 2009 Herceg-Noví, Montenegro (2009) [P.S.A.41] 105.

***Vladimir D. Stojanović, Željka D. Nikitović and Zoran Lj. Petrović,**
EFFECT OF ANODE SURFACE ON DOPPLER PROFILE IN TOWNSEND DISCHARGE IN PURE HYDROGEN
7th GENERAL CONFERENCE OF THE BALKAN PHYSICAL UNION, BOOK OF ABSTRACTS
Alexandroupolis, 9-13 september 2009. p. 65

***Ž. Nikitović, Vladimir Stojanović and Z. Lj. Petrović**
Modelling of discharges at high E/N in mixtures of CF₄, O₂ and Ar
2nd INTERNATIONAL CONFERENCE on ADVANCED PLASMA TECHNOLOGIES with 1st INTERNATIONAL PLASMA NANOSCIENCE SYMPOSIUM
Sep 29th-Oct 2nd 2009, Piran, Slovenia, EU, pp.140-142

***Zoran Lj. Petrović, Željka Nikitović, Olivera Šašić, Zoran Raspopović, Vladimir Stojanović, Svetlana Radovanov**
Transport Coefficients for Electrons in BF₃
62nd Annual Gaseous Electronics Conference
October 20-23, 2009, Saratoga Springs, New York, USA p.22 GT1 6
Bul. Am. Phys. Soc. Vol. 54 No.12 (2009) ISSN: 0003-0503

***Željka Nikitović, Vladimir Stojanović, Zoran Petrović**
Transport Coefficients and Cross Section Set for Electron Scattering in Mixtures CF₄, Ar and O₂
62nd Annual Gaseous Electronics Conference
October 20-23, 2009, Saratoga Springs, New York, USA p.77 URP 9
Bul. Am. Phys. Soc. Vol. 54 No.12 (2009) ISSN: 0003-0503

***Zoran Petrović, Vladimir Stojanović, Željka Nikitović**
Role of anisotropic particle scattering in hydrogen Townsend discharge
Division of Atomic & Molecular Physics and Photonic Interactions
May 25-29, 2010, Hyatt Regency hotel, Houston, Texas, p.53 E1 150

*Ž. Nikitović, **V. Stojanović** and Z. Lj. Petrović
Transport coefficients in mixtures CF₄/Ar/O₂
The Twentieth Annual Conference "YUCOMAT", Book of Abstracts, Editor: Prof. dr Dragan P. Uskoković, September 6-September 10, 2010 Herceg-Novi, Montenegro (2010) [P.S.B.35.] 195.

*Zoran Petrović, Željka Nikitović, Svetlana Radovanov, **Vladimir Stojanović**
Modeling of heavy particle collisions in high E/N discharges in helium
63rd Annual Gaseous Electronics Conference and 7th International Conference on Reactive Plasmas *Volume 55, No. 7*
October 4–8, 2010, Paris, France (2010) p.59 DTP13

* Z. Lj. Petrović, **V. Stojanović** and Ž. Nikitović
Doppler Broadening induced by fast heavy particles in molecular hydrogen
42nd Annual Meeting of the APS Division of Atomic, Molecular and Optical Physics
Volume 56, Number 5, June 13–17, 2011, Atlanta, Georgia (2011) Q1.00056

***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

***V. Stojanović**, Z. Raspopović, J. Jovanović, S. Radovanov, Ž. Nikitović, and Z. Lj. Petrović
Transport properties of positive ions in BF₃ plasmas
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.67.

***V. Stojanović**, Ž. Nikitović, Z. Lj. Petrović
MODELLING OF ELECTRONS AND HEAVY PARTICLES IN PURE H₂ DISCHARGE
The Thirtieth Annual Conference "YUCOMAT", Book of Abstracts Editor: Prof. dr Dragan P. Uskoković, September 5-September 9, 2011 Herceg-Novi, Montenegro (2011) [P.S.B.18.] 36.

***V. Stojanović**, Z. Raspopović, J. Jovanović, Ž. Nikitović, S. Radovanov and Z.Lj. Petrović
Transport Properties of Positive Ions in BF₃ Plasmas
XVII International Symposium on Electron Molecule Collisions and Swarms
(ed. P. van der Burgt, National University of Ireland Maynooth) 22-25 July 2011 Maynooth, Ireland p. 82.

***V. Stojanović**, Ž. Nikitović and Z.Lj. Petrović
Heavy Particle Contribution to Doppler Profile in Ar/H₂ Mixture
XVII International Symposium on Electron Molecule Collisions and Swarms
(ed. P. van der Burgt, National University of Ireland Maynooth) 22-25 July 2011 Maynooth, Ireland p. 81.

***Vladimir Stojanović, Željka Nikitović, Zoran Petrović**
Anisotropy of H_{α} Lines in Low Current Discharges in H_2 Discharges at High E/N
64th Annual Gaseous Electronics Conference
November 15-18, 2011, Salt Lake City, Utah, USA p.71 PR2 5
Bul. Am. Phys. Soc. Vol. 56 No.15 (2011) ISSN: 0003-0503

***Vladimir Stojanović, Željka Nikitović, Zoran Petrović**
Electron Transport in Ar/ H_2 Mixtures
64th Annual Gaseous Electronics Conference
November 15-18, 2011, Salt Lake City, Utah, USA p.34 FTP1 34
Bul. Am. Phys. Soc. Vol. 56 No.15 (2011) ISSN: 0003-0503

***Vladimir Stojanović, Željka Nikitović, Zoran Raspopović, Jasmina Jovanović, Svetlana Radovanov, Zoran Petrović**
Rate Coefficients for Ion Production by Electrons and Ions in BF_3 Gas
64th Annual Gaseous Electronics Conference
November 15-18, 2011, Salt Lake City, Utah, USA p.62 MR2 4
Bul. Am. Phys. Soc. Vol. 56 No.15 (2011) ISSN: 0003-0503

*Ž. Nikitović, V. Stojanović, Z. Lj. Petrović
TRANSPORT COEFFICIENTS IN MIXTURES Ar/ H_2
FOURTEENTH ANNUAL CONFERENCE YUCOMAT 2012, editor: prof. Dr Dragan Uskoković
Herceg Novi, September 3-7, 2012, P.S.A.31., p.65

Rad publikovan u nacionalnom časopisu kategorija M_{52} ($k=1.5$)

1. Ž. Nikitović, V. Stojanović and Z. Lj. Petrović
Elektronski transportni koeficijenti za smešu CF_4 sa F i F_2
NOVI MATERIJALI 17 (2008) 6, pp.1-5 (YU ISSN 0354-2300)

*2. Ž. D. Nikitović, V. D. Stojanović and Z. Lj. Petrović
Određivanje elektronskih transportnih koeficijenata za smeše BF_3 sa F i F_2
NOVI MATERIJALI 19 (2010) 6, pp.1-4

Radovi saopšteni na skupovima nacionalnog značaja štampani u celini M_{63} ($k=0.5$)

1. V. Stojanović, J. Božin, Z. Lj. Petrović i B.M. Jelenković
Određivanje ekscitacionog koeficijenta u gasovima u zavisnosti od odnosa električnog polja i gustine gasa
(1989) VI Jugoslavenski skup iz fizike atomskih sudara (Brioni, Yugoslavia) p.14.

2. V.D. Stojanović i Z. Lj. Petrović

Monte Carlo simulacija neravnotežnog transporta elektrona u azotu

(1995), IX kongres fizičara, Petrovac na Moru, p.125.

3. V. Stojanović i Z. Lj. Petrović

Neravnotežni transport elektrona na veoma visokim E/N

(1997) Elektron Sto godina od otkrića; Vol. 7 Zbornik saopštenja (Ed. M.V. Kurepa) Zavod za udžbenike i nastavna sredstva, Beograd pp. 77-80.

4. J.V. Spasojević, A. Strinić, V. Stojanović V. i Z.Lj. Petrović

Razdvajanje doprinosa elektrona i teških čestica u ekscitaciji na visokim E/N

(1997) Elektron Sto godina od otkrića; Vol. 7 Zbornik saopštenja (Ed. M.V. Kurepa) Zavod za udžbenike i nastavna sredstva, Beograd pp. 89-92.

5. A. Strinić, J.V. Spasojević, V.D. Stojanović i Z. Lj. Petrović

Eksperimentalna provera ekscitacije teškim česticama

(2000) 10. Kongres fizičara Jugoslavije, Vrnjačka Banja p. 603.

6. Ž.D. Nikitović, A.I. Strinić, G.N. Malović, V.D. Stojanović i Z.Lj. Petrović

Modelovanje u neonu na visokim vrednostima E/N

Kongres fizičara Srbije i Crne Gore, Petrovac na Moru, 3-5. jun 2004. p. 3-111-114.

7. Željka Nikitović, Aleksandra Strinić, Vladimir Stojanović, Gordana Malović i Zoran Petrović
Uticaj refleksije elektrona sa anode na prostornu zavisnost emisije u Taunzendovom pražnjenju,

Zbornik radova 49. Konferencije za ETRAN, Ed. Miodrag Milošević, Zoran Jakšić, Dušan Božić, Veljko Potkonjak, Budva, 5-10. juna 2005. tom IV, pp.109-111. (predavanje)

8. Željka Nikitović, Aleksandra Strinić, Vladimir Stojanović, Olivera Šašić, Gordana Malović i Zoran Petrović

Modelovanje neravnotežnog Townsendovog pražnjenja u metanu

(2006), in Zbornik radova 50. Konferencije za ETRAN, ed. M. Milošević, Z. Jakšić, N. Mitrović, i V. Potkonjak No. IV, Beograd, pp. 241-244

9. Željka Nikitović, Vladimir Stojanović, Olivera Šašić i Zoran Lj. Petrović

Transportni koeficijenti i preseki za rasejanje elektrona u smesama CF_3 i CF_4

(2007), in Zbornik radova 51. Konferencije za ETRAN.

11. Željka Nikitović, Vladimir Stojanović, Olivera Šašić, Zoran Raspopović i Zoran Lj. Petrović
Modeling of Nonequilibrium Townsend Transport Coefficients for Electrons in BF_3 and F_2 mixtures

1st National Conference on Electronic, Atomic, Molecular and Photonic Physics Ed. Aleksandar R. Milosavljević, Dragutin Šević and Bratislav P. Marinković, Zaječar, 15-18. maja (2008) pp.49-53

12. Željka Nikitović, Vladimir Stojanović, Olivera Šašić, Zoran Raspopović i Zoran Lj. Petrović
ODREĐIVANJE TRANSPORTNIH KOEFICIJENATA U SMEŠI BF₃ I F₂
Palić, 8-12. juna (2008) NM 1.8

*13. Željka D. Nikitović, Vladimir D. Stojanović i Zoran Lj. Petrović
TRANSPORTNI KOEFICIJENTI ZA RASEJANJE ELEKTRONA U SMEŠAMA CF₄, CF₂ I F₂
(2009) in Zbornik radova 51. Konferencije za ETRAN, Vrnjačka Banja, Serbia, June 15-18.

*14. Željka Nikitović, **Vladimir Stojanović** i Zoran Lj. Petrović
Uticaj F₂ na transportne koeficijente u smešama sa CF₄ i BF₃
Zbornik radova 54. Konferencije ETRAN, Društvo za ETRAN, Institut IMTEL Beograd, Donji Milanovac 7-10. juna (2010) NM1.4

Saopštenja sa skupa nacionalnog značaja štampana u izvodu M₆₄ (k=0.2)

*Željka Nikitović, **Vladimir Stojanović**, Olivera Šašić i Zoran Lj. Petrović
TRANSPORTNI KOEFICIJENTI I PRESECI ZA RASEJANJE ELEKTRONA U SMEŠAMA CF₃ I CF₄
PROGRAM I ZBORNIK APSTRAKTA 51. KONFERENCIJE ZA ETRAN, HERCEG NOVI-IGALO, 4-8. JUNA (2007) NM 1.3, P.56

*Željka Nikitović, **Vladimir Stojanović**, Olivera Šašić, Zoran Raspopović i Zoran Lj. Petrović
ODREĐIVANJE TRANSPORTNIH KOEFICIJENATA U SMEŠI BF₃ I F₂
Program i zbornik apstrakta 52. Konferencije ETRAN
Palić, 8-12. juna (2008) NM 1.8, p. 56

*Željka Nikitović, **Vladimir Stojanović** i Zoran Lj. Petrović
TRANSPORTNI KOEFICIJENTI ZA RASEJANJE ELEKTRONA U SMEŠAMA CF₄, CF₂ I F₂
Zbornik apstrakta i program 53. Konferencije ETRAN, Ed. Zoran Jakšić, Zorica Nikolić, Veljko Potkonjak, Vrnjačka Banja, 15-18. juna (2009) NM1.2-1-4, p. 62

*Željka Nikitović, **Vladimir Stojanović** i Zoran Lj. Petrović
Uticaj F₂ na transportne koeficijente u smešama sa CF₄ i BF₃
Zbornik apstrakta i program 54. Konferencije ETRAN, Društvo za ETRAN, Institut IMTEL Beograd, Donji Milanovac 7-10. juna (2010) NM1.4, p. 59

***Vladimir Stojanović**, Željka Nikitović i Zoran Lj. Petrović
Transport elektrona u Ar/H₂ smeši
Zbornik apstrakta i program 55. Konferencije ETRAN, Društvo za ETRAN, Institut IMTEL Beograd, Banja Vrućica 6-9. juna (2011) NM1.4, p. 55

Napomena: sa zvezdicom su označeni radovi publikovani posle izbora u zvanje naučni saradnik

7. MAGISTARSKE I DOKTORSKE TEZE (M 70)

Odbranjena doktorska disertacija M₇₂ (k=6)

Vladimir Stojanović, “Modelovanje Townsendovih pražnjenja na visokim E/N i niskom pritisku ”

Elektrotehnički fakultet Univerziteta u Beogradu, (mart 2008)

Odbranjena magistarska teza M₇₁ (k=3)

Vladimir Stojanović, “Elektronski eksitacioni koeficijenti za pobuđena stanja azota na srednjim i visokim vrednostima E/N (E-električno polje, N -gustina gasa)”

Elektrotehnički fakultet Univerziteta u Beogradu, (april 1992)

Naučni saradnik od 19. novembra 2009.

Membership

Member of IEEE from 2011, IEEE Dielectrics and Electrical Insulation Society, IEEE Electron Devices Society.

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
Виши научни сарадник	Укупно	48	101
	M10+M20+M31+M32+M33 M42+M51 ≥	40	21
	M11+M12+M21+M22 M23+M24+M31+M32+M42 ≥	28	88

U Beogradu 14. septembra 2012. godine