

LIČNE INFORMACIJE



Azra Gazibegović-Busuladžić

📍 Čeljigovići 4, 71000 Sarajevo, BiH

☎ +387 33 27 99 45

✉ azragb@pmf.unsa.ba

🌐 <http://www.pmf.unsa.ba/fizika/index.php/bs/clanovi-odsjecka-za-fiziku>

Pol ženski | Datum rođenja 10.02.1976. | Državljanstvo BiH

RADNO ISKUSTVO

Decembar 2016 – danas	Vanredni profesor za oblast "Teorijska fizika" Prirodno-matematički fakultet Univerziteta u Sarajevu
Februar 2011 – Decembar 2016	Docent za oblast "Teorijska fizika" Prirodno-matematički fakultet Univerziteta u Sarajevu
Novembar 2005– Februar 2011	Viši asistent za oblast "Teorijska fizika" Prirodno-matematički fakultet Univerziteta u Sarajevu
Decembar 1999 – Novembar 2005	Asistent za oblast "Teorijska fizika" Prirodno-matematički fakultet Univerziteta u Sarajevu
Septembar 1998 – Juli 2000	Profesorica fizike, srednja škola Druga gimnazija Sarajevo

OBRAZOVANJE I OBUKE

2010	Doktor fizičkih nauka Prirodno-matematički fakultet Univerziteta u Sarajevu Doktorska disertacija: "Negativni joni u jakom laserskom polju – simulacija eksperimenata"
2005	Magistar prirodnih nauka iz područja fizike Prirodno-matematički fakultet Univerziteta u Tuzli Magistarski rad: "Odvajanje elektrona od negativnih jona u jakom laserskom polju"
1994 – 1998	Diplomirani fizičar Prirodno-matematički fakultet Univerziteta u Sarajevu

LIČNE VJEŠTINE

Maternji jezik Bosanski

Drugi jezik/ci

	RAZUMJEVANJE		GOVOR		PISANJE
	Slušanje	Čitanje	Usmena interakcija	Usmeno izražavanje	
engleski	C1	C1	C1	C1	C1

Komunikacione vještine

Odlične komunikacijske vještine stečene u radu sa učenicima i studentima

Organizacione / upravljačke funkcije

- Zamjenik šefa Odsjeka za fiziku Prirodno-matematičkog fakulteta 2012-2016
- Šef Odsjeka za fiziku Prirodno-matematičkog fakulteta 2016-2020
- Voditelj doktorskog studija Odsjeka za fiziku 2020 -

Digitalne vještine

SAMOPROCJENA

Obrada informacija	Komunikacija	Stvaranje sadržaja	Bezbjednost	Rješavanje problema
Napredna upotreba	Napredna upotreba	Samostalna upotreba	Napredna upotreba	Samostalna upotreba

- Dobro vladanje Office paketom i LaTeX alatom za obradu teksta
- Programiranje u programskim jezicima FORTRAN, C
- Upotreba softverskih paketa MATLAB i Mathematica
- Aplikacije za statističku obradu podataka i IRT modeliranje (SPSS, R)
- Korištenje različitih OS – Linux i Windows

Organizacija međunarodnih konferencija

1. Član Lokalnog organizacionog komiteta "**The twentyth annual International Laser Physics Workshop**" (LPHYS'11) održane od 11.07. do 15.07. 2011. godine u Sarajevu. Organizatori konferencije su, između ostalih, bili Ruska akademija nauka i Univerzitet u Sarajevu.
2. Član Organizacionog odbora "**Sarajevo School of High Energy Physics**" (SSHEP 2018) održane od 15.10. do 20.10. 2018. godine u Sarajevu. Organizatori konferencije su bili CERN, ICTP, Univerzitet u Splitu i Univerzitet u Sarajevu.

Objavljene knjige i udžbenici

1. Nada Gabela, Zalkida Hadžibegović, Azra Gazibegović-Busuladžić, Lada Gabela: *Praktikum iz elektromagnetizma*, Prirodno-matematički fakultet Sarajevo, 2008.
2. Mustafa Busuladžić, Aner Čerkić, Azra Gazibegović-Busuladžić, Elvedin Hasović, Jugoslav Stahov: *Fizika I sa primjenama u biologiji i medicini*, Prirodno-matematički fakultet Sarajevo, 2015.
3. Aner Čerkić, Azra Gazibegović-Busuladžić, Mustafa Busuladžić, Edvin Škaljo: *Fizika II sa primjenama u biologiji i medicini*, Prirodno-matematički fakultet Sarajevo, 2018.
4. Mustafa Busuladžić, Hedim Osmanović, Aner Čerkić, Azra Gazibegović-Busuladžić: *Zbirka zadataka iz Fizike sa primjenama u biologiji i medicini*, Prirodno-matematički fakultet Sarajevo, 2019.

Međunarodni multidisciplinarni projekti

- Cultural Collisions B&H 2020
Projekat podržan od strane CERN-a, Austrijskog kulturnog centra

Naučni radovi

1. D. B. Milošević, A. Gazibegović-Busuladžić, and W. Becker: *Direct and rescattered electrons in above-threshold detachment from negative ions*, Phys. Rev. A: General Physics 68, 050702(R), 1-4 (2003).
2. A. Gazibegović-Busuladžić, D. B. Milošević, and W. Becker: *High-energy above-threshold detachment from negative ions*, Phys. Rev. A: General Physics 70, 053403, 1-14 (2004).
3. Frank Pillon, Hervé Gilles, Sylvain Girard, Mathieu Laroche, Robin Kaiser, and Azra Gazibegović: *Goos-Hänchen and Imbert-Fedorov shifts for leaky guided modes*, Journal of the Optical Society of America B 22, 1290-1299 (2005).
4. M. Busuladžić, A. Gazibegović-Busuladžić, and D. B. Milošević: *High-order above – threshold ionization in a laser field: Influence of ionization potential on high-energy cutoff*, Laser Phys. **16** (2), 289-293 (2006).
5. F. Pillon, H. Gilles, S. Girard, M. Laroche, R. Kaiser, and A. Gazibegović: *Amplification of the Goos-Hanchen effect to the total reflexion on a dielectric layer*, Journal de Physique IV, 135, 257-258 (2006).
6. A. Gazibegović-Busuladžić, D. B. Milošević, and W. Becker, *Gauge dependence of the strong-field approximation: Theory vs. experiment for photodetachment of F⁻*, Optics Communications 275, 116-122 (2007).
7. E. Hasović, M. Busuladžić, A. Gazibegović-Busuladžić, D. B. Milošević, and W. Becker: *Simulation of the above-threshold ionization experiments using strong-field approximation*, Laser Phys. **17** (4), 376-389 (2007).
8. D. B. Milošević, E. Hasović, M. Busuladžić, A. Gazibegović-Busuladžić, and W. Becker: *Intensity dependent enhancements in high-order above-threshold ionization*, Phys. Rev. A **76** (5), 053410, 1-16 (2007).
9. M. Busuladžić, A. Gazibegović-Busuladžić, D. B. Milošević, and W. Becker: *Angle-Resolved High-Order Above Threshold Ionization of a Molecule: Sensitive Tool for Molecular Characterization*, Phys.Rev. Lett. **100** (20), 203003, 1-4 (2008).
10. M. Busuladžić, A. Gazibegović-Busuladžić, D. B. Milošević, and W. Becker: *Strong-field approximation for ionization of a diatomic molecule by a strong laser field: II. The role of electron rescattering off the molecular centers*, Phys. Rev. A **78** (3), 033412, 1-11 (2008).
11. D. B. Milošević, E. Hasović, S. Odžak, M. Busuladžić, A. Gazibegović-Busuladžić, and W. Becker: *Wavelength dependence of channel-closing enhancements in high-order above-threshold ionization and harmonic generation*, J. Mod. Opt. **55** (16), 2653-2663 (2008).
12. M. Okunishi, R. Itaya, K. Shimada, G. Prümper, K. Ueda, M. Busuladžić, A. Gazibegović-Busuladžić, D. B. Milošević, and W. Becker: *Angle-resolved high-order above threshold ionization spectra for N₂ And O₂: measurements and strong-field approximation*, J. Phys. B **41** (20), 201004 (FTC), 1-5 (2008).
13. D. B. Milošević, E. Hasović, S. Odžak, M. Busuladžić, A. Gazibegović-Busuladžić, and W. Becker: *New results in above-threshold ionization and high-harmonic generation of atomic and molecular systems*, Laser Phys. **19** (2), 185-190 (2009).
14. M. Okunishi, R. Itaya, K. Shimada, G. Prümper, K. Ueda, M. Busuladžić, A. Gazibegović-Busuladžić, D. B. Milošević, and W. Becker: *Two-source double-slit interference in angle-resolved high-energy above threshold ionization spectra of diatoms*, Phys. Rev. Lett. **103** (4), 043001, 1-4 (2009).
15. M. Busuladžić, A. Gazibegović-Busuladžić, D. B. Milošević: *Strong-field approximation for ionization of a diatomic molecule by a strong laser field: III. high-order above-threshold ionization by an elliptically polarized field*, Phys. Rev. A **80** (1), 013420, 1-8 (2009).
16. M. Busuladžić, A. Gazibegović-Busuladžić, E. Hasović, D. B. Milošević, and W. Becker: *Atoms and molecules in a strong laser field*, Acta Phys. Pol. A **116** (4), 516-518 (2009).
17. D. B. Milošević, M. Busuladžić, A. Gazibegović-Busuladžić, and W. Becker: *Strong-field approximation for high-order above-threshold ionization of randomly oriented diatomic molecules*, Chem. Phys. **366** (1-3), 85-90 (2009).
18. M. Busuladžić, A. Gazibegović-Busuladžić, and D. B. Milošević: *Ellipticity dependence of highorder above-threshold ionization from aligned diatomic molecules*, Laser Phys. **20** (5), 1001-1008 (2010).
19. A. Gazibegović-Busuladžić, D. B. Milošević, W. Becker, B. Bergues, H. Hultgren, and I. Yu. Kiyan: *Electron rescattering in above-threshold photodetachment of negative ions*, Phys. Rev. Lett. **100** (20), 203003 (2010).
20. A. Gazibegović-Busuladžić, E. Hasović, M. Busuladžić, D. B. Milošević, F. Kelkensberg, W. K. Siu, M. J. J. Vrakking, F. Lépine, G. Sansone, M. Nisoli, I. Znakovskaya, and M. F. Kling: *Above-threshold ionization of diatomic molecules by few-cycle laser pulses*, Phys. Rev. A **84** (4), 043426, 1-8 (2011).
21. A. Čerkić, M. Busuladžić, E. Hasović, A. Gazibegović-Busuladžić, W. Becker and D. B. Milošević : *Plateau structures in laser-assisted and laser induced processes*, Phys. Scr. **T149**, 014403, 1-4 (2012).

Naučni radovi

22. A. Čerkić, M. Busuladžić, E. Hasović, A. Gazibegović-Busuladžić, S. Odžak, K. Kalajdžić and D.B. Milošević: *Ellipticity dependence of the plateau structures in different atomic and molecular processes in strong laser field*, Phys. Scr. **T149**, 014404, 1-4 (2012).
23. E. Hasović, A. Gazibegović-Busuladžić, M. Busuladžić, D. B. Milošević and W. Becker: *High-order above-threshold ionization with few-cycle laser pulses: Molecular improved strong-field approximation vs. molecular low-frequency approximation*, Laser Phys. **22** (12), 1819-1826 (2012).
24. E. Hasović, D. B. Milošević, M. Busuladžić, A. Gazibegović-Busuladžić and W. Becker: *High-order above-threshold ionization of heteronuclear diatomic molecules by a strong laser field with arbitrary polarization*, Laser Phys. **22** (12), 1827-1832 (2012).
25. M. Busuladžić, A. Gazibegović-Busuladžić, W. Becker and D. B. Milošević: *Molecular above-threshold ionization with circularly polarized laser field*, Eur. Phys. J. D, **67** (3), 61, 1-13 (2013).
26. M. Busuladžić, A. Čerkić, S. Odžak, A. Gazibegović-Busuladžić, E. Hasović, D. Habibović, and D. B. Milošević: *Atomic and molecular processes generated by linearly polarized few-cycle laser pulses*, Phys. Scr. **T162**, 014008, 1-5 (2014).
27. S. Odžak, A. Čerkić, M. Busuladžić, E. Hasović, A. Gazibegović-Busuladžić, and D. B. Milošević: *Heteronuclear diatomic molecules in a strong laser field with an arbitrary polarization*, Phys. Scr. **T162**, 014012, 1-5 (2014).
28. E. Hasović, D. B. Milošević, A. Gazibegović-Busuladžić, A. Čerkić, and M. Busuladžić: *Molecular above-threshold ionization spectra as an evidence of the three-point interference of electron wave packets*, J. Phys: Conf. Ser. **594**, 012056, 1-9 (2015).
29. V. Mešić, Dž. Dervić, A. Gazibegović-Busuladžić, Dž. Salibašić, and Nataša Erceg: *Comparing the Impact of Dynamic and Static Media on Students' Learning of One-Dimensional Kinematics*, Eurasia Journal of Mathematics, Science & Technology Education **11** (5), 1119-1140, 2015.
30. D. Habibović, S. Odžak, M. Busuladžić, E. Hasović, A. Gazibegović-Busuladžić, A. Čerkić and D. B. Milošević: *Interference structure in nonlinear processes in strong infrared laser fields*, Opt. Quant. Electron. **48** (3): 192, 1- 7, (2016).
31. S. Odžak, E. Hasović, A. Kramo, M. Busuladžić, A. Gazibegović-Busuladžić, A. Čerkić, B. Fetić, and D. B. Milošević: *Atomic processes in strong bichromatic elliptically polarized laser fields*, AIP Conference Proceedings **722** 200007, 1-5, (2016).
32. M. Busuladžić, A. Gazibegović-Busuladžić, and D. B. Milošević: *Strong-field ionization of homonuclear diatomic molecules by a bicircular laser field: Rotational and reflection symmetries*, Phys. Rev. A **95** (3), 033411, 1-10 (2017).
33. A. Gazibegović-Busuladžić, M. Busuladžić, E. Hasović, W. Becker, and D. B. Milošević: *Strong field ionization of linear molecules by a bicircular laser field: Symmetry considerations*, Phys. Rev. A **97** (5), 043432, 1-14 (2018).
34. D. Habibović, A. Čerkić, M. Busuladžić, A. Gazibegović-Busuladžić, S. Odžak, E. Hasović, and D. B. Milošević: *Molecules in a bicircular strong laser field*, Opt. Quant. Electron. **50** (5): 214, 1- 10 (2018).
35. Dž. Dervić, Dž. Salibašić, A. Gazibegović-Busuladžić, and V. Mešić: *Teaching Physics with simulations: teacher-centered versus student-centered approaches*, Journal of Baltic Science Education **17** (2), 288-299, (2018).
36. A. Gazibegović-Busuladžić, W. Becker, and D. B. Milošević, *Helicity asymmetry in strong-field ionization of atoms by a bicircular laser field*, Optics Express **26** (10), 12684-12697 (2018).
37. M. Busuladžić, A. Čerkić, A. Gazibegović-Busuladžić, E. Hasović, and D. B. Milošević: *Molecular-orientation-dependent interference and plateau structure in strong-field ionization of diatomic molecules by a corotating bichromatic elliptically polarized laser field*, Phys. Rev. A **98** (1), 013413, 1-8 (2018).
38. A. Gazibegović-Busuladžić, M. Busuladžić, A. Čerkić, E. Hasović, W. Becker, and D. B. Milošević: *Strong-field ionization of linear molecules by a bichromatic elliptically polarized laser field with coplanar counterrotating or corotating components of different frequencies*, J. Phys: Conf. Ser. **1206**, 012003, 1-11 (2019).
39. E. Đedović, A. Gazibegović-Busuladžić, M. Busuladžić, and A. Beganović: *Comparison of Specific Fractal and Multifractal Parameters for Certain Regions of Interest from Digital Mammograms*, IFMBE Proceedings **73**, pp. 143-148 (2019).
40. A. Gazibegović-Busuladžić, D. Habibović, M. Busuladžić, and D. B. Milošević: *Molecular strong-field approximation for photodetachment of electrons from homonuclear diatomic molecular anions*, J. Opt. Soc. Am. B **37** (3), 813-819 (2020).
41. M. Busuladžić, A. Gazibegović-Busuladžić, A. Čerkić, and D. B. Milošević: *Signature of molecular symmetry in the plateau region of the photoelectron spectra: Above-threshold ionization of the C₂ molecule*, Phys. Scr. **95** (7), 075402, 1-11 (2020).
42. D. Habibović, A. Gazibegović-Busuladžić, M. Busuladžić, A. Čerkić, and D. B. Milošević: *Strong-field ionization of homonuclear diatomic molecules using orthogonally polarized two-color laser field*, Phys. Rev. A **102** (8), 013413, 1-13 (2020).

Poster i usmena izlaganja
na konferencijama

1. R. Kaiser, A. Gazibegović, Y. Lévy, J. Fleming, S. Muniz, Ph. Courteille, L. Marcassa, and V. Bagnato: Resonant Goos-Haenchen shift: a phase sensitive detection, "Couches Minces Optiques", Pôle Optique et Photonique Sud en partenariat avec l'Institut Fresnel, Marseille, France, 14 Juni (2001).
2. D. B. Milošević, A. Gazibegović-Busuladžić, and W. Becker, High-energy plateau in excessphoton detachment of electrons from negative ions, 12th International Laser Physics Workshop (LPHYS'03), Hamburg, Germany, August 25-29, 2003, Book of Abstracts, P2.10, p.162 (2003).
3. A. Gazibegović-Busuladžić, D. B. Milošević, and W. Becker, High-order above- threshold detachment from halogen negative ions, poster, 10th International Conference on Multiphoton Processes (ICOMP 10), Orford, Quebec, Canada, October 9-14 (2005).
4. D. B. Milošević, E. Hasović, M. Busuladžić, A. Gazibegović-Busuladžić, A. Čerkić and W. Becker: *Simulation of the above-threshold ionization and detachment experiments using strong-filed approximation*, Laser Physics Workshop (LPHYS' 06), Lausanne, Switzerland, July 24-28. 2.7.1.p.107 (2006).
5. A. Gazibegović-Busuladžić, D. B. Milošević, and W. Becker, Above threshold detachment from F^- and Br^- : a simulation of the experiment, 15th International Laser Physics Workshop (LPHYS' 06), Lausanne, Switzerland, July 24-28, 2.4., p. 143 (2006).
6. D. B. Milošević, E. Hasović, M. Busuladžić, A. Gazibegović-Busuladžić, and W. Becker: *Enhancements in high-order above-threshold ionization*, Time Dependent Phenomena in Quantum Mechanics, Blaubeuren, Germany, September 12-16 (2007).
7. D. B. Milošević, E. Hasović, M. Busuladžić, A. Gazibegović-Busuladžić, and W. Becker: *High-order above- threshold ionization of atoms and molecules*, Novel Light Sources and Applications, Obergurgl, Austria, February 3-9, (2008).
8. M. Busuladžić, A. Gazibegović-Busuladžić, D. B. Milošević, and W. Becker: *High-energy above threshold ionization spectra of diatomic molecules in a strong laser field: N_2 (σ_g symmetry) vs. O_2 (π_g symmetry)*, Novel Light Sources and Applications, Obergurgl, Austria, February 3-9, (2008).
9. D. B. Milošević, M. Busuladžić, A. Gazibegović- Busuladžić, and W. Becker: *Angle-Resolved High- Order Above Threshold Ionization of a Molecule: Sensitive Tool for Molecular Characterization*, Gordon Research Conference on Multiphoton Processes, Tilton School, Tilton, NH, USA, June 8-13 (2008).
10. A. Gazibegović-Busuladžić, D. B. Milošević, and W. Becker: "Saturation effects in HATI: electron spectra dependence on the temporal pulse shape", Laser Physics Workshop (LPHYS' 08), Trondheim, Norway, June 30-July 4, p.157 (2008).
11. D. B. Milošević, E. Hasović, S. Odžak, M. Busuladžić, A. Gazibegović- Busuladžić, and W. Becker: *New results in above-threshold ionization and high-harmonic generation of atomic and molecular systems*, Laser Physics Workshop (LPHYS' 08), Trondheim, Norway, June 30-July 4, p.109 (2008).
12. M. Busuladžić, A. Gazibegović-Busuladžić, D. B. Milošević, and W. Becker: *Ionization of diatomic molecules by strong laser field with linear or elliptical polarization*, Laser Physics Workshop (LPHYS' 08), Trondheim, Norway, June 30-July 4, p.156 (2008).
13. M. Okunishi, R. Itaya, K. Shimada, G. Prümper, K. Ueda, M. Busuladžić, A. Gazibegović-Busuladžić, D. B. Milošević, and W. Becker: *Angle-Resolved High-Order Above Threshold Ionization (ATI) Spectra For N_2 And O_2 : Measurements And Strong-Field Approximation Simulations*, 11th International Conference on Multiphoton Processes (ICOMP' 08), Heidelberg, Germany, September 18-23, Mo62 (2008).
14. M. Okunishi, R. Itaya, K. Shimada, G. Prümper, K. Ueda, M. Busuladžić, A. Gazibegović-Busuladžić, D. B. Milošević, and W. Becker: *Two-source double-slit interference in angle-resolved high-energy above threshold ionization spectra of diatoms*, 25th Symposium on Chemical Kinetics and Dynamics, Omiya Sonic City, Omiya, Japan, June 1-3, 3A08 (2009).
15. M. Okunishi, R. Itaya, K. Shimada, G. Prümper, K. Ueda, T. Morishita, Z. Chen, S. Watanabe, C.D. Lin, M. Busuladžić, A. Gazibegović-Busuladžić, D. B. Milošević, and W. Becker : *Angle-resolved high-energy ATI spectra of rare gas and diatomic molecules*, Symposium on Dynamics of Molecules and Clusters, Department of Chemistry, Graduate School of Science, Tohoku University, Japan, June 3, (2009).
16. M. Busuladžić, A. Gazibegović-Busuladžić, D. B. Milošević, and W. Becker: *Ellipticity dependence of high-order above-threshold ionization from aligned diatomic molecules*, Laser Physics Workshop (LPHYS' 09), Barcelona, Spain, July 13-17, p.108 (2009).
17. M. Okunishi, R. Itaya, K. Shimada, G. Prümper, K. Ueda, M. Busuladžić, A. Gazibegović-Busuladžić, D. B. Milošević, and W. Becker: *Two-source double-slit interference in angle-resolved high-energy above threshold ionization spectra of diatoms*, Laser Physics Workshop (LPHYS' 09), Barcelona, Spain, July 13-17, p.132 (2009).
18. M. Okunishi, R. Itaya, K. Shimada, G. Prümper, K. Ueda, M. Busuladžić, A. Gazibegović-Busuladžić, D. B. Milošević, and W. Becker: *Two-source double-slit interference in angle-resolved high-energy above threshold ionization spectra of diatoms*, XXVI International Conference on

Poster i usmena izlaganja
na konferencijama

- Photonic, Electronic, and Atomic Collisions, Western Michigan University, Kalamazoo, Michigan, USA, July 22-28, Fr183 (2009).
19. M. Okunishi, R. Itaya, K. Shimada, G. Prümper, K. Ueda, M. Busuladžić, A. Gazibegović-Busuladžić, D. B. Milošević, and W. Becker: *Two-source double-slit interference in angle-resolved high-energy above threshold ionization spectra of diatoms*, Second International Conference on Attoscience Physics, Kansas State University, Manhattan, Kansas, USA, July 28 –August 1, F10 (2009).
20. M. Busuladžić, A. Gazibegović-Busuladžić, E. Hasović, D. B. Milošević, and W. Becker: *Atoms and molecules in a strong laser field*, II International School and Conference on Photonics, Belgrade, Serbia, August 24-28, p.64 (2009).
21. M. Okunishi, R. Itaya, K. Shimada, G. Prümper, K. Ueda, M. Busuladžić, A. Gazibegović-Busuladžić, D. B. Milošević, and W. Becker: *Two-source double-slit interference in angle-resolved high-energy above threshold ionization spectra of diatoms*, International Workshop on Electronic Spectroscopy for Gas-phase Molecules and Solid Surfaces, ICES 11 satellite workshop hosted by IMRAM, Tohoku University, October 12-15, P.34 (2009).
22. A. Gazibegović-Busuladžić, D. B. Milošević, W. Becker, B. Bergues, I. Yu. Kiyan, and H. Helm: *High-order above-threshold photodetachment from halogen ions: plateau in the electron energy spectra caused by the rescattered electrons*, Laser Physics Workshop (LPHYS' 09), Barcelona, Spain, July 13-17, p.163 (2009).
23. Boris Bergues, Hannes Hultgren, Igor Kiyan, Azra Gazibegović-Busuladžić, Dejan Milošević, and Wilhelm Becker, *The Rescattering Effect in Strong-Field Photodetachment of Negative Ions*, 74. Jahrestagung und DPG Frühjahrstagung der Sektion AMOP, Hannover, Germany, 8.-12. March 2010.
24. H. Hultgren, I. Yu. Kiyan, B. Bergues, A. Gazibegović-Busuladžić, D. B. Milošević and W. Becker, *Electron Rescattering in Above-Threshold Photodetachment of Negative Ions*, 10th European Conference
25. E. Hasović, D. B. Milošević, M. Busuladžić, A. Gazibegović-Busuladžić, and W. Becker: *Highorder above-threshold ionization of heteronuclear diatomic molecules by strong laser field with arbitrary polarization*, Laser Physics Workshop (LPHYS' 11), Sarajevo, Bosnia and Herzegovina, July 11-15, S2/p.30 (2011).
26. E. Hasović, A. Gazibegović-Busuladžić, M. Busuladžić, D. B. Milošević and W. Becker: *Highorder above-threshold ionization with few-cycle laser pulses: molecular improved strong-field approximation vs. molecular low-frequency approximation*, Laser Physics Workshop (LPHYS' 11), Sarajevo, Bosnia and Herzegovina, July 11-15, S2/p.33 (2011).
27. A. Čerkić, M. Busuladžić, E. Hasović, A. Gazibegović-Busuladžić, D. B. Milošević and W. Becker: *Plateau structures in laser-assisted and laser induced processes*, III International School and Conference on Photonics, Belgrade, Serbia, August 29-September 02, p.91-92 (2011).
28. A. Čerkić, M. Busuladžić, E. Hasović, A. Gazibegović-Busuladžić, S. Odžak, and D. B. Milošević: *Ellipticity dependence of the plateau structures in different atomic and molecular processes in strong laser field*, III International School and Conference on Photonics, Belgrade, Serbia, August 29- September 02, p.92-93 (2011).
29. S. Odžak, A. Čerkić, M. Busuladžić, E. Hasović, A. Gazibegović-Busuladžić, and D. B. Milošević: *Heteronuclear diatomic molecules in a strong laser field with an arbitrary polarization*, IV International School and Conference on Photonics, Belgrade, Serbia, August 26-30, p.71 (2013).
30. M. Busuladžić, A. Čerkić, S. Odžak, A. Gazibegović-Busuladžić, E. Hasović, D. Habibović, and D. B. Milošević: *Atomic and molecular processes generated by linearly polarized few-cycle laser pulses*, IV International School and Conference on Photonics, Belgrade, Serbia, August 26-30, p.72 (2013).
31. A. Gazibegović-Busuladžić, E. Hasović, A. Čerkić, W. Becker, D. B. Milošević, and M. Busuladžić: *Atomic and molecular processes generated by few-cycle laser pulses*, Laser Physics Workshop (LPHYS' 14), Sofia, Republic of Bulgaria, July 14-18, S2/p.58 (2014).
32. D. Habibović, E. Hasović, A. Gazibegović-Busuladžić, S. Odžak, A. Čerkić, M. Busuladžić, and D. B. Milošević: *Laser – induced nonlinear processes in molecules*, The 1st Conference of Medical and Biological Engineering in Bosnia and Herzegovina (CMBEBiH 2015), Sarajevo, Bosnia and Herzegovina, March 13-15, P9/CMBE1116_PA, (2015).
33. S. Odžak, E. Hasović, A. Kramo, M. Busuladžić A. Gazibegović-Busuladžić, A. Čerkić, B. Fetić, and D. B. Milošević: *Atomic processes in strong bichromatic elliptically polarized fields*, 9th International Physics Conference of the Balkan Physical Union, Istanbul, Turkey, August 24-27, 04-PP46 (2015).
34. D. Habibović, S. Odžak, M. Busuladžić, E. Hasović, A. Gazibegović-Busuladžić, A. Čerkić, and D.B. Milošević: *Interference structures in nonlinear processes in strong infrared laser fields*, V International School and Conference on Photonics, Belgrade, Serbia, August 26-30, p.69-70 (2015).

Poster i usmena izlaganja
na konferencijama

35. D. Habibović, A. Čerkić, M. Busuladžić, A. Gazibegović-Busuladžić, S. Odžak, E. Hasović and D.B. Milošević: *Molecules in a bicircular strong laser field*, VI International School and Conference on Photonics, Belgrade, Serbia, August 28-September 01, p.65 (2017).
36. A. Gazibegović-Busuladžić, D. B. Milošević, M. Busuladžić, and E. Hasović: *Strong-field ionization of molecules by bicircular laser field*, QUTIF International Conference 2017 in Bad Honnef, Bad Honnef-Bonn, Germany, September 03-07, (2017).
37. A. Gazibegović-Busuladžić, M. Busuladžić, A. Čerkić, E. Hasović, W. Becker, and D. B. Milošević: *Strong-field ionization of linear molecules by a bichromatic elliptically polarized laser field with coplanar counterrotating or corotating components of different frequencies*, Laser Physics Workshop (LPHYS' 18), Nottingham, United Kingdom, July 16-20, S2.9.4, p.33 (2018).
38. A. Gazibegović-Busuladžić, M. Busuladžić, and D. B. Milošević: *Symmetries in molecular HATI*, Physics Conference in Bosnia and Herzegovina, Sarajevo, Bosnia and Herzegovina, October 25-26, pp. 30 (2018).
39. M. Hamzić, A. Gazibegović-Busuladžić, A. Čerkić, D. B. Milošević and M. Busuladžić: *Strong-field ionization of diatomic molecules by a two-color laser field*, Physics Conference in Bosnia and Herzegovina, Sarajevo, Bosnia and Herzegovina, October 25-26, pp. 44 (2018).
40. E. Đedović, A. Gazibegović-Busuladžić, M. Busuladžić, and A. Beganović: *Comparison of Specific Fractal and Multifractal Parameters for Certain Regions of Interest from Digital Mammograms*, The 3rd Conference of Medical and Biological Engineering in Bosnia and Herzegovina (CMBEBiH 2019), Banja Luka, Bosnia and Herzegovina, May 16-18, S4-6/pp.76, (2019).

Naučno-istraživački
projekti (kao voditelj
projekta)

1. ANALIZA SPEKTARA POLIATOMSKIH MOLEKULA, projekat finansiran od strane Ministarstva obrazovanja i nauke Federacije Bosne i Hercegovine u 2013/2014. godini.
2. UTICAJ SIMETRIJA MOLEKULA I LASERSKOG POLJA NA SPEKTRE RASIJANIH ELEKTRONA I X-ZRAKA projekat finansiran od strane Ministarstva obrazovanja i nauke Federacije Bosne i Hercegovine u 2016/2017. godini.

Naučno-istraživački
projekti (kao
učesnik projekta)

1. JONIZACIJA IZNAD PRAGA POMOĆU BICIRKULARNOG LASERSKOG POLJA, projekat finansiran od strane Ministarstva obrazovanja i nauke Kantona Sarajevo u 2005/2006. godini.
2. JONIZACIJA IZNAD PRAGA POMOĆU ULTRAKRATKOG LASERSKOG IMPULSA, projekat finansiran od strane Ministarstva obrazovanja i nauke Federacije Bosne i Hercegovine u 2005/2006. godini.
3. JONIZACIJA DVOATOMSKIH MOLEKULA I GENERACIJA VIŠIH HARMONIKA POMOĆU JAKOG LASERSKOG POLJA, projekat finansiran od strane Ministarstva obrazovanja i nauke Federacije Bosne i Hercegovine u 2007/2008. godini.
4. PRIMJENA LASERA U ATTOFIZICI I ATTOHEMIJI, projekat finansiran od strane Ministarstva obrazovanja i nauke Federacije Bosne i Hercegovine u 2009. godini.
5. TOWARD A QUANTITATIVE STRONG-FIELD APPROXIMATION AND ITS APPLICATION TO ATTOSCIENCE (Ka kvantitativnoj aproksimaciji jakog polja i njenoj primjeni u atonauci), projekat finansiran od strane Alexander von Humboldt fondacije iz SR Njemačke u periodu od 2010. do 2013. godine.
6. REZONANTNA POJAČANJA U JONIZACIONIM SPEKTRIMA MOLEKULA, projekat finansiran od strane Ministarstva obrazovanja i nauke Federacije Bosne i Hercegovine u 2014/2015. godini.
7. NELINEARNI ATOMSKI PROCESI U JAKOM BIHROMATSKOM LASERSKOM POLJU, projekat finansiran od strane Ministarstva obrazovanja i nauke Federacije Bosne i Hercegovine u 2015/2016. godini.
8. NOVI METODI GENERACIJE MEKIH X ZRAKA I RASIJANIH ELEKTRONA POMOĆU KOMPLEKSNIH LASERKIH POLJA, projekat finansiran od strane Ministarstva obrazovanja i nauke Kantona Sarajevo u 2019/2020. godini.
9. UTICAJ ELEKTROMAGNETSKOG ZRAČENJA NA MOLEKULARNE ANIONE, projekat finansiran od strane Ministarstva obrazovanja i nauke Federacije Bosne i Hercegovine u 2019/2020. godini.

Sarajevo, 14.01.2021.

Azra Gazibegović -Busuladžić