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RADNO ISKUSTVO

Meteorolog

Federalni hidrometeorološki zavod BiH [05/06/2000 – 30/09/2008]

Mjesto: Sarajevo

Zemlja: Bosna i Hercegovina

Nastavnik-docent

Prirodno-matematički fakultet Univerziteta u Sarajevu [01/10/2008 – 03/05/2017]

Mjesto: Sarajevo

Zemlja: Bosna i Hercegovina

Nastavnik-vanredni profesor

Prirodno-matematički fakultet Univerziteta u Sarajevu [04/05/2017 – Trenutačno]

Mjesto: Sarajevo

Zemlja: Bosna i Hercegovina

OBRAZOVANJE I OSPOSOBLJAVANJE

Elektrotehničar

Elektro-mašinski školski centar [1983 – 1987]

Adresa: 88000 Mostar (Bosna i Hercegovina)

Diplomirani fizičar

Prirodno-matematički fakultet Univerziteta u Sarajevu [1990 – 2000]

Adresa: Zmaja od Bosne 33/35, 71000 Sarajevo (Bosna i Hercegovina)

Magistar prirodnih nauka iz područja fizike

Prirodno-matematički fakultet Univerziteta u Tuzli [2001 – 2005]

Adresa: Univerzitetska 4, 75000 Tuzla (Bosna i Hercegovina)

Doktor fizičkih nauka

Prirodno-matematički fakultet Univerziteta u Sarajevu [2005 – 2008]

Adresa: Zmaja od Bosne 33/35, 710000 Sarajevo (Bosna i Hercegovina)

JEZIČNE VJEŠTINE

Materinski jezik/jezici:

bosanski

Drugi jezici:

engleski

SLUŠANJE C1 ČITANJE C2 PISANJE C2

GOVORNA PRODUKCIJA C1

GOVORNA INTERAKCIJA C1

njemački

SLUŠANJE B1 ČITANJE B2 PISANJE A2

GOVORNA PRODUKCIJA A2

GOVORNA INTERAKCIJA A2

DIGITALNE VJEŠTINE

Internet / Microsoft Office / Linux / C / Open Office / Skype Zoom / Email / Organizovanost / Google Maps

NAUČNI RADOVI

Plateau structures in potential scattering in a strong laser field

A. Čerkić i D. B. Milošević, Phys. Rev. A **70**, 053402 (2004).

Potential scattering in a bichromatic laser field: plateau structures

A. Čerkić i D. B. Milošević, Laser Phys. **15**, 268 (2005).

Interferences of real trajectories and the emergence of quantum features in electron-atom scattering in a strong laser field

A. Čerkić i D. B. Milošević, Phys. Rev. A **73**, 033413 (2006).

The contribution of incoherent photoelectron scattering off neighbouring atoms to the above-threshold ionization and detachment spectra

A. Čerkić i D. B. Milošević, J. Phys. B **39**, 4419 (2006).

Focal averaging and incoherent scattering in laser-assisted radiative recombination and scattering processes

A. Čerkić i D. B. Milošević, Phys. Rev. A **75**, 013412 (2007).

The role of incoherent scattering in laser-induced and laser-assisted processes

A. Čerkić i D. B. Milošević, Laser Phys. **19**, 783 (2009).

High-order above-threshold ionization beyond the first-order Born approximation

A. Čerkić, E. Hasović, D. B. Milošević i W. Becker, Phys. Rev. A **79**, 033413 (2009).

Low-frequency approximation for high- order above-threshold ionization

D. B. Milošević, A. Čerkić, B. Fetić, E. Hasović i W. Becker, Laser Phys. **20**, 573 (2010).

Plateau structures in laser-assisted and laser-induced processes

A. Čerkić, M. Busuladžić, E. Hasović, A. Gazibegović-Busuladžić, W. Becker i D. B. Milošević, Phys. Scr. **T149**, 014043 (2012).

Ellipticity dependence of plateau structures in atomic and molecular processes in a strong laser field

A. Čerkić, M. Busuladžić, E. Hasović, A. Gazibegović-Busuladžić, S. Odžak, K. Kalajdžić i D. B. Milošević, Phys. Scr. **T149**, 014044 (2012).

Few-cycle laser-pulse-assisted electron-atom potential scattering

A. Čerkić i D. B. Milošević, Phys. Rev. A **87**, 033417 (2013).

Few-cycle laser-pulse-assisted electron-ion radiative recombination

A. Čerkić i D. B. Milošević, Phys. Rev. A **88**, 023414 (2013).

Heteronuclear diatomic molecules in a strong laser field with an arbitrary polarization

S. Odžak, A. Čerkić, M. Busuladžić, E. Hasović, A. Gazibegović-Busuladžić i D. B. Milošević, Phys. Scr. **T162**, 014012 (2014).

Atomic and molecular processes generated by linearly polarized few-cycle laser pulses

M. Busuladžić, A. Čerkić, S. Odžak, A. Gazibegović-Busuladžić, E. Hasović, D. Habibović i D. B. Milošević, Phys. Scr. **T162**, 014008 (2014).

Molecular above-threshold ionization spectra as an evidence of the three-point interference of electron wave packets

E. Hasović, D. B. Milošević, A. Gazibegović-Busuladžić, A. Čerkić i M. Busuladžić, J. Phys. Conf. Ser. **594**, 012056 (2015).

Interference structures in nonlinear processes in strong infrared laser fields

D. Habibović, S. Odžak, M. Busuladžić, E. Hasović, A. Gazibegović-Busuladžić, A. Čerkić i D. B. Milošević, Opt. Quant. Electron. **48**, 193 (2016).

Atomic processes in strong bichromatic elliptically polarized laser fields

S. Odžak, E. Hasović, A. Kramo, M. Busuladžić, A. Gazibegović-Busuladžić, A. Čerkić, B. Fetić i D. B. Milošević, AIP Conf. Proc. **1722**, 200007 (2016).

Electron-ion radiative recombination assisted by a bichromatic elliptically polarized laser field

A. Čerkić, M. Busuladžić i D. B. Milošević, Phys. Rev. A **95**, 063401 (2017).

Electron-molecule scattering in a strong laser field: Two-center interference effects

J. Dakić, D. Habibović, A. Čerkić, M. Busuladžić i D. B. Milošević, Phys. Rev. A **96**, 043406 (2017).

Electron-atom potential scattering assisted by a bichromatic elliptically polarized laser field

A. Korajac, D. Habibović, A. Čerkić, M. Busuladžić i D. B. Milošević, Eur. Phys. J. D **71**, 251 (2017).

Molecules in a bicircular strong laser field

D. Habibović, A. Čerkić, M. Busuladžić, A. Gazibegović-Busuladžić, S. Odžak, E. Hasović i D. B. Milošević, Opt. Quant. Electron. **50**, 214 (2018).

Molecular-orientation-dependent interference and plateau structures in strong-field ionization of a diatomic molecule by a corotating bichromatic elliptically polarized laser field

M. Busuladžić, A. Čerkić, A. Gazibegović-Busuladžić, E. Hasović i D. B. Milošević, Phys. Rev. A **98**, 013413 (2018).

Strong-field ionization of linear molecules by a bichromatic elliptically polarized laser field with coplanar counterrotating or corotating components of different frequencies

A. Gazibegović-Busuladžić, M. Busuladžić, A. Čerkić, E. Hasović, W. Becker i D. B. Milošević, J. Phys. Conf. Ser. **1206**, 012003 (2019).

Role of the relative phase and intensity ratio in electron-ion recombination assisted by a bicircular laser field

A. Tutmić, A. Čerkić, M. Busuladžić i D. B. Milošević, Eur. Phys. J. D **73**, 231 (2019).

Electron-atom potential scattering in a corotating bicircular laser field

S. Kovačević, A. Čerkić, M. Busuladžić i D. B. Milošević, Laser Phys. **30**, 055301 (2020).

Signature of molecular symmetry in the plateau region of the photoelectron spectra: Above-threshold ionization of the C₂ molecule

M. Busuladžić, A. Gazibegović-Busuladžić, A. Čerkić i D. B. Milošević, Phys. Scr. **95**, 075402 (2020).

Strong-field ionization of homonuclear diatomic molecules using orthogonally polarized two-color laser fields

D. Habibović, A. Gazibegović-Busuladžić, M. Busuladžić, A. Čerkić i D. B. Milošević, Phys. Rev. A **102**, 023111 (2020).

POSTERI I USMENA IZLAGANJA NA KONFERENCIJAMA

Application of numerical weather products in weather forecast

A. Čerkić, 1st International Workshop of Regional Meteorological Services on Application of Numerical Weather Products, Reading, UK, September 10-12 (2001).

Potential scattering in a strong laser field: plateau structures

A. Čerkić i D. B. Milošević, 13th International Laser Physics Workshop (LPHYS'04), Trieste, Italy, July 12-16, p. 146 (2004).

Simulation of the above-threshold ionization and detachment experiments using the strong-field approximation

D. B. Milošević, E. Hasović, M. Busuladžić, A. Gazibegović-Busuladžić, A. Čerkić i W. Becker, 15th International Laser Physics Workshop (LPHYS'06), Lausanne, Switzerland, July 24-28, p. 107 (2006).

The role of incoherent scattering in laser-induced and laser-assisted processes

A. Čerkić i D. B. Milošević, 17th International Laser Physics Workshop (LPHYS'08), Trondheim, Norway, June 30-July 4, p. 115 (2008).

Low-frequency approximation for high-order above-threshold ionization

D. B. Milošević, A. Čerkić, B. Fetić, E. Hasović, D. B. Milošević i W. Becker, 18th International Laser Physics Workshop (LPHYS'09), Barcelona, Spain, July 13-17, p. 133 (2009).

Angle-resolved high-order above-threshold ionization spectra of inert gases in the low-frequency approximation

D. B. Milošević, A. Čerkić, B. Fetić, E. Hasović, D. B. Milošević i W. Becker, Second International Conference on Attosecond Physics, Kansas State University, Manhattan, Kansas, USA, July 28-August 1, F30 (2009).

Plateau structures in laser-assisted and laser-induced processes

A. Čerkić, M. Busuladžić, E. Hasović, A. Gazibegović-Busuladžić, D. B. Milošević i W. Becker, 3rd International School and Conference on Photonics (Photonica 2011), Belgrade, Serbia, August 29-September 2, p. 91-92 (2011).

Ellipticity dependence of the plateau structures in different atomic and molecular processes in strong laser field

A. Čerkić, M. Busuladžić, E. Hasović, A. Gazibegović-Busuladžić, S. Odžak i D. B. Milošević, 3rd International School and Conference on Photonics (Photonica 2011), Belgrade, Serbia, August 29-September 2, p. 92-93 (2011).

Heteronuclear diatomic molecules in a strong laser field with an arbitrary polarization

S. Odžak, A. Čerkić, M. Busuladžić, E. Hasović, A. Gazibegović-Busuladžić i D. B. Milošević, 4th International School and Conference on Photonics (Photonica 2013), Belgrade, Serbia, August 26-30, p. 71 (2013).

Atomic and molecular processes generated by linearly polarized few-cycle laser pulses

M. Busuladžić, A. Čerkić, S. Odžak, A. Gazibegović-Busuladžić, E. Hasović, D. Habibović i D. B. Milošević, 4th International School and Conference on Photonics (Photonica 2013), Belgrade, Serbia, August 26-30, p. 72 (2013).

Atomic and molecular processes generated by few-cycle laser pulses

A. Gazibegović-Busuladžić, E. Hasović, A. Čerkić, W. Becker, D. B. Milošević i M. Busuladžić, 23rd International Laser Physics Workshop (LPHYS'14), Sofia, Bulgaria, July 14-18, p. 58 (2014).

Interference structures in nonlinear processes in strong infrared laser fields

D. Habibović, S. Odžak, M. Busuladžić, E. Hasović, A. Gazibegović-Busuladžić, A. Čerkić i D. B. Milošević, 5th International School and Conference on Photonics (Photonica 2015), Belgrade, Serbia, August 24-28, p. 69 (2015).

Atomic processes in strong bichromatic elliptically polarized laser fields

B. Fetić, S. Odžak, E. Hasović, A. Kramo, M. Busuladžić, A. Gazibegović-Busuladžić, A. Čerkić i D. B. Milošević, 9th International Physics Conference of the Balkan Physical Union (BPU9), Istanbul, Turkey, August 24-27, p. 364, 04-PP46 (2015).

OBJAVLJENE KNJIGE I UDŽBENICI

Statistička fizika

A. Čerkić, S. Odžak i D. Hadžiahmetović, Univerzitetsko izdanje, Sarajevo, 2013.

FIZIKA I sa primjenama u biologiji i medicini

M. Busuladžić, A. Čerkić, A. Gazibegović-Busuladžić, E. Hasović i J. Stahov, Prirodno-matematički fakultet Sarajevo, Sarajevo, 2015.

FIZIKA II sa primjenama u biologiji i medicini

A. Čerkić, A. Gazibegović-Busuladžić, M. Busuladžić i E. Škaljo, Prirodno-matematički fakultet Sarajevo, Sarajevo, 2018.

ZBIRKA ZADATAKA IZ FIZIKE sa primjenama u biologiji i medicini

M. Busuladžić, H. Osmanović, A. Čerkić i A. Gazibegović-Busuladžić, Prirodno-matematički fakultet Sarajevo, Sarajevo, 2019.

NAUČNO-ISTRAŽIVAČKI PROJEKTI

Atomski i molekularni procesi u jakom laserskom polju

Projekt finansiran od Federalnog ministarstva obrazovanja i nauke, Federacija Bosne i Hercegovine (2004). Uloga: učesnik projekta-vanjski saradnik

Control of atomic processes with strong fields

Follow-up projekt podržan od Volkswagen fondacije, program: Cooperation with Natural and Engineering Scientists in Central and Eastern Europe (2007-2008). Uloga: učesnik projekta

Jonizacija dvoatomskih molekula i generacija viših harmonika pomoći jakog laserskog polja

Projekt podržan od Federalnog ministarstva obrazovanja i nauke, Federacija Bosne i Hercegovine (2007-2008). Uloga: učesnik projekta-vanjski saradnik

Primjena jakih laserskih polja u atofizici i atohemiji

Projekt podržan od Federalnog ministarstva obrazovanja i nauke, Federacija Bosne i Hercegovine, (2009). Uloga: učesnik projekta-vanjski saradnik

Toward a quantitative strong-field approximation and its application to attoscience

Projekt u saradnji sa dr. Wilhelmom Beckerom sa Max-Born Instituta iz Berlina i podržan od Alexander von Humboldt fondacije u okviru Research Group Linkage Programme

Analiza spektara poliatomskih molekula

Projekt podržan od Federalnog ministarstva obrazovanja i nauke, Federacija Bosne i Hercegovine (2013-2014). Uloga: učesnik projekta

Rezonantna pojačanja u jonizacionim spektrima molekula

Projekt podržan od Federalnog ministarstva obrazovanja i nauke, Federacija Bosne i Hercegovine (2014-2015). Uloga: učesnik projekta

Nelinearni atomski procesi u jakom bihromatskom laserskom polju

Projekt podržan od Federalnog ministarstva obrazovanja i nauke, Federacija Bosne i Hercegovine (2015-2016). Uloga: učesnik projekta

Novi metodi generacije mekih X zraka i rasijanih elektrona pomoću kompleksnih laserskih polja

Projekt podržan od Ministarstva za obrazovanje, nauku i mlade, Kanton Sarajevo (2019-2020). Uloga: učesnik projekta

Uticaj elektromagnetskog zračenja na molekularne anione

Projekt podržan od Federalnog ministarstva obrazovanja i nauke, Federacija Bosne i Hercegovine (2019-2020). Uloga: učesnik projekta