1. Molba

2. Saglasnost rukovodioca projekta

3. Biografija

4. Pregled naučne aktivnosti

5. Elementi za kvalitativnu ocenu naučnog doprinosa

5.1. Izabrani radovi u kojima je doprinos dr Dragana Lukića bio ključan

5.1.1. Članstvo u uređuvačkim odborima časopisa, uređivanje monografija, recenzije naučnih radova i projekata

5.2. Angažovanost u razvoju uslova za naučni rad, obrazovanju i formiranju naučnih kadrova

5.2.1. Pedagoški rad

5.2.3. Međunarodna saradnja

5.2.4. Organizacija naučnih skupova

5.3. Organizacija naučnog rada

5.3.1. Rukovođenje naučnim projektima, podprojektima i zadacima

5.4. Kvalitet naučnih rezultata

5.4.1. Uticajnost naučnih radova kandidata

5.4.2. Ugled i uticajnost publikacija u kojima su objavljeni radovi kandidata

5.4.3. Stepen samostalnosti u naučnoistraživačkom radu i uloga u realizaciji radova u naučnim centrima u zemlji i inostranstvu

6. Elementi za kvantitativnu ocenu naučnog doprinosa

6.1. Ostvareni rezultati u periodu nakon prethodnog izbora u zvanje

6.2. Poređenje sa minimalnim kvantitativnim uslovima za izbor u zvanje naučni saradnik

6.3. Citiranost

7. Spisak obljavljenih radova po kategorijama

7.1. Radovi u vrhunskim međunarodnim časopisima izuzetnih – kategorija M21a

7.2. Radovi u vrhunskim međunarodnim časopisima – kategorija M21

7.3. Radovi u istaknutom međunarodnom časopisu – kategorija M22

7.4. Radovi objavljeni u međunarodnom časopisu – kategorija M23

7.5. Saopštenje sa međunarodnog skupa štampano u celini – kategorija M33

7.6. Saopštenje sa međunarodnog skupa štampano u izvodu – kategorija M34

7.7. Saopštenje sa skupa nacionalnog značaja štampano u celini – kategorija M63

7.8. Saopštenje sa skupa nacionalnog značaja štampano u izvodu – kategorija M64

7.9 Radovi objavljeni u časopisu nacionalnog značaja – kategorija M53

7.10. Magistratura i doktorat:

8. Citiranost

1. Molba

NAUČNOM VEĆU INSTITUTA ZA FIZIKU

Predmet: Zahtev za pokretanje postupka za izbor u zvanje naučni saradnik

Molim Naučno veće Instituta za fiziku da u skladu sa Pravilnikom o postupku i načinu vrednovanja i kvantitativnom iskazivanju naučnoistraživačkih rezultata istraživača, pokrene postupak za moj izbor u zvanje naučni saradnik.

U Beogradu 20. 12. 2017.

# 2. Saglasnost rukovodioca projekta

**Naučnom veću**

**Instituta za fiziku**

**Predmet:** *Pokretanje**postupka za izbor dr Dragana Lukića u zvanje* ***naučni saradnik***

Predlažem Naučnom veću Instituta za fiziku da pokrene postupak za izbor dr *Dragana Lukića* u zvanje naučni saradnik, jer zadovoljava sve potrebne uslove predviđene Pravilnikom o postupku i načinu vrednovanja i kvantitativnom iskazivanju naučnoistraživačkih rezultata istraživača.

Za članove komisije predlažem:

1. dr Branislav Jelenković, naučni savetnik Instituta za fiziku u Beogradu i dopisni član SANU

2. dr Dejan Pantelić, naučni savetnik Instituta za fiziku u Beogradu

3. prof dr Milorad Kuraica, redovni profesor Fizičkog fakulteta Univerziteta u Beogradu

U Beogradu 10. 11. 2017. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Dr Branislav Jelenković

Naučni savetnik Instituta za fiziku u Beogradu  
 i rukovodilac projekta III 45016

# 3. Biografija Dr Dragan Lukić

Dragan (Velimira) Lukić je rođen u Čačku 6. 5. 1 964 godine gde je završio osnovnu i srednju školu. Diplomirao je 1991. godine na Fizičkom fakultetu, Univerziteta u Beogradu, na smeru teorijska fizika radom “Kinematika binarnih nuklearnih reakcija” pod rukovodstvom dr Petra Adžića. Naučnu karijeru gradio je u Institutu za fiziku i na brojnim usavršavanjima u inostranstvu, prvenstveno u Sjedinjenim Američkim Državama.

U Institutu za fiziku u Zemunu radi od januara 1992. godine, najpre u Centru za atomsku i subatomsku fiziku na projektu *Binarni sudari atomskih čestica* zatim na projektu *Atomska i molekulska fizika: Eksperimentalna fizika sudara atomskih čestica*. Poslediplomske studije na grupi Eksperimentalna fizika atoma i molekula okončao je magistarskim radom “Efektivni preseci za jonizaciju molekula NO2 i COS elektronima energije od praga do 1000 eV” pod rukovodstvom akademika dr Milana Kurepe, odbranjenim 1997. godine.

Krajem 1998 prelazi u Centar za eksperimentalnu fiziku na projekat *Niskotemepraturna plazma* pod rukovodstvom akademika dr Zorana Petrovića. Od septembra 1999. godine nalazi se na stručnom usavršavanju na Univerzitetu Tenesija, SAD gde radi pod rukovodstvom profesora dr Ivana Sellina na projektima finansiranim od strane Nacionalne Naučne Fondacije SAD.

Od jula 2001. godine je ponovo u Institutu za fiziku gde radi u Centru za eksperimentalnu fiziku pod rukovodstvom dr Brane Jelenkovića na projektu *Precizna laserska spektroskopija za primenu na optičke zamke, interferometriju i optičku metrologiju*.

Doktorirao je 28. 9. 2004 na Fizičkom fakultetu, Univerziteta u Beogradu sa doktorskom disertacijom “Eksperimentalno proučavanje autojonizacije i višestruke fotojonizacije atoma Li, Ne, Ar, Be i molekula N2O”. Mentor doktorske disertacije bio je profesor Dr Dragoljub Belić. Izabran je u zvanje naučni saradnik 2005. godine.

Od februara 2005. do avgusta 2007, nalazi se na postdoktorskom usavršavanju na Astrofizičkoj Laboratoriji Kolumbija Univerzitetu u Njujorku na projektu dr Danijela Savina finansiranom od strane NASA u saradnji sa istraživačkim grupama profesora *Dr. Alfred Müller* sa Gisen Univerziteta i profesora *Dr. Andreas Wolf* iz *Max Planck Institute for Nuclear Physics* (MPIK), u Hajdelbergu.

Od septembra 2007. godine je u Laboratoriji za optiku i lasere u Institutu za fiziku gde radi na projektu *Kvantna i optička interferometrija* pod rukovodstvom dr Brane Jelenkovića.

Od oktobra 2008. godine do januara 2011 predaje na Agronomskom fakultetu u Čačku, Univerziteta u Kragujevcu kao docent za nastavni predmet *Fizika sa Elektronikom*. Pored toga drži nastavu i vežbe iz predmeta *Informatika* kao i *Metodologiju naučnog rada* za postdiplomce.

Od 2011. godine do danas godine je u Centru za Fotoniku Instituta za fiziku. Izabran je u zvanje viši naučni saradnik 13 jula. 2011. godine.

Član je Društva Fizičara Srbije i Optičkog Društva Srbije.

Dr Dragan Lukić je bio član organizacionog odbora konferencije, 17th Summer School and International Conference of Physics on Ionized Gases održane od 29. avgusta do 1. Septembra 1994. Godine u Beogradu, kao i predsednik organizacionog odbora Pete i Šeste zimske radionice iz Fotonike održanih 2012. i 2013. godine kao i član organizacionog odbora od 2009. godine. Uređuje zbornik apstrakata sa te konferencije.

4. Pregled naučne aktivnosti

U periodu 1992-1995 godine učestvovao je na naučnom projektu finansiranom od Ministarstva za nauku i Tehnologiju Republike Srbije “Binarni sudari atomskih čestica” (broj projekta E.0106), pod rukovodstvom dr Nade Đurić i profesora dr Milan Kurepe.

U periodu 1996-1998 godine učestvovao je na naučnom projektu finansiranom od Ministarstva za nauku i tehnologiju Republike Srbije “Atomska i molekulska fizika: Eksperimentalna fizika sudara atomskih čestica” (projekat broj 01E02), pod rukovodstvom dr Bratislava Marinković. Objavio dva rada u medjunarodnim časopisima i odbranio magistarsku tezu.

U periodu 1998 -1999 godine učestvovao je na naučnom projektu finansiranom od Ministarstva za nauku i tehnologiju Republike Srbije “Fizika niskotemperaturne plazme”, pod rukovodstvom dr Zorana Petrovića.

U periodu 1999-2001 godine učestvovao je na naučnim projektima U.S. NSF projekti PHY-9732159 i PHY-9986699 na Univerzitetu Tenesija Noksvil pod rukovodstvom dr Ivana Selina. Objavio 14 radova u medjunarodnim časopisima u toku višegodisnje saradnje.

U periodu 2002-2005 učestvovao je na naučnom projektu finansiranom od Ministarstva za nauku i zaštitu sredine republike Srbije “Precizna laserska spektroskopija” (broj projekta 1443) pod rukovodstvom dr Branislava Jelenkovića. Objavio dva rada u medjunarodnim časopisima. Odbranio doktorsku tezu.

U periodu 2005-2007 učestvovao je na naučnom projektu “New Low Temperature Dielectronic Recombination Rate Coefficients for Modeling Photoionized Cosmic Plasmas” (NASA Space Astrophysics Research and Analysis grant NAG5-5420) na Kolumbija univerzitetu pod rukovodstvom dr Daniel Savina. Objavio 6 radova u medjunarodnim časopisima.

U periodu 2007- 2010 učestvuje u projektu “Kvantna i optička interferometija” (broj projekta 141003) finansiranom od Ministarstva nauke Republike Srbije pod rukovodstvom dr Branislava Jelenkovića.

U period 2007- 2009 učestvuje u projektu “Reinforcing research center for quantum and optical metrology”, CORDIS FP6 project (acronym: QUPOM broj 026322), finansiranom od strane Evropske komisije u domenu Okvirnog programa 6 pod rukovodstvom dr Branislava Jelenkovića.

Švajcarska nacionalna fondacija za nauku, *SCOPES project* (2009-2012)  
Moderna optika i spektroskopija: od istraživanja do obrazovanja *IPB* koordinator: Dr Branislav Jelenković

Od 2011 do danas učestvuje u projektima “Proizvodnja i karakterizacija nanofotoničkih funkcionalnih stuktura u biomedicine i informatici” (broj projekta III045016) i “Vidljiva i tamna materija u obližnjim galaksijam“ (broj projekta ON176021) finansiranim od strane Ministarstva prosvete i nauke. Objavio dva rada u medjunarodnim časopisima po jedan na svakom od projekata.

Autor ili koautor više od 130 naučnih radova. Objavio je :

* 5 radova u međunarodnim časopisima izuzetnih vrednosti (M21a)
* 11 radova u vrhunskom međunarodnom časopisu (M21b);
* 6 radova u istaknutom međunarodnom časopisu (M22);
* 3 rada u međunarodnom časopisu (M23);
* 20 saopštenja na međunarodnim skupovima štampanim u celini (M33);
* 62 saopštenja na međunarodnim skupovima štampanim u izvodu (M34);
* Jedno poglavlje u monografiji nacionalnog značaja (M44);
* Jedan rada u vodećem časopisu nacionalnog značaja (M51);
* Jedan rada u naučnom časopisu (M53);
* 11 saopštenja sa skupa nacionalnog značaja štampanih u celini (M63);
* 12 saopštenja sa skupa nacionalnog značaja štampanih u izvodu (M64);

**5. Elementi za kvalitativnu ocenu naučnog doprinosa**

**5.1 Izabrani radovi u kojima je doprinos dr Dragana Lukića bio ključan**

1 D. Lukić, J.B. Bluett, and R. Wehlitz, “Unexpected Behavior of the Near-Threshold Double-Photoionization Cross Section of Beryllium”, PHYSICAL REVIEW LETTERS 93, 023003(2004) [IF(2004)=7.218]

U radu je proučavana dvostruka fotojonizacija atoma berilijuma u oblasti praga za reakciju. Vazenje

Vanieove teorije praga je potvrdjeno do 1.7 eV. Neočekivane oscilacije su dovele do modelovanje preseka sa zakonom praga zasnovanom na kulon-dipolnoj teoriji koje je ukazalo na slaganje sa eksperimentom do oko 5.5 eV čime je dovedeno u pitanje univerzalnost Vanieove teorije praga.

2 A. Krmpot, M. Mijailović, B. Panić, D. Lukić, A. Kovačević, D. Pantelić, and B. Jelenković, “Sub-Doppler absorption narrowing in atomic vapor at two intense laser fields”, Optics Express 13, 1448-1456, MAR 7 2005 [IF(2005)= 3.764]

U radu je proučavana elektromagnetski indukovana apsorcija i transparencija u pari rubidijuma koristeći probu i pumpu uporedive snage. Elektromagnetski indukovana apsorcija i transparencija moguce je uočiti za manje atomskih konfiguracija. Elektromagnetna indukovana absorpcija je detektovana samo za zatvorene u N-shemi sa četiru nivoa. Kombinacija jake probe i spezuceg signala omougućava uzak absorpcioni signal usled trofotonske rezonance.

3 P. N. Juranić, D. Lukić, K. Barger, and R. Wehlitz, “Experimental evidence for modulations in the relative double-photoionization cross section of C60 from threshold up to 280 eV”, PHYSICAL REVIEW LETTERS 96, 023001 JAN 20 2006 [IF(2006)= 7.072]

Razmatra se modulacije preseka za višestruku fotojonizaciju i fragmentaciju fulerena od praga za dvostruku fotojonizaciju do 289 eV iznad čega se otvaraju kanali za fotojonizaciju unutrašnjih ljuski. Prezentirane su dve nove modulisane komponente superponirane na gladak odnos prinosa dvostruke prema jednostrukoj fotojonizaciji. Položaj maksimum modulacije povezna je sa geometrijskim dimenzijama molekula fulerena.

4 D. V. Lukić, M. Schnell, D. W. Savin, C. Brandau, E. W. Schmidt, S. Böhm, A. Müller, S. Schippers,M. Lestinsky, F. Sprenger, A. Wolf, Z. Altun, and N.R. Badnell, “Dielectronic Recombination of Fe XV forming Fe XIV: Laboratory Measurements and Theoretical Calculations”, ASTROPHYSICAL JOURNAL, 664 (2007) 1244–1252; astro-h/0704.0905. [IF(2007)= 6.405]

5 M. Lestinsky, N. R. Badnell, D. Bernhardt, M. Grieser, J. Hoffmann, D. Lukić, A. Müller, D. A. Orlov, R. Repnow, D. W. Savin, E. W. Schmidt, M. Schnell, S. Schippers, A. Wolf and D. Yu, “ELECTRON-ION RECOMBINATION OF Fe X FORMING Fe IX AND OF Fe XI FORMING Fe X: LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS“, ASTROPHYSICAL JOURNAL 698, 648-659(2009) [IF(2009)= 7.364]

Dr Lukić je učestvovao u merenju i obradio rezultate merenja dvoelektronske rekombinacije Fe14+, Fe9+  i Fe10+. Pretodna modelovanja sektara x zračenja AGN ukazalo je na mogućnost da su preporučene vrednosti za koeficijente brzine elektron-jonske rekonbinacije za jone gvozdja sa delimično popunjenim M-ljuskama neodgovarajuće za opsege temperatura u kojim ovi joni nastaju u fotojonizovanim plazmama. Merenje je obavljeno korisćenjem metode susrećućih elektron-jonskih snopova. Potvrdjene su pretpostavke. Nova multikonfiguraciona Breit-Pauli izračunavanja su takodje radjena i pokazalo se da su neslaganja veća od procenjenih eksperimentalnih gresaka.

6 D. V. Lukic, SEARCH FOR POSSIBLE EXOMOONS WITH FAST TELESCOPE, Research in Astronomy and Astrophysics, V17, (No 12) 121, (2017) [IF(2014)=1.371]

Posto nećemo biti u mogućnosti barem jos deset godina da ih detektujemo optickim metodam, u radu Dr Lukić razmatra mogućnost detekcije egzomeseca pomoću novog radio teleskopa FAST. Postoji mogućnost utvrdjivanja njihovog postojanja u dva obliznja viseplanetarna sistema.

**5.1.1. Članstvo u ure****đivačkim odborima časopisa, uređivanje monografija, recenzije naučnih radova i projekata**

Dr Dragan Lukić uređuje zbornik abstrakata domaće konferencije Fotonika.

**5.2. Angažovanost u razvoju uslova za naučni rad, obrazovanju i formiranju naučnih kadrova**

Dr Dragan Lukić je doprinosio svoji angažovanjem u osnivanju i razvoju Centra za fotoniku pre i posle odlaska na stručno usavrsavanje na Kolumbija univerzitu.

Dr Dragan Lukić je aktivno učestvovao i na međunarodnom projektu ”**Reinforcing the center for quantum and optical metrology**” QUPOM 026322 pod rukovodstvom dr Brane Jelenkovića u periodu 2007 do 2009 godine koji je u okviru FP6 programa (EU Sixth Framework Programme) finansirala Evropska Komisija od 01.08.2006. do 01.08.2009. godine. U okviru projekta razvijene su dve laboratorije: jedna za holografsku interferometriju i druga za kvantnu optiku i lasersku spektroskopiju.

**5.2.1. Pedagoški rad**

Dr Lukić je radio kao docent na Agronomskom fakultetu za nastavni predmet Fizika sa Elektronikom. Pored toga držao je nastavu i vežbe iz predmeta Informatika kao i Metodologiju naučnog rada za postdiplomce.

**5.2.2. Mentorstvo pri izradi magistarskih i doktorskih radova, rukovodjenje specijalističkim radovima**

Učestvovao je u izradi diplomskog rada Ivana Radojičića *“Konstrukcija diodnog lasera sa spoljašnjim rezonatorom i stabilizacija talasne dužine emitovanja na hiperfini prelaz rubidijuma”.*

**5.2.3. Međunarodna saradnja**

U okviru međunarodne naučne saradnje učestvovao je na više projekata. U periodu 2007-2009 učestvovao je na naučnom projektu *“Reinforcing research center for quantum and optical metrology”* (acronym: QUPOM Broj 026322), finansiranom od strane Evropske komisije u domenu Okvirnog programa 6 (FP6) pod rukovodstvom dr Brane Jelenkovića.

U periodu 2009-2012 učestvuje u projektu Švajcarske nacionalne fondacija za nauku, *SCOPES project* (2009-2012) Moderna optika i spektroskopija: od istraživanja do obrazovanja (**SCOPES project – Modern optics and spectroscopy – from research to education)**, *IPB* koordinator: Dr Branislav Jelenković. Projekat je trajao 36 meseci od 2010. godine do 2013. godine. Osnovni cilj projekta je bio razvoj složenih učila za potrebe nastave fizike na fakultetima. Dr Dragan Lukić je učestvovao u izradi jednog učila.

U periodu 2005-2007 učestvovao je na naučnom projektu *“New Low Temperature Dielectronic Recombination Rate Coefficients for Modeling Photoionized Cosmic Plasmas”* (NASA Space Astrophysics Research and Analysis grant NAG5-5420) na Kolumbija univerzitetu pod rukovodstvom dr Daniela Savina finansiranom od strane NASA u saradnji sa istraživačkim grupama profesora *Dr. Alfred Müller* sa Gisen Univerziteta i profesora *Dr. Andreas Wolf* iz *Max Planck Institute for Nuclear Physics (MPIK)*, u Hajdelbergu.

Sarađivao je sa dr Ralfom Wehlitzom sve do zatvaranja SRC centra za sinhrotronsko zračenje.

**5.2.4. Organizacija naučnih skupova**

Dr Dragan Lukić je bio član organizacionog odbora *17. Letnje škole i međunarodne konferencije o fizici jonizovanog gasa* (17th Summer School and International Conference of Physics on Ionized Gases) održane od 29. avgusta do 1 septembra 1994. godine.

Dr Dragan Lukić je član programskog i organizacionog odbora konferencije sa međunarodnim učešćem Radionica Fotonika. Dve godine je bio predsednik Organizacionog odbora 2012 i 2013. godine.

**5.3. Organizacija naučnog rada**

**5.3.1. Rukovođenje naučnim projektima, podprojektima i zadacima**

Dr Dragan Lukić je učestvovao na sledećim projektima Ministarstva za nauku i tehnološki razvoj:

U periodu 1992-1995 godine učestvovao je na naučnom projektu finansiranom od Ministarstva za nauku i tehnologiju Republike Srbije *“Binarni sudari atomskih čestica”* (broj projekta E.0106).

U periodu 1996-1998 godine učestvovao je na naučnom projektu finansiranom od Ministarstva za nauku i tehnologiju Republike Srbije *“Atomska i molekulska fizika: Eksperimentalna fizika sudara atomskih čestica”* (projekat broj 01E02).

U periodu 1998 -1999 godine učestvovao je na naučnom projektu finansiranom od Ministarstva za nauku i tehnologiju Republike Srbije *“Fizika niskotemperaturne plazme”.*

U periodu 2002-2005 učestvovao je na naučnom projektu finansiranom od Ministarstva za nauku i zaštitu sredine republike Srbije *“Precizna laserska spektroskopija”* (broj projekta 1443).

Od 2007-2010 učestvuje u projektu *Kvantna i optička interferometija”* (broj projekta 141003) Ministarstva za nauku i tehnološki razvoj Republike Srbije. U okviru ovog projekta rukovodi zadatkom izrade izvora sporih atoma rubidijuma.

Od 2011 do danas učestvuje u projektima “Proizvodnja i karakterizacija nanofotoničkih funkcionalnih stuktura u biomedicine i informatici” (broj projekta III045016) i “Vidljiva i tamna materija u obližnjim galaksijam“ (broj projekta ON176021) finansiranim od strane Ministarstva prosvete i nauke .

## 5.4. Kvalitet naučnih rezultata

Radovi dr Dragana Lukić u različitim poljima savremene fizike dali su značajan doprinos kako domaćoj nauci tako i svetskoj nauci. Treba posebno istaći radove iz oblasti visestruke fotojonizacije kao i radove iz oblasti dvoelektronske rekombinacije koji su visestruko citirani preko 20 puta. Dr Lukić je zajedno sa kolegama objavio pet radova u međunarodnim časopisima izuzetnih vrednosti, a ukupno 25 radova u međunarodnim časopisima sa SCI liste.

**5.4.1.** **Uticajnost naučnih radova kandidata**

O značaju rezultata naučnoistraživačkog rada kandidata najbolje govori broj citata, do sad je evidentirano ukupno 274 nezavisnih citata (bez autocitata) prema dostupnim podacima ISI Web of Knowledge. Prosečan broj citata po radu je 11,69, a h-indeks je 12.

**5.4.2.** **Ugled i uticajnost publikacija u kojima su objavljeni radovi kandidata**

Časopisi u kojima je dr Dragan Lukić publikovao radove kao jedan od koautora spadaju u sam vrh časopisa iz oblasti fizike, optike i astrofizike. Časopis *Optics Express* je bio časopis broj 2 od ukupno 64 časopisa u grupi za optiku. Radovi su objavljeni i u časopisu ASTROPHYSICAL JOURNAL koji je imao IF7.364 i časopisu Physics Review Letters koji je imao IF7.218.ate.

**5.4.3.** **Stepen samostalnosti u naučnoistraživačkom radu i uloga u realizaciji radova u naučnim centrima u zemlji i inostranstvu**

Dr Dragan Lukić je bio prvi autor na 6 rad objavljenih u časopisu međunarodnog značaja od toga u dva međunarodna časopisa izuzetnih vrednosti.

**6. Elementi za kvantitativnu ocenu naučnog doprinosa**

**6. 1 Ostvareni rezultati u periodu nakon prethodnog izbora u zvanje**

|  |  |  |  |
| --- | --- | --- | --- |
| Kategorija | M bodova po radu | Broj radova | Ukupno M bodova |
| M21 | 8 | 0 | 0 |
| M22 | 5 | 2 | 10 |
| M23 | 3 | 0 | 0 |
| M24 | 2 | 0 | 0 |
| M31 | 3.5 | 0 | 0 |
| M32 | 1.5 | 0 | 0 |
| M33 | 1 | 1 | 1 |
| M34 | 0.5 | 5 | 2.5 |
| M51 | 2 | 0 | 0 |
| M52 | 1.5 | 0 | 0 |
| M53 | 1 | 1 | 1 |
| M63 | 1 | 4 | 4 |
| M64 | 0.2 | 11 | 2.2 |

**Ukupno je ostvario 20.7 bodova.**

**Tabela sa radovima kategorije M20 objavljenim nakon prethodnog izbora u zvanje**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| R.b.  članka  (Č) | Broj koautora (A) | M | M/A | IF | IF/A | SNIP | SNIP/A |
| 1 | 6 | 5 | 0.833 | 1.97 | 0.32833 | 1.023 | 0.1705 |
| 2 | 1 | 5 | 5 | 1.371 | 1.371 | 0.736 | 0.736 |
|  |  | ΣM=10 | ΣM/A=5.833 | ΣIF=3.341 | ΣIF/A=1.69933 | ΣSNIP=1.759 | ΣSNIP/A=0.9065 |
|  |  | ΣM/Č=5 | | ΣIF/Č=1.6705 | | ΣSNIP/Č=0.8795 | |

**Tabela sa ostalim radovima objavljenim nakon prethodnog izbora u zvanje**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| R.b. članka (Č) | Kategorija | Broj koautora (A) | M | M/A |
| 1. | M33 | 1 | 1 | 1 |
| 2. | M34 | 5 | 0.5 | 0.1 |
| 3. | M34 | 1 | 0.5 | 0.5 |
| 4. | M34 | 6 | 0.5 | 0.0833 |
| 5. | M34 | 1 | 0.5 | 0.5 |
| 6. | M34 | 1 | 0.5 | 0.5 |
| 7. | M53 | 7 | 1 | 0.1428 |
| 8. | M63 | 1 | 1 | 1 |
| 9. | M63 | 1 | 1 | 1 |
| 10. | M63 | 1 | 1 | 1 |
| 11. | M63 | 1 | 1 | 1 |
| 12. | M64 | 4 | 0.2 | 0.05 |
| 13. | M64 | 3 | 0.2 | 0.066 |
| 14. | M64 | 5 | 0.2 | 0.04 |
| 15. | M64 | 8 | 0.2 | 0.025 |
| 16. | M64 | 1 | 0.2 | 0.2 |
| 17. | M64 | 3 | 0.2 | 0.066 |
| 18. | M64 | 1 | 0.2 | 0.2 |
| 19. | M64 | 1 | 0.2 | 0.2 |
| 20. | M64 | 1 | 0.2 | 0.2 |
| 21. | M64 | 1 | 0.2 | 0.2 |
| 22. | M64 | 1 | 0.2 | 0.2 |
|  |  |  |  |  |
|  |  |  | ΣM=10.7 | ΣM/A=8.2731 |
|  |  |  | ΣM/Č=0.4863 | |

**6.2 Poređenje sa minimalnim kvantitativnim uslovima za izbor u zvanje naučni saradnik**

|  |  |  |  |
| --- | --- | --- | --- |
| Minimalan broj bodova | | | Ostvareno |
| Izbor naučni saradnik | Ukupno | 16 | 20.7 |
| M10+M20+M31+M32+M33+M41+M42 | 10 | 11 |
| M11+M12+M21+M22+M23 | 6 | 10 |

**6.3 Citiranost**

Dragan Lukić je do sad objavio ukupno 25 radova u međunarodnim časopisima sa SCI Liste od čega je 5 u kategoriji m21a, 11 u kategoriji M21, 6 u kategoriji M22 i tri u kategoriji M23. Ukupan impakt faktor objavljenih radova dr Dragana Lukića je 80.51. O značaju rezultata naučnoistraživačkog rada kandidata najbolje govori broj citata, do sad je evidentirano ukupno 274 nezavisnih citata (bez autocitata) prema dostupnim podacima ISI Web of Knowledge. Prosečan broj citata po radu je 11,69, a h-indeks je 12.

**7. Spisak objavljenih radova po kategorijama**

# 7.1 Radovi u međunarodnim časopisima izuzetnih vrednosti – kategorija M21a

# 7.1.1. Radovi objavljeni pre prethodnog izbora u zvanje:

# 1. D. Lukić, J.B. Bluett, and R. Wehlitz, “Unexpected Behavior of the Near-Threshold Double-

# Photoionization Cross Section of Beryllium”, PHYSICAL REVIEW LETTERS 93,

# 023003(2004) [IF(2004)=7.218]

2 . A. Krmpot, M. Mijailović, B. Panić, D. Lukić, A. Kovačević, D. Pantelić,

and B. Jelenković, “Sub-Doppler absorption narrowing in atomic

vapor at two intense laser fields”, Optics Express 13, 1448-1456 MAR 7

2005 [IF(2005)= 3.764]

3. P. N. Juranić, D. Lukić, K. Barger, and R. Wehlitz, “Experimental evidence for

modulations in the relative double-photoionization cross

section of C60 from threshold up to 280 eV”, PHYSICAL REVIEW

LETTERS 96, 023001 JAN 20 2006 [IF(2006)= 7.072]

4 . D. V. Lukić, M. Schnell, D. W. Savin, C. Brandau, E. W. Schmidt, S. Böhm, A. Müller, S.

Schippers, M. Lestinsky, F. Sprenger, A. Wolf, Z. Altun, and N.R. Badnell,

“Dielectronic Recombination of Fe XV forming Fe XIV: Laboratory

Measurements and Theoretical Calculations”, ASTROPHYSICAL

JOURNAL, 664(2007) 1244–1252; astro-h/0704.0905. [IF(2007)= 6.405]

5. M. Lestinsky, N. R. Badnell, D. Bernhardt, M. Grieser, J. Hoffmann, D. Lukić, A. Müller, D.

A. Orlov, R. Repnow, D. W. Savin, E. W. Schmidt, M. Schnell, S. Schippers, A. Wolf and

D. Yu, “ELECTRON-ION RECOMBINATION OF Fe X FORMING Fe IX AND OF Fe XI

FORMING Fe X: LABORATORY MEASUREMENTS AND THEORETICAL

CALCULATIONS“, ASTROPHYSICAL JOURNAL 698, 648-659(2009) [IF(2009)= 7.364]

7.2**Radovi u vrhunskom međunarodnom časopisu – kategorija M21**

**7.2.1 Radovi objavljeni pre prethodnog izbora u zvanje:**

1. D. Lukić, G. Josifov G. and M. Kurepa, “ TOTAL ELECTRON-IONIZATION CROSS

SECTIONS OF THE NO2 MOLECULE”, INTERNATIONAL JOURNAL OF MASS

SPECTROMETRY 205, 1-6 (2001) [IF(2001)=2.176]

2. R. Wehlitz, D. Lukić, C. Koncz, and I.A. Sellin, “SETUP FOR MEASUREMENT OF PARTIAL

ION YIELDS AT SRC”, REVIEW OF SCIENTIFIC INSTRUMENTS 73, 1671-1673 (2002)

[IF(2002)=1.437]

3. R. Wehlitz, D. Lukić, and J. B. Bluett, “RESONANCE PARAMETERS OF AUTOIONIZING Be

2pn STATES”, PHYSICAL REVIEW A 68, 052708 (2003) [IF(2003)= 2.589]

4. J. B. Bluett, D. Lukić , and R. Wehlitz, “Triple photoionization of Ne and Ar near

threshold”, PHYSICAL REVIEW A 69, 042717 (2004) [IF(2004)= 2.902]

5. R. Wehlitz, M. M. Martinez, J. B. Bluett, D. Lukić, and S. B. Whitfield, “Double-to-Single

Photoionization Ratio of Lithium at Medium Energies, PHYSICAL REVIEW

A 69, 062709 (2004) [IF(2004)= 2.902](8)

6. R. Wehlitz, D. Lukić, and J. B. Bluett, “Single and Double Photoionization of

Beryllium below 40 eV”, PHYSICAL REVIEW A 71, 012707-1 - 012707-5 (2005)

[IF(2005)= 2.997]

7. E. W. Schmidt, S. Schippers, A. Müller, M. Lestinsky, F. Sprenger, M. Grieser, R. Repnow, A.

Wolf, C. Brandau, D. Lukić, M. Schnell, and D. W. Savin,“Electron-Ion Recombination

Measurements Motivated by AGN X- Ray Absorption Features: Fe XIV

Forming Fe XIII”, ASTROPHYSICAL JOURNAL LETTERS 641, L157-L160 (2006)

[IF(2006)= 6.119]

8. P. N. Juranić, D. Lukić, K. Barger, and R. Wehlitz, “Multiple Photoionization and

Fragmentation of C60 in the 18-280 eV Range, PHYSICAL REVIEW A 73,

042701-1 – 042701-8 (2006) IF(2006)= 3.047M21]

9. E. W. Schmidt, D. Bernhardt, A. Müller, S. Schippers, S. Fritzsche, J. Hoffmann, A. S. Jaroshevich,

C. Krantz, M. Lestinsky, D. A. Orlov, A. Wolf, D. Lukić, and D. W. Savin, “Electron-ion

recombination of Si IV forming Si III: Storage-ring measurement and

multiconfiguration Dirac-Fock calculations, PHYSICAL REVIEW A 76,

032717 (2007); arXiv:0709.1363v1. [IF(2007)= 2.893]

10. R. Wehlitz, P. N. Juranić, and D. Lukić “Double Photoionization of Magnesium

from Threshold to 54 eV PhotoN Energy“, PHYSICAL REVIEW A 78, 033428-1 -

033428-5 (2008) [IF(2008)= 2.908]

11. E. W. Schmidt, S. Schippers, D. Bernhardt, A. Meuller, J. Hoffmann, M. Lestinsky, D. A.Orlov,

A. Wolf, D. V. Lukić, D. W. Savin, and N. R. Badnell, “Electron-ion recombination

for Fe VIII Forming Fe VII and Fe IX forming Fe VIII: Measurements and

theory“, Astron. Astrophys. 492 (2008) 265–275 [IF(2008)= 4.153]

## 7.3 Radovi u istaknutom međunarodnom časopisu – kategorija M22

**7.3.1.** **Radovi objavljeni nakon prethodnog izbora u zvanje**:

1. Ivan Radojičić, Milan Radonjić, Marina Lekić, Zoran Grujić, **Dragan Lukić** and Branislav Jelenković, ROBUSTNESS OF ELECTROMAGNETICALLY INDUCED TRANSPARENCY FOR COUNTER PROPAGATING PUMP AND PROBE IN VACUUM

RB CELL, JOSA B, Vol. 32, Issue 3, pp. 426-430 (2015) **ISSN**: 0740-3224 (print); **ISSN**:1520-8540 (online); [IF(2015)= 1.97];

2 **D.V. Lukić**, SEARCH FOR POSSIBLE EXOMOONS WITH FAST TELESCOPE, Research in

Astronomy and Astrophysics, **17**, p.121 [IF(2014)=1.371]

**7.3.2 Radovi objavljeni pre prethodnog izbora u zvanje:**

1. N. Simonović, **D. Lukić,** and P. Grujić, “Double ionization by positrons

near threshold”, JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND

OPTICAL PHYSICS 38 (17), 3147-3161 SEP 14 2005 [IF(2005)= 1.913]

2. J. B. Bluett, D. Lukić, S.B. Whitfield, and R. Wehlitz, “Double photoionization

near threshold”, NUCLEAR INSTRUMENTS & METHODS IN PHYSICS

RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND

ATOMS 241 (1-4), 114-117 DEC 2005 [IF(2005)= 1.181 M22]

3. R. Wehlitz, D. V. Lukić, and P. N. Juranić, “Observation of a new 3s2 

3pnd double excitation Rydberg series in ground-state

magnesium”, JOURNAL OF PHYSICS B- ATOMIC MOLECULAR AND

OPTICAL PHYSICS 40, 2385-2397 (2007) [IF(2007)= 2.012]

4. D. Lukić, S. B. Whitfield, and R. Wehlitz, “Lithium Inner-Shell Resonances

in the 70 - 77 eV Photon Energy Region“, JOURNAL OF PHYSICS

B-ATOMIC MOLECULAR AND OPTICAL PHYSICS 42, 085004-1- 085004-7 (2009)

[IF(2009)= 1.910]

## 7.4 Radovi u međunarodnom časopisu – kategorija M23

**7.4.1 Radovi objavljeni pre prethodnog izbora u zvanje:**

1. G Josifov, D. Lukić, N. Djurić and M. Kurepa, “TOTAL, DIRECT AND DISSOCIATIVE

ELECTRON IMPAC IONIZATION CROSS SECTION OF THE ACETYLENE

MOLECULE”, J. Serb. Chem. Soc. 65, 517-527 (2000), [IF(2000)=0.277]

2. D. Lukić, P. R. Focke, C. Koncz, V. A. Morozov, F. W. Meyer, and I. A. Sellin,

“AUTOIONIZATION OF DOUBLY AND TRIPLY EXCITED STATES OF Li+ AND

Li PRODUCED IN Li3+ ION COLLISION WITH C60, Ar AND Xe”, PHYSICA

SCRIPTA T92, 174 (2001) [IF(2002)=0.748]

3. R. Wehlitz , J. Colgan, M. M. Martinez, J.B. Bluett, D. Lukić, and S.B. Whitfield,

“Double photoionization processes IN lithium”, JOURNAL OF

ELECTRON SPECTROSCOPY AND RELATED PHENOMENA 144, 59-62 JUN

2005 [IF(2005)= 1.183]

**7.5. Saopštenja sa medjunarodnih konferencija štampana u celini. (M33)**

**7.5.1. Saopštenja posle prethodnog izbora u zvanje.**

1 **D. Lukić** Astro climate: Astronomical Station Vidojevica FUTURE SCIENCE WITH METRE-CLASS TELESCOPES, 18-21 September 2012 Belgrade, Serbia, 2013, PAOB 92, 181-184

**7.6. Saopštenja sa medjunarodnih konferencija štampana u izvodu. (M34)**

**7.6.1. Saopštenja posle prethodnog izbora u zvanje.**

1 I. S. Radojičić, Z. D. Grujić, M. M. Lekić, **D. V. Lukić** and B. M. Jelenković Narrowing of EIT resonance in the configuration of counter-propagation laser beams,PHOTONICA2011 International School and Conference on Photonics, 29 August – 02 September 2011 Belgrade, Serbia

2 **D. Lukić** Astro climate: Astronomical Station Vidojevica FUTURE SCIENCE WITH METRE-CLASS TELESCOPES, 18-21 September 2012 Belgrade, Serbia, Book of abstracts 34

3 I.S. Radojicić, M. M Radonjić, Z. D. Grujić, M. M. Lekić, **D. V. Lukić**, and B. M. Jelenković, Ramsey effect on linewidth of coherent resonances in vacuum Rb cell, IV International School and Conference on Photonics, p 125, 26th-30th August 2013 ISBN 978-86-82441-36-6

4 **Lukic, D.,** two new abIogenetIcal experIments,Book of abstracts of the 9th International Physics Conference of the Balkan Physical Union – BPU9, p 271 (2015) Istanbul, Turkey

5 **Dragan Lukić**, Temperature measurement with Ruby gauge, VI International School and Conference on Photonics, p 142, August 28th - September 1st 2017

**7.7. Saopštenja sa domaćih konferencija štampana u celini. (M63)**

**7.7.1. Saopštenja posle prethodnog izbora u zvanje.**

1 **D.V. Lukić,** SEARCH FOR POSSIBLE EXOMOONS WITH FAST TELESCOPE, PROCEEDINGS OF THE XVIII NATIONAL CONFERENCE OF ASTRONOMERS OF SERBIA , Publ. Astron. Obs. Belgrade, 97, accepted

2 **D.V. Lukić.** CAN WE AFFORD AN INTERSTELLAR FLIGHT?, PROCEEDINGS OF THE XVIII NATIONAL CONFERENCE OF ASTRONOMERS OF SERBIA , Publ. Astron. Obs. Belgrade, 97, accepted

3 **D.V. Lukić,** PROTOCOL FOR ACTIVE SETI IN SOL NEIGHBORHOOD, PROCEEDINGS OF THE XVIII NATIONAL CONFERENCE OF ASTRONOMERS OF SERBIA , Publ. Astron. Obs. Belgrade, 97 accepted

4 **D. Lukić,** POSSIBLE EXOMOONS AS TARGETS FOR SETI,PROCEEDINGS OF THE XVII NATIONAL CONFERENCE OF ASTRONOMERS OF SERBIA September 23 - 27, 2014, Belgrade, Serbia, Editors: Slobodan Ninković and Stevo Šegan, Publ. Astron. Obs. Belgrade No. 96 (2017), 371

**7.8. Saopštenja sa domaćih konferencija štampana u izvodu. (M64)**

**7.8.1. Saopštenja posle prethodnog izbora u zvanje.**

1 A.Krmpot, **D. V. Lukić**, M. Rabasović, B. Salatić Biofotonika: razvoj metoda i uređaja u Institutu za fiziku,Četvrta radionica Fotonike Kopaonik, 2. – 6. 3. 2011. Zbornik abstrakata s.17

2 **LUKIĆ D.**, RADONJIĆ M., SMOLIĆ I. AN ESTIMATION OF NUMBER OF EXOPLANETS WITH THE CHANCE OF DETECTION OF EXISTENCE OF LIFE IN THE MILKY WAY, XVI NATIONAL CONFERENCE OF ASTRONOMERS OF SERBIA, Belgrade, 10-12 October 2011 P. 55

3 I. S. Radojičić, Z. D. Grujić, M. M. Lekić, **D. V. Lukić** and B. M. Jelenković, *Sužavanje EIT rezonancije u konfiguraciji kontrapropagirajucih laserskih snopova,* Peta radionica Fotonike Kopaonik, 10. – 14. 3. 2012. Zbornik abstrakata, s. 46

4 Stanko Nikolic, Ivan Radojicic, Milan Radonjic Aleksandar Krmpot, Nemanja Lucic, Bojan Zlatkovic, **Dragan Lukic**, Branislav Jelenkovic, Remzijevi efekti i elektromagnetno indukovana transparencija Šesta radionica fotonike Fotonika 2013, Kopaonik 2013, p 5 ISBN 9788682441359

5 **Dragan Lukić,** Astrofotonika, Šesta radionica fotonike Fotonika 2013, Kopaonik 2013, p 28 ISBN 9788682441359

6 **Lukic, D.V.**, Ćuk, S. i Jelenković, B. RAZVOJ Rb MAGNETO-OPTIČKOG TRAPA U INSTITUTU ZA FIZIKU, Sedma radionica Fotonike Kopaonik Knjiga abstrakata s. 10 (2014)

7 **Lukic, D**., POSSIBLE EXOMOONS AS TARGETS FOR SETI, Book of abstracts of the XVII National Conference of Astronomers of Serbia, pp. 78 (2014)

8 **D.V. Lukić**, The Use of Anidolic Lighting System in Improving Daylight Illuminane of Rear Side of Offices, Deseta radionica Fotonike Kopaonik, Knjiga abstrakata p . 37 (2017)

9 **D.V. Lukić** SEARCH FOR POSSIBLE EXOMOONS WITH FAST TELESCOPE, Book of abstracts of the XVIII Serbian Astronomical Conference, pp. 84 (2017)

10 **D.V. Lukić** CAN WE AFFORD AN INTERSTELLAR FLIGHT?, Book of abstracts of the XVIII Serbian Astronomical Conference, pp. 85 (2017)

11 **D.V. Lukić** PROTOCOL FOR ACTIVE SETI IN SOL NEIGHBORHOOD, Book of abstracts of the XVIII Serbian Astronomical Conference, pp. 83 (2017)

## 7.9. Radovi u domaćem časopisu – kategorija M53

1 Vladimir Udovičić, Nikola Veselinović, Dušan Joksimović, Radomir Banjanac, Aleksandar Dragić, Dejan Joković, **Dragan Lukić,**PRESENT STATUS OF THE PLASMA FOCUS EXPERIMENT IN SERBIA, Journal of Modern Physics Vol **5,** No 2**,** 82-88,(2014)

**7.10. Magistratura i doktorat.**

M 71

“Eksperimentalno proučavanje autojonizacije i višestruke fotojonizacije atoma Li, He, Ar, Be i molekula N2O,” doktorska teza, Fizički fakuktet Univerzitet u Beogradu, 2004

M 72

“Efektivni preseci za jonizaciju molekula NO2 i COS elektronima energije od praga do 1000 eV,” magistarski rad, Fizički fakuktet Univerzitet u Beogradu, 1997

Citiranost radova prema Web of Science:

Rad Double photoionization of magnesium from threshold to 54 eV photon energy citiran je 18 puta.

By: Wehlitz, R.; Juranic, P. N.; Lukic, D. V.

PHYSICAL REVIEW A Volume: 78 Issue: 3 Article Number: 033428 Published: SEP 2008

1 Direct and sequential ejection of the two valence electrons of beryllium by ultrashort laser pulses with photon energies below 18.2 eV

By: Laulan, Staphane; Albert, Marc-Andre; Barmaki, Samira

CANADIAN JOURNAL OF PHYSICS Volume: 95 Issue: 10 Pages: 900-904 Published: OCT 2017

2 Fully differential single-photon double photoionization of atomic magnesium

By: Yip, F. L.; Rescigno, T. N.; McCurdy, C. W.

PHYSICAL REVIEW A Volume: 94 Issue: 6 Article Number: 063414 Published: DEC 14 2016

3 Double photoionization of helium from the 1s2p P-3 excited state

By: Li, Y.; Pindzola, M. S.; Colgan, J.

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 49 Issue: 19 Article Number: 195205 Published: OCT 14 2016

4 Photoproduction of N-22+) from threshold to 400 eV

By: Hartman, T.; Wehlitz, R.

PHYSICAL REVIEW A Volume: 92 Issue: 1 Article Number: 013421 Published: JUL 23 2015

5 R-matrix with pseudostates study of single photon double ionization of endohedral Be and Mg atoms

By: Lee, T. G.; Ballance, C. P.; Abdel-Naby, S. A.; et al.

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 48 Issue: 6 Article Number: 065201 Published: MAR 28 2015

6 Differential cross section for the double photoionization of Mg

By: Abdel-Naby, Shahin A.; Pindzola, M. S.; Colgan, J.

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 48 Issue: 2 Article Number: 025204 Published: JAN 28 2015

7 Double photoionization of C2+

By: Abdel-Naby, Shahin A.; Pindzola, Michael S.; Colgan, James

EUROPEAN PHYSICAL JOURNAL D Volume: 68 Issue: 10 Article Number: 287 Published: OCT 7 2014

8 Enhanced One-Photon Double Ionization of Atoms and Molecules in an Environment of Different Species

By: Stumpf, V.; Kryzhevoi, N. V.; Gokhberg, K.; et al.

PHYSICAL REVIEW LETTERS Volume: 112 Issue: 19 Article Number: 193001 Published: MAY 14 2014

9 Photo-double-ionization of Mg studied by electron-electron-coincidence experiments

By: Sokell, E.; Bolognesi, P.; Kheifets, A.; et al.

PHYSICAL REVIEW A Volume: 89 Issue: 1 Article Number: 013413 Published: JAN 21 2014

10 Photo-double-ionization of the He and Be isoelectronic sequences within an intermediate-energy R-matrix framework

By: McIntyre, M. W.; Kinnen, A. J.; Scott, M. P.

PHYSICAL REVIEW A Volume: 88 Issue: 5 Article Number: 053413 Published: NOV 15 2013

11 Single and double photoionization of Be and Mg

By: Pindzola, M. S.; Ballance, C. P.; Abdel-Naby, Sh A.; et al.

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 46 Issue: 3 Article Number: 035201 Published: FEB 14 2013

12 Electron- and photon-impact atomic ionisation

By: Bray, I.; Fursa, D. V.; Kadyrov, A. S.; et al.

PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS Volume: 520 Issue: 3 Pages: 135-174 Published: NOV 2012View Abstract

13 Simultaneous Emission of Multiple Electrons from Atoms and Molecules Using Synchrotron Radiation

By: Wehlitz, Ralf

Edited by: Arimondo, E; Berman, PR; Lin, CC

ADVANCES IN ATOMIC, MOLECULAR, AND OPTICAL PHYSICS, VOL 58 Book Series: Advances In Atomic Molecular and Optical Physics Volume: 58 Pages: 1-76 Published: 2010

14 Double Photoionization of Strontium

By: Sokell, Emma; Grimm, Michael; Sheridan, Paul

Edited by: Martin, NLS; deHarak, BA

Conference: International Symposium on e,2e), Double Photoionization and Related Topics / 15th International Symposium on Polarization and Correlation in Electronic and Atomic Collisions Location: Lexington, KY Date: JUL 30-AUG 01, 2009

INTERNATIONAL SYMPOSIUM ON E,2E), DOUBLE PHOTOIONIZATION AND RELATED TOPICS AND 15TH INTERNATIONAL SYMPOSIUM ON POLARIZATION AND CORRELATION IN ELECTRONIC AND ATOMIC COLLISIONS Book Series: Journal of Physics Conference Series Volume: 212 Article Number: 012024 Published: 2010

15 Total cross sections for the double photoionization of Li from the ground and excited states

By: Colgan, J.; Griffin, D. C.; Ballance, C. P.; et al.

PHYSICAL REVIEW A Volume: 80 Issue: 6 Article Number: 063414 Published: DEC 2009

16 K-shell double photoionization of Be, Mg, and Ca

By: Kheifets, A. S.; Bray, Igor; Hoszowska, J.

PHYSICAL REVIEW A Volume: 79 Issue: 4 Article Number: 042504 Published: APR 2009

17 Double photoionization of Be and Mg atoms using the R-matrix-with-pseudostates method

By: Griffin, D. C.; Pindzola, M. S.; Ballance, C. P.; et al.

PHYSICAL REVIEW A Volume: 79 Issue: 2 Article Number: 023413 Published: FEB 2009

18 Relative single- and double-photoionization cross sections of Mg around the 2p -> nl resonances

By: Wehlitz, R.; Juranic, P. N.

PHYSICAL REVIEW A Volume: 79 Issue: 1 Article Number: 013410 Published: JAN 2009

View Abstract

Rad Electron-ion recombination of SiIV forming SiIII: Storage-ring measurement and multiconfiguration dirac-fock calculations citiran je 22 puta.

By: Schmidt, E. W.; Bernhardt, D.; Mueller, A.; et al.

PHYSICAL REVIEW A Volume: 76 Issue: 3 Article Number: 032717 Published: SEP 2007

1 Dielectronic recombination of highly charged ions with spin-polarized electrons

By: Wu, Z. W.; Volotka, A. V.; Dong, C. Z.; et al.

Conference: 18th International Conference on the Physics of Highly Charged Ions HCI) Location: Jan Kochanowski Univ, Kielce, POLAND Date: SEP 11-16, 2016   
Sponsors): Int Union Pure & Appl Phys; Dreebit; SPECS

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2 Recombination of open-f-shell tungsten ions

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By: Bernhardt, D.; Becker, A.; Brandau, C.; et al.

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By: Baumann, Thomas M.; Harman, Zoltan; Stark, Julian; et al.

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6 Dielectronic recombination experiment of P-like Tin on HIRFL-CSRm at Lanzhou

By: Xu, W. Q.; Ma, X.; Wen, W. Q.; et al.

Book Group Authors): IOP

Conference: 28th International Conference on Photonic, Electronic and Atomic Collisions ICPEAC) Location: Chinese Acad Sci, Inst Modern Phys, Lanzhou, PEOPLES R CHINA Date: JUL 24-30, 2013   
Sponsors): Natl Nat Sci Fdn China; Chinese Acad Sci; Int Union Pure & Appl Phys; Inst Modern Phys; Youth Innovat Promot Assoc, Inst Modern Phys

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By: Xiao, Jun; Han, Chuan; Yao, Ke; et al.

Edited by: McDaniel, FD; Doyle, BL; Glass, GA; et al.

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Sponsors): Sandia Natl Labs; Univ N Texas; Los Alamos Natl Lab; Pacific NW Natl Lab; High Voltage Engn Europa B V; Kurt J Lester Co; Natl Electrostat Corp

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9 The RATIP program for relativistic calculations of atomic transition, ionization and recombination properties

By: Fritzsche, S.

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By: Schippers, S.; Bernhardt, D.; Mueller, A.; et al.

PHYSICAL REVIEW A Volume: 85 Issue: 1 Article Number: 012513 Published: JAN 17 2012

11 Theoretical study on electron impact excitation and recombination of highly charged ions

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Edited by: Williams, ID; VanDerHart, HW; McCann, JF; et al.

Conference: 27th International Conference on Photonic, Electronic and Atomic Collisions ICPEAC) Location: Queens Univ Belfast, Belfast, NORTH IRELAND Date: JUL 27-AUG 02, 2011   
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Conference: 27th International Conference on Photonic, Electronic and Atomic Collisions ICPEAC) Location: Queens Univ Belfast, Belfast, NORTH IRELAND Date: JUL 27-AUG 02, 2011   
Sponsors): Andor Technol; Belfast City Council; Belfast Visitor & Convent Bur; Coherent; CVI Melles Griot; Dell; Int Union Pure & Appl Phys IUPAP); Invest No Ireland; Laserlines; UK Cold Atoms/Condensed Matter Network EPSRC); Phys Review Letters & Phys Review A; Quantemol; Springer; Great Britain Sasakawa Fdn; IoP Publishing - Journal Phys B: Atom, Mol & Opt Phys; IoP Publishing - Journal Phys: Conf Series

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By: Schippers, S.; Bernhardt, D.; Mueller, A.; et al.

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By: Schippers, Stefan

Edited by: Azuma, T; Nakamura, N; Yamada, C

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Sponsors): Japan Soc Promot Sci; Int Union Pure & Appl Phys; Matsuo Fdn; Iwatani Naoji Fdn; CASIO Sci Promot Fdn; Soc Atom Collis Res

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By: Schmidt, E. W.; Bernhardt, D.; Hoffmann, J.; et al.

Edited by: Azuma, T; Nakamura, N; Yamada, C

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By: Lindroth, Eva; Argenti, Luca; Bengtsson, Jakob; et al.

Edited by: Orel, AE; Starace, AF; Nikolic, D; et al.

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By: Khatri, Indu; Goyal, Arun; Ba, Mamadou Dioulde; et al.

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By: Babb, James F.

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By: Kim, Dae-Soung; Kwon, Duck-Hee

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By: Lu, Cheng-Liang; Hsiao, Ju-Tang; Shiao, Hao-Tse; et al.

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By: Kim, Dae-Soung; Kwon, Duck-Hee

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By: Kim, Dae-Soung; Kwon, Duck-Hee

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By: Diop, B.; Faye, M.; Sow, M.; et al.

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By: Dimitriou, A.; Cohen, S.; Lyras, A.; et al.

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By: Li, Bo-Wen; Dong, Chen-Zhong

Edited by: Williams, ID; VanDerHart, HW; McCann, JF; et al.

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By: Karim, K. R.

JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER Volume: 112 Issue: 6 Pages: 1026-1034 Published: APR 2011

12 Relativistic photoionization cross sections for atomic Mg

By: Wang, Guoli; Wan, Jianjie; Zhou, Xiaoxin

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 43 Issue: 3 Article Number: 035001 Published: FEB 14 2010

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By: Kim, Dae-Soung; Koike, Fumihiro

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15 The ionization of Mg by electron impact at 1000 eV studied by e, 2e) experiments

By: Bolognesi, P.; Bohachov, H.; Borovik, V.; et al.

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By: Predojevic, B.; Pejcev, V.; Filipovic, D. M.; et al.

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By: Schmidt, E. W.; Schippers, S.; Brandau, C.; et al.

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By: Savin, Daniel Wolf

Edited by: Becker, U; Moshammer, R; Mokler, P; et al.

Conference: 25th International Conference on Photonic, Electronic and Atomic Collisions Location: Freiburg, GERMANY Date: JUL 25-31, 2007   
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By: Juranic, PN; Lukic, D; Barger, K; et al.

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By: Itoh, Noriaki; Itoh, Chihiro; Kanasaki, Jun'ichi

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By: Schueler, Michael; Pavlyukh, Yaroslav; Bolognesi, Paolo; et al.

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By: Baral, K. K.; Aryal, N. B.; Esteves-Macaluso, D. A.; et al.

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4 Single-Photon Multiple Detachment in Fullerene Negative Ions: Absolute Ionization Cross Sections and the Role of the Extra Electron

By: Bilodeau, R. C.; Gibson, N. D.; Walter, C. W.; et al.

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By: Katayanagi, Hideki; Mitsuke, Koichiro

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6 Reaction of C-60 with Hydrogen Gas: In Situ Monitoring and Pathways

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By: Wehlitz, Ralf

Edited by: Arimondo, E; Berman, PR; Lin, CC

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By: Prodhan, Md. Serajul Islam; Katayanagi, Hideki; Huang, Chaoqun; et al.

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10 Ultrafast energy redistribution in C-60 fullerenes: A real time study by two-color femtosecond spectroscopy

By: Shchatsinin, Ihar; Laarmann, Tim; Zhavoronkov, Nick; et al.

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By: Chen, L.; Martin, S.; Bernard, J.; et al.

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1 Double photoionization of hydrocarbons and aromatic molecules

By: Wehlitz, R.

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2 On the shake-off probability for atomic systems

By: Santos, A. C. F.; Almeida, D. P.

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By: Stumpf, V.; Kryzhevoi, N. V.; Gokhberg, K.; et al.

PHYSICAL REVIEW LETTERS Volume: 112 Issue: 19 Article Number: 193001 Published: MAY 14 2014

5 Photo-double-ionization of He-like and Be-like systems in excited states within an intermediate-energy R-matrix framework

By: McIntyre, M. W.; Scott, M. P.

PHYSICAL REVIEW A Volume: 89 Issue: 4 Article Number: 043418 Published: APR 17 2014

6 Double photoionization of pyrene and other aromatic hydrocarbons

By: Wehlitz, R.; Hartman, T.

Book Group Authors): IOP

Conference: 28th International Conference on Photonic, Electronic and Atomic Collisions ICPEAC) Location: Chinese Acad Sci, Inst Modern Phys, Lanzhou, PEOPLES R CHINA Date: JUL 24-30, 2013   
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Edited by: Arp, U; Reversz, P; Williams, GP

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By: Hartman, T.; Juranic, P. N.; Collins, K.; et al.

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10 Large Molecules Reveal a Linear Length Scaling for Double Photoionization

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11 Simultaneous Emission of Multiple Electrons from Atoms and Molecules Using Synchrotron Radiation

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Edited by: Arimondo, E; Berman, PR; Lin, CC

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By: Wehlitz, R; Lukic, D; Bluett, JB

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By: Majety, Vinay Pramod; Zielinski, Alejandro; Scrinzi, Armin

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By: McIntyre, M. W.; Scott, M. P.

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By: Sokell, E.; Bolognesi, P.; Kheifets, A.; et al.

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By: Yip, F. L.; Palacios, A.; Rescigno, T. N.; et al.

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By: Wehlitz, Ralf

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By: Olalde-Velasco, P.; Mendez-Martinez, E.; Jimenez-Mier, J.; et al.

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