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 2012

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



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

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS Volume: 408 Pages: 130-134 Published: OCT 1 2017

2 Recombination of open-f-shell tungsten ions

By: Krantz, C.; Badnell, N. R.; Mueller, A.; et al.

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 50 Issue: 5 Article Number: 052001 Published: MAR 14 2017

3 Absolute rate coefficients for photorecombination of beryllium-like and boron-like silicon ions

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

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 49 Issue: 7 Article Number: 074004 Published: APR 14 2016

4 Contributions of dielectronic, trielectronic, and metastable channels to the resonant intershell recombination of highly charged silicon ions

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

PHYSICAL REVIEW A Volume: 90 Issue: 5 Article Number: 052704 Published: NOV 7 2014

5 Astrophysical Line Diagnosis Requires Nonlinear Dynamical Atomic Modeling

By: Oreshkina, Natalia S.; Cavaletto, Stefano M.; Keitel, Christoph H.; et al.

PHYSICAL REVIEW LETTERS Volume: 113 Issue: 14 Article Number: 143001 Published: SEP 29 2014

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

XXVIII INTERNATIONAL CONFERENCE ON PHOTONIC, ELECTRONIC AND ATOMIC COLLISIONS ICPEAC) Book Series: Journal of Physics Conference Series Volume: 488 Article Number: UNSP 012055 Published: 2014

7 Dielectronic Recombination Studies Based On EBIT

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

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

Conference: 22nd International Conference on the Application of Accelerators in Research and Industry CAARI) Location: Fort Worth, TX Date: AUG 05-10, 2012
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

APPLICATION OF ACCELERATORS IN RESEARCH AND INDUSTRY Book Series: AIP Conference Proceedings Volume: 1525 Pages: 73-77 Published: 2013

8 ELECTRON-ION RECOMBINATION OF Mg6+ FORMING Mg5+ AND OF Mg7+ FORMING Mg6+: LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS

By: Lestinsky, M.; Badnell, N. R.; Bernhardt, D.; et al.

ASTROPHYSICAL JOURNAL Volume: 758 Issue: 1 Article Number: 40 Published: OCT 10 2012

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

By: Fritzsche, S.

COMPUTER PHYSICS COMMUNICATIONS Volume: 183 Issue: 7 Pages: 1525-1559 Published: JUL 2012

10 Storage-ring measurement of the hyperfine-induced 2s2p P-30) -> 2s2) S-10) transition rate in berylliumlike sulfur

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

By: Dong, C. Z.; Jiang, J.; Zhang, D. H.; et al.

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
XXVII INTERNATIONAL CONFERENCE ON PHOTONIC, ELECTRONIC AND ATOMIC COLLISIONS ICPEAC 2011), PTS 1-15 Book Series: Journal of Physics Conference Series Volume: 388 Article Number: 012004 Published: 2012

12 Astrochemistry in an Ion Storage Ring

By: Novotny, O.; Berg, M. H.; Buhr, H.; et al.

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
XXVII INTERNATIONAL CONFERENCE ON PHOTONIC, ELECTRONIC AND ATOMIC COLLISIONS ICPEAC 2011), PTS 1-15 Book Series: Journal of Physics Conference Series Volume: 388 Article Number: UNSP 012012 Published: 2012

13 Storage-ring ionization and recombination experiments with multiply charged ions relevant to astrophysical and fusion plasmas

By: Schippers, Stefan

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
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

XXVII INTERNATIONAL CONFERENCE ON PHOTONIC, ELECTRONIC AND ATOMIC COLLISIONS ICPEAC 2011), PTS 1-15 Book Series: Journal of Physics Conference Series Volume: 388 Article Number: 012010 Published: 2012

14 Dielectronic recombination of xenonlike tungsten ions

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

PHYSICAL REVIEW A Volume: 83 Issue: 1 Article Number: 012711 Published: JAN 31 2011

15 Leaky ion extraction method for dielectronic recombination strength measurements at electron-beam ion traps

By: Zhang, W.; Yao, K.; Yang, Y.; et al.

PHYSICAL REVIEW A Volume: 82 Issue: 2 Article Number: 020702 Published: AUG 19 2010

16 KLL dielectronic recombination resonant strengths of He-like up to O-like xenon ions

By: Yao, K.; Geng, Z.; Xiao, J.; et al.

PHYSICAL REVIEW A Volume: 81 Issue: 2 Article Number: 022714 Published: FEB 2010

17 Experimental dielectronic recombination rate coefficients for Na-like S VI and Na-like Ar VIII

By: Orban, I.; Altun, Z.; Kallberg, A.; et al.

ASTRONOMY & ASTROPHYSICS Volume: 498 Issue: 3 Pages: 909-914 Published: MAY 2009

18 Astrophysical Relevance of Storage-Ring Electron-Ion Recombination Experiments

By: Schippers, Stefan

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

Conference: 14th International Conference on Physics of Highly Charged Ions Location: Univ Electro Commun, Chofu, JAPAN Date: SEP 01-05, 2008
Sponsors): Japan Soc Promot Sci; Int Union Pure & Appl Phys; Matsuo Fdn; Iwatani Naoji Fdn; CASIO Sci Promot Fdn; Soc Atom Collis Res

14TH INTERNATIONAL CONFERENCE ON THE PHYSICS OF HIGHLY CHARGED IONS HCI 2008) Book Series: Journal of Physics Conference Series Volume: 163 Article Number: 012001 Published: 2009

19 Experimental rate coefficient for dielectronic recombination of neonlike iron forming sodiumlike iron

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

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

Conference: 14th International Conference on Physics of Highly Charged Ions Location: Univ Electro Commun, Chofu, JAPAN Date: SEP 01-05, 2008
14TH INTERNATIONAL CONFERENCE ON THE PHYSICS OF HIGHLY CHARGED IONS HCI 2008) Book Series: Journal of Physics Conference Series Volume: 163 Article Number: 012028 Published: 2009

20 The Structure Behind it All

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

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

Conference: 26th International Conference on Photonic, Electronic and Atomic Collisions Location: Western Michigan Univ, Kalamazoo, MI Date: JUL 22-28, 2009
XXVI INTERNATIONAL CONFERENCE ON PHOTONIC, ELECTRONIC AND ATOMIC COLLISIONS Book Series: Journal of Physics Conference Series Volume: 194 Article Number: 012001 Published: 2009

21 Electron-ion recombination for Fe VIII forming Fe VII and Fe IX forming Fe VIII: measurements and theory

By: Schmidt, E. W.; Schippers, S.; Bernhardt, D.; et al.

ASTRONOMY & ASTROPHYSICS Volume: 492 Issue: 1 Pages: 265-275 Published: DEC 2008

22 Angular distribution of the dielectronic satellite lines from relativistic high-Z ions: Multipole-mixing effects

By: Fritzsche, Stephan; Kabachnik, Nikolay M.; Surzhykov, Andrey

PHYSICAL REVIEW A Volume: 78 Issue: 3 Article Number: 032703 Published: SEP 2008

Rad Observation of a new 3s2)-> 3pnd double-excitation Rydberg series in ground-state magnesium citiran je 16 puta.

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

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 40 Issue: 12 Pages: 2385-2397 Published: JUN 28 2007

1 The nearby interstellar medium toward alpha Leo UV observations and modeling of a warm cloud within hot gas

By: Gry, Cecile; Jenkins, Edward B.

ASTRONOMY & ASTROPHYSICS Volume: 598 Article Number: A31 Published: FEB 2017

2 Screening constant by unit nuclear charge calculations of resonance energies and widths of the 3pns P-1,P-3 degrees and 3pnd P-1 degrees Rydberg series of Mg-like Z=13-26) ions

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

RADIATION PHYSICS AND CHEMISTRY Volume: 130 Pages: 208-215 Published: JAN 2017

3 Empirically constructed dynamic electric dipole polarizability function of magnesium and its applications

By: Babb, James F.

PHYSICAL REVIEW A Volume: 92 Issue: 2 Article Number: 022712 Published: AUG 27 2015

4 Theoretical photoionization spectra for Mg-isoelectronic Cl5+ and Ar6+ ions

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

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 48 Issue: 10 Article Number: 105004 Published: MAY 28 2015

5 Angular and polarization correlations in double-excitation resonances of Mg

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

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 48 Issue: 5 Article Number: 055001 Published: MAR 14 2015

6 Theoretical photoionization spectra for the Mg-like S4+ Ion in the energy range between the S5+ 4s and 4f thresholds

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

JOURNAL OF THE KOREAN PHYSICAL SOCIETY Volume: 64 Issue: 5 Pages: 659-666 Published: MAR 2014

7 Theoretical photoionization spectra for the Mg-like S4+ ion: Partial and total cross sections for the ground 3s2) S-1 and excited 3s3p P-3 and 3s3p P-1 states

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

PHYSICAL REVIEW A Volume: 88 Issue: 3 Article Number: 033426 Published: SEP 30 2013

8 Screening constant by unit nuclear charge calculations of energy positions and widths of the 3pns P-1,P-3, 3pnd P-1,P-3 and 3pnd D-3 Rydberg series of Mg

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

RADIATION PHYSICS AND CHEMISTRY Volume: 86 Pages: 1-5 Published: MAY 2013

9 Strong laser-induced coupling between autoionizing states: the case of the four-photon-excited 3p2) S-10) state of magnesium

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

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 45 Issue: 20 Article Number: 205003 Published: OCT 28 2012

10 Relativistic theoretical study on atomic structure and photoionization of A@C-60

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

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
XXVII INTERNATIONAL CONFERENCE ON PHOTONIC, ELECTRONIC AND ATOMIC COLLISIONS ICPEAC 2011), PTS 1-15 Book Series: Journal of Physics Conference Series Volume: 388 Article Number: 022063 Published: 2012

11 Calculation of X-ray and Auger transition rates, lifetimes, X-ray wavelengths, and fluorescence yields of variously ionized silicon atoms

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

13 Z dependence of radiative and Auger transitions rates from doubly excited 3l3l ' states of helium-like ions

By: Karim, K. R.

JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER Volume: 111 Issue: 3 Pages: 384-393 Published: FEB 2010

14 Irregularity of Autoionizing Rydberg Series in Photoionization Leading to the Si3+ 3l States from the Mg-Like Si2+ Ions

By: Kim, Dae-Soung; Koike, Fumihiro

JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN Volume: 77 Issue: 12 Article Number: 124302 Published: DEC 2008

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.

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 41 Issue: 1 Article Number: 015201 Published: JAN 14 2008

16 Electron scattering by magnesium: excitation of the 3s4s 1)S0), 3s3d 1)D2) and 3s4p 1)P1) states

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

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 41 Issue: 1 Article Number: 015202 Published: JAN 14 2008

Rad Electron-ion recombination measurements of Fe7+, Fe8+, Fe13+ motivated by active galactic nuclei x-ray absorption features citiran je 2 puta.

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

Edited by: McCullough, RW; Currell, FJ; Greenwood, J; et al.

Conference: 13th International Conference on Physics of Highly Charged Ions Location: Queens Univ, Belfast, IRELAND Date: AUG 28-SEP 01, 2006
HCI 2006: 13TH INTERNATIONAL CONFERENCE ON THE PHYSICS OF HIGHLY CHARGED IONS Book Series: Journal of Physics Conference Series Volume: 58 Pages: 223-+ Published: 2007

1 Astrophysical Relevance of Storage-Ring Electron-Ion Recombination Experiments

By: Schippers, Stefan

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

Conference: 14th International Conference on Physics of Highly Charged Ions Location: Univ Electro Commun, Chofu, JAPAN Date: SEP 01-05, 2008
14TH INTERNATIONAL CONFERENCE ON THE PHYSICS OF HIGHLY CHARGED IONS HCI 2008) Book Series: Journal of Physics Conference Series Volume: 163 Article Number: 012001 Published: 2009

2 Can heavy ion storage rings contribute to our understanding of the charge state distributions in cosmic atomic plasmas?

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
XXV INTERNATIONAL CONFERENCE ON PHOTONIC, ELECTRONIC AND ATOMIC COLLISIONS Book Series: Journal of Physics Conference Series Volume: 88 Article Number: 012071 Published: 2007

Rad Multiple photoionization and fragmentation of C-60 in the 18-280-eV range citiran je 13 puta

By: Juranic, PN; Lukic, D; Barger, K; et al.

PHYSICAL REVIEW A Volume: 73 Issue: 4 Article Number: 042701 Published: APR 2006

1 Comparison of Electronic-Excitation-Induced Structural Modification of Carbon-Based Nanomaterials with that of Semiconductor Surfaces

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

NANO Volume: 11 Issue: 6 Article Number: 1630001 Published: JUN 2016

2 Electron pair escape from fullerene cage via collective modes

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

SCIENTIFIC REPORTS Volume: 6 Article Number: 24396 Published: APR 18 2016

3 Photoionization and photofragmentation of the C-60+) molecular ion

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

PHYSICAL REVIEW A Volume: 93 Issue: 3 Article Number: 033401 Published: MAR 1 2016

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.

PHYSICAL REVIEW LETTERS Volume: 111 Issue: 4 Article Number: 043003 Published: JUL 26 2013

5 Mass-analyzed velocity map imaging of doubly charged photofragments from C-70

By: Katayanagi, Hideki; Mitsuke, Koichiro

JOURNAL OF CHEMICAL PHYSICS Volume: 135 Issue: 14 Article Number: 144307 Published: OCT 14 2011

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

By: Luzan, Serhiy M.; Tsybin, Yury O.; Talyzin, Alexandr V.

JOURNAL OF PHYSICAL CHEMISTRY C Volume: 115 Issue: 23 Pages: 11484-11492 Published: JUN 16 2011

7 Multiple-ionization and dissociation dynamics of a rare gas dimer induced by highly charged ion impact

By: Matsumoto, J.; Leredde, A.; Flechard, X.; et al.

Conference: 15th International Conference on the Physics of Highly Charged Ions, HCI2010 Location: Fudan Univ, Shanghai, PEOPLES R CHINA Date: AUG 29-SEP 03, 2010

PHYSICA SCRIPTA Volume: T144 Article Number: 014016 Published: JUN 2011

8 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

9 Velocity map imaging apparatus applicable to a study of multiple photofragmentation of C-60

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

CHEMICAL PHYSICS LETTERS Volume: 469 Issue: 1-3 Pages: 19-25 Published: FEB 3 2009

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.

JOURNAL OF CHEMICAL PHYSICS Volume: 129 Issue: 20 Article Number: 204308 Published: NOV 28 2008

11 Fragmentation patterns of multicharged C60)r+) r=3-5) studied with well-controlled internal excitation energy

By: Martin, S.; Chen, L.; Salmoun, A.; et al.

PHYSICAL REVIEW A Volume: 77 Issue: 4 Article Number: 043201 Published: APR 2008

12 Absolute total photoionization cross section of C-60 in the range of 25-120 eV: Revisited

By: Kafle, Bhim P.; Katayanagi, Hideki; Prodhan, Md. Serajul I.; et al.

JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN Volume: 77 Issue: 1 Article Number: 014302 Published: JAN 2008

13 Direct measurement of internal energy of fragmented C-60

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

PHYSICAL REVIEW LETTERS Volume: 98 Issue: 19 Article Number: 193401 Published: MAY 11 2007 

Rad Double photoionization near threshold citiran je 13 puta

By: Bluett, JB; Lukic, D; Whitfield, SB; et al.

Conference: 18th International Conference on Application of Accelerators in Research and Industry CAARI) Location: Ft Worth, TX Date: OCT 10-15, 2004
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS Volume: 241 Issue: 1-4 Pages: 114-117 Published: DEC 2005

1 Double photoionization of hydrocarbons and aromatic molecules

By: Wehlitz, R.

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 49 Issue: 22 Article Number: 222004 Published: NOV 28 2016

2 On the shake-off probability for atomic systems

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

JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA Volume: 210 Pages: 1-4 Published: JUL 2016

3 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

4 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

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
XXVIII INTERNATIONAL CONFERENCE ON PHOTONIC, ELECTRONIC AND ATOMIC COLLISIONS ICPEAC) Book Series: Journal of Physics Conference Series Volume: 488 Article Number: 012013 Published: 2014

7 Double photoionization of thiophene

By: Wehlitz, R.; Hartman, T.

Edited by: Arp, U; Reversz, P; Williams, GP

Conference: 17th Pan-American Synchrotron Radiation Instrumentation Conference SRI) Location: Natl Inst Stand & Technol, Synchrotron Ultraviolet Radiat Facil, Gaithersburg, MD Date: JUN 19-21, 2013
17TH PAN-AMERICAN SYNCHROTRON RADIATION INSTRUMENTATION CONFERENCE SRI2013 Book Series: Journal of Physics Conference Series Volume: 493 Article Number: 012002 Published: 2014

8 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

9 Photo-double-ionization mechanisms in aromatic hydrocarbons

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

PHYSICAL REVIEW A Volume: 87 Issue: 6 Article Number: 063403 Published: JUN 5 2013

10 Large Molecules Reveal a Linear Length Scaling for Double Photoionization

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

PHYSICAL REVIEW LETTERS Volume: 108 Issue: 2 Article Number: 023001 Published: JAN 10 2012

11 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

12 Double photoionization of magnesium from threshold to 54 eV photon energy

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

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

13 Single- and double-photoionization data of Na and K corroborate the existence of a universal scaling law for the ratio

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

PHYSICAL REVIEW A Volume: 74 Issue: 4 Article Number: 042707 Published: OCT 2006

Rad Double ionization by positrons near threshold citiran je 2 puta.

By: Simonovic, N; Lukic, D; Grujic, P

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 38 Issue: 17 Pages: 3147-3161 Published: SEP 14 2005

1 Single and double over-barrier ionization of He, He+ and Ne system by positron impact

By: Yang, Aixiang; Zhang, Ning; Zhu, Binghui; et al.

EUROPEAN PHYSICAL JOURNAL D Volume: 71 Issue: 6 Article Number: 170 Published: JUN 22 2017

2 Strong suppression of positron-induced double ionization of helium at low-to-intermediate velocities

By: Yang, A. X.; Zou, X. R.; Lin, C. N.; et al.

PHYSICAL REVIEW A Volume: 91 Issue: 2 Article Number: 022701 Published: FEB 2 2015



Rad Single and double photoionization of beryllium below 40 eV citiran je 34 puta.

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

PHYSICAL REVIEW A Volume: 71 Issue: 1 Article Number: 012707 Published: JAN 2005

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 Double photoionization of hydrocarbons and aromatic molecules

By: Wehlitz, R.

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 49 Issue: 22 Article Number: 222004 Published: NOV 28 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 Photoionization of few electron systems: a hybrid coupled channels approach

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

NEW JOURNAL OF PHYSICS Volume: 17 Article Number: 063002 Published: JUN 1 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 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

7 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

8 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

9 Time-dependent multiconfiguration methods for the numerical simulation of photoionization processes of many-electron atoms

By: Hochstuhl, D.; Hinz, C. M.; Bonitz, M.

EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS Volume: 223 Issue: 2 Pages: 177-336 Published: JAN 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 Time-dependent formalism of double ionization of multielectron atomic targets

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

CHEMICAL PHYSICS Volume: 414 Pages: 112-120 Published: MAR 12 2013

12 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

13 Time-dependent restricted-active-space configuration-interaction method for the photoionization of many-electron atoms

By: Hochstuhl, David; Bonitz, Michael

PHYSICAL REVIEW A Volume: 86 Issue: 5 Article Number: 053424 Published: NOV 29 2012

14 Application of the time-dependent close-coupling approach to few-body atomic and molecular ionizing collisions

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

EUROPEAN PHYSICAL JOURNAL D Volume: 66 Issue: 11 Article Number: 284 Published: NOV 2012

15 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 2012

16 Single photoionization of Be and HF using the multiconfiguration time-dependent Hartree-Fock method

By: Haxton, D. J.; Lawler, K. V.; McCurdy, C. W.

PHYSICAL REVIEW A Volume: 86 Issue: 1 Article Number: 013406 Published: JUL 10 2012

17 Direct double L-shell ionization of a Be-like ion by a high-energy photon

By: Mikhailov, A. I.; Nefiodov, A. V.; Plunien, G.

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 44 Issue: 13 Article Number: 135202 Published: JUL 14 2011

18 State-resolved valence shell photoionization of Be-like ions: experiment and theory

By: Mueller, A.; Schippers, S.; Phaneuf, R. A.; et al.

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 43 Issue: 22 Article Number: 225201 Published: NOV 28 2010

19 Differential cross sections of double photoionization of lithium

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

PHYSICAL REVIEW A Volume: 82 Issue: 2 Article Number: 023403 Published: AUG 3 2010

20 Hybrid orbital and numerical grid representation for electronic continuum processes: Double photoionization of atomic beryllium

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

PHYSICAL REVIEW A Volume: 81 Issue: 5 Article Number: 053407 Published: MAY 2010

21 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

22 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

23 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

24 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

25 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

26 Charge-scaling law for angular correlation in double photoionization of ions and atoms with two active electrons

By: Serov, Vladislav V.; Derbov, Vladimir L.; Joulakian, Boghos B.; et al.

PHYSICAL REVIEW A Volume: 78 Issue: 6 Article Number: 063403 Published: DEC 2008

27 Double photoionization of magnesium from threshold to 54 eV photon energy

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

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

28 Beryllium doubly excited autoionizing resonances between the 2p and 3p thresholds

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

PHYSICAL REVIEW A Volume: 76 Issue: 3 Article Number: 032701 Published: SEP 2007

29 Valence-shell double photoionization of alkaline-earth-metal atoms

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

PHYSICAL REVIEW A Volume: 75 Issue: 4 Article Number: 042703 Published: APR 2007

30 Double ionization of beryllium-like ions by high-energy photons

By: Nefiodov, A. V.; Plunien, G.

PHYSICS LETTERS A Volume: 363 Issue: 1-2 Pages: 115-120 Published: MAR 19 2007

31 Single- and double-photoionization data of Na and K corroborate the existence of a universal scaling law for the ratio

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

PHYSICAL REVIEW A Volume: 74 Issue: 4 Article Number: 042707 Published: OCT 2006

32 Observation of perturbed 3snp double photoexcited Ryberg series of beryllium atoms

By: Yoshida, F; Matsuoka, L; Osaki, H; et al.

PHYSICAL REVIEW A Volume: 73 Issue: 4 Article Number: 042709 Published: APR 2006

33 Double photoionization near threshold

By: Bluett, JB; Lukic, D; Whitfield, SB; et al.

Conference: 18th International Conference on Application of Accelerators in Research and Industry CAARI) Location: Ft Worth, TX Date: OCT 10-15, 2004
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS Volume: 241 Issue: 1-4 Pages: 114-117 Published: DEC 2005

34 Double and triple photoionization of Li and Be

By: Colgan, J; Pindzola, MS; Robicheaux, F

PHYSICAL REVIEW A Volume: 72 Issue: 2 Article Number: 022727 Published: AUG 2005

Rad Double-to-single photoionization ratio of lithium at medium energies citiran je 13 puta

By: Wehlitz, R; Martinez, MM; Bluett, JB; et al.

PHYSICAL REVIEW A Volume: 69 Issue: 6 Article Number: 062709 Published: JUN 2004

1 The dynamics of lithium atom photoionization by ultrashort-pulse x-rays

By: Bichkov, A. B.; Kozhina, A. S.; Mityureva, A. A.; et al.

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 50 Issue: 19 Article Number: 195601 Published: OCT 14 2017

2 Double K-shell photoionization and hypersatellite x-ray transitions of 12 <= Z <= 23 atoms

By: Hoszowska, J.; Dousse, J. -Cl.; Cao, W.; et al.

PHYSICAL REVIEW A Volume: 82 Issue: 6 Article Number: 063408 Published: DEC 16 2010

3 Spin effects in double photoionization of lithium

By: Kheifets, A. S.; Fursa, D. V.; Hines, C. W.; et al.

PHYSICAL REVIEW A Volume: 81 Issue: 2 Article Number: 023418 Published: FEB 2010

4 Two-electron photoionization of ground-state lithium

By: Kheifets, A. S.; Fursa, D. V.; Bray, I.

PHYSICAL REVIEW A Volume: 80 Issue: 6 Article Number: 063413 Published: DEC 2009

5 K-h alpha1,2) hypersatellites of 3d transition metals and their photoexcitation energy dependence

By: Diamant, R.; Huotari, S.; Hamalainen, K.; et al.

PHYSICAL REVIEW A Volume: 79 Issue: 6 Article Number: 062511 Published: JUN 2009

6 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

7 Triple photoionization of lithium up to 650 eV photon energy

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

PHYSICAL REVIEW A Volume: 78 Issue: 3 Article Number: 033401 Published: SEP 2008

8 Double ionization of lithiumlike ions by Compton scattering of high-energy photons

By: Mikhailov, A. I.; Nefiodov, A. V.; Plunien, G.

PHYSICAL REVIEW LETTERS Volume: 97 Issue: 23 Article Number: 233003 Published: DEC 8 2006

9 Resonant double photoionization of lithium studied with medium energy resolution

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

PHYSICAL REVIEW A Volume: 74 Issue: 4 Article Number: 042721 Published: OCT 2006

10 Nonrelativistic double photoeffect on lithium-like ions at high energies

By: Mikhailov, A. I.; Mikhailov, I. A.; Nefiodov, A. V.; et al.

PHYSICS LETTERS A Volume: 355 Issue: 4-5 Pages: 363-367 Published: JUL 10 2006

11 Ionization of lithium in a strong laser field

By: Ruiz, C.; Plaja, L.; Roso, L.

LASER PHYSICS Volume: 16 Issue: 4 Pages: 600-606 Published: APR 2006

12 Double photoionization processes in lithium

By: Wehlitz, R; Colgan, J; Martinez, MM; et al.

Conference: 14th International Conference on Vacuum Ultraviolet Radiation Physics Location: Cairns, AUSTRALIA Date: JUL 19-23, 2004

JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA Volume: 144 Special Issue: SI Pages: 59-62 Published: JUN 2005

13 Lithium ionization by a strong laser field

By: Ruiz, C; Plaja, L; Roso, L

PHYSICAL REVIEW LETTERS Volume: 94 Issue: 6 Article Number: 063002 Published: FEB 18 2005

Rad Triple photoionization of Ne and Ar near threshold citiran je 12 puta

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

PHYSICAL REVIEW A Volume: 69 Issue: 4 Article Number: 042717 Published: APR 2004

1 Electron impact ionisation and fragmentation of methanol and ethanol

By: Nixon, K. L.; Pires, W. A. D.; Neves, R. F. C.; et al.

INTERNATIONAL JOURNAL OF MASS SPECTROMETRY Volume: 404 Pages: 48-59 Published: JUN 20 2016

2 Inner-shell photodetachment from Ru-

By: Dumitriu, I.; Bilodeau, R. C.; Gorczyca, T. W.; et al.

PHYSICAL REVIEW A Volume: 82 Issue: 4 Article Number: 043434 Published: OCT 26 2010

3 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

4 Promoting a core electron to fill a d shell: A threshold law and shape and Feshbach resonances

By: Bilodeau, R. C.; Dumitriu, I.; Gibson, N. D.; et al.

PHYSICAL REVIEW A Volume: 80 Issue: 3 Article Number: 031403 Published: SEP 2009

5 Energy Correlation of the Three Electrons Emitted during the Triple Photoionization of Ar

By: Hikosaka, Y.; Lablanquie, P.; Penent, F.; et al.

PHYSICAL REVIEW LETTERS Volume: 102 Issue: 1 Article Number: 013002 Published: JAN 9 2009

6 Triple photoionization of lithium up to 650 eV photon energy

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

PHYSICAL REVIEW A Volume: 78 Issue: 3 Article Number: 033401 Published: SEP 2008

7 Coulomb four-body problem: Electron-impact double ionization of helium in the threshold regime

By: Ren, Xueguang; Dorn, Alexander; Ullrich, Joachim

PHYSICAL REVIEW LETTERS Volume: 101 Issue: 9 Article Number: 093201 Published: AUG 29 2008

8 Initial state dependence in multielectron threshold ionization of atoms

By: Emmanouilidou, Agapi; Wang, Peijie; Rost, Jan M.

PHYSICAL REVIEW LETTERS Volume: 100 Issue: 6 Article Number: 063002 Published: FEB 15 2008

9 A particle-in-cell plus Monte Carlo study of plasma-induced damage of normal incidence collector optics used in extreme ultraviolet lithography

By: Wieggers, R. C.; Goedheer, W. J.; Akdim, M. R.; et al.

JOURNAL OF APPLIED PHYSICS Volume: 103 Issue: 1 Article Number: 013308 Published: JAN 1 2008

10 State-selective cross sections of multiple photoionization in Ne

By: Kaneyasu, T.; Hikosaka, Y.; Shigemasa, E.; et al.

PHYSICAL REVIEW A Volume: 76 Issue: 1 Article Number: 012717 Published: JUL 2007

11 Differential cross-section measurements of multiply charged xenon ions produced in 10-28-keV e-)-Xe collisions

By: Mondal, S; Shanker, R

PHYSICAL REVIEW A Volume: 72 Issue: 5 Article Number: 052705 Published: NOV 2005

12 Double ionization by positrons near threshold

By: Simonovic, N; Lukic, D; Grujic, P

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 38 Issue: 17 Pages: 3147-3161 Published: SEP 14 2005

Rad Resonance parameters of autoionizing Be 2pnl states citiran je 16 puta.

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

PHYSICAL REVIEW A Volume: 68 Issue: 5 Article Number: 052708 Published: NOV 2003

1 Calculations of the High Lying 2pns) P-1,P-3 degrees and 2pnd) P-1,P-3 degrees Rydberg States of the Be Atom via the Modified Atomic Orbital Theory

By: Sow, M.; Dieng, M.; Tine, M.; et al.

CHINESE JOURNAL OF PHYSICS Volume: 52 Issue: 5 Pages: 1459-1470 Published: OCT 2014

2 Coupled cluster methods for autoionisation resonances

By: Sajeev, Y.; Ghosh, A.; Vaval, N.; et al.

INTERNATIONAL REVIEWS IN PHYSICAL CHEMISTRY Volume: 33 Issue: 3 Pages: 397-425 Published: JUL-SEP 2014

3 Resonant enhancement of the harmonic-generation spectrum of beryllium

By: Djiokap, J. M. Ngoko; Starace, Anthony F.

PHYSICAL REVIEW A Volume: 88 Issue: 5 Article Number: 053412 Published: NOV 15 2013

4 Complex-scaled equation-of-motion coupled-cluster method with single and double substitutions for autoionizing excited states: Theory, implementation, and examples

By: Bravaya, Ksenia B.; Zuev, Dmitry; Epifanovsky, Evgeny; et al.

JOURNAL OF CHEMICAL PHYSICS Volume: 138 Issue: 12 Article Number: 124106 Published: MAR 28 2013

5 Single photoionization of Be and HF using the multiconfiguration time-dependent Hartree-Fock method

By: Haxton, D. J.; Lawler, K. V.; McCurdy, C. W.

PHYSICAL REVIEW A Volume: 86 Issue: 1 Article Number: 013406 Published: JUL 10 2012

6 A complex scaled multiconfigurational time-dependent Hartree-Fock method for studying resonant states

By: Zhang, Song Bin; Yeager, Danny L.

MOLECULAR PHYSICS Volume: 110 Issue: 9-10 Special Issue: SI Pages: 663-667 Published: 2012

7 High lying energy positions of doubly 2pns) P-1,P-3 degrees and 2pnd) P-1,P-3 degrees excited states of the beryllium atom

By: Sakho, I.

RADIATION PHYSICS AND CHEMISTRY Volume: 80 Issue: 12 Pages: 1295-1299 Published: DEC 2011

8 Theory of ultrafast autoionization dynamics of Fano resonances

By: Chu, W. -C.; Lin, C. D.

PHYSICAL REVIEW A Volume: 82 Issue: 5 Article Number: 053415 Published: NOV 29 2010

9 Evolution of overlapping resonances along an isoelectronic sequence

By: Chu, W-C; Zhou, H-L; Hibbert, A.; et al.

PHYSICAL REVIEW A Volume: 82 Issue: 1 Article Number: 013417 Published: JUL 23 2010

10 A Comparison of the Resonance Energies and Widths of the Be P-1o) and P-3o) Doubly Excited States Obtained with the BSCR and Stabilization Methods along with the BSCI Approach

By: Chen, J. H.

CHINESE JOURNAL OF PHYSICS Volume: 47 Issue: 6 Pages: 801-816 Published: DEC 2009

11 Photoionization of the Be isoelectronic sequence: total cross sections

By: Chu, W-C; Zhou, H-L; Hibbert, A.; et al.

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 42 Issue: 20 Article Number: 205003 Published: OCT 28 2009

12 Photoionization processes of the beryllium atom

By: Hsiao, Ju-Tang; Wang, Lin-Ru; Sun, Hsiao-Ling; et al.

PHYSICAL REVIEW A Volume: 78 Issue: 1 Article Number: 013411 Published: JUL 2008

13 Calculations of photoionization cross-sections with variationally optimized complex Gaussian-type basis functions

By: Morita, Masato; Yabushita, Satoshi

CHEMICAL PHYSICS Volume: 349 Issue: 1-3 Pages: 126-132 Published: JUN 16 2008

14 Beryllium doubly excited autoionizing resonances between the 2p and 3p thresholds

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

PHYSICAL REVIEW A Volume: 76 Issue: 3 Article Number: 032701 Published: SEP 2007

15 Analysis of 1s2s2p P-3)nl Rydberg states in the K-shell photoionization of the Be atom

By: Yoshida, Fumiko; Matsuoka, Leo; Takashima, Ryuta; et al.

PHYSICAL REVIEW A Volume: 73 Issue: 6 Article Number: 062709 Published: JUN 2006

16 Observation of perturbed 3snp double photoexcited Ryberg series of beryllium atoms

By: Yoshida, F; Matsuoka, L; Osaki, H; et al.

PHYSICAL REVIEW A Volume: 73 Issue: 4 Article Number: 042709 Published: APR 2006

Rad Total electron-ionization cross sections of the NO2 molecule citiran je 10 puta

By: Lukic, D; Josifov, G; Kurepa, MV

INTERNATIONAL JOURNAL OF MASS SPECTROMETRY Volume: 205 Issue: 1-3 Special Issue: SI Pages: 1-6 Published: FEB 20 2001

1 Dissociative excitation of NO2 by electron impact

By: Young, J. A.; Malone, C. P.; Johnson, P. V.; et al.

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 42 Issue: 18 Article Number: 185201 Published: SEP 28 2009

2 Electron impact dissociation of oxygen-containing molecules - A critical review

By: McConkey, J. W.; Malone, C. P.; Johnson, P. V.; et al.

PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS Volume: 466 Issue: 1-3 Pages: 1-103 Published: SEP 2008

3 Electron scattering and ionization of NO, N2O, NO2, NO3 and N2O5 molecules: theoretical cross sections

By: Joshipura, K. N.; Gangopadhyay, Sumona; Vaishnav, Bhushit G.

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 40 Issue: 1 Pages: 199-210 Published: JAN 14 2007

4 Determination of cross sections and rate coefficients for the electron impact dissociation of NO2

By: Bhatt, P.; Pal, Satyendra

CHEMICAL PHYSICS Volume: 327 Issue: 2-3 Pages: 452-456 Published: SEP 11 2006

5 Experimental and theoretical elastic cross sections for electron collisions with the C3H6 isomers

By: Makochekanwa, C; Kato, H; Hoshino, M; et al.

JOURNAL OF CHEMICAL PHYSICS Volume: 124 Issue: 2 Article Number: 024323 Published: JAN 14 2006

6 Electron impact ionization studies with aeronomic molecules

By: Antony, BK; Joshipura, KN; Mason, NJ

INTERNATIONAL JOURNAL OF MASS SPECTROMETRY Volume: 233 Issue: 1-3 Pages: 207-214 Published: APR 15 2004

7 Electron-impact ionization of NO, NO2, and N2O

By: Lopez, J; Tarnovsky, V; Gutkin, M; et al.

INTERNATIONAL JOURNAL OF MASS SPECTROMETRY Volume: 225 Issue: 1 Pages: 25-37 Article Number: PII S1387-380602)01042-4 Published: FEB 1 2003

8 Absolute cross sections for electron impact ionization of NO2

By: Jiao, CQ; DeJoseph, CA; Garscadden, A

JOURNAL OF CHEMICAL PHYSICS Volume: 117 Issue: 1 Pages: 161-165 Published: JUL 1 2002

9 Applied mass spectrometry

By: Zmbov, KF

Edited by: Koicki, S; Konjevic, N; Petrovic, L; et al.

Conference: Conference on Applied Physics in Serbia Location: BELGRADE, YUGOSLAVIA Date: MAY 27-29, 2002
APPLIED PHYSICS IN SERBIA Book Series: SERBIAN ACADEMY OF SCIENCES AND ARTS, DEPARTMENT OF MATHEMATICS, PHYSICS AND GEO-SCIENCES Volume: 104 Pages: 291-300 Published: 2002

10 Calculations of absolute electron-impact ionization cross sections for molecules of technological relevance using the DM formalism

By: Probst, M; Deutsch, H; Becker, K; et al.

INTERNATIONAL JOURNAL OF MASS SPECTROMETRY Volume: 206 Issue: 1-2 Pages: 13-25 Published: FEB 26 2001

Rad Electron-ion recombination for Fe VIII forming Fe VII and Fe IX forming Fe VIII: measurements and theory citiran je 19 puta.

By: Schmidt, E. W.; Schippers, S.; Bernhardt, D.; et al.

ASTRONOMY & ASTROPHYSICS Volume: 492 Issue: 1 Pages: 265-275 Published: DEC 2008

1 Storage ring cross section measurements for electron impact ionization of Fe8+

By: Hahn, M.; Becker, A.; Bernhardt, D.; et al.

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 49 Issue: 8 Article Number: 084006 Published: APR 28 2016

2 The CHIANTI atomic database

By: Young, P. R.; Dere, K. P.; Landi, E.; et al.

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 49 Issue: 7 Article Number: 074009 Published: APR 14 2016

3 STORAGE RING CROSS SECTION MEASUREMENTS FOR ELECTRON IMPACT IONIZATION OF Fe7+

By: Hahn, M.; Becker, A.; Bernhardt, D.; et al.

ASTROPHYSICAL JOURNAL Volume: 813 Issue: 1 Article Number: 16 Published: NOV 1 2015

4 ELECTRON-ION RECOMBINATION OF Fe12+ FORMING Fe11+: LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS

By: Hahn, M.; Badnell, N. R.; Grieser, M.; et al.

ASTROPHYSICAL JOURNAL Volume: 788 Issue: 1 Article Number: 46 Published: JUN 10 2014

5 Atomic Data Needs for Understanding X-ray Astrophysical Plasmas

By: Smith, Randall K.; Brickhouse, Nancy S.

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

ADVANCES IN ATOMIC, MOLECULAR, AND OPTICAL PHYSICS, VOL 63 Book Series: Advances In Atomic Molecular and Optical Physics Volume: 63 Pages: 271-321 Published: 2014

6 THE DIAGNOSTIC O VI ABSORPTION LINE IN DIFFUSE PLASMAS: COMPARISON OF NON-EQUILIBRIUM IONIZATION STRUCTURE SIMULATIONS TO FUSE DATA

By: de Avillez, Miguel A.; Breitschwerdt, Dieter

ASTROPHYSICAL JOURNAL LETTERS Volume: 761 Issue: 2 Article Number: L19 Published: DEC 20 2012

7 ELECTRON-ION RECOMBINATION OF Mg6+ FORMING Mg5+ AND OF Mg7+ FORMING Mg6+: LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS

By: Lestinsky, M.; Badnell, N. R.; Bernhardt, D.; et al.

ASTROPHYSICAL JOURNAL Volume: 758 Issue: 1 Article Number: 40 Published: OCT 10 2012

8 ELECTRON-ION RECOMBINATION OF Fe XII FORMING Fe XI: LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS

By: Novotny, O.; Badnell, N. R.; Bernhardt, D.; et al.

ASTROPHYSICAL JOURNAL Volume: 753 Issue: 1 Article Number: 57 Published: JUL 1 2012

9 Electron distribution in the Galactic disc: results from a non-equilibrium ionization model of the interstellar medium

By: de Avillez, Miguel A.; Asgekar, Ashish; Breitschwerdt, Dieter; et al.

MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY Volume: 423 Issue: 1 Pages: L107-L111 Published: JUN 2012

10 The impact of recent advances in laboratory astrophysics on our understanding of the cosmos

By: Savin, D. W.; Brickhouse, N. S.; Cowan, J. J.; et al.

REPORTS ON PROGRESS IN PHYSICS Volume: 75 Issue: 3 Article Number: 036901 Published: MAR 2012

11 Storage-ring ionization and recombination experiments with multiply charged ions relevant to astrophysical and fusion plasmas

By: Schippers, Stefan

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
XXVII INTERNATIONAL CONFERENCE ON PHOTONIC, ELECTRONIC AND ATOMIC COLLISIONS ICPEAC 2011), PTS 1-15 Book Series: Journal of Physics Conference Series Volume: 388 Article Number: 012010 Published: 2012

12 EFFECTS OF CONFIGURATION INTERACTION FOR DIELECTRONIC RECOMBINATION OF Na-LIKE IONS FORMING Mg-LIKE IONS

By: Kwon, D. -H.; Savin, D. W.

ASTROPHYSICAL JOURNAL Volume: 734 Issue: 1 Article Number: 2 Published: JUN 10 2011

13 Photoionization measurements for the iron isonuclear sequence Fe3+, Fe5+, and Fe7+

By: Gharaibeh, M. F.; Aguilar, A.; Covington, A. M.; et al.

PHYSICAL REVIEW A Volume: 83 Issue: 4 Article Number: 043412 Published: APR 22 2011

14 Contribution of Near Threshold States to Recombination in Plasmas

By: Robicheaux, F.; Loch, S. D.; Pindzola, M. S.; et al.

PHYSICAL REVIEW LETTERS Volume: 105 Issue: 23 Article Number: 233201 Published: NOV 30 2010

15 Dielectronic recombination of argon-like ions

By: Nikolic, D.; Gorczyca, T. W.; Korista, K. T.; et al.

ASTRONOMY & ASTROPHYSICS Volume: 516 Article Number: A97 Published: JUN-JUL 2010

16 Resonant Transfer Excitation of Fluorine-Like Mo33+ Ion

By: Ramadan, Hassan; Elkilany, Sabbah

ZEITSCHRIFT FUR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES Volume: 65 Issue: 6-7 Pages: 599-605 Published: JUN-JUL 2010

17 The Evolution of the Large-Scale ISM: Bubbles, Superbubbles and Non-Equilibrium Ionization

By: de Avillez, M. A.; Breitschwerdt, D.

Edited by: Kothes, R; Landecker, TL; Willis, AG

Conference: Conference on Dynamic Interstellar Medium: A Celebration of the Canadian Galactic Plane Survey Location: Naramata, CANADA Date: JUN 06-10, 2010

DYNAMIC INTERSTELLAR MEDIUM: A CELEBRATION OF THE CANADIAN GALACTIC PLANE SURVEY Book Series: Astronomical Society of the Pacific Conference Series Volume: 438 Pages: 313-+ Published: 2010

18 ELECTRON-ION RECOMBINATION OF Fe X FORMING Fe IX AND OF Fe XI FORMING Fe X: LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS

By: Lestinsky, M.; Badnell, N. R.; Bernhardt, D.; et al.

ASTROPHYSICAL JOURNAL Volume: 698 Issue: 1 Pages: 648-659 Published: JUN 10 2009

19 CHIANTI - an atomic database for emission lines IX. Ionization rates, recombination rates, ionization equilibria for the elements hydrogen through zinc and updated atomic data

By: Dere, K. P.; Landi, E.; Young, P. R.; et al.

ASTRONOMY & ASTROPHYSICS Volume: 498 Issue: 3 Pages: 915-929 Published: MAY 2009

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:

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 2012

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

Rad Dielectronic recombination of Fe xv forming Fe xiv: Laboratory measurements and theoretical calculations citiran je 19 puta

By: Lukic, D. V.; Schnell, M.; Savin, D. W.; et al.

ASTROPHYSICAL JOURNAL Volume: 664 Issue: 2 Pages: 1244-1252 Part: 1 Published: AUG 1 2007

1 Absolute rate coefficients for photorecombination and electron-impact ionization of magnesiumlike iron ions from measurements at a heavy-ion storage ring

By: Bernhardt, D.; Becker, A.; Grieser, M.; et al.

PHYSICAL REVIEW A Volume: 90 Issue: 1 Article Number: 012702 Published: JUL 3 2014

2 ELECTRON-ION RECOMBINATION OF Fe12+ FORMING Fe11+: LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS

By: Hahn, M.; Badnell, N. R.; Grieser, M.; et al.

ASTROPHYSICAL JOURNAL Volume: 788 Issue: 1 Article Number: 46 Published: JUN 10 2014

3 Dielectronic Recombination Studies Based On EBIT

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

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

Conference: 22nd International Conference on the Application of Accelerators in Research and Industry CAARI) Location: Fort Worth, TX Date: AUG 05-10, 2012
APPLICATION OF ACCELERATORS IN RESEARCH AND INDUSTRY Book Series: AIP Conference Proceedings Volume: 1525 Pages: 73-77 Published: 2013

4 ELECTRON-ION RECOMBINATION OF Mg6+ FORMING Mg5+ AND OF Mg7+ FORMING Mg6+: LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS

By: Lestinsky, M.; Badnell, N. R.; Bernhardt, D.; et al.

ASTROPHYSICAL JOURNAL Volume: 758 Issue: 1 Article Number: 40 Published: OCT 10 2012

5 ELECTRON-ION RECOMBINATION OF Fe XII FORMING Fe XI: LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS

By: Novotny, O.; Badnell, N. R.; Bernhardt, D.; et al.

ASTROPHYSICAL JOURNAL Volume: 753 Issue: 1 Article Number: 57 Published: JUL 1 2012

6 The impact of recent advances in laboratory astrophysics on our understanding of the cosmos

By: Savin, D. W.; Brickhouse, N. S.; Cowan, J. J.; et al.

REPORTS ON PROGRESS IN PHYSICS Volume: 75 Issue: 3 Article Number: 036901 Published: MAR 2012

7 Storage-ring ionization and recombination experiments with multiply charged ions relevant to astrophysical and fusion plasmas

By: Schippers, Stefan

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
XXVII INTERNATIONAL CONFERENCE ON PHOTONIC, ELECTRONIC AND ATOMIC COLLISIONS ICPEAC 2011), PTS 1-15 Book Series: Journal of Physics Conference Series Volume: 388 Article Number: 012010 Published: 2012

8 Leaky ion extraction method for dielectronic recombination strength measurements at electron-beam ion traps

By: Zhang, W.; Yao, K.; Yang, Y.; et al.

PHYSICAL REVIEW A Volume: 82 Issue: 2 Article Number: 020702 Published: AUG 19 2010

9 Dielectronic recombination of argon-like ions

By: Nikolic, D.; Gorczyca, T. W.; Korista, K. T.; et al.

ASTRONOMY & ASTROPHYSICS Volume: 516 Article Number: A97 Published: JUN-JUL 2010

10 Resonant Transfer Excitation of Fluorine-Like Mo33+ Ion

By: Ramadan, Hassan; Elkilany, Sabbah

ZEITSCHRIFT FUR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES Volume: 65 Issue: 6-7 Pages: 599-605 Published: JUN-JUL 2010

11 KLL dielectronic recombination resonant strengths of He-like up to O-like xenon ions

By: Yao, K.; Geng, Z.; Xiao, J.; et al.

PHYSICAL REVIEW A Volume: 81 Issue: 2 Article Number: 022714 Published: FEB 2010

12 The Evolution of the Large-Scale ISM: Bubbles, Superbubbles and Non-Equilibrium Ionization

By: de Avillez, M. A.; Breitschwerdt, D.

Edited by: Kothes, R; Landecker, TL; Willis, AG

Conference: Conference on Dynamic Interstellar Medium: A Celebration of the Canadian Galactic Plane Survey Location: Naramata, CANADA Date: JUN 06-10, 2010

DYNAMIC INTERSTELLAR MEDIUM: A CELEBRATION OF THE CANADIAN GALACTIC PLANE SURVEY Book Series: Astronomical Society of the Pacific Conference Series Volume: 438 Pages: 313-+ Published: 2010

13 ELECTRON-ION RECOMBINATION OF Fe X FORMING Fe IX AND OF Fe XI FORMING Fe X: LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS

By: Lestinsky, M.; Badnell, N. R.; Bernhardt, D.; et al.

ASTROPHYSICAL JOURNAL Volume: 698 Issue: 1 Pages: 648-659 Published: JUN 10 2009

14 Astrophysical Relevance of Storage-Ring Electron-Ion Recombination Experiments

By: Schippers, Stefan

Edited by: Azuma, T; Nakamura, N; Yamada, C, Conference: 14th International Conference on Physics of Highly Charged Ions Location: Univ Electro Commun, Chofu, JAPAN Date: SEP 01-05, 2008
14TH INTERNATIONAL CONFERENCE ON THE PHYSICS OF HIGHLY CHARGED IONS HCI 2008) Book Series: Journal of Physics Conference Series Volume: 163 Article Number: 012001 Published: 2009

15 Electron-ion recombination for Fe VIII forming Fe VII and Fe IX forming Fe VIII: measurements and theory

By: Schmidt, E. W.; Schippers, S.; Bernhardt, D.; et al.

ASTRONOMY & ASTROPHYSICS Volume: 492 Issue: 1 Pages: 265-275 Published: DEC 2008

16 DIELECTRONIC RECOMBINATION MEASUREMENTS OF IRON M-SHELL IONS MOTIVATED BY ACTIVE GALACTIC NUCLEI X-RAY ABSORPTION FEATURES

By: Lukic, D. V.; Schnell, M.; Savin, D. W.; et al.

Edited by: Malovic, G; Popovic, LC; Dimitrijevic, MS

Conference: 24th Summer School and International Symposium on Physics of Ionized Gases Location: Novi Sad, SERBIA Date: AUG 25-29, 2008

24TH SUMMER SCHOOL AND INTERNATIONAL SYMPOSIUM ON THE PHYSICS OF IONIZED GASES, CONTRIBUTED PAPERS Book Series: PUBLICATIONS OF THE ASTRONOMICAL OBSERVATORY OF BELGRADE--SERIES Issue: 84 Pages: 99-102 Published: 2008

17 Dielectronic recombination data for dynamic finite-density plasmas - XIII. The magnesium isoelectronic sequence

By: Altun, Z.; Yumak, A.; Yavuz, I.; et al.

ASTRONOMY & ASTROPHYSICS Volume: 474 Issue: 3 Pages: 1051-1059 Published: NOV 2007

18 Electron-ion recombination of SiIV forming SiIII: Storage-ring measurement and multiconfiguration dirac-fock calculations

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

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

19 Can heavy ion storage rings contribute to our understanding of the charge state distributions in cosmic atomic plasmas?

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
XXV INTERNATIONAL CONFERENCE ON PHOTONIC, ELECTRONIC AND ATOMIC COLLISIONS Book Series: Journal of Physics Conference Series Volume: 88 Article Number: 012071 Published: 2007

Rad Sub-Doppler absorption narrowing in atomic vapor at two intense laser fields citiran je 14 puta

By: Krmpot, AJ; Mijailovic, MM; Panic, BM; et al.

OPTICS EXPRESS Volume: 13 Issue: 5 Pages: 1448-1456 Published: MAR 7 2005

1 Simultaneous observations of electromagnetically induced transparency EIT) and absorption EIA) in a multi-level V-type system of Rb-87 and theoretical simulation of the observed spectra using a multi-mode approach

By: Das, Bankim Chandra; Bhattacharyya, Dipankar; Das, Arpita; et al.

JOURNAL OF CHEMICAL PHYSICS Volume: 145 Issue: 22 Article Number: 224312 Published: DEC 14 2016

 Double-to-single photoionization ratio of lithium at medium energies

2 High contrast D-1 line electromagnetically induced transparency in nanometric-thin rubidium vapor cell

By: Sargsyan, A.; Leroy, C.; Pashayan-Leroy, Y.; et al.

APPLIED PHYSICS B-LASERS AND OPTICS Volume: 105 Issue: 4 Pages: 767-774 Published: DEC 2011

3 Nonlinear resonances caused by coherent, optical pumping and saturating effects in the presence of three laser fields for the Rb-85-D-2 line

By: Hossain, M. M.; Mitra, S.; Poddar, P.; et al.

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 44 Issue: 11 Article Number: 115501 Published: JUN 14 2011

4 Double EIT and enhanced EIT signal in a combination of Lambda- and V-type system of Rb-D-2 transition

By: Hossain, M. M.; Mitra, S.; Ray, B.; et al.

APPLIED PHYSICS B-LASERS AND OPTICS Volume: 103 Issue: 1 Pages: 117-122 Published: APR 2011

5 Coherent laser spectroscopy of rubidium atoms

By: Mitra, S.; Hossain, M. M.; Ray, B.; et al.

Edited by: Dreischuh, T; Slavov, D

Conference: 16th International School on Quantum Electronics - Laser Physics and Applications Location: Nessebar, BULGARIA Date: SEP 20-24, 2010
 Athens, Sch Appl Math & Phys Sci; European Opt Soc; VIVACOM

16TH INTERNATIONAL SCHOOL ON QUANTUM ELECTRONICS: LASER PHYSICS AND APPLICATIONS Book Series: Proceedings of SPIE Volume: 7747 Article Number: UNSP 77470B Published: 2011

6 Influence of laser beam profile on electromagnetically induced absorption

By: Cuk, S. M.; Radonjic, M.; Krmpot, A. J.; et al.

PHYSICAL REVIEW A Volume: 82 Issue: 6 Article Number: 063802 Published: DEC 1 2010

7 Linear and nonlinear light propagations in a Doppler-broadened medium via electromagnetically induced transparency

By: Li, Liang; Huang, Guoxiang

PHYSICAL REVIEW A Volume: 82 Issue: 2 Article Number: 023809 Published: AUG 18 2010

8 Optical pumping spectroscopy of Rb vapour with co-propagating laser beams: line identification by a simple theoretical model

By: Krmpot, Aleksandar J.; Rabasovic, Mihailo D.; Jelenkovic, Branislav M.

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS Volume: 43 Issue: 13 Article Number: 135402 Published: JUL 14 2010

9 Dark Hanle resonances from selected segments of the Gaussian laser beam cross-section

By: Krmpot, A. J.; Cuk, S. M.; Nikolic, S. N.; et al.

OPTICS EXPRESS Volume: 17 Issue: 25 Pages: 22491-22498 Published: DEC 7 2009

10 Laser Beam Profile Influence on Dark Hanle Resonances in Rb Vapor

By: Krmpot, A. J.; Cuk, S. M.; Nikolic, S. N.; et al.

Conference: International School and Conference on Photonics PHOTONICA09) Location: Belgrade, SERBIA Date: AUG 24-28, 2009

ACTA PHYSICA POLONICA A Volume: 116 Issue: 4 Pages: 563-565 Published: OCT 2009

11 Study of width and height of EIT resonance in a Doppler broadened five-level system with varying probe power

By: Hossain, M. M.; Mitra, S.; Chakrabarti, S.; et al.

EUROPEAN PHYSICAL JOURNAL D Volume: 53 Issue: 2 Pages: 141-146 Published: JUN 2009

12 Switching from "absorption within transparency" to "transparency within transparency" in an electromagnetically induced absorption dominated transition

By: Dahl, Katrin; Molella, Luca Spani; Rinkleff, Rolf-Hermann; et al.

OPTICS LETTERS Volume: 33 Issue: 9 Pages: 983-985 Published: MAY 1 2008

13 Pump-probe spectroscopy in degenerate two-level atoms with arbitrarily strong fields

By: Zigdon, T.; Wilson-Gordon, A. D.; Friedmann, H.

PHYSICAL REVIEW A Volume: 77 Issue: 3 Article Number: 033836 Published: MAR 2008

14 Atomic coherence in nondegenerate four-wave mixing

By: Zuo Zhan-Chun; Sun Jiang; Liu Xia; et al.

CHINESE PHYSICS Volume: 16 Issue: 4 Pages: 1042-1046 Published: APR 2007