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**MILAN S. DIMITRIJEVIĆ**

**LINE SHAPES INVESTIGATIONS**  
**IN YUGOSLAVIA AND SERBIA III (1989 - 1993)**  
(Bibliography and citation index)

**ISTRAŽIVANJE OBLIKA SPEKTRALNIH LINIJA**  
**U JUGOSLAVIJI I SRBIJI III (1989 - 1993)**  
(Bibliografija i indeks citata)



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**SUMMARY:** First part of the publication contains review and analysis of the results of spectral line shapes investigations in Yugoslavia and Serbia in the period 1989--1993. In the second part, the bibliography of the contributions of Yugoslav and Serbian scientists is given, together with the citation index.

**REZIME:** U prvom delu publikacije dat je pregled i analiza istraživanja oblika spektralnih linija u Jugoslaviji i Srbiji u periodu 1989--1993 godine. U drugom delu data je bibliografija radova jugoslovenskih i srpskih istraživača, sa istorijatom uticaja svakog objavljenog dela na savremenu nauku, što je urađeno navođenjem izvora u kojima su objavljeni članci citirani.

## I. SPECTRAL LINE SHAPES INVESTIGATIONS IN YUGOSLAVIA AND SERBIA 1989--1993

Two previously published Bibliographies with citation index on Spectral Line Shapes Investigations in Yugoslavia, cover the period 1962 -- 1989 (Dimitrijević, 1990, 1991). From the end of 1989 up to September 1993, 241 articles concerning line shapes investigations have been published by Yugoslav authors (among them 230 by Serbian authors). In Serbia have been published as well 2 Ph. D. and 4 M. Sc. Theses. Consequently, since the first article on this topic (Vujnović et al., 1962) up to the 1993, 869 (684 by serbian authors) bibliographic items have been published by 127 Yugoslav authors (100 from Serbia, 26 from Croatia and 1 living in France).

In the considered period various problems have been investigated. Doppler broadening in a d.c. hydrogen glow discharge has been investigated for Balmer series hydrogen lines (629, 705). Stark broadening of hydrogen and hydrogen-like emitter lines, has been studied in particular for H-beta line shift (679, 741), and hydrogen line shift in the presence of magnetic field (678, 839). Also, the attention has been paid to the study of H alpha wing asymmetry in weakly non ideal plasma (699), to the investigation of hydrogen line shapes in a plane - cathode abnormal glow discharge (791) and other discharges (799, 840) and to the influence of ion dynamics (865).

Work on the experimental determination of Stark broadening parameters of nonhydrogenic atoms and ions has been continued during the considered period: Stark broadening of following atoms and ions has been investigated: Ar I, II, III, IV (661, 730, 858, 859); B I, II, III (783, 838, 864); Br I, II (655, 656, 657, 658, 740); C I, II (803, 838); Ca II (862, 863); Cl I, II, III (655, 658, 661); Cd II (688, 724, 725); F I, II, III, IV, V, VII (683, 723, 785, 786, 787, 843, 866); Fe II (795, 856, 857); He I (680, 698, 750, 751, 849, 858, 860); Hg I, II, III (653, 756, 782); I I, II (656, 657, 676, 690); Kr II, III (748); Na I (783); N II, III (731, 743, 781, 838); Ne I, II, III, IV, V, VI (696, 866); O II, III (726, 749, 855, 864); Pb II (756, 782); S II, III (652, 654, 661, 694, 706); Si II, III, IV (727, 784); Sn I, II (651, 782); Xe I, II, III (667, 748), Zn II (724, 745). Also, the influence of ion dynamics (663, 665, 666, 732, 733), magnetic field (680, 849) and plasma non ideality (695) has been investigated .

Using the semiclassical perturbation approach (Sahal-Bréchet, 1969a,b), the spectra of following elements have been investigated: He I (641), Li I (642, 644, 714, 716), Be I (776, 836), Na I (645, 648), Al I (777, 830), K I (647), Cu I (649), Rb I (774), Pd I (806, 810), Be II (765, 769, 823, 825), Ca II (766, 771, 819, 821, 826, 828), Hg II (757, 808), Al III (762, 820, 832), Sc III (767, 821), C IV (717, 719, 772, 773, 775, 778), Si IV (718, 720), Ti IV (767, 821), N V (768, 827), O VI (712, 779), S VI (822, 824), F VII (831, 833), Ne VIII (835), Na IX (835), Al XI (834) and Si XII (834). The influence of the perturber path deflection from straight line, due to the back reaction of neutral emitter on Stark broadening and collision phase shifts, has been investigated (721, 728, 729) as well as plasma screening effects on Stark broadening at the adiabatic limit (634) and the asymptotic behaviour of the Stark broadening  $A$  and  $a$  functions for attractive hyperbolic paths (643, 770).

Theoretical investigations of non hydrogenic emitter Stark broadening were developed in several directions. An especial effort has been done in order to investigate and test the modified semiempirical method (Dimitrijević and Konjević, 1980). The case of close perturbing levels has been studied in (637) and this approach has been applied to the lines of Bi II (817, 818), Cd II (854), I II (850), Sb II(851), Zn II (854), Pt II (760, 812, 814) and for a number of four and five time charged ion lines (807, 811, 813, 815). Moreover, a simple convergent semiclassical method for evaluation of Stark broadening parameters of neutral atom lines has been developed (636, 722, 762, 816). Approximate methods have been used and tested on numerous examples (630, 631, 707, 670, 780).

A special attention has been paid in a number of papers to the investigation of regularities and systematic trends of Stark broadening parameters (638, 639, 640, 677, 686, 691, 692, 693, 710, 711, 713, 740, 746, 747, 748, 759, 786, 800, 829, 837). Similarities of Stark broadening parameters within the same multiplets (800), supermultiplet (800), transition array (650, 800) and spectral series (710, 711, 759, 829) have been examined. Also, systematic trends for the same type of transition within a homologous (677, 837) and isoelectronic sequence (713, 786) as well as the dependence of Stark broadening parameters on the ionization potential and on the element ordinal number, giving as the result simple formulae of astrophysical importance (686, 687, 746, 747). An investigation on similarities and regularities for line broadening due to collisions with neutral perturber has also been carried out with the special intention to improve the Van der Waals formula (638, 640, 659, 709).

Astronomical aspects of spectral line shapes research were studied in a number of publications, as the contribution of atomic collisions to the solar limb effect (697, 844), shapes, asymmetries and bisectors of solar and stellar spectral lines (669, 674, 737, 739, 790, 842, 845, 846, 847, 852, 868), Na abundance in Solar atmosphere (691, 734), spectral analysis of a white light flare (798), Fe I lines in the spectrum of Sirius (738), and Stark broadening parameters and abundances in spectra of hot stars (672, 673, 735, 736, 789). On Astronomical Observatory in Belgrade the Belgrade programme for monitoring of activity --- sensitive spectral lines of the Sun as a star, during a 11-years Solar cycle is in the course of realization. In accordance with this programme Solar activity influence on spectral lines has been investigated in several papers (662, 797, 861, 867, 969). Due to need to obtain a better connection between astronomical observations and theoretical interpretations of astrophysical spectra, the radiative transfer investigations have also been carried out (689, 704, 755, 801, 802). Moreover, the influence of the gravitational field on the shape of spectral lines of Seyfert galaxies and quasars and the influence of ion-atom collisions on the absorption of radiation in white dwarfs (793) has been studied as well.

In a number of papers, satellite and diffuse bands of NaCd (628), InHg (685), KHg (660), KCd (659), NaHg(628), satellite bands in the wings of Tl and In resonance lines (660), and metal excimers (684), have been studied. Continua, satellite and diffuse bands have been investigated also (681, 682, 703, 752), as well as laser induced chemiluminescence (753, 754).

## Line Shape Investigation in Yugoslavia and Serbia III (1989-1993)

The contribution and influence of Yugoslav and Serbian scientists in the international effort on investigation and interpretation of line shapes illustrated by the bibliography and citation index which follows, may be additionally emphasized by the Table 1. Here, scientists with the most bibliographical references in this field in the period 1889 - 1992, according to bibliographies by Fuhr et al. (1972, 1974, 1975, 1978, 1993), are presented.

### REFERENCES--- LITERATURA

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- Vujnović, V., Harrison, J. A., Craggs, J. D.: 1962, Proc. Phys. Soc. (London) 80, 516.

## TABLES --- TABELE

**Table 1.** Scientists with the most bibliographical references in spectral line shapes investigations in the period 1889 - 1992 according to the bibliographies of Fuhr et al. (1972, 1974, 1975, 1978, 1993).

**Tabela 1.** Istraživači sa najviše bibliografskih jedinica u istraživanju oblika spektralnih linija u periodu 1889 - 1992, prema bibliografijama Fuhr-a i dr.(1972, 1974, 1975, 1978, 1993).

No. - Br.	Name - Ime	No. of references Broj referenci
1-2.	H.R.Griem	107
1-2.	M.S.Dimitrijević	107
3.	J.Cooper	105
4.	N.Konjević	82
5.	J.Purić	70
6.	S.Sahal-Bréchet	53
7.	S.Y.Ch'en	51
8.	J.Szudy	48
9.	E.W.Smith	45
10.	M.Platiša	44
11-12.	J.Labat	41
11-12.	R.W.Lee	41
13.	E.L.Lewis	37
14.	И.И.Собельман	33



## ISTRAŽIVANJA OBLIKA SPEKTRALNIH LINIJA U JUGOSLAVIJI I SRBIJI 1989 -- 1993

Dve prethodno objavljene Bibliografije sa indeksom citata o istraživanjima oblika spektralnih linija u Jugoslaviji, pokrivaju period 1962 -- 1989. (Dimitrijević, 1990, 1991). U periodu od kraja 1989. do septembra 1993. godine, objavljen je 241 članak koji se odnosi na istraživanje oblika linija (među njima su 230 članaka srpskih autora). U Srbiji su takodje odbranjene i 2 doktorske i 4 magistarske teze. Shodno tome, od prvog članka u ovoj oblasti (Vujnović i dr., 1962) pa do septembra 1993, objavljeno je 869 (684 od strane srpskih autora) bibliografskih jedinica od ukupno 127 (100 iz Srbije, 26 iz Hrvatske i 1 makedonac koji živi u Francuskoj) jugoslovenskih autora.

U razmatranom periodu istraživani su različiti problemi. Za Balmerovu seriju vodonikovih linija istraživano je Doplerovo širenje u d.c. vodoničnom tinjavom pražnjenju (629, 705). Štarkovo širenje linija vodonika i vodoniku sličnih emitera, posebno je proučavano u slučaju pomaka linije H beta (679, 741), i u slučaju pomaka vodonikovih linija u prisustvu magnetnog polja (678, 839). Pažnja je takodje poklonjena proučavanju asimetrije krila linije u slabo neidealnoj plazmi (699), istraživanju oblika vodoničnih linija u neregularnom tinjavom pražnjenju sa ravnom katodom (791) i drugim pražnjenjima (799, 840) i uticaju dinamike jona (865).

Veliki je trud uložen i u eksperimentalno određivanje parametara Štarkovog širenja nevodoničnih atoma i jona. Bilo je istraživano Štarkovo širenje sledećih atoma i jona: Ar I, II, III, IV (661, 730, 858, 859); B I, II, III (783, 838, 864); Br I, II (655, 656, 657, 658, 740); C I, II (803, 838); Ca II (862, 863); Cl I, II, III (655, 658, 661); Cd II (688, 724, 725); F I, II, III, IV, V, VII (683, 723, 785, 786, 787, 843, 866); Fe II (795, 856, 857); He I (680, 698, 750, 751, 849, 858, 860); Hg I, II, III (653, 756, 782); I I, II (656, 657, 676, 690); Kr II, III (748); Na I (783); N II, III (731, 743, 781, 838); Ne I, II, III, IV, V, VI (696, 866); O II, III (726, 749, 855, 864); Pb II (756, 782); S II, III (652, 654, 661, 694, 706); Si II, III, IV (727, 784); Sn I, II (651, 782); Xe I, II, III (667, 748), Zn II (724, 745). Istraživač je takodje uticaj dinamike jona (663, 665, 666, 732, 733), magnetnog polja (680, 849) i neidealnosti plazme (695).

Koristeći semiklasični perturbacioni prilaz (Sahal-Bréchet, 1969a,b), istraživani su spektri sledećih elemenata: He I (641), Li I (642, 644, 714, 716), Be I (776, 836), Na I (645, 648), Al I (777, 830), K I (647), Cu I (649), Rb I (774), Pd I (806, 810), Be II (765, 769, 823, 825), Ca II (766, 771, 819, 821, 826, 828), Hg II (757, 808), Al III (762, 820, 832), Sc III (767, 821), C IV (717, 719, 772, 773, 775, 778), Si IV (718, 720), Ti IV (767, 821), N V (768, 827), O VI (712, 779), S VI (822, 824), F VII (831, 833), Ne VIII (835), Na IX (835), Al XI (834) and Si XII (834). Istraživan je i uticaj odstupanja putanje perturbera od prave linije, usled povratne reakcije neutralnog emitera, na Štarkovo širenje i fazni pomak (721, 728, 729) kao i uticaj Debajevog ekraniranja na Štarkovo širenje na adijabatskoj granici (634) i asimptotsko ponašanje A i a funkcija u teoriji Štarkovog širenja, za atraktivne hiperboličke putanje (643, 770).

Teorijska istraživanja Štarkovog širenja nevodoničnih emitera, razvijala su se u više pravaca. Poseban napor je učinjen da se razvije i testira modifikovani semiempirijski metod (Dimitrijević i Konjević, 1980). Slučaj bliskih perturbacionih nivoa proučavan je u (637) a oval prilaz je primenjen na linije Bi II (817, 818), Cd II (854), I II (850), Sb II (851), Zn II (854), Pt II (760, 812, 814) i za linije četvorostruko i petostruko naelektrisanih jona (807, 811, 813, 815). Razvijen je i prosti konvergentni semiklasični metod za parametre Štarkovog širenja linija neutralnih atoma (636, 722, 762, 816). Približni metodi su korišćeni i testirani na brojnim primerima (630, 631, 707, 670, 780).

U brojnim radovima su istraživane regularnosti i sistematski trendovi parametara Štarkovog širenja (638, 639, 640, 677, 686, 691, 692, 693, 710, 711, 713, 740, 746, 747, 748, 759, 786, 800, 829, 837). Istraživane sličnosti parametara Štarkovog širenja u okviru istog multiplleta (800), supermultiplleta (800), skupova prelaza (650) i spektralnih serija (710, 711, 759, 829), kao i sistematski trendovi za isti tip prelaza u homolognim (677, 837) i izoelektronskim nizovima (713, 786) a osim toga i zavisnost parametara širenja od rednog broja elemenata i jonizacionog potencijala, što je kao rezultat dalo proste formule, koje su od interesa za astrofiziku (686, 687, 746, 747). Takođe je izvedeno istraživanje sličnosti i regularnosti u slučaju linija proširenih sudarima sa neutralnim perturberima, sa ciljem da se poboljša Van der Waalsova formula (638, 640, 659, 709).

Astronomski aspekti istraživanja spektralnih linija proučavani su u brojnim priložima. Istraživan je doprinos atomskih sudara sunčevom limb efektu (697, 844), oblici, asimetrije i bisektori sunčevih i zvezdanih spektralnih linija (669, 674, 737, 739, 790, 842, 845, 846, 847, 852, 868), zastupljenost Na u Sunčevoj atmosferi (691, 734), spectralna analiza hromosferske erupcije u beloj svetlosti (798), Fe I linije u spektru Sirijusa (738), i, parametri Štarkovog širenja i zastupljenost hemijskih elemenata u spektrima toplih zvezda (672, 673, 735, 736, 789). Na Astronomskoj opservatoriji u Beogradu u toku realizacije je Beogradski program po kome se u toku 11 godišnjeg sunčevog ciklusa prate spektralne linije Sunca kao zvezde, koje su osetljive na njegovu aktivnost. U skladu sa ovim programom uticaj sunčeve aktivnosti je istraživan u nekoliko članaka (662, 797, 861, 867, 969). Takođe su vršena i istraživanja prenosa zračenja, usled potrebe da se poboljša veza između astronomskih posmatranja i teorijske interpretacije astrofizičkih spektara (689, 704, 755, 801, 802). Izučavan je i uticaj gravitacionog polja na oblik spektralnih linija Seifertovih galaksija i kvazara kao i uticaj jon-atomskih sudara na apsorpciju zračenja belih patuljaka (793).

U nizu članaka, izučavani su sateliti i difuzne trake NaCd (628), InHg (685), KHg (660), KCd (659), NaHg (628), satelitske trake na krilima rezonantnih linija Tl i In (660), i metalnih ekscimera (684). Takođe su proučavani kontinuumi, sateliti i difuzne trake (681, 682, 703, 752), kao i laserski indukovana hemiluminescencija (753, 754).

Uticaj jugoslovenskih i srpskih stvaralaca i njihov doprinos međunarodnim naporima na istraživanju i interpretaciji profila spektralnih linija, ilustrovan bibliografijom sa indeksom citata, koja je data u drugom delu, može se dodatno istaći pomoću Tabele 1. Tu su pretstavljeni naučnici sa najviše bibliografskih referenci u ovoj oblasti u periodu 1889-1992, prema bibliografijama koje su objavili Fuhr i dr. (1972, 1974, 1975, 1978, 1993).

## II. BIBLIOGRAPHY AND CITATION INDEX BIBLIOGRAFIJA I INDEKS CITATA

### INTRODUCTION

The bibliography with the citation index is divided in three parts. In the first and second part are given the citation index of articles from 1962--1985 and 1985-1989 period respectively, given in Dimitrijević (1990, 1991), with the same numeration. Moreover, the number in brackets after the number of an article, if exists, denotes that at least one author is from Serbia. In such a manner the corresponding bibliography for Serbia is included as well. In the third part is the bibliography of articles up to the september of 1993 (1989--1993 period and the bibliographical items not included in Dimitrijević (1990, 1991)) and the corresponding citation index. Besides the included citations, papers of Yugoslav scientists are largely cited in the bibliographical reviews: Dimitrijević (1991), Fuhr and Lesage (1993) and Atanacković-Vukmanović and Dimitrijević (1992). I tried to see personally each paper included. After each paper of Yugoslav authors, data on articles where the considered paper is cited are given. For citations already existing in the bibliography of Yugoslav authors, only short data are given.

I am indebted to the Referral center of the Library of Matica Srpska who enabled me to search Science citation index.

### UVOD

Bibliografija sa indeksom citata podeljena je u tri dela. U prvom i drugom delu dat je indeks citata članaka iz perioda 1962--1985 i 1985--1989 respektivno, koji su ušli u prethodne preglede (Dimitrijević, 1990, 1991), sa istom numeracijom. Osim toga, broj u zagradi iza rednog broja članka ako postoji, označava da je najmanje jedan autor iz Srbije. Na taj način prisutna je i odgovarajuća bibliografija za Srbiju. U trećem delu je bibliografija članaka do septembra 1993 (period 1989--1993 i bibliografske jedinice koje nisu uključene u prethodne preglede (Dimitrijević, 1990, 1991)) i odgovarajući indeks citata. Osim uključenih citata, članci Jugoslovenskih autora su u velikom broju citirani u bibliografskim pregledima: Dimitrijević (1991), Fuhr i Lesage (1993) i Atanacković-Vukmanović i Dimitrijević (1992). Svaki uključeni članak pokušao sam da vidim lično. Posle svakog članka Jugoslovenskih autora, dati su podaci o člancima gde je razmatrani članak citiran. Za članke koji već postoje u bibliografiji jugoslovenskih autora, dati su samo skraćeni podaci.

Dugujem zahvalnost Referalnom centru Biblioteke Matice srpske gde mi je omogućeno da pretražim Science citation index

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**II. 1. CITATION INDEX OF ARTICLES  
FROM 1962--1985 PERIOD**

**INDEKS CITATA ČLANAKA  
IZ PERIODA 1962--1985**

**1962**

1. Vujnović, V., Harrison, J. A., Craggs, J. D.: 1962, *Balmer Line Profiles in a Capillary Discharge*, Proc. Phys. Soc. (London) **80**, 516.

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49. Dimitrijević, M. S., Kršljanin, V.: 1986, Astron. Astrophys. 165, 269.	40
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61. Dimitrijević, M. S., Sahal-Bréchet, S. Bommier, V.: 1991, Astron. Astrophys. Suppl. Series, 89, 581.	39

III. 2. Yugoslav scientists --- Jugoslovenski istraživači

Name Ime	First paper Prvi članak	Last paper Zadnji članak	No. of papers Br. članaka
Acinger, K.:	1970	1972	3
Arsenijević, J.:	1987	1993	6
Atanacković--Vukmanović, O.:	1985	1993	18
Azinović, D.:	1989	1990	2
Beuc, R.:	1980	1989	23
Bajin, I.:	1993	1993	1
Bajović, S. V.:	1993	1993	1
Bojović, V.:	1971	1971	1
Bosanac, S.:	1982	1987	4
Božin, J.:	1992	1992	1
Brnović, M. J.:	1992	1992	2
Bukvić, S.:	1992	1993	3
Bzenić, S.:	1990	1991	2
Cekić, M.:	1983	1984	4
Čelebonović, V.:	1982	1982	1
Čerić, V.:	1974	1974	2
Ćirković, Lj.:	1968	1987	38
Ćuk, M.:	1980	1991	29
Cupać, S.:	1991	1991	1
Dimitrijević, M. S.:	1974	1993	256
Djeniže, S.:	1973	1993	61
Djurić, Z.:	1988	1992	4
Djurović, S.:	1975	1993	21
Džimberg--Malčić, V.:	1981	1990	2
Erkapić, S.:	1989	1993	8
Fijan, D.:	1987	1989	8
Francuski, T.:	1989	1989	1
Glavonjić, V.:	1978	1981	6
Gnjatović, S.:	1991	1991	1
Grubor, D. P.:	1973	1981	3
Grujić, P.:	1970	1979	11
Hadžiomerspahić, D.:	1972	1973	3
Henč--Bartolić, V.:	1988	1990	2

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Name Ime	First paper Prvi članak	Last paper Zadnji članak	No. of papers Br. članaka
Istrefi, L.:	1981	1991	6
Ivković, M.:	1993	1993	1
Jankov, S.:	1985	1987	4
Jelenković, B.:	1990	1992	3
Jevremović, D.:	1993	1993	1
Jovičić, Z.:	1991	1991	1
Kajzer, M.:	1978	1978	1
Karabin, M.:	1987	1992	3
Kljajić, S.:	1989	1989	1
Knežević, V.:	1978	1978	1
Kobilarov, R.:	1982	1993	18
Koković, M.:	1975	1975	1
Koledin, D.:	1979	1979	1
Konjević, N.:	1969	1993	144
Konjević, R.:	1985	1992	8
Kostić, B.:	1977	1977	1
Kršljanin, V.:	1984	1993	45
Kubičela, A.:	1986	1993	11
Labat, J. M.:	1968	1993	67
Labat, O.:	1980	1991	10
Lakićević, I. S.:	1973	1985	57
Logožar, R.:	1988	1988	2
Lokner, V.:	1980	1983	2
Malešević, M.:	1989	1989	1
Manola, S.:	1982	1989	6
Marić, Z.:	1976	1976	1
Marinković, M.:	1991	1991	1
Marinković, M. D.:	1964	1964	1
Marković--			
Kršljanin, S.:	1990	1991	2
Kuraica, M.:	1990	1992	3
Mićunović, J.:	1974	1974	1
Mihajlov, A. A.:	1983	1992	10
Mijatović, Z.:	1987	1993	15

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Name Ime	First paper Prvi članak	Last paper Zadnji članak	No. of papers Br. članaka
Mijović, S.:	1986	1988	3
Miler, D.:	1970	1973	3
Milosavljević, M.:	1987	1991	6
Milošević, S.:	1981	1990	32
Milošević, Z.:	1976	1976	1
Mitrović, V.:	1970	1971	2
Modrič, D.:	1986	1990	8
Movre, M.:	1976	1990	44
Nikolić, B.:	1991	1991	1
Nikolić, D.:	1993	1993	1
Palle, M.:	1986	1986	1
Panić, K.:	1980	1980	1
Panić, Z.:	1991	1991	1
Pantelić, D.:	1989	1989	1
Pavlov, M.:	1968	1993	22
Paunović, D. R.:	1990	1990	1
Pavlović, M. S.:	1991	1991	1
Pavlović, N. Z.:	1991	1991	1
Petrović, Z. Lj.:	1990	1992	2
Pichler, G.:	1970	1991	112
Pivalica, S.:	1991	1993	3
Platiša, M.:	1970	1993	60
Popović, L. Č.:	1991	1993	15
Popović, M. M.:	1973	1992	11
Popović, M. V.:	1972	1989	19
Popović, S.:	1975	1975	1
Pružljanin, G.:	1993	1993	1
Purić, J. M.:	1968	1993	125
Racković, I.:	1990	1990	1
Radivojević, D.:	1970	1971	2
Radovanov, S.:	1990	1991	2
Radujkov, V.:	1975	1986	4
Rathore, B.:	1982	1987	16
Rukavina, J.:	1980	1980	1



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Ruždjak, V.:	1974	1987	8
Škovrlj, Lj. .	1978	1991	3
Skuljan, J.:	1990	1993	5
Skuljan, Lj.:	1993	1993	3
Sotirovski, P.:	1987	1992	2
Srečković, A.:	1986	1993	54
Stanković, D.:	1990	1990	1
Stanković, N.:	1991	1991	1
Stefanović, I. M.:	1990	1993	4
Šternberg, Z. W.:	1978	1978	1
Stojanović, V.:	1992	1992	1
Stokić, Z.:	1992	1992	1
Sušić, R.:	1973	1973	1
Terzić, M.:	1975	1987	5
Urošević, V.:	1973	1973	1
Todorović, K. N.:	1991	1992	2
Tonejc, A.:	1970	1972	5
Uzelac, N. I.:	1985	1993	17
Vadla, Č.:	1972	1986	19
Velikić, Z. B.:	1991	1991	1
Veža, D.:	1978	1990	48
Vince, I.:	1983	1993	30
Vrhovac, S.:	1991	1992	2
Vujičić, B. T.:	1982	1993	17
Vujnović, V.:	1962	1991	19
Vujović, O.:	1974	1974	1
Vukičević, D.:	1983	1985	3

III. 3. Index of Yugoslav authors and their coauthors

Indeks Jugoslovenskih autora i njihovih koautora

- Abadie, D.: 289, 290.  
Acinger, K.: 46.  
Arsenijević, J.: 446, 447, 504, 528, 558, 861.  
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**III. 4. Abbreviations --- Skraćenice**

- AIAAJ --- American Institute of Aeronautics and Astronautics Journal  
AIP --- American institute of Physics  
Ann. Phys. Suppl. --- Annales de Physique Supplement  
CCP/7 --- Collaborative Computational Project No 7  
C. R. H. Acad. Sci. --- Comptes Rendus Hebdomadaires de l'Academie des Sciences  
DIAM --- Dynamique des Ions, Atomes et Molecules  
ECAMP --- European Conference on Atomic and Molecular Physics  
ECAP --- European Conference on Atomic Physics  
ECR --- Electron Cyclotron Resonance  
EGAS --- European Group for Atomic Spectroscopy  
ERAM --- European Regional Astronomy Meeting  
ERMA --- European Regional Meeting on Astronomy  
ESCAMPIG --- European Study Conference on Atomic and Molecular Physics of Ionized Gases  
ETF --- Elektrotehnički fakultet  
IAU --- International Astronomical Union  
ICPIG --- International Conference on the Physics of Ionized Gases  
ICSLS --- International Conference on Spectral Line Shapes  
IVTAN --- Institut Vysokikh Temperatur Akademii Nauk  
JETP --- Journal of Experimental and Theoretical Physics  
JQSRT --- Journal of Quantitative Spectroscopy and Radiative Transfer  
LGU --- Leningradskij Gosudarstvenij Universitet  
(Kongres) MFAJ --- (Kongres) Matematičara fizičara i astronoma Jugoslavije  
NBS --- National Bureau of Standards  
NIST --- National Institute of Standards and Technology  
PMF --- Prirodno-matematički fakultet  
Sing. J. Phys. --- Singaporean Journal of Physics  
SPIG --- Symposium on the Physics of the Ionized Gases  
Z. Naturforsch. --- Zeitschrift für Naturforschung  
Z. Physik --- Zeitschrift für Physik

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