

**List of main publications in which the results were obtained using the ATOM program system.**

**1. Monographs**

№ п/п	Authors	Title	Type	Name of publishers or title of journal (year, volume, page)	Num ber of pages
1.	M. Ya. Amusia	Many-Particle Effects in Atomic Electron Shells	Monog raphy	A. F. Ioffe Physical- Technical Institute, USSR Acad. Sci., Leningrad, 1968	144
2.	M. Ya. Amusia, L. V. Chernysheva	Automatic system of atomic structure investigations (in Russian, Автоматизированная система исследования структуры атомов)	Monog raph	«Nauka», Leningrag, 1983	180
3.	М. Я. Амусья	Atomic Photoeffect (in Russian, Атомный фотоэффект)	Monog raph	«Nauka», Moscow, 1987	272
4.	M. Ya. Amusia	Atomic Photoeffect	Monog raph	Plenum Press, New- York-London, 1990	303
5.	M. Ya. Amusia, L. V. Chernysheva	Computation of atomic processes	Monog raph	Institute of physics Publishing, Bristol and Philadelphia, 1997	253
6.	M. Ya. Amusia, V. K. Ivanov, N. A. Cherepkov, L. V. Chernysheva	Theory of multielectron effects in atomic processes (in Russian, Теория многоэлектронных эффектов в атомных процессах)	Monog raph	Ioffe Institute, St. Petersburg, 2001	92
7.	M. Ya. Amusia, V. K. Ivanov, N. A. Cherepkov, L. V. Chernysheva	Processes in many- electron atoms (in Russian, Процессы в многоэлектронных атомах)	Monog raph	«Nauka», St. Petersburg, 2006	325
8.	M. Ya. Amusia, L. V. Chernysheva, V. G. Yarzhevsky	Photon absorption, electron scattering, vacancy decay (atomic data) (in Russian: Поглощение фотонов, рассеяние электронов, распад вакансий (атомные данные))	Monog raph	«Nauka», St. Petersburg, 2010.	313
9.	M. Ya. Amusia, L. V. Chernysheva, V. G. Yarzhevsky	Handbook of theoretical Atomic Physics, Data for photon absorption, electron scattering, vacancies decay	Monog raph	Springer, Berlin, 2012	806

10.	V. K. Ivanov, A. N. Ipatov, R. G. Poloskov	Quantum many-body theory (in Russian, Квантовая теория многих тел)	Tutorial.	Polytechnic University Publishing House, St. Petersburg 2013.	177
11.	M. Ya. Amusia, L. V. Chernysheva, S.K.Semenov	ATOM-M. Algorithms and programs for the study of atomic and molecular processes (in Russian, АТОМ-М. Алгоритмы и программы для исследования атомных и молекулярных процессов)	Monograph	«Science», St. Petersburg, 2016.	545
12.	M. Ya. Amusia, L. V. Chernysheva	Computation of Atomic and Molecular Processes: Introducing the ATOM-M Software Suite.	Monograph	Springer Series on Atomic, Optical, and Plasma Physics. Volume 117, 2021	456

## 2. Published articles, book chapters, reports and texts, as well as fundamentally important preprints.

№ п/п	Authors	Title	Type	Name of publishers or title of journal (year, volume, page)	Number of pages
13.	M. Ya. Amusia, M. P. Kazachkov	On the Double Ionization Mechanism	Paper	Phys. Let. A, <b>28</b> , 1, p. 27, 1968	
14.	M. Ya. Amusia, N. A. Cherepkov, L. V. Chernysheva , S. I. Sheftel	Ar Photoionization Cross-Section Calculation in the Hartree-Fock Approximation	Paper	J. Exp. Theor. Phys. (USSR Acad. Sci.), <b>6</b> , p. 1897, 1969	
15.	M. Ya. Amusia, N. A. Cherepkov, L. V.Chernysheva, S. I. Sheftel	On Atomic Photoionization Cross Section Calculation	Paper	Phys. Let. A, <b>28</b> , 11, p. 726-727, 1969	2
16.	M. Ya. Amusia, N. A. Cherepkov, S. I. Sheftel	Inelastic Electron Scattering on the Noble-Gas Atoms	Paper	J. Exp. Theor. Phys. (USSR Acad. Sci.), <b>58</b> , 2, p. 618-623, 1970	6
17.	M. Ya. Amusia, L. V. Chernysheva N. A. Cherepkov	Many-Electron Correlations in Photoabsorption on M-Shell of Ar	Paper	Phys. Let. A, <b>31</b> , 10, p. 553, 1970	
18.	M. Ya. Amusia	Many-Electron Correlations in Atomic Electron Shells and Possible Ways of Their Experimental detection	Paper	in: <i>Atomic Physics II</i> , ed. P. Sandars, Plenum Press, London- New York, pp. 249-271, 1971	23

19.	M. Ya. Amusia, N.A. Cherepkov, L. V. Chernysheva	Noble-Gas Photoionization Cross Section with Many- Electron Correlations	Paper	J. Exp. Theor. Phys. (USSR Acad. Sci.), <b>60</b> , 1, p.160-174, 1971	15
20.	M. Ya. Amusia , N. A. Cherepkov, L. V. Chernysheva	Many-Electron Correlations and Their Influence on the Photoeffect	Invited talk	In: <i>Theory of Atomic and Molecular Electron Shells</i> , Mintis Publishing, Villnius, p. 376-378, 1971	3
21.	L. V. Chernysheva, N. A. Cherepkov	Programs for calculating atomic wave functions in the Hartree-Fock approximation. (in Russian, Программы вычисления атомных волновых функций в приближении Хартри- Фока)	Preprint	Ioffe Institute, № 337, Leningrad., 1971	60
22.	L. V. Chernysheva, M. Ya. Amusia , N. A. Cherepkov	Programs for calculating the photoionization cross section of atoms taking into account many- electron correlation (in Russian, Программы вычисления сечения фотоионизации атомов с учетом многоэлектронных корреляций)	Preprint	Ioffe Institute, № 375, Leningrad, 1971.	48
23.	M. Ya. Amusia, M. P. Kazachkov, N. A. Cherepkov	Many-Electron Correlations in the Processes of Inner Shell Vacancies Decay	Paper	Phys. Let. A, <b>39</b> , 2, p. 93, 1972	
24.	M. Ya. Amusia, N. A. Cherepkov, S. G. Shapiro	The Calculation of Multipole Polarizabilities and Van-der-Waals Force Constants	Paper	J. Exp. Theor. Phys. (USSR Acad. Sci.), <b>63</b> , 3(9), p. 889, 1972	
25.	M. Ya. Amusia, N. A. Cherepkov, L. V. Chernysheva	Angular Distribution of Photoelectrons with Many-Electron Correlations	Paper	Phys. Let. A, <b>40</b> , 1, p. 15, 1972	
26.	M. Ya. Amusia, N. A. Cherepkov, L. V. Chernysheva	Densities of Generalized Oscillator Strengths for Ar with the Inclusion of Correlations	Paper	Phys. Let. A, <b>40</b> , 1, p. 5, 1972	
27.	M. Ya. Amusia, V. K. Ivanov, N. A. Cherepkov, L. V. Chernysheva	Interference Effects of Noble-Gas Atoms Outer s-Subshell	Paper	Phys. Let. A, <b>40</b> , 5, p. 361, 1972	

28.	M. Ya. Amusia, N. A. Cherepkov, S. I. Sheftel, Zh. Zhivanovich, R. Yanev	The Role of Many-Electron Correlations in Fast Electron-Atom Inelastic Collisions	Paper	J. of Phys. B: At. Mol. Phys., <b>6</b> , p. 1028, 1973	
29.	M. Ya. Amusia, V. K. Ivanov, L. V. Chernysheva	Photoproduction of Kr <sup>+</sup> and Xe <sup>+</sup> Ions in the Vicinity of the Outer d-Subshell Threshold	Paper	Phys. Let. A, <b>43</b> , 3, p. 243, 1973	
30.	M. Ya. Amusia	Correlation Effects in Collision Processes	Invited talk	in: <i>The Physics of Electronic and Atomic Collisions</i> , VIII ICPEAC, invited lectures, ed. B. C. Chobić and M. N. Kurepa, Beograd, Yugoslavia, p. 172-204, 1973	
31.	M. Ya. Amusia, N. A. Cherepkov, L.V. Chernysheva, S. G. Shapiro	Elastic Scattering of Slow Electrons and Level Shifts in Ar	Paper	Phys. Let. A, <b>46</b> , 6, p. 387, 1974	
32.	M. Ya. Amusia, P. U. Arifov, A. S. Baltenkov, A. A. Grinberg, S. G. Shapiro	Calculation of Current Induced by Photon Momentum in Gaseous Ar	Paper	Phys. Let. A, <b>47</b> , 1, p. 66, 1974	
33.	M. Ya. Amusia, V. K. Ivanov, N. A. Cherepkov, L. V. Chernysheva	Intershell and Intersubshell Effects in Atomic Photoionization	Paper	J. Exp. Theor. Phys. (USSR Acad. Sci.), <b>66</b> , 5, p. 1537-1549, 1974	13
34.	N. A. Cherepkov, L. V. Chernysheva, V. Radojevic, I. Pavlin	Many-electron correlations in the photoionization of a Nitrogen atom	Paper	Canad. J. Phys. <b>52</b> , p. 349, 1974	
35.	M. Ya. Amusia, Zh. Zhivanovich, N. A. Cherepkov, R. Yanev	On the Problem of the Existence of Collective Oscillations in Atoms	Paper	J. of Phys. B: At. Mol. Phys., <b>7</b> , 57. p. 1435, 1974	
36.	M. Ya. Amusia	Effect of Many-Electron Correlations on Probability of Creation and Decay of Vacancies in Atoms	Invited talk	Physica Fennica, Supplement S1, <b>9</b> , Otaniemi, Finland, p. 349-359, 1974	11
37.	M. Ya. Amusia	Manifestation of Collective Behavior of Electron Shells in the Process of Photoionization	Invited talk	in: <i>Vacuum Ultraviolet Radiation Physics</i> , ed. by E. Koch, R. Haensel, C. Kunz, Hamburg, p. 205-224, 1974	20

38.	L. V. Chernysheva, M. Ya. Amusia, N. A. Cherepkov	Programs for calculating the photoionization cross section of atoms taking into account correlations in one and two transitions (in Russian, Программы вычисления сечения фотоионизации атомов с учетом корреляций в одном и двух переходах)	Preprint	Ioffe Institute, № 459, Leningrad, 1974.	60
39.	L. V. Chernysheva,	Software for calculating the interaction of photons and electrons with atoms (in Russian, Система математического обеспечения расчетов взаимодействия фотонов и электронов с атомами)	Paper	In: Theory of atoms and atomic spectra, Riga: LGU after P. Stuchki, part 2, p. 104, 1974	2
40.	M. Ya. Amusia, A. S. Baltenkov, A. A. Grinberg, S. G. Shapiro	Investigation of the Current due to Photon Momentum in Monoatomic Gases	Paper	J. Exp. Theor. Phys. (USSR Acad. Sci.), <b>68</b> , p. 28-35, 1975 (Sov. Phys.- JETP, <b>41</b> , 14, 1975)	8
41.	M. Ya. Amusia, N. A. Cherepkov, A. Tanchich, S. G. Shapiro, L. V. Chernysheva	Slow Electron-Atom Elastic Scattering	Paper	J. Exp. Theor. Phys. (USSR Acad. Sci.), <b>68</b> , 6, p. 2023-2031, 1975	9
42.	M. Ya. Amusia, N. B. Berezina, L. V. Chernysheva	Single Ionization of Xe by Fast Electrons in the Vicinity of the $4d^{10}$ Subshell Threshold	Paper	Phys. Let. A, <b>51</b> , 2, p. 101-102, 1975	2
43.	M. Ya. Amusia, A. S. Baltenkov	Electron Entrainment in Deceleration by Light Absorption	Paper	J. Exp. Theor. Phys. (USSR Acad. Sci.), <b>69</b> , 2(8), p. 547-554, 1975; Sov. Phys.- JETP, <b>42</b> , 279, 1975	8
44.	M. Ya. Amusia, N. A. Cherepkov	Many-Electron Correlations in the Scattering Processes	Paper	Case Studies in Atomic Physics, North-Holland Publishing Company, <b>5</b> , 2, p. 47-179, 1975	133

45.	L. V.Chernysheva, N. A. Cherepkov, V. Radojevic.	System ATOM, 1. Program for solving the equations of the self- consistent Hartree-Fock field for atoms (in Russian, Система АТОМ, 1. Программа решения уравнений самосогласованного поля Хартри-Фока для атомов)	Preprint	Ioffe Institute, № 486, Leningrad, 1975	32
46.	L. V.Chernysheva, N. A. Cherepkov, V. Radojevic.	ATOM system, II. The program for calculating the Hartree-Fock wave functions of discrete and continuous spectra in the field of the "frozen" core (in Russian, Программа вычисления хартри- фовских волновых функций дискретного и непрерывного спектров в поле «замороженного» остова)	Preprint	Ioffe Institute, № 487, Leningrad, 1975	35
47.	L. V. Chernysheva, M. Ya. Amusia , S. I. Sheftel'	ATOM system, III. Program for calculating generalized oscillator strengths taking into account correlations in one transition (in Russian, Система АТОМ, III. Программа вычисления обобщенных сил осцилляторов с учетом корреляций в одном переходе)	Preprint	Ioffe Institute, № 493, Leningrad, 1975	56
48.	L. V. Chernysheva, M. Ya. Amusia , S. I. Sheftel'	ATOM IV - Program for calculating generalized oscillator strengths taking into account correlations in two transitions (in Russian, АТОМ IV - Программа вычисления обобщенных сил осцилляторов с учетом корреляций в двух переходах)	Preprint	Ioffe Institute, № 495, Leningrad, 1975	53

49.	M. Ya. Amusia, Zh. Zhivanovich, V. Radojevich and N. A. Cherepkov	Photoabsorption for Helium, Lithium and Beryllium Atoms in the RPAE	Paper	Phys. Rev. A, <b>13</b> , p. 1466-1474, 1976	9
50.	M. Ya. Amusia, V. K. Ivanov and S. A. Sheinerman	Intershell Correlations in the Inelastic Scattering of Fast Electrons on the Outer Subshells in Ar and Xe	Paper	J. of Phys. B: At. Mol. Phys., <b>9</b> , 9, p. 1537-1553, 1976	7
51.	M. Ya. Amusia and S. I. Sheftel	The Calculation of Photoionization Cross Section of $4d^{10}$ Subshell of La Atom	Paper	Phys. Let. A, <b>55</b> , 8, p. 469-471, 1976	3
52.	M. Ya. Amusia, V. K. Ivanov, S. A. Sheinerman	The Generalized Oscillation Strengths of Discrete Excitations in Xe $5s^2$ Subshell	Paper	J. Tech. Phys. (USSR Acad. Sci.), <b>46</b> , 10, p. 2207, 1976	
53.	M. Ya. Amusia, V. K. Ivanov, M. Yu. Kuchiev	Random-Phase Method in Investigating the Autoionizing States	Invited talk	in: <i>Autoionization Atomic Phenomena</i> , Proc. Sci. Workshop, p. 68-75 (June 2-4, 1975), Moscow, 1976	
54.	M. Ya. Amusia, A. S. Baltenkov, and A. A. Paiziev	Electron-Atom Bremsstrahlung with Allowance for Polarizability	Paper	Letters to J. Exp. Theor. Phys. (USSR Acad. Sci.), <b>24</b> , 6, p. 366-369, 1976	4
55.	M. Ya. Amusia	The Effect of Outer Atomic Shell Rearrangement on the Generalized Oscillator Strength of the Inner Shells	Paper	in: <i>Physics of Ionized Gases</i> (ed. B. Navincheck), University of Ljubljana, Yugoslavia, 1-14, 1976	14
56.	Zh. Zhivanovich, V. Radojevich, M. Ya. Amusia, and N. A. Cherepkov	Generalized Oscillator Strength and its First Derivative for Helium Atom in the Optical Limit	Paper	J. of Phys. B: At. Mol. Phys., <b>9</b> , 16, p. L469-472, 1976	4
57.	M. Ya. Amusia, N. A. Cherepkov, L. V. Chernysheva, S. G. Shapiro	The Elastic Scattering of Slow Positrons on He Atom	Paper	J. of Phys. B: At. Mol. Phys., <b>9</b> , 17, p. L531-534, 1976	4
58.	M. Ya. Amusia, V. K. Ivanov, L. V. Chernysheva	Photoionization Cross Section of $4d^{10}$ Xe, Cs and Ba Subshells with Account of Electron Shell Rearrangement	Paper	Phys. Let. A, <b>59</b> , p. 191-193, 1976	3
59.	L. V. Chernysheva, N. A. Cherepkov, V. Radojevic	Self-consistent field Hartree-Fock program for atoms	Paper	Comp. Phys. Commu n. <b>11</b> , p. 57-73, 1976	17

60.	L. V. Chernysheva, M. Ya. Amusia, S.G. Shapiro	System ATOM, V. Program for calculating the diagonal matrix element of the self energy part of the one-particle Green's function (in Russian: Система АТОМ, V. Программа вычисления диагонального матричного элемента собственно энергетической части одночастичной функции Грина)	Paper	Ioffe Institute № 504, Leningrad, 1976.	38
61.	M. Ya. Amusia and V. K. Ivanov	The Peculiarities of Photoelectron Angular Distribution and Ionization Cross Section of 5p Subshell in Xe	Paper	Phys. Let. A, <b>59</b> , 3, p. 194-196, 1976	3
62.	M. Ya. Amusia, I. S. Lee, . N. Zinoviev	Single Photon Decay of Double Hole States in Atoms	Paper	Phys. Let. A, <b>60</b> , 4, p. 300-302, 1977	3
63.	N. A. Cherepkov, L. V. Chernysheva	Random phase approximation with exchange for open-shell atom	Paper	Physics Letters A, 60, 2, p. 103, 1977	
64.	M. Ya. Amusia, I. S. Lee, E. I. Cheglovkov, L.V. Chernysheva	Raman effect of light on argon atoms	Paper	Izv. of Higher Education Institutes, Physics (USSR Higher Education), <b>1</b> , p. 36-42, 1977	7
65.	L.V. Chernysheva	Software package for atomic calculations (in Russian: Пакет прикладных программ для проведения атомных расчетов)	Paper	Izvestia of the USSR Academy of Sciences, ser. Physical, 41, 12, p.2665, 1977	
66.	N. A. Cherepkov, L. V. Chernysheva	The photoionization cross section of the chlorine atom in the random phase approximation with exchange (in Russian: Сечение фотоионизации атома хлора в приближении случайных фаз с обменом)	report	Izvestia of the USSR Academy of Sciences, ser. Physical, 41, 12, p.2518-2528, 1977	11



67.	N. A. Cherepkov, L. V. Chernysheva	Oscillator Forces and Photoionization Cross Section in the HF and RPAE Approximations (in Russian: Силы осцилляторов и сечение фотоионизации в приближении ХФ и RPAE)	report	In: "Spectroscopic constants of atoms", M.: Scientific Council on Spectroscopy, p 253, 1977	
68.	M. Ya. Amusia, Zh. Zhivanovich, I. Pavlin, V. Radojevich, N. A. Cherepkov	Photoabsorption for Sodium and Magnesium Atoms in the Random-Phase Approximation with Exchange	Paper	J. of Phys. B: At. Mol., Phys., <b>10</b> , 8, p. 1413-1423, 1977	11
69.	M. Ya. Amusia, V. K. Ivanov	Peculiarities of Electron Angular Distribution in 5p <sup>6</sup> Shells of Xe, Cs and Ba. Modern Theory of Atoms and Atomic Spectra	Report	Abstracts of Papers to All-Union Conference, Leningrad, 1977, p. 26-28, 1977	3
70.	M. Ya. Amusia	The Ionization of Inner Shells of Atoms with Account of Outer Shell Rearrangement	Invited talk	in: <i>Atomic Physics</i> <b>5</b> , Plenum Press, New York-London, p. 537-565, 1977	29
71.	M. Ya. Amusia, S. A. Sheinerman, S. I. Sheftel	The Generalized Oscillation Strengths of Inner Atomic Shells with Allowance for Outer-Shell Rearrangement	Paper	J. Tech. Phys. (USSR Acad. Sci.), <b>47</b> , 7, p. 1432- 1441, 1977	10
72.	M. Ya. Amusia I. S. Lee	Single-Photon Decay of Two-Hole Atomic States	Paper	J. Exp. Theor. Phys. (USSR Acad. Sci.), <b>73</b> , 2(8), p. 430-437, 1977	8
73.	M. Ya. Amusia, N. A. Cherepkov, V. Radojevich	Photoionization Cross Section Calculations for 4d <sup>10</sup> Subshell of In in the RPAE	Paper	Phys. Let. A, <b>60</b> , 1, p. 24-26, 1977	3
74.	M. Ya. Amusia, M. Yu. Kuchiev, S. A. Sheinerman, S. I. Sheftel	Intershell Correlations in the Formation of Single Charged Ions Near the Ar L-Shell Ionization Threshold	Paper	J. of Phys. B: At. Mol. Phys., <b>10</b> , 14, p. L535-539, 1977	5
75.	M. Ya. Amusia, I. S. Lee, S. I. Sheftel	Photoionization of Excited States in Ar and Xe Atoms	Paper	Izv. USSR Acad. Sci., Ser. Fiz., <b>41</b> , 12, p. 2529-2537, 1977	9
76.	M. Ya. Amusia and V. K. Ivanov	Peculiarities of Photoelectron Angular Distribution	Paper	Izv. USSR Acad. Sci., Ser. Fiz., <b>41</b> , 12, p. 2509-2517, 1977	9

77.	L. V. Chernysheva, M. Ya. Amusia, V. K. Ivanov, S. G. Shapiro	ATOM system, VI. A program for calculating the width of atomic levels relative to Auger decay taking into account many-electron correlations (In Russian: Система АТОМ, VI. Программа вычисления ширины атомных уровней относительно оже- распада с учетом многоэлектронных корреляций)	Preprint	Ioffe Institute, № 536, Leningrad, 1977	52
78.	M. Ya. Amusia and V. K. Ivanov	On the Existence of a Collective Level in Xe Atom	Paper	Phys. Let. A, <b>65</b> , 3, p. 217-219, 1978	3
79.	M. Ya. Amusia	Modern Status of the Atomic Photoeffect Theory	Invited talk	Physics of Electronic and Atomic Collisions, Moscow University Publishing, p. 3-26, 1978	24
80.	M. Ya. Amusia, V. K. Ivanov, V. K. Dolmatov	Giant Autoionization in Mn Atom	Paper	Letters to J. Tech. Phys. (USSR Acad. Sci.), <b>4</b> , 21, p. 1305- 1309, 1978	5
81.	E. G. Berezhko, V. K. Ivanov, N. M. Kabachnik	The effect of many- electron correlations on the alignment of ions in atomic photoionization	Paper	Physics Letters A 1978, V. 66A, n.6, P. 474-475	2

82.	L. V. Chernysheva, M. Ya. Amusia, V. Radoevich, N. A. Cherepkov	ATOM VII system. -. The program for calculating the photoionization cross section of the atomic and optical forces of oscillators in the Hartree-Fock approximation and taking into account many-electron correlations in one transition. (In Russian: Система АТОМ VII. -. Программа вычисления сечения фотоионизации атома и оптических сил осцилляторов в приближении Хартри-Фока и с учетом многоэлектронных корреляций в одном переходе)	Preprint	Ioffe Institute № 589, Leningrad, 1978	50
83.	V. K. Ivanov, S. Yu. Medvedev, V. A. Sosnivker	Multiparticle photoionization of the $4f^{14}$ , $5s^2$ , $5p^6$ , $5d^{10}$ and $6s^2$ shells of the mercury atom (In Russian: Многочастичный характер фотоионизации $4f^{14}$ , $5s^2$ , $5p^6$ , $5d^{10}$ и $6s^2$ оболочек атома ртути)	Preprint	Ioffe Institute № 615, Leningrad, 1979	28
84.	M. Ya. Amusia	Single-Photon and Single-Electron Decay of Double Vacancy States in Atoms	Paper	Comments on Atomic and Molecular Physics, <b>9</b> , 1, p. 23-34, 1979	12
85.	M. Ya. Amusia	The Manifestation of Intershell Interaction in the Process of Atomic Photoionization	Paper	Comments on Atomic and Molecular Physics, <b>VIII</b> , 3-4, p. 61-71, 1979	11
86.	M. Ya. Amusia and S. A. Sheinerman	Single-Electron Ionization of Ar $3s^2$ Subshell by Slow Electrons	Paper	J. of Phys. B: At. Mol. Phys., <b>12</b> , 4, p. 649-662, 1979	14
87.	M. Ya. Amusia, M. Yu. Kuchiev and S. A. Sheinerman	Near-Threshold Effects in the Atomic Ionization Processes (Post-Collision Interaction)	Paper	J. Exp. Theor. Phys. (USSR Acad. Sci.), <b>76</b> , 2, p. 470-481, 1979	12

88.	M. Ya. Amusia, V. V. Afrosimov, S. V. Bobashev, L. A. Shmaenok, S. A. Sheinerman	Two-Step He Photoionization via the excited 4p <sup>1</sup> P State	Paper	J. Exp. Theor. Phys. (USSR Acad. Sci.), <b>76</b> , 3, p. 873-886, 1979	14
89.	L. V. Chernysheva, N. A. Cherepkov, V. Radojevic	Frozen-core Hartree-Fock program for atomic discrete and continuum states	Paper	Comp.Phys.Commu n. 18,p.87, 1979	
90.	M. Ya. Amusia, I. S. Lee, L. V. Chernysheva	Combination Scattering of Light on Complex Atoms	Paper	J. Tech. Phys. (USSR Acad. Sci.), <b>49</b> , 4, p. 710-719, 1979	10
91.	M. Ya. Amusia, Zh. Zhivanovich, V. Radojevic, N. A. Cherepkov	Generalized Oscillator Strength for Beryllium Atom in the Random Phase Approximation with Exchange	Paper	Journal of Chemical Physics, <b>71</b> , 4 p. 1761-1766, 1979	6
92.	M. Ya. Amusia	Photoionization Cross Section and Oscillator Strengths Calculation	Invited talk	In: <i>Progress in Spectroscopy</i> , 18 Spectroscopy Congress, Gor'ky, part 1, p. 73-86, 1979	14
93.	M. Ya. Amusia, M. Yu. Kuchiev, S. A. Sheinerman	The Post-Collision Interaction as a Manifestation of Many- Electron Correlations	Invited talk	in: <i>Coherence and Correlations in Atomic Collisions</i> , eds. H. Kleinpoppen and J. F. Williams, Plenum Press, New York and London, p. 297-313, 1980	17
94.	M. Ya. Amusia, V. K. Ivanov, S. A. Sheinerman, S. I. Sheftel	Manifestation of Atomic Electron Shell Rearrangement in the Ionization Processes	Paper	J. Exp. Theor. Phys. (USSR Acad. Sci.), <b>78</b> , 3, p. 910-923, 1980	14
95.	V. G. Yarzhemsky V. I. Nefedov, M. Ya. Amusia, N. A. Cherepkov, L. V. Chernysheva	Relative Intensities in X- Ray Photoelectron Spectra. VI. The Spectra of HeI, HeII	Paper	Journal of Electron Spectroscopy and Related Phenomena, <b>19</b> , 1-2, p. 123- 154,1980	32
96.	V. I. Nefedov, M. Ya. Amusia, N. A. Cherepkov, L. V. Chernysheva, V. G. Yarzhemsky	Relative Intensities in Photoelectron Spectra He(I) and He(II) of Molecules	Paper	J. Struct. Chem. (USSR), <b>22</b> , 5, p. 180- 182, 1980	3
97.	N. A. Cherepkov, L. V. Chernysheva	Capture of mu-mesons by He atoms (In Russian: Захват мю- мезонов атомами He)	Paper	Soviet Journal of Nuclear Physics- USSR, V. 32, 3, P. 366-371	11

98.	M. Ya. Amusia, V. K. Dolmatov	Electron Entrainment by Resonance Frequency Light	Paper	J. Exp. Theor. Phys. (USSR Acad. Sci.), <b>79</b> , 5(11), p. 1664- 1670, 1980	7
99.	M. Ya. Amusia	Rearrangement Effects in Photoionization	Paper	Applied Optics, <b>19</b> , 23, p. 4042-4050, 1980	9
100.	M. Ya. Amusia, V. K. Ivanov, V. K. Dolmatov	Electron Entrainment by Resonance-Frequency Light	Paper	Letters to J. Tech. Phys., <b>6</b> , 23, p. 1465- 1467, 1980	3
101.	V. K. Ivanov, L. V. Chernysheva	Automation and standardization of atomic calculations (In Russian: Автоматизация и стандартизация атомных расчетов)	Paper- report	Proceedings of the X All-Union Meeting on the Physics of Interaction of Charged Particles with Crystals. Part 2. Ed. Moscow State University, p.575- 580, 1980	6
102.	L. V. Chernysheva, M. Ya. Amusia, D. Davidovich, N. A. Cherepkov	ATOM VIII System - a program to calculate the phase shifts in a simplified random phase approximation with exchange (In Russian: Система АТОМ VIII – Программа вычисления фаз рассеяния в упрощенном приближении случайных фаз с обменом)	Preprint	Ioffe Institute, № 663, Leningrad, 1980	48
103.	M. Ya. Amusia, L. V. Chernysheva, S. A. Sheinerman	The Influence of Inner Shells upon the Angular Distribution of Kr 4p- Photoelectrons	Paper	Phys. Let. A, <b>82</b> , 4, p. 171-173, 1981	3
104.	M. Ya. Amusia	Collective Effects in Photoionization of Atoms	Review	in: <i>Advances in Atomic and Molecular Physics</i> , ed. Bates, Academic Press, <b>17</b> , p. 1-54, 1981	54
105.	M. Ya. Amusia, V. K. Ivanov, L. V. Chernysheva	Peculiarities of the Photoionization Cross Section of the Mn Atom	Paper	J. of Phys. B: At. Mol. Phys., <b>14</b> , p. L19-23, 1981	5

106.	M. Ya. Amusia, A. S. Kheifets	The Influence of "Two-Electron-Two Hole" Excitations on the $3s^{-1}4p$ Autoionization Profile in Ar Atom	Paper	Phys. Let. A, <b>82</b> , 8, p. 407-411, 1981	5
107.	M. Ya. Amusia	A New Type of Atomic Electron Collectivization: "Melting" of Shells	Paper	Comments on Atomic and Molecular Physics, <b>10</b> , 5, p. 179-190, 1981	12
108.	M. Ya. Amusia, V. K. Dolmatov, K. Ivanov, S. I. Sheftel	Giant Autoionization of the Atoms with Semi-Occupied Shells	Short review	in: <i>Autoionization Phenomena in Atoms</i> , Proc. II Scientific Workshop, Moscow State University Publishing (MSU Publ.), p. 235-242, 1981	8
109.	M. Ya. Amusia V. K. Dolmatov	Autoionization Resonance Manifestation in the Processes of Electron Entrainment by Photons	Invited talk	Proc. II Scientific Workshop, MSU Publ., p. 118-124, 1981	7
110.	M.Ya. Amusia, A. S. Kheifets	Influence of "Two Electrons - Two Holes" Excitations on the Autoionization $3s^{-1} - np$ Profile Shape in Ar	Invited talk	Proc. II Scientific Workshop, MSU Publ., p. 110-117, 1981	8
111.	M. Ya. Amusia, S. V. Bobashev, S. A. Sheinerman	Influence of $2p^4 (^1D) 4p^2 (^1S^1D)$ Autoionization State in Ne on the Ne II 40.71 nm Line Intensity Emitted in the $Na^+ + Ne$ Collisions	Invited talk	Ibid., p. 302-309, 1981	8
112.	V. I. Nefedov, V. G. Yarzhemsky, M. Ya. Amusia, N. A. Cherepkov L. V. Chernysheva	Relative Intensities in X-Ray Photoelectron Spectra, VIII	Paper	Journal of Electron Spectroscopy and Related Phenomena, <b>23</b> , No. 2-3, p.175-186, 1981	12
113.	M. Ya. Amusia, L. V. Chernysheva S. I. Sheftel	Nature of the Giant Resonance in Photoionization Cross Section of Eu Atom	Paper	J. Tech. Phys., Short Communications (USSR Acad. Sci.), <b>51</b> , 11, p. 2411, 1981	
114.	M. Ya. Amusia, V. K. Ivanov V. A. Kupchenko	Photoionization of Inner Shells	Paper	J. of Phys. B: At. Mol. Phys., <b>14</b> , 21, p. L667-671, 1981	5
115.	M. Ya. Amusia	Collective Effects in an Isolated Atom	Paper	Izv. USSR Acad. Sci., Ser. Fiz., <b>45</b> , 12, p. 2242-2254, 1981	13

116.	L. V. Chernysheva, N. A. Cherepkov S. I. Sheftel	ATOM IX system. The program for calculating the coefficients in the Hartree-Fock equations Система АТОМ IX. (In: Программа вычисления коэффициентов в уравнениях Хартри-Фока)	Preprint	Ioffe Institute № 760, Leningrad, 1981	28
117.	L. V. Chernysheva	Complex of programs for the automation of atomic calculations (In Russian: Комплекс программ для автоматизации атомных расчетов)	Preprint	Leningrad Research Center of the USSR Academy of Sciences,, 1981	80
118.	M. Ya. Amusia	"Atomic" Bremsstrahlung Spectrum	Paper	Comments on Atomic and Molecular Physics, <b>11</b> , 3-5, p. 123-137, 1982	15
119.	M. Ya. Amusia, L. V. Chernysheva, N. A. Cherepkov, D. M. Davidovich, V. Radojevich	Slow Electron Elastic Scattering on Argon	Paper	Phys. Rev. A, <b>25</b> , 1, p. 219-225, 1982	7
120.	M. Ya. Amusia, A. S. Kheifets	The Photoelectron Angular Distribution $\beta$ -Parameter in the Region of $3s^{-1}$ - $4p$ Resonance in Argon	Paper	Phys. Let. A, <b>89</b> , 9, p. 437-440, 1982	4
121.	L. V. Chernysheva, M. Ya. Amusia, S. A. Sheinerman	ATOM, X system Program for calculating the cross section for the excitation of triplet levels by electrons in the second order of the distorted wave method (In Russian: Система АТОМ, X Программа вычисления сечения возбуждения триплетных уровней электронами во 2 порядке метода искаженных волн)	Preprint	Ioffe Institute № 776, Leningrad, 1982	32

122.	L. V. Chernysheva	Organization and capabilities of a complex of programs for carrying out atomic calculations (In Russian: Организация и возможности комплекса программ для проведения атомных расчетов)	Paper	In: Information and computational problems of scientific research automation, Moscow: Nauka, p. 115-120, 1983	6
123.	N. B. Avdonina M. Ya. Amusia	Excitation of 1P and 3P Levels of Mg Atom by Electron Impact	Paper	J. Tech. Phys. (USSR Acad. Sci.), <b>53</b> , 2, p. 341-347, 1983	7
124.	M. Ya. Amusia	Collective Effects in Isolated Atoms (Many Body Aspects of Photoionization Process)	Invited talk	in: <i>Atomic Physics</i> <b>8</b> , ed. I. Lindgren, A. Rosen and S. Svanberg, Plenum Press, New York-London, p. 287-304, 1983	8
125.	N. B. Avdonina, M. Ya. Amusia	Characteristic Features in Photoionization of Excited Atomic States	Paper	J. of Phys. B: At. Mol. Phys., <b>16</b> , 18, p. L543-545, 1983	3
126.	M. Ya. Amusia, V. K. Dolmatov, V. K. Ivanov	Photoionization of Atoms with Half-Filled Shells		J. Exp. Theor. Phys. (USSR Acad. Sci.), <b>85</b> , 1, p. 115-123, 1983	9
127.	M. Ya. Amusia, V. K. Dolmatov, V. K. Ivanov	Energy Levels and Probabilities of the Transitions in Atoms with Half-Filled Shells	Invited talk	in: <i>Energy Levels and Probabilities of Transitions in Atoms and Ions</i> , M., ed. U. I. Safronova, Moscow, p. 5-28, 1983	24
128.	M. Ya. Amusia, V. K. Dolmatov, V. K. Ivanov, S. G. Shapiro	Angular Distribution of 3p-Photoelectrons in Cr and Mn	Paper	J. of Phys. B: At. Mol. Phys., <b>16</b> , 24, p. L753-756, 1983	4
129.	L. V. Chernysheva, M. Ya. Amusia, N. B. Avdonina, M. Yu. Kuchiev	System ATOM, XIII - Program for calculating the spectrum of "atomic" bremsstrahlung of fast electrons (in Russian: Система АТОМ, XIII - Программа вычисления спектра «атомного» тормозного излучения быстрых электронов)	Preprint	Ioffe Institute, № 865, Leningrad, 1983	46
130.	M. Ya. Amusia, V. Kilin, I. S. Lee	Double Auger-Decay of two K-Vacancies in Ne	Paper	J. Tech. Phys. (USSR Acad. Sci.), <b>54</b> , 5, p. 990-992, 1984	3



131.	M. Ya. Amusia	Interaction of Complex Atoms with Radiation	Paper	Izv. USSR Acad. Sci., Ser. Fiz., <b>48</b> , 4, p. 642-650, 1984	9
132.	M. Ya. Amusia, L. V. Chernysheva, S. A. Sheinerman	Triplet $^3S$ Level Excitation by the Electrons of Low and Intermediate Energy	Paper	J. Tech. Phys. (USSR Acad. Sci.), <b>54</b> , 8, p. 1454-1464, 1984	11
133.	M. Ya. Amusia, V. A. Kilin, A. N. Kolesnikova, I. S. Lee	"Deepening" of Vacancies in Correlation Decays of Two-Hole Atomic States	Paper	Letters to J. Tech. Phys. (USSR Acad. Sci.), <b>10</b> , 17, p. 1029-1033; Sov. Tech. Phys. Lett., <b>10</b> , 9, p. 433-434, 1984	2
134.	L. V. Chernysheva, M. Ya. Amusia, N. A. Cherepkov, V. Radoevich	Program of Computing the Cross Section of Photoionization of Atoms	Paper	In: Automation systems in science and industry. Moscow: Science, p. 87-96, 1984	10
135.	M. Ya. Amusia	Many-Electron Effects in Photoionization of Intermediate and Inner Shells	Invited talk	International Conference on X-Ray and Inner-Shell Processes in Atoms, Molecules and Solids, X84, ed. A. Meisel, J. Finster, Leipzig, GDR, p. 33-50, 1984	18
136.	M. Ya. Amusia, A. N. Kolesnikova, I. S. Lee	Hypersatellite Transitions in Neon	Paper	J. Tech. Phys., Short Communications (USSR Acad. Sci.), <b>55</b> , 1, p. 39-41, 1985	3
137.	M. Ya. Amusia, V. A. Kilin, I. S. Lee	Three-Electron Auger-Decay in Atoms	Paper	Optics and Spectroscopy (USSR Acad. Sci.), <b>59</b> , 2, p. 261-264, 1985	4
138.	M. Ya. Amusia, N. B. Avdonina, M. Yu. Kuchiev, L. V. Chernysheva	Stripping of the Atom in Bremsstrahlung	Paper	J. of Phys. B: At. Mol. Phys., <b>18</b> , p. L791-796, 1985	6
139.	M. Yu. Kuchiev, S. A. Sheinerman	'The Post Collision Interaction in the inner-shell photoionization of Ar and Xe'	Paper	J. of Phys. B: At. Mol. Opt. Phys., <b>18</b> , 16, pp. L551 - L556, 1985	6
140.	M. Ya. Amusia, V. A. Kilin, A. N. Kolesnikova, I. S. Lee	Contrary Movement of Vacancies in Correlation Decays of Double Hole States	Paper	Letters to J. Tech. Phys. (USSR Acad. Sci.), <b>11</b> , 6, p. 343-346, 1985	4

141.	M. Ya. Amusia, V. K. Ivanov, V. A. Kupchenko	The Effect of Atomic Rearrangement on the Photoionization Cross Section for 3d Subshells of the Isoelectronic Xe Series	Paper	J. of Phys. B: At. Mol. Opt. Phys., <b>18</b> , 19, p. 3871-3879, 1985	9
142.	L. V. Chernysheva	Computational experiment in the study of the structure of atoms (in Russian Вычислительный эксперимент при исследовании структуры атомов)	Paper	In: Problems of automation of scientific and production processes, M.: Nauka, p.126-131, 1985	6
143.	M. Ya. Amusia, V. A. Sosnivker, N. A. Cherepkov, L. V. Chernysheva	Elastic Scattering of Slow Electrons on Ca Atom	Paper	J. Tech. Phys. (USSR Acad. Sci.), <b>55</b> , 12, p. 2304-2311, 1985	8
144.	M. Ya. Amusia, V. K. Ivanov	Photoionization of Complex Atoms	review	in: <i>Physics of Electron and Atomic Collisions</i> , Leningrad, p. 38-47, 1985	10
145.	A. S. Kheifets	Difference between the atomic ionization spectra in $(\gamma, e)$ and $(e, 2e)$ reactions	Paper	Sov. Phys. -JETP, 62(2):260-265, 1985.	
146.	L. V. Chernysheva, N. A. Cherepkov	System ATOM, XIV – Program for calculating the meson wave functions in the “frozen” core field and the meson capture cross section (in Russian: Система АТОМ, XIV. Программы вычисления волновых функций мезона в поле “замороженного” остова и сечения захвата мезона атомом)	Preprint	Ioffe Institute, №. 943, Leningrad, 1985	44
147.	L. V. Chernysheva, M. Ya. Amusia, V. A. Kilin I. S. Li	System ATOM, XV - Program for calculating the probability of double Auger decay (in Russian: Система АТОМ, XV - Программа вычисления вероятности двойного Оже-распада)	Preprint	Ioffe Institute, №. 944, Leningrad, 1985	25

148.	M. Ya. Amusia, V. A. Sosnivker, N. A. Cherepkov L. V. Chernysheva S. I. Scheftel	Elastic scattering of slow electrons by atoms and ions with one vacancy in a closed shell (In Russian: Упругое рассеяние медленных электронов на атомах и ионах с одной вакансией в замкнутой оболочке)	Preprint	Ioffe Institute, № 981. Leningrad, 1985	32
149.	N. B. Avdonina, M. Ya. Amusia, M. Yu. Kuchiev, L. V. Chernysheva	Bremsstrahlung of Fast Electrons on Atoms	Paper	J. Exp. Theor. Phys. (USSR Acad. Sci.), <b>56</b> , 2, p. 246-254, 1986	9
150.	M. Ya. Amusia, V. K. Dolmatov, V. K. Ivanov	Non-dipole Part of Angular Distribution of Photoelectrons and Entrainment Current in Atomic Vapor of Mn	Paper	J. Tech. Phys. (USSR Acad. Sci.), <b>56</b> , 1, p. 8-15; Sov. Phys. Tech. Phys. <b>31</b> , 1, p. 4-8, 1986	8
151.	M. Ya. Amusia, A. N. Kolesnikova, I. S. Lee,	Radiation of Dipole Quanta in "Forbidden" Transitions $n'l \rightarrow n'l \pm 3$	Paper	J. Tech. Phys., Short Communications (USSR Acad. Sci.), <b>56</b> , 7, p. 1428-1430; Sov. Phys. Tech. Phys. <b>31</b> , 7, p. 847-848, 1986	3
152.	M. Ya. Amusia, G. F. Gribakin, V. K. Ivanov, L. V. Chernysheva	Photodetachment from outer subshells of Negative Iodine Ion	Paper	Izv. USSR Acad. Sci., Ser. Phys., <b>50</b> , 7, p. 1274-1278, 1986	5
153.	M. Ya. Amusia, A. N. Kolesnikova, I. S. Lee	Radiation of Low-Energy Photons in Combined Decay of Two Vacancies	Paper	Izv. USSR Acad. Sci., Ser. Phys., <b>50</b> , 7, p. 1279-1284, 1986	6
154.	N. B. Avdonina, M. Ya. Amusia, M. Yu. Kuchiev, L. V. Chernysheva	Influence of the Atomic Structure on the Angular Distribution and Polarization of Bremsstrahlung	Paper	Izv. USSR Acad. Sci., Ser. Phys., <b>50</b> , 7, p. 1261-1266, 1986	6
155.	M. Ya. Amusia	Electron Entrainment by Photons	Обзорный доклад	In: <i>X-Ray and Electron Spectra and Chemical Bonding</i> , Vladivostok State University Publishing, Vladivostok, p. 88-97, 1986	10
156.	V.I.Fomichev, V.K.Ivanov, A.V.Kravtsov, A.I.Mikhailov, N.P.Popov	Muon transfer from mesic hydrogen to helium and lithium	Preprint	Leningrad Nuclear Physics institute - LNPI. Preprint - 1177. Leningrad 1986. P. 14	14

157.	V.K.Ivanov, A.V.Kravtsov, A.I.Mikhailov, N.P.Popov, V.I.Fomichev	Recharge of mesohydrogen in helium and lithium at low energy (In Russian: Перезарядка мезоводорода в гелии и литии при низкой энергии)	Paper	JETP (in Russian: ЖЭТФ, Т.91, в.7. с.1274-1278, 1986)	5
158.	L. V. Chernysheva M. Yu. Kuchiev, V. L. Yakhontov	ATOM system, XVII. Program for calculating the wave functions of the ground state of atoms in the Hartree-Fock-Dirac approximation (In Russian: Система АТОМ, XVII. Программа вычисления волновых функций основного состояния атомов в приближении Хартри-Фока-Дирака)	Preprint	Ioffe Institute, № 1015, Leningrad, 1986	38
159.	L. V. Chernysheva, M. Ya., Amusia, V. A. Kilin, A. N. Kolesnikova, I. S. Li	System ATOM, XVIII - The System ATOM, XVIII Program for calculating the probability of one-photon decay of two-hole states (In Russian: Система АТОМ, XVIII - The System ATOM, XVIII Программа вычисления вероятности однофотонного распада двухдырочных состояний)	Preprint	Ioffe Institute, № 1054, Leningrad, 1986	29
160.	L. V. Chernysheva, N. A. Cherepkov	ATOM XIX system. Program for calculating the photoionization cross section of an atom with an unfilled shell taking into account correlations in two transitions (in Russian: Система АТОМ XIX. Программа вычисления сечения фотоионизации атома с незаполненной оболочкой с учетом корреляций в двух переходах)	Preprint	Ioffe Institute, № 1079, Leningrad, 1986	49

161.	M.Yu. Kuchiev, S.A. Sheinerman	Ar and Xe photoelectron-spectra with regard to after-collision interactions	Paper	Izvestiya Akademii Nauk. Ser. Fizicheskaya, <b>50</b> , 7, pp. 1390 – 1394, 1986	5
162.	M.Yu. Kuchiev, S.A. Sheinerman	The calculation of the photoionization cross-section allowing for the Post Collision Interaction	Paper	Computer Physics Communications, <b>39</b> , 2, pp. 155 – 160, 1986	6
163.	M.Yu. Kuchiev, S.A. Sheinerman	Resonant processes involving creation of 3 charged-particles	Paper	JETP, <b>90</b> , no. 5, pp. 1680 – 1689, 1986	10
164.	V. K. Ivanov, A. V. Kravtsov, A. I. Mikhailov, N. P. Popov	Muon transfer from mesic hydrogen to lithium and the atomic intershell correlations	Preprint	Leningrad Nuclear Physics institute - LNPI. Preprint - 1252. Leningrad 1987. P. 14	14
165.	G. F. Gribakin, V. K. Ivanov, M. Yu. Kuchiev, L. V. Chernysheva	Calculation of negative ions by the methods of many-body theory (In Russian: Расчет отрицательных ионов методами теории многих тел)	Preprint	Ioffe Institute, № 1096, Leningrad, 1987	22
166.	M. Ya. Amusia V. K. Dolmatov,	A Characteristic Feature of Elastic Scattering of Electrons by Mn Atoms	Paper	J. Tech. Phys., Short Communications (USSR Acad. Sci.), <b>57</b> , 5, p. 988-989, 1987	2
167.	M. Ya. Amusia V. K. Ivanov	Intershell Interaction in Atoms	Paper	Uspekhi Fizicheskikh Nauk, (Soviet Physics - Uspekhi) <b>152</b> , 2, p.185-230, 1987	46
168.	M. Ya. Amusia, V. A. Kilin, A. N. Kolesnikova, I. S. Lee	Low-Energy Correlation Satellites in Two-Vacancy Atoms	Paper	J. Tech. Phys. (USSR Acad. Sci.), <b>57</b> , 7, 1246-1254; Sov. Phys. Tech. Phys. <b>32</b> , 7, p.738-744, 1987	7
169.	M. Ya. Amusia, A. N. Kolesnikova, I. S. Lee	Cooperative Decays of Two-Vacancy States	Paper	J. Tech. Phys. (USSR Acad. Sci.), <b>57</b> , 6, p. 1228- 1229, 1987	2
170.	M. Ya. Amusia, A. N. Kolesnikova, I. S. Lee	Hypersatellite Decays of Vacancies	Paper	J. Tech. Phys. (USSR Acad. Sci.), <b>57</b> , 3, p. 1726-1734; Sov. Phys. Tech. Phys. <b>32</b> , 9, 1031-1036, 1987	6

171.	M. E. Reich, V. G. Yarzhevsky, V. I. Nefedov, M. Ya. Amusia , L. V. Chernysheva	Calculation of Free-Path Lengths of Electrons in Carbon, Silicon, and Germanium	Paper	Surface: Physics, Chemistry, Mechanics (USSR Acad. Sci.), <b>10</b> , 135-140, 1987	6
172.	L. V. Chernysheva B. V. Gul'tzev, M. M. Dovganich	ATOM system, XX. Program for calculating atomic wave functions in the Hartree-Fock approximation on an ES computer (In: Система АТОМ, XX. Программа вычисления атомных волновых функций в приближении Хартри-Фока на ЕС ЭВМ)	Preprint	Materials on software, Ioffe Institute, Leningrad, 1987	72
173.	L. V. Chernysheva, G. F. Gribakin	ATOM system, XXI. Program for calculating the wave functions of an electron in the field of a "frozen" core for states with the term 1S. (In: Система АТОМ, XXI. Программа вычисления волновых функций электрона в поле "замороженного" остова для состояний с термом 1S)	Preprint	Materials on software, Ioffe Institute, Leningrad, 1987	21
174.	G. F. Gribakin, V. K. Ivanov, M. Yu. Kuchiev, L. V. Chernysheva	Calculation of negative ions by the methods of many-body theory (In: Расчет отрицательных ионов методами теории многих тел)	Preprint	Ioffe Institute, № 1096. Leningrad, 1987	22
175.	M.Yu. Kuchiev, S. A. Sheinerman	After-collision interaction in the ionization of atomic inner shells by the electron shock	Paper	Technical Physics, <b>57</b> , 8, pp. 1476 – 1487, 1987	12
176.	V.A. Kilin, I. S. Lee	Double Auger effect in the multiparticle perturbation theory framework	Paper	Soviet Physics Journal Optics and Spectroscopy, DOI: 10.1007/BF00896135 , 1987	

177.	M.Yu. Kuchiev, S.A. Sheinerman	Resonance and nonresonance processes under low scattering rates of forming charge particles	Paper	Technical Physics Letters, <b>13</b> , 16, pp. 1001 – 1006, 1987	6
178.	M. Ya. Amusia, A. N. Kolesnikova I. S. Lee	Radiative Semi-Auger Satellites in the X-Ray Spectra	Paper	J. Tech. Phys. (USSR Acad. Sci.), <b>58</b> , 3, p. 442-451, 1988	10
179.	M. Ya. Amusia	"Atomic" Bremsstrahlung	Paper	Physics Reports, <b>162</b> , 5, p. 249-335, 1988	7
180.	M. Ya. Amusia, V. K. Dolmatov, V. M. Romanenko	Exchange Electron Correlation Effects in Outer Level Photoionization of Half- Filled Subshell Atoms (Mn)	Paper	J. of Phys. B: At. Mol. Opt. Phys., <b>21</b> , 7, p. L151-154, 1988	4
181.	M. E. Reich, V. G Yarzhemsky, V. I. Nefedov, M. Ya. Amusia, L. V. Chernysheva	Free-Path Length of Electrons in Aluminum, Silicon, and Germanium Oxides	Paper	Surface: Physics, Chemistry, Mechanics, <b>4</b> , p. 49- 54, 1988	6
182.	L. V. Chernysheva, G. F. Gribakin, V. K. Ivanov, M. Yu. Kuchiev	Many-body calculations of negative ions using the Dyson equation	Paper	J.Phys.B, <b>21</b> , 15, L419-425, 1988	7
183.	V. F. Orlov, N. A. Cherepkov, L. V. Chernysheva,	Calculation of the photoionization cross sections for chlorine and oxygen atoms in the region of autoionization resonances (In: Расчет сечений фотоионизации атомов хлора и кислорода в области автоионизационных резонансов)	Paper	Opt. Spectrosc (In Russian: Оптика и спектроскопия, <b>64</b> , 3, 683-685, 1988)	3
184.	V.K. Ivanov, A.V. Kravtsov, A.I. Mikhailov, N.P. Popov	Muon transfer from mesic hydrogen to lithium and the atomic intershell correlations	Paper	Zeitschrift fur Physik D- Atoms, Molecules and Clusters 1988. <b>7</b> , 349-352	4
185.	L.V.Chernysheva, G.F.Gribakin, V.K.Ivanov, M.Yu.Kuchiev	Many-body calculation of negative ions using the Dyson equation	Paper	J. of Phys. B: At.Mol.Opt.Phys., <b>21</b> , 15, pp. L419- L425, 1988	7
186.	V. K. Dolmatov T.T. Riskiev	Photoionization of the 4s level in the chromium atom in the 7-35 eV region of photon energies	Paper	Opt. Spectrosc.(USSR) <b>64</b> (5) 705-706, 1988	2

187.	M.Yu. Kuchiev, S.A. Sheinerman	Resonant scattering with low-velocity outgoing charged particles	Paper	J. of Phys. B: At.Mol.Opt.Phys., <b>21</b> , 11, pp. 2027 - 2038, 1988	12
188.	G. F. Gribakin, B. V. Gul'tsev, V. K. Ivanov, M. Yu. Kuchiev	Negative alkaline earth metal ions (In Russian: Отрицательные ионы щелочноземельных металлов)	Paper	Sov JTP Letters, 1989. <b>15</b> . 2. p.32-36	5
189.	G. F. Gribakin, B. V. Gul'tsev, V. K. Ivanov, M. Yu. Kuchiev	Negative ions of alkaline- earth metals	Paper	ZhTF, Pis'ma 15, No.12, 32–6 (1989) (in Russian). Sov. Tech. Phys. Lett. <b>15</b> , 468-469, 1989	2
190.	M. Ya. Amusia, L. V. Chernysheva, V. K. Ivanov, V. A. Kupchenko	Photoionization of Lanthanum and Its Ions in the Region of the Giant Resonance	Paper	Zeitschrift für Physik D: Atoms, Molecules and Clusters, <b>14</b> , 3, p. 215-217, 1989	3
191.	M. Ya. Amusia, G. F. Gribakin, K. L. Tsemekhman	Single and Double Photoionization of Xe Atom above the 4d- Subshell Threshold	Paper	Izv. USSR Akad. Nauk, Ser. Fiz., <b>53</b> , 9, p. 1672- 1676, 1989	5
192.	M. Ya. Amusia, V. K. Ivanov, V. L. Kupchenko	The Photoionization of Atomic Eu in the Vicinity of Its Giant Resonance	Paper	Zeitschrift für Physik D: Atoms, Molecules and Clusters, <b>14</b> , 3, p. 219-221, 1989	3
193.	M. Ya. Amusia N. V. Avdonina	Intershell Interaction in Excited Atoms and Ions Photoionization	Paper	Zeitschrift für Physik D: Atoms, Molecules and Clusters, <b>14</b> , 3, p. 191-194, 1989	4
194.	M. Ya. Amusia, N. A. Cherepkov, M. Nicolich, A. Tanchich	Momentum Transfer Cross Section of Positrons Elastically Scattered on Helium	Paper	Phys. Let. A, <b>140</b> , 9, p. 503-506, 1989	4
195.	M. Ya. Amusia, A. N. Kolesnikova, L. S. Lee	Single Photon Decay of Two Vacancies in Atoms with Semi-Filled Shells	Paper	Izv. of Higher Education Institutes, Physics (USSR Higher Education), <b>2</b> , p. 100-102, 1989	3
196.	M. Ya. Amusia V. A. Sosnivker	2P-Resonance in the Elastic Scattering Cross Section of Electrons upon Calcium Atom	Paper	J. Tech. Phys. (USSR Acad. Sci.), <b>59</b> , 3, p. 28-32, 1989	5



197.	N. B. Avdonina and M. Ya. Amusia	Photoionization of Excited States of the Cesium Isoelectronic Sequence	Paper	Optics and Spectroscopy (USSR Acad. Sci.), <b>66</b> , 5, p. 990-995, 1989	6
198.	V. K. Dolmatov, T.T. Riskiev V.M. Romanenko	Characteristic properties of electron bremsstrahlung on a Mn atom	Paper	Opt. Spectrosc. (USSR), <b>66</b> (2) 145-147, 1989	3
199.	L. V. Chernysheva, M. Ya. Amusia N. B. Avdonina A. V. Korol'	ATOM system, XXII. Program for calculating the bremsstrahlung spectrum of particles of intermediate energies (In: Система АТОМ, XXII. Программа вычисления спектра тормозного излучения частиц промежуточных энергий)	Preprint	Ioffe Institute, № 1314, Leningrad, 1989	38
200.	L. V. Chernysheva, M. Ya. Amusia V. G. Orlov, S. K. Semenov, N. A. Cherepkov	ATOM system. XXIII. The program for calculating the wave functions of an electron in the field of the "frozen core" with the possibility of different setting of off-diagonal energy parameters (In: Система АТОМ. XXIII. Программа вычисления волновых функций электрона в поле "замороженного остова" с возможностью различного задания недиагональных энергетических параметров)	Preprint	Ioffe Institute, № 1319, Leningrad, 1989	38
201.	M.Yu. Kuchiev, S.A. Sheinerman	The Post Collision interaction in atomic processes	Review	Physics-Uspekhi, <b>158</b> , 3, pp. 353 – 387, 1989	35
202.	M. Ya. Amusia, G. F. Gribakin, K. L. Tsemekhman, V. L. Tsemekhman	Single and Double Photoionization in Xe and Ba above the 4d-Threshold	Paper	J. of Phys. B: At. Mol. Opt. Phys., <b>23</b> , 3, p. 393-402, 1990	10
203.	M. Ya. Amusia A. V. Korol'	Bremsstrahlung Spectrum for 600 eV Electrons on Xe	Paper	J. of Phys. B: At. Mol. Opt. Phys., <b>23</b> , p. 2899-2907, 1990	9
204.	N. B. Avdonina M. Ya. Amusia	The Role of Intershell Correlations in Photoionization of Excited Ions and Atoms	Paper	J. Tech. Fiz. (USSR Acad. Sci.), <b>60</b> , 3, p. 66-72, 1990	7

205.	M. Ya. Amusia V. K. Dolmatov	Elastic Scattering of Electrons upon Atoms with Semi-Filled Shells	Paper	J. Exp. Theor. Phys. (USSR Acad. Sci.), <b>97</b> , 4, p. 1129-1139; Sov. Phys. JETP, <b>70</b> , 4, p. 632-638, 1990	7
206.	M. Ya. Amusia, V. A. Sosnivker, N. A. Cherepkov, L. V. Chernysheva, S. I. Sheftel	Elastic and Quasielastic Scattering of Slow Electrons upon Atoms and Ions with a Single Vacancy in a Closed Shell	Paper	J. Tech. Phys. (USSR Acad. Sci.), <b>60</b> , 5, p. 1-9, 1990	9
207.	M. Ya. Amusia	Many-Electron Effects in Absorption and Emission of VUV Radiation by Atoms and Ions	Paper	Physica Scripta, <b>T31</b> , p. 43-56, 1990	3
208.	M. Ya. Amusia	Polarization Radiation in Electronic and Atomic Collisions	Invited talk	ICPEAC-16, AIP Conference Proceedings, <b>206</b> , p. 201-214, 1990	14
209.	M. Ya. Amusia, G. F. Gribakin, V. K. Ivanov L. V. Chernysheva	Many-Electron Correlations in the Negative Ion Photodetachment	Paper	J. of Phys. B: At. Mol. Opt. Phys., <b>23</b> , 3, p. 385-391, 1990	7
210.	M. Ya. Amusia, L. V. Chernysheva, G. F. Gribakin, K. L. Tsemekhman	Single and double photoionization in Xe and Ba above the 4d-threshold	Paper	J. Phys. B: At. Mol. Opt. Phys., <b>23</b> , 3, p. 393-402, 1990	10
211.	L. V. Chernysheva	Study of atomic structures based on an automated system (In: Изучение атомных структур на базе автоматизированной системы)	Paper	In: Problems of information processing and integrated automation of production. L.: Nauka, LIIA, 1990, p.155-161	7
212.	V. K. Ivanov, L. V. Chernysheva	Photoionization of atoms with half-filled $np^3$ - shells (In: Фотоионизация атомов с полузаполненными $np^3$ -оболочками)	Paper	Optics and spectroscopy, т. <b>69</b> , вып.2, с.289-294, 1990 (In Russian)	6
213.	M. Ya. Amusia, L. V. Chernysheva, A. V. Korol'	Bremsstrahlung spectrum on Xe for 600 eV	Paper	J. Phys. B-At. Mol. Opt. Phys. V. 23, 16, P. 2899-2907, 1990	9
214.	M. Ya. Amusia, E. P. Busygin, V. G. Grigoriants S. A. Sheinerman	On the Polarization of Radiation of the Diffuse Series of Cesium Atom	Paper	Optics and Spectroscopy (USSR Acad. Sci.), <b>69</b> , 2, p. 272-277, 1990	6

215.	M. Ya. Amusia, V. K. Dolmatov, M. M. Mansurov	A New Feature of 3p to 3d Transitions in Mn Atom	Paper	J. of Phys. B: At. Mol. Opt. Phys., <b>23</b> , p. L491-494, 1990	4
216.	M. Ya. Amusia	Correlation in Atomic Inner Shell Processes	Paper	in: <i>X-Ray and Inner-Shell Processes</i> , X-90, ed. T. A. Carlson, M. O. Krause and S. T. Manson, AIP Conference Proceedings, <b>215</b> , p. 25- 45, 1990	21
217.	G. F.Gribakin, B. V.Gultsev, V. K.Ivanov, M. Yu.Kuchiev	Interaction of an alkaline-earth atom with an electron: scattering, negative ion and photodetachment	Paper	Journal of Physics B: At.Mol.Opt.Phys.1990, V. 23, P. 4505-4519.	15
218.	V. K. Dolmatov	Marked differences in the 4s photoionization between the Cr(4s, <sup>7</sup> S <sub>3</sub> ) and Cr*(4s, <sup>5</sup> S <sub>2</sub> ) atoms	Paper	J. Phys. B: At. Mol. Opt. Phys. 1990, <b>23</b> , L625-L628	4
219.	L. V. Chernysheva M. Ya. Amusia, K. L. Tzemekhman	ATOM. XXIV. Program for calculating the cross sections for photoabsorption and single photoionization of intermediate atomic shells taking into account the self-energy part of the photoelectron (In: ATOM. XXIV. Программа вычисления сечений фотопоглощения и однократной фотоионизации промежуточных оболочек атомов с учетом собственно-энергетической части фотоэлектрона)	Preprint	Ioffe Institute, № 1492, Leningrad, 1990	33
220.	M.Yu. Kuchiev, S.A. Sheinerman	PCI in Giant Resonances	Paper	J. Phys. B: At. Mol. Opt. Phys., <b>23</b> , 6, L79-L82, 1990	4
221.	M.Yu. Kuchiev, S.A. Sheinerman.	PCI influence on the atomic Auger spectrum induced by fast electron impact	Paper	J. Phys. B: At. Mol. Opt. Phys., <b>23</b> , 12, 2131-2136, 1990	6

222.	G. F. Gribakin, B. V. Gultsev, V. K. Ivanov,	Photoabsorption by 2p electrons of oxygen in high temperature superconductor. (In Russian: Фотопоглощение 2p-электронами кислорода в ВТСП)	Paper	Superconductivity: physics, chemistry, engineering (In Russian: Сверхпроводимость: физика, химия, техника 1991, т.4, №10, С. 1873-1878.)	6
223.	V. K. Ivanov	Many-electron effects in negative ion photodetachment	Report	Proceedings of the UK/USSR Seminar "Today and Tomorrow in Photoionisation" (Leningrad, 1990). Eds. M.Ya.Amusia, J.B.West. Daresbury Laboratory. 1991. P.143-148	6
224.	N. B. Avdonina	Photoionization Cross Sections of Excited States of Atoms and Ions	Report	Proceedings of the UK/USSR Seminar "Today and Tomorrow in Photoionisation" (Leningrad, 1990). Eds. M.Ya.Amusia, J.B.West. Daresbury Laboratory. 1991. P.149-154	6
225.	G. F. Gribakin, V. K. Ivanov, M. Yu. Kuchiev	Elastic scattering of electrons by atoms of alkaline earth elements. Negative ions. (In Russian: Упругое рассеяние электронов на атомах щелочноземельных элементов. Отрицательные ионы.)	Report	In: Physics of electronic and atomic collisions №12. SPb, 1991. p. 77-88. (In Russian)	12
226.	M. Ya. Amusia I. S. Lee	Correlated Decay of Two Vacancies in Atoms	Paper	J. of Phys. B: At. Mol. Opt. Phys., <b>24</b> , p. 2617-2632, 1991	16

227.	V.G.Yarzhemsky, T. Reich, L. V. Chernysheva.	Effect of dipole polarizability on the relative intensities of 2s and 2p lines in the X-ray electron spectra of Si, S, Ca (In Russian: Влияние дипольной поляризуемости на относительные интенсивности 2s и 2p линий в рентгеноэлектронных спектрах Si, S, Ca)	paper	Optics and Spectroscopy (in Russian: Оптика и спектроскопия. т.70, вып.1, с. 26-30, 1991)	5
228.	V. K. Dolmatov	Suggested experimental study of the $^3P$ "shape" resonance in the e-N elastic scattering	Paper	Sov. Phys. Techn. Phys. 36 (6) 704-705, 1991	2
229.	L. V. Chernysheva, M. Ya. Amusia, A. S. Kheifets	ATOM system, XXVI. Program for calculating the differential cross sections for the excitation and ionization of an atom by electron impact (In Russian: Система АТОМ, XXVI. Программа вычисления дифференциальных сечений возбуждения и ионизации атома электронным ударом)	Preprint	Ioffe Institute, № 1531, Leningrad, 1991	38
230.	L. V. Chernysheva M. Ya. Amusia, V. G. Orlov, S. K. Semenov, N. A. Cherepkov	ATOM system, XXVII. The program for calculating the Hartree-Fock wave functions of an electron in the field of a "frozen" core on an ES computer (In Russian: Система АТОМ, XXVII. Программа вычисления хартри-фоковских волновых функций электрона в поле "замороженного" остова на ЕС ЭВМ)	Preprint	Ioffe Institute, № 1574, Leningrad, 1991	43
231.	M.Yu. Kuchiev, S.A. Sheinerman	Evaluation of parameters of Hg $5d^96s^2(^2D_{3/2})6p_{1/2}/(3/2\ 1/2)_2$ autoionizing state from PCI spectra	Paper	J. of Phys. B: At. Mol. Opt. Phys., 24, 22, p. 4775-4781, 1991	

232.	V.A. Kilin I. S. Li, O.V. Li	Electron angular distribution in double Auger decay	Paper	Optics and Spectroscopy, 61 (2), pp. 40-45, 1991	6
233.	V. G. Yarzhemsky, T. Reich, L. V. Chernysheva	The influence of Coster-Kronig decay processes on the relative intensities 2p, 2s -photoelectron lines of Si, P, Cl, and Ca	Paper	J Elect.Spectr. & Related Phenomena, v.58, 1-2, pp.67-73, 1992	7
234.	M. Ya. Amusia, I. S. Lee, V. A. Kilin	The Decay of an Electron-Vacancy Excitation in the Presence of Another Vacancy	Paper	J. of Phys. B: At. Mol. Opt. Phys., <b>25</b> , 3, p. 657-666, 1992	10
235.	M. Ya. Amusia, V. A. Kilin, I. S. Lee	Double Auger Decay in Atoms: Probability and Angular Distribution	Paper	Phys. Rev. A, <b>45</b> , 7, p. 4576-4587, 1992	12
236.	M. Ya. Amusia and A. V. Korol'	Angular Distribution and Polarization of Bremsstrahlung formed in Intermediate Energy Particle-Atom Scattering	Paper	J. of Phys. B: At. Mol. Opt. Phys., <b>25</b> , p. 2383-2392, 1992	10
237.	M. Ya. Amusia and I. S. Lee	Radiative Semi-Auger Decay in Atoms	Paper	Physica Scripta, <b>T-41</b> , p. 23-27, 1992	6
238.	D. Klar, H. Harth, J. Ganz, T. Kraft, M.-W. Ruf, H. Hotop, M. Ya. Amusia, V. Tsemekhman K. Tsemekhman	On the J-Dependence of the Odd ( $ns'$ , $J = 0,1$ ) Autoionization Resonances of the Rare Gases Ne, Ar, Kr and Xe	Paper	Zeitschrift für Physik, D: Atoms, Molecules, Clusters, <b>23</b> , p. 101-113, 1992	3
239.	M. Ya. Amusia and A. S. Kheifets,	Relativistic <i>ab initio</i> calculations of the Xenon 5s Ionization Spectra for the ( $\gamma$ , e) and (e,2e) Reactions	Paper	Phys. Rev. A, <b>46</b> , 2, p. 1261-1269, 1992	9
240.	M. Ya. Amusia, V. V. Tsemekhman, K. V. Tsemekhman	The widths of $nd'$ ( $J = 1,2$ ) Rydberg Autoionization resonances in the rare gas atoms. MBPT approach	report	Institute of Physics Conference Series, <b>128</b> , Sec. 2, p. 83-86, 1992	4
241.	G. F. Gribakin, A. A. Gribakina, B. V. Gultsev, V. K. Ivanov,	Correlational autodetachment of the low-lying shape resonances in $C^-$ , $Si^-$ and $Ge^-$ photodetachment	Paper	Journal of Physics B: At.Mol.Opt.Phys.1992, V. 25, P. 1757-1772.	16
242.	G. F. Gribakin, B. V. Gultsev, V. K. Ivanov, M. Yu. Kuchiev, A. R. Tancic	Momentum transfer cross sections for slow electron elastic scattering on Ca, Sr and Ba atoms	Paper	Physics Letters A 1992, <b>164</b> , 1, pp.73-82.	10

243.	A. A. Gribakina, G. F. Gribakin, V. K. Ivanov	Structure and photodetachment of the Yb <sup>-</sup> negative ion	Paper	Physics Letters A 1992, <b>168</b> , 4, p. 280- 284.	5
244.	V. K. Dolmatov	Striking differences between the 4s photoionization of free Mn <sup>+</sup> and Mn <sup>+</sup> *	Paper	J. Phys. B: At. Mol. Opt. Phys. <b>25</b> , L629- L634, 1992	6
245.	N.B.Avdonina R. H. Pratt L.V. Chernysheva	Photoionization of Excited Highly Charged Ions	Paper	AIP Conference Proceeding 274, American Institute of Physics, New- York 553-555 (1992)	3
246.	A. A. Gribakina, G. F. Gribakin, V. K. Ivanov, V. A. Kharchenko	The probability of phonon decay of excited donor states as a function of donor chemical shift	Paper	Semicond.Science Technol., <b>8</b> , p. 20-24, 1993.	5
247.	V. K. Ivanov, J. B. West	The photoionisation cross sections of the 4s, 3p and 3s subshells of Ca <sup>+</sup>	Paper	Journal of Physics B: At.Mol.Opt.Phys. <b>26</b> , n.14, P. 2099-2113, 1993.	15
248.	P. Dunne, G. O'Sullivan, V. K. Ivanov	Extreme-ultraviolet absorption spectrum of Ga <sup>+</sup> .	Paper	Physical Review A <b>48</b> , n.6, P. 4358-4364, 1993.	7
249.	V. K. Ivanov, A. N. Ipatov, V. A. Kharchenko, M. L. Zhyzhin	Electronic structure and adiabatic vibrations of metal clusters (In Russian: Электронная структура и адиабатические колебания металлических кластеров)	Paper	JETP Lett (in Russian: Письма в ЖЭТФ <b>58</b> , в.8, с.649-655, 1993.)	7
250.	V. K. Ivanov	Photoionisation of positive and negative ions	Report	In: Proceedings of the 10th VUV Conference (Invited lectures and Progress reports, Paris 1992). Eds. F.J.Wuilleumier et al. World Scientific, 1993. P.178-187.	8

251.	V. K. Ivanov	Photodetachment cross sections and photoelectron angular distributions from negative ions	Report	In: Proceedings of the International Workshop on Photoionization (Berlin, 1992). Eds. U. Becker and U. Heinzmann, p.81-84, 1993.	5
252.	I. S. Lee, R. Wehlitz, M. Ya. Amusia, U. Becker	Evidence for a new class of many-electron Auger-transitions in atoms	Paper	J. of Phys. B: At. Mol. Opt. Phys., <b>26</b> , p. 41-46, 1993	6
253.	U. Becker, O. Hemmers, B. Lager, M. Ya. Amusia, I. Lee, A. Menzel, R. Wehlitz	Multiplet-changing Auger transitions in valence double photoionization	Paper	Phys. Rev. A, <b>47</b> , 2, p. R 767-770, 1993	4
254.	M. Ya. Amusia V. K. Dolmatov	Photoionization of inner <i>ns</i> electrons in semi-filled shell atoms (3s electrons in a Mn atom)	Paper	J. of Phys. B: At. Mol. Opt. Phys., <b>26</b> , p.1425-1434, 1993	10
255.	V. A. Kilin, M. Ya. Amusia, L. V. Chernysheva, A. Ehresmann, H. Schmoranzner K.-H. Schartner	Three-electron radiative transition	Paper	J. of Phys. B: At. Mol. Opt. Phys., <b>26</b> , p. L97-102, 1993	6
256.	M. Ya. Amusia, V. A. Kilin, A. Ehresmann, H. Schmoranzner K.-H. Schartner	Double Electron Autoionization Decay of Resonantly Excited Single Electron States	Paper	J. Phys. B: At. Mol. Opt. Phys., <b>26</b> , 1281-1300, 1993	20
257.	M. Ya. Amusia, I. S. Lee	Correlative Decay of Highly Excited Atomic States	Paper	Atomic Physics 13, ed. H. Walters, T. W. Hansch and B. Neizerk, AIP Conference Proceedings <b>275</b> , American Institute of Physics, New York, p. 375-387, 1993	13
258.	V. K. Dolmatov	On the 3p photoabsorption cross section of free Mn <sup>+</sup>	Paper	J. Phys. B: At. Mol. Opt. Phys. <b>26</b> , L79-L84, 1993.	6



259.	N. B. Avdonina, R. H. Pratt, L. V. Chernysheva.	Photoionization of excited highly charged ions.	Paper	6th International Conference on the Physics of Highly Charged Ions, AIP Conf. Proc. <b>274</b> , p. 553-555, 1993	3
260.	V. K. Dolmatov	Suppression of the $3p \rightarrow nd(n>3)$ resonances in the $3p$ photoabsorption of free Mn and $Mn^+$	Paper	Phys.Lett. A <b>174</b> 116- 118, 1993	3
261.	V. K. Dolmatov	The case of a unique autoionization decay dynamic: the $3p \rightarrow 3d$ resonance in Cr	Paper	J. Phys. B: At. Mol. Opt. Phys. <b>26</b> , L393- L398, 1993	6
262.	V. K. Dolmatov	Singularity of Cr: $nd$ orbital (anti-) collapse	Paper	J.Phys.B: At. Mol. Opt. Phys. <b>26</b> , L585- L588, 1993	4
263.	L. V. Chernysheva, N. A. Cherepkov, S. K. Semenov.	ATOM XXVIII system. A program for calculating the partial cross sections for photoionization of atoms taking into account correlations in several transitions (In Russian: Система ATOM XXVIII. Программа вычисления парциальных сечений фотоионизации атомов с учетом корреляций в нескольких переходах)	Preprint	Ioffe Institute, № 1620. Leningrad, 1993	55
264.	V.M. Mikushkin , A.V.Zakharevich I. Pavletsov S.E. Sysoev, V.V. Shnitov M.Yu. Kuchiev S.A. Sheinerman.	Postcollision Interaction in the excitation of a gold $4d$ vacancy by fast electrons	Paper	JETP Letters, <b>58</b> , 12, pp. 891 – 894, 1993	
265.	M. Ya. Amusia	Resonant Structure of the $3d$ -electrons Angular Distribution in a Free $Mn^+$ Ion (with V. K. Dolmatov)	Paper	J. of Phys. B: At. Mol. Opt. Phys., <b>27</b> , p. L281-285, 1994	5
266.	S. M. Andrievsky, A. V. Yushchenko, L. V. Chernysheva	Oscillator strengths for heavy atoms: Lu I	Report	Newsletter on analysis of astronomical spectra, Darsbery Lab., No 4, p. 25-26, 1994	2

267.	M. Ya. Amusia, N.B. Avdonina, R. H. Pratt	Coherent Correlation Enhancement of Outer Shell Photoionization Cross Sections of Alkali- like Ions	paper	J. of Phys. B.:At. Mol. Opt. Phys., <b>27</b> , p. 5211-5219, 1994	9
268.	V. K. Ivanov, J. B. West, G. F. Gribakin, A .A. Gribakina	Photoionization of the 2s,2p and 3s subshells of Mg <sup>+</sup> .	Paper	Zeitsch. fur Phys.D <b>29</b> , p.109-114, 1994.	6
269.	V. A. Kharchenko, V. K. Ivanov, A. N. Ipatov, M. L. Zhyzhin	Size dependence of electronic structure and new type of collective vibrations in small metal clusters	Paper	Physical Review A <b>50</b> , p. 1459-1464, 1994.	6
270.	V. K. Ivanov, A. N. Ipatov, V. A. Kharchenko, M. L. Zhyzhin	Optimized jelly model for metal clusters (In Russian: Оптимизированная модель "желе" для металлических кластеров)	Paper	JETP Letters (in Russian: Письма в ЖЭТФ, <b>60</b> , в.5, с.345- 351, 1994)	7
271.	V. K. Ivanov, L. P. Krukovskaya	The effects of intershell interaction and core rearrangement in Ge negative ion photodetachment	Paper	Journal of Physics B: At.Mol. Opt.Phys. <b>27</b> , p. 4111-4122, 1994.	12
272.	R. Kuntze, M. Salzmann, N. Bowering, U. Heinzmann, V. K. Ivanov, N. M. Kabachnik	Spin-polarization spectroscopy of Auger electrons and photoelectrons in 5p ionization of barium atoms	Paper	Physical Review A 1994, V.50, n.1, P. 489-495.	7
273.	G. F. Gribakin W. A. King	The effect of virtual positronium formation on positron-atom scattering	Paper	J. Phys. B: At. Mol. Opt. Phys. <b>27</b> , 2639– 2645, 1994.	7
274.	M.Yu. Kuchiev S.A. Sheinerman.	PCI Influence On Angular-Distribution Of Auger And Autoionization Electrons	Paper	J. Phys. B: At. Mol. Opt. Phys., <b>27</b> , 14, pp. 2943 – 2951, 1994	
275.	U. Koble, L. Kiernan, J. T. Costello, J.-P. Mosnier, E. T. Kennedy, V. K. Ivanov, V. A. Kupchenko M. S. Shendrik	4f( <sup>1</sup> P) giant dipole resonance in La <sup>3+</sup> .	Paper	Physical Review Letters <b>74</b> , 12, p. 2188-2191, 1995.	4
276.	P. Dunne, G. O'Sullivan, V. K. Ivanov	The M-shell photoabsorption spectrum of Ge <sup>2+</sup> .	Paper	Journal of Physics B: At.Mol.Opt.Phys. <b>28</b> , p.1241-1250, 1995.	10

277.	A. Ehresmann, V. A. Kilin, M. Ya. Amusia, H. Schmoranzer K-H. Schartner	Assignment of New Fluorescence Lines from Kr III $4p^3\ 6s/5d$ states observed after excitation of the KrI $3d^9\ 5/2\ 5p$ - resonance	Paper	J. Phys. B: At. Mol. Opt. Phys, <b>28</b> , p. 965- 977, 1995	13
278.	M. Ya. Amusia, R. Bruch, L. V. Chernysheva, O. V. Konstantinov	Semiclassical Theory of Single-electron Ionization of inert-gases Atoms by fast Ions	Paper	ЖТФ. <b>65</b> , 4, p. 1-8, 4 1995 (J.Tech.Phys. <b>40</b> , 4, p.291-294, 1995)	4
279.	T. Dohrmann, U. Arp, B. Sonntag, M. Wedowski, F. Weisbarth, P. Zimmermann, V. K. Dolmatov	Giant Resonance and Rydberg Series of Laser Excited Chromium Atoms	Talk	In: AIP Conference Proceedings, Symposium, Eds: Herausgeber H.J. Kluge, J.E.Parks, K.Wendt, Vol. <b>329</b> , p.415-418, 1995	4
280.	V. G. Yarzhemsky, A. S. Kheifets, F. P. Larkins	Linewidth and intensities of satellites in photoelectron spectra in the presence of underlying continuum	Paper	J. Phys. B, At. Mol. Opt. Phys. <b>28</b> (11), p. 2105-2112, 1995.	8
281.	V. A. Kilin, A. N. Kharlova, A. Ehresmann, H. Schmoranzer K. H. Schartner	Competition between non- correlative visible and correlative fluorescence transitions in Kr III	Paper	J. Phys. B: At. Mol. Opt. Phys. <b>28</b> , 4123- 4132, 1995	
282.	A. S. Kheifets	Green's function calculation of the satellite spectrum of neon	Paper	J. Phys. B, <b>28</b> , 3791-3803, 1995	
283.	M. Ya. Amusia	Atoms as Many-Body Systems	Invited talk	Physics Reports, <b>264</b> , 1-5, p. 7-26, 1996	
284.	M. Ya. Amusia, A. S. Baltenkov, and G. I. Zhuravleva,	On the Difference in Oscillator Strengths of Inner Shell Excitations in Noble Gases and their Alkali Neighbors	Paper	J. of Phys. B: At. Mol. Opt. Phys., <b>29</b> , L153- 156, 1996	4
285.	M. Ya. Amusia	Theory of Photoionization: VUV and Soft X-ray Frequency Region	Invited talk	in: <i>Photoionization in VUV and Soft X-Ray Energy Region</i> , ed. U. Becker and D. Shirley, New York - London, Plenum Press, p. 1-46, 1996	46
286.	M. Ya. Amusia, L. V. Chernysheva V. K. Ivanov	Photoionization of atomic Antimony: Multi- transition Calculation in RPAE	Paper	Journal of Electron Spectroscopy and Related Phenomena, <b>79</b> , p. 295-298, 1996	4

287.	C. S. Feigerle, R. N. Compton, L. E. Cuellar, N. A. Cherepkov, L. V. Chernysheva	Circular dichroism effects on the photoelectron angular distributions for the 7P and 8P states of Cesium	Paper	Phys. Rev A <b>53</b> , 6, p. 4183-89, 1996	7
288.	V. G. Yarzhemsky, T. Reich, L. V. Chernysheva, R. Streubel, R. J. Szargan.	Linescape asymmetry parameters in photoelectron spectra	Paper	Journal of Electron Spectroscopy and Related Phenomena, <b>77</b> , 1, 15- 24, 1996	10
289.	N. A. Cherepkov, L. V. Chernysheva, V. V. Kuznetsov, S. K. Semenov	Photoionization of polarized excited Li atoms	Paper	Journal of Electron Spectroscopy and Related Phenomena, <b>79</b> , p. 275-278, 1996	4
290.	M. Ya. Amusia, L. V. Chernysheva	RPAE Calculations of the Isoelectronic Series C <sup>-</sup> , N and O <sup>+</sup> Photoionization Cross Section	Paper	Astronomy and Astrophysics Transactions, <b>12</b> , 4, p. 247-261, 1996	15
291.	M. Ya. Amusia	Present and Future of Photoionization Studies (Concluding remarks at the Oji International Seminar on Photoionization)	Invited talk	<i>Atomic and Molecular Photoionization</i> , Frontiers Science Series, No. <b>18</b> , ed. A. Yagishita and T. Sasaki, Universal Academy Press, Inc., Tokyo, Japan. p.383- 394, 1996	12
292.	M. Ya. Amusia	Many-Body Theory Approach in Calculating Atomic Structure and Processes	Chapter	in: <i>Atomic, Molecular and Optical Physics Reference Book</i> , ed. G. Drake, AIP Publishing, p. 287- 300, 1996	14
293.	M. Ya. Amusia	Many-electron Correlations	Invited talk	in Atoms and Ions, in: <i>Correlations in Clusters and Related Systems</i> , ed. J. P. Connerade, World Scientific, Singapore- New Jersey-London- Hong Kong, p. 31-55, 1996	5
294.	M. Ya. Amusia	Photoionization of Atoms near Inner Shell Thresholds	Chapter	in: <i>Selected Topics in Electron Physics</i> , ed. H. Kleinpoppen and M. C. Campbell, Plenum Press, New York - London, 1996	

295.	M. Ya. Amusia	Atomic Photoionization in the High Frequency Region	Invited talk	Proceedings of the Workshop <i>Atomic Physics with Hard X-rays from High Brilliance Synchrotron Light Sources</i> , Argonne National Laboratory Report /ANL/APS/TM-16, p. 43-63, 1996	21
296.	V. K. Ivanov, A. N. Ipatov, V. A. Kharchenko	Optimized jelly model for metal clusters with screened Coulomb interaction. (In Russian: Оптимизированная модель желе для металлических кластеров с экранированным кулоновским взаимодействием)	Paper	JETP (ЖЭТФ) <b>109</b> , в. 3, с.902-915, 1996)	14
297.	V. K. Ivanov, L. P. Krukovskaya, G. Y. Kashenock	Near-threshold shape resonance in Cr <sup>-</sup> outer-shell photodetachment.	Paper	Journal of Physics B: At.Mol.Opt.Phys. <b>29</b> , P.L313-L319, 1996.	7
298.	V. K. Ivanov, G. Y. Kashenock, G. F. Gribakin, A. A. Gribakina	2s,2p photodetachment from the He-( <sup>4</sup> P) negative ion within the Dyson Equation method.	Paper	Journal of Physics B: At.Mol.Opt.Phys. <b>29</b> , P.2669-2687, 1996.	19
299.	V. K. Ivanov, L. P. Krukovskaya, G. Y. Kashenock	Resonance structure in photodetachment of Cr <sup>-</sup> negative ion.	Report	Invited talks of the 5th International Workshop "Autoionization phenomena in atoms" (Dubna, 1995). Moscow University Press, p. 30-34, 1996	5
300.	V. K. Ivanov, G. Y. Kashenock	Autodetachment resonances in photoabsorption of He <sup>-</sup> and B <sup>-</sup> ions.	Report	Invited talks of the 5th International Workshop "Autoionization phenomena in atoms" (Dubna, 1995). Moscow University Press, p. 35-39, 1996.	5

301.	V. K. Ivanov, A. N. Ipatov	Autoionizing structure in photoabsorption of small metallic clusters.	Report	Invited talks of the 5th International Workshop "Autoionization phenomena in atoms" (Dubna, 1995). Moscow University Press, P. 50-54, 1996.	5
302.	V. K. Ivanov	Collective phenomena in negative ion photodetachment.	Paper	In book "Correlations in clusters and related systems".Ed. J.-P. Connerade, World Scientific, Singapore, P. 73-91, 1996.	19
303.	V. K. Ivanov, A. N. Ipatov	Many-Body calculations for metallic clusters using the jellium model.	Статья	In the book "Correlations in clusters and related systems".Ed. J.-P. Connerade, World Scientific, Singapore, p. 141-167, 1996.	27
304.	B. D. Agapiev, V. K. Ivanov, A. N. Ipatov	Elastic scattering of slow electrons by metal clusters. Negative ions. (In Russian: Упругое рассеяние медленных электронов на металлических кластерах. Отрицательные ионы)	Paper	Izv. USSR Acad. Sci., Ser. Fiz., <b>60</b> , в. 9, с. 7-11, 1996.	5
305.	V. K. Ivanov, A. N. Ipatov, V. A. Kharchenko	Optimized Jelly Model for Clusters with Screened Coulomb Interaction (In Russian: Оптимизированная модель желе для кластеров с экранированным кулоновским взаимодействием)	Paper	Izv. USSR Acad. Sci., Ser. Fiz., <b>60</b> , в. 9, с. 43-48, 1996.	6
306.	V. K. Dolmatov M. M. Mansurov	Trends in valence autoionizing Rydbergs for nd <sup>5</sup> semifilled-shell ground and excited atoms and ions: Cr, Mn, Mn <sup>+</sup> , Fe <sup>+</sup> , Fe <sup>2+</sup> , Mo, Tc, Tc <sup>+</sup> and Re	Paper	J. Phys. B: At. Mol. Opt. Phys. <b>29</b> , L307-L312, 1996	6

307.	V. K. Dolmatov	First theoretical study of the 3p absorption spectrum of free Cr <sup>+</sup>	Paper	J. Phys. B: At. Mol. Opt. Phys. <b>29</b> , 18, L673-L676, 1996.	4
308.	V. K. Dolmatov	Characteristic features of the 3p absorption spectra of free iron-group elements due to the dublicity of the "inner-valence" 3d electrons. Application to Mn <sup>2+</sup>	Paper	J. Phys. B: At. Mol. Opt. Phys., <b>29</b> , 19, L687-L692, 1996.	6
309.	Th. Dohrmann, A. von dem Borne, A. Verweyen, B. Sonntag, M. Wedowski, K. Godehusen, P. Zimmermann, V. Dolmatov	Resonant inner-shell photoelectron spectra of ground state and laser excited Cr atoms	Paper	J. Phys. B: At. Mol. Opt. Phys., <b>29</b> , 20, 4641-4658, 1996	18
310.	J. P. Connerade, V. K. Dolmatov	Inner-shell 3d → 4s and 3p→3d resonances in the photoionization of excited manganese	Paper	J. Phys. B: At. Mol. Opt. Phys., <b>29</b> , 23, L831- L835, 1996.	5
311.	G. F. Gribakin W. A. King	Positron scattering from Mg atom	Paper	Can. J. Phys. <b>74</b> , 449–59, 1996.	
312.	L.V. Chernysheva V.L. Yakhontov	The System ATOM - Two-program package to calculate the ground and excited state wave functions in the Hartree-Fock-Dirac approximation	preprint	Preprint HD-PY 96/06, Heidelberg, Germany, 1996	37
313.	V. A. Kilin, A Ehresmann, F. Vollweiler, K.-H. Schartner H. Schmoranzer	Perturbation theory study of triple photoionization: I. Two-step approximations in triple photoionization of Kr in the exciting-photon energy region of Kr I 3d9np resonances (90–100 eV)	Paper	J. Phys. B: At. Mol. Opt. Phys. <b>30</b> (24), 5715–5727, 1997	12
314.	P. van Kampen, G. O'Sullivan, V. K. Ivanov, A. N. Ipatov, J. T. Costello, E. T. Kennedy	Dramatic Changes in the 3s Autoionization Process at the Beginning of the ArI Sequence.	Paper	Phys. Rev. Lett., <b>78</b> , 16. p. 3082-3085, 1997	4
315.	G. Yu. Kashenock V. K. Ivanov	"Collective effects in B-photodetachment".	Paper	J. Phys.B: At. Mol. Opt. Phys., <b>30</b> , p.4235-53, 1997.	19

316.	V. K. Ivanov, A. N. Ipatov, L. P. Krukovskaya	Photodetachment from negative ions with ns <sup>2</sup> subshells (In Russian: Фотоотрыв от отрицательных ионов с ns <sup>2</sup> подболочками)	Paper	Optics and Spectr. (Оптика и Спектр. 1997. Т.83, в. 5, с.726- 32.)	7
317.	V. K. Ivanov, A. N. Ipatov.	Optimized jelly model for a cluster with screened Coulomb interaction (In Russian: Оптимизированная модель желе для кластера с экранированным кулоновским взаимодействием)	Paper	Izv. USSR Acad. Sci., Ser. Fiz., <b>61</b> , в. 9, с. 1795-1807, 1997	13
318.	V. K. Ivanov, A. N. Ipatov, B. D. Agap'ev	"Correlation effects in many-body calculations for metallic clusters: electron structure, photoabsorption, elastic scattering".	Report	Proceedings of SPIE. Int. Workshop on New Approaches to Hi-Tech Materials: Nondestr. Testing and Computer Simulations in Material Science, & Engineering" (1997, St.Petersburg) Ed. A.Melker. V.3345, P.92-97, 1997.	6
319.	M. Ya. Amusia	Inner Shell Ionization and Excitation	Invited talk	in: <i>X-ray and Inner- Shell Processes</i> , 17th International Conference, Hamburg, Germany September 1996, ed. R. L. Johnson, H. Schmidt-Böking and B. F. Sonntag, AIP conference Proceedings <b>389</b> , AIP Press, Woodbury- New York, p. 415-30, 1997	16
320.	M. Ya. Amusia	The Many-body Approach to Electron-atom Collisions	Chapter	in: <i>Many-body Atomic Physics</i> , ed. J. J. Boyle and M. S. Pindzola, Cambridge University Press, 1997	
321.	V. K. Dolmatov S. T. Manson	"Masking" effects in the photoelectron $\beta$ - parameter spectrum	Paper	J. Phys. B: At. Mol. Opt. Phys., <b>30</b> , 15, L517-L521, 1997.	5



322.	J. P. Connerade, V. K. Dolmatov	Overlapping resonances in the $\beta$ -parameter spectrum	Paper	J. Phys. B: At. Mol. Opt. Phys., <b>30</b> , 6, L181-L187, 1997.	7
323.	K. Iwata, G. F. Gribakin, R. G. Greaves, C. M. Surko	Positron annihilation with inner-shell electrons in noble gas atoms	Paper	Phys. Rev. Lett., <b>79</b> , 39-42, 1997.	
324.	V.A. Kilin D.A. Lazarev	Double Auger decay of a 3d vacancy in Krypton	paper	Russ Phys J Optics and Spectroscopy, <b>41</b> , 1001, 1998	
325.	M. Ya. Amusia L. V. Chernysheva	System ATOM: Complex of computing Codes to calculate the Characteristics of the Interaction of Atoms and Ions with Electromagnetic Radiation	Paper	Poverkhnost' ("Surface" in Russian), <b>8-9</b> , p. 107, 1998	
326.	V. K. Ivanov, L. P. Krukovskaya, G. Yu. Kashenock	The evidence of giant " $3p^5 3d^6 4s^2$ " resonance in Cr photodetachment	Paper	J. Phys. B: At. Mol. Opt. Phys. <b>31</b> , 2, p.239-247, 1998.	9
327.	A. N. Ipatov, V. K. Ivanov, B. D. Agap'ev, W. Ekardt	"Exchange and polarization effects in elastic electron scattering by metallic clusters"	Paper	J. Phys. B: At. Mol. Opt. Phys., <b>31</b> , 4, p.925-934, 1998.	10
328.	A. N. Ipatov, V. K. Ivanov, J. M. Pacheco, W. Ekardt	"Effects of geometry in elastic scattering and capture of free electrons by $C_{60}$ molecules"	Paper	J. Phys. B: At. Mol. Opt. Phys., <b>31</b> , 11, L511-L517, 1998.	7
329.	G. Yu. Kashenock, V. K. Ivanov	"The $2s^1 2p^4$ autodetachment resonance in the $C^-$ negative ion"	Paper	Physics Letters A, <b>245</b> , p. 110-116, 1998.	7
330.	G. F. Gribakin, V. K. Ivanov, A. N. Korol, and M. Yu. Kuchiev.	"Strong dependence of multiphoton detachment rates on the asymptotic behaviour of the ground-state wavefunction"	Paper	J. Phys. B: At. Mol. Opt. Phys. <b>31</b> , 14, L589-L597, 1998.	9
331.	A. N. Ipatov, V. K. Ivanov, B. D. Agap'ev.	"Many-Particle Effects in Atomic Clusters"	Paper	In the book "Physics of clusters". Eds. Lakhno V.D. and Chuev G.N. World Scientific Publishing. Singapore p.224-272, 1998.	49

332.	V. K. Ivanov, G. Yu. Kashenock,	Collective effects in resonant negative ion photodetachment	Report	Proceedings of SPIE. International Workshop on Nondestructive Testing and Computer Simulations in Science and Engineering (NDTCS-98) (8-12 June 1998, St.Petersburg, Russia). Ed. A.Melker. <b>3687</b> , p.90-101, 1998	12
333.	V. K. Dolmatov S. T. Manson	On the dependence of inner-shell photoionisation on the outer-shell structure of the Mn ion	paper	J. Phys.B: At. Mol. Opt. Phys., <b>31</b> , 999-1001, 1998	3
334.	J.-P. Connerade, V. K. Dolmatov	Controlling orbital collapse from inside and outside a transition element	paper	J.Phys.B: At. Mol. Opt. Phys., <b>31</b> , p. 3557-3564, 1998	8
335.	V. K. Dolmatov S. T. Manson	Photoionization experiments yielding "complete" information	paper	Phys. Rev. A <b>58</b> , R2635-2637, 1998	4
336.	S. K. Semenov, N. A. Cherepkov.	Generalization of the atomic RPA method for diatomic molecules: H <sub>2</sub> photoionization cross section calculation	paper	Chem. Phys. Lett. <b>291</b> , 375-380, 1998	6
337.	V.A. Kilin D.A. Lazarev	Double Auger decay of the 3d-vacancy in Kr	paper	Izvestiya Vysshikh Uchebnykh Zavedenij, Fizika, <b>41</b> (10), 54-63 1998	10
338.	V. K. Ivanov	Many-body effects in negative ion photodetachment	Обзор	J. Phys. B: At. Mol. Opt. Phys., <b>32</b> , 12, R67-R101, 1999	35
339.	G. F. Gribakin, V. K. Ivanov, A. V. Korol', M. Yu. Kuchiev	"Two-photon detachment of electrons from halogen negative ions"	Статья	J. Phys. B: At. Mol. Opt. Phys., <b>32</b> , p. 5463-5478, 1999	16
340.	M. Ya. Amusia, A. S. Baltenkov, Z. Felfli, A. Z. Msezane	Large Non-Dipole Correlation Effects near Atomic Photoionization Thresholds	paper	Phys. Rev. A, <b>59</b> , 4, p. R1-4, 1999	4

341.	M. Ya. Amusia, Z. Chen and A. Z. Msezane	Generalized Oscillator strength for the Argon 3p <sup>6</sup> -3p <sup>5</sup> 4s transition: Correlation and Exchange Effects on Characteristic minimum	paper	Phys. Rev. A, <b>60</b> , 6, p. 3 5115-5117, 1999	3
342.	G. H. Fecher, J. Braun, N. A. Cherepkov, L. V. Chernysheva, Th. Jentsch et al.	Dichroism in Angular Resolved VUV- Photoemission from the (0001) Surfaces of Thin Gd and Nd Films Epitaxially Grown on W(110)	paper	Eur.Phys.J. B, <b>11</b> , 1, p. 15 161-175, 1999	15
343.	L. V. Chernysheva, V. L. Yakhontov.	Two-program package to calculate the ground and excited state wave functions in the Hartree- Fock-Dirac approximation	paper	Computer Physics Communications, <b>119</b> , 2-3, p. 232-255, 1999	24
344.	M. Ya. Amusia and L. V. Chernysheva,	Many-electron Effects in Atomic Processes	paper	Zh. Tech. Fiz., <b>69</b> , p. 5 31-35, 1999	5
345.	M. Ya. Amusia and L. V. Chernysheva	The Evolution in Understanding of the Atomic Structure: from Mendeleev till today	paper	In: <i>Petersburg Academy of Sciences among Other Academies of the World, St. Petersburg, Russian Academy of Sciences</i> , p. 218-230, 1999	13
346.	A. De Fanis, J. B. West, K. J. Ross, K. Ueda, H.-J. Beyer, M. Ya. Amusia, L. V. Chernysheva	An Experimental and Theoretical Study of the 3p Photoionization of Ca based on a Measurement of the Angular Correlation between Photoelectrons and Auger Electrons	paper	J. of Phys. B: At. Mol. Opt. Phys., <b>32</b> , 24, p. 5739-5750, 1999	12
347.	W. R. Johnson, A. Derevianko, K. T. Cheng, V. K. Dolmatov, S. T. Manson	Nondipole effects in the photoionization of Ne: Random Phase Approximation	paper	Phys. Rev. A <b>59</b> , 5, p. 5 3609-13, 1999	5
348.	J.-P. Connerade, V. K. Dolmatov, P. A. Lakshmi, S. T. Manson	Electron structure of endohedrally confined atoms: Hydrogen in an attractive shell	paper	J. Phys. B: At. Mol. Opt. Phys., <b>32</b> , L239- 45, 1999.	7
349.	V. K. Dolmatov S. T. Manson	Enhanced nondipole effects in low-energy photoionization	paper	Phys. Rev. Lett., <b>83</b> , 5, 4 p. 939-942, 1999	4

350.	J.-P. Connerade, V. K. Dolmatov S. T. Manson	A unique situation for an endohedral metallofullerene	paper	J. Phys. B: At. Mol. Opt. Phys., <b>32</b> , 14, L395-403, 1999.	
351.	N.B. Avdonina	Energy losses for Bremsstrahlung from Atomic Ions	paper	Physica Scripta T80, 276-277, 1999	2
352.	Z. Chen and A. Z. Msezane	Generalized oscillator strength for the Na 3s-3p transition	paper	Phys. Rev. A, <b>61</b> , 030703 (R), 2000	4
353.	M. Ya. Amusia, N. A. Cherepkov, L. V. Chernysheva S. T. Manson	Multielectron Effects in Xe <sup>++</sup> formation resulting from the Photoionization of Xe <sup>+</sup> Ions	paper	J. of Phys. B: At. Mol. Opt. Phys., <b>33</b> , 1, L37-42, 2000	6
354.	M. Ya. Amusia, N. A. Cherepkov, L. V. Chernysheva S. T. Manson	Photoionization of the Iodine Atom and its Ions	paper	Phys. Rev. A <b>61</b> , 2, R020701, 2000	
355.	M. Ya. Amusia, A. S. Baltenkov U. Becker	Strong Oscillations in the Photoionization of 5s- electrons in the Endohedral Atom Xe@C60	paper	Phys. Rev. A <b>62</b> , 1, 012701, 2000	
356.	M. Ya. Amusia, L. V. Chernysheva, V. K. Ivanov	On the Photoabsorption of Atomic Eu, Eu <sup>+</sup> and Eu <sup>++</sup> in the vicinity of 4d Threshold	paper	Radiation Physics and Chemistry, <b>59</b> , 2, 137-144, 2000	8
357.	M. Ya. Amusia, V. A. Kilin, D. A. Lazarev, Dm. A. Lazarev, K.-H. Scharfner, A. Ehresmann, H. Schmoranz	State selective Single- photon Double-ionization of Ne indicating Singlet- triplet mixing of Doubly excited States	paper	J. Phys. B: At. Mol. Opt. Phys., <b>33</b> , 22, p. 4989-5005, 2000	17
358.	M. Ya. Amusia	Electron correlations in the High Frequency Photo- Atomic Processes	paper	Physics Essays, <b>13</b> , 2- 3, p. 444-452, 2000	9
359.	M. Ya. Amusia, and L. V. Chernysheva	The system of computing codes ATOM: results and possibilities	paper	In: "Atomic and Molecular Data for Astrophysics", Proceedings of a colloquium, Moscow, Russia, June 2000, eds. A.Kholtygin, V. I.Ochkur, St.Petersburg, p.7- 11, 2000	5
360.	G. F. Gribakin, V. K. Ivanov, A. V. Korol, M. Yu. Kuchiev	Three-photon detachment of electrons from the fluorine negative ion	paper	J. Phys. B: At. Mol. Opt. Phys., <b>33</b> , 4, p.821-828, 2000.	8

361.	V. K. Ivanov, G. Yu. Kashenock, K. V. Lapkin	“Resonance Photodetachment of Sn <sup>-</sup> negative ion”	paper	In Third Int. Workshop on Nondestructive Testing and Computer Simulations in Science and Engineering. A.I. Melker, Editor. Proceedings of SPIE. V.4064, p. 97-104 (2000).	8
362.	V. K. Ivanov.	“Theory of Photodetachment from Negative Ions”	paper	In the book “The physics of electronic and atomic collisions. XXI Int. Conference. Sendai, Japan 1999. Eds Yu. Itikawa, K.Okuno, H.Tanaka, A.Yagishita, M.Matsuzawa. American Institute of Physics. Melville, New York. p. 87-101, 199.	15
363.	J.-P. Connerade, V. K. Dolmatov, Lakshmi P A	The filling of shells in compressed atoms	paper	J. Phys. B: At.Mol.Opt.Phys., <b>33</b> , , 2, p. 251-264, 2000.	14
364.	J.-P. Connerade, V. K. Dolmatov, and S. T. Manson	Controlled strong non- dipole effects in photoionization of confined atoms	paper	J. Phys. B: At. Mol. Opt. Phys., <b>33</b> , 7, L275-L282, 2000	8
365.	J. P. Connerade, V. K. Dolmatov S. T. Manson	On the nature and origin of confinement resonances	paper	J. Phys. B: At. Mol. Opt. Phys., <b>33</b> , p. 2279-2285, 2000.	7
366.	N. A. Cherepkov, S. K. Semenov, Y. Hikosaka, K. Ito, S. Motoki, A. Yagishita	Manifestation of Many- Electron Correlations in Photoionization of the K Shell of N <sub>2</sub>	paper	Phys. Rev. Lett., <b>84</b> , 250-253, 2000	4
367.	S. K. Semenov, N. A. Cherepkov, G. Fecher, G. Schönhense	Generalization of the atomic random phase approximation for diatomic molecules: N <sub>2</sub> photoionization crosssection calculations	paper	Phys. Rev., A <b>61</b> , 032704, 2000	

368.	A.G. Lyalin, S.K.Semenov , A.V. Solov'yov , N.A. Cherepkov Greiner W.	Hartree-Fock deformed jellium model for metallic clusters	paper	J. Phys. B: <b>33</b> (2000) 3653-3664	12
369.	Zhifan Chen and Alfred Z Msezane	Minima and maxima in generalized oscillator strengths of Ne, Kr and Xe	paper	J. Phys. B: At. Mol. Opt. Phys. <b>33</b> , 5397– 5402, 2000	6
370.	V. K. Ivanov, G. Yu. Kashenock, K. V. Lapkin	Rearrangement effects in inner-shell photodetachment from Sn- negative ion	paper	Forth Int. Workshop on Nondestructive Testing and Computer Simulations in Science and Engineering (NDTCS-2000). A.I. Melker, Editor. Proceedings of SPIE. <b>4348</b> , p. 92-97 (2001)	6
371.	V. K. Ivanov, G. Yu. Kashenock, R. G. Polozkov	"LDA spherical jellium model for a fullerene C <sub>60</sub> molecule as a basis for the many-body theory of photoionization and electron scattering"	paper	Там же. Proceedings of SPIE. V. <b>4348</b> , p. 98-102 (2001)	5
372.	N.T.Bagraev, V.K.Ivanov, L.E.Klyachkin, A.M.Malyarenko, I.A.Shelykh	"Ballistic quantum wire conductance at nonzero temperature and finite longitudinal bias"	paper	Там же. Proceedings of SPIE. V. <b>4348</b> , p. 112-118 (2001)	7
373.	P.Andersen, T.Andersen, F.Folkmann, V.K.Ivanov, H.Kjeldsen, J.B.West	"Absolute cross sections for the photoionization of 4d electrons in Xe <sup>+</sup> and Xe <sup>2+</sup> ions"	paper	J.Phys.B: At. Mol. Opt. Phys. 2001. V. <b>34</b> , n.10, p. 2009- 2019	10
374.	V. K. Ivanov, G. Yu. Kashenock, R. G. Polozkov, A. V. Solov'yov.	"Photoionization cross sections of the fullerenes C <sub>20</sub> and C <sub>60</sub> calculated in a simple spherical model"	paper	J.Phys.B: At.Mol.Opt. Phys. 2001. V. <b>34</b> , n.21, p. 669-677	8
375.	V. K. Dolmatov and S. T. Manson	Large nondipole parameters with strong correlation effects in photoelectron angular distributions at kilo- electron-volt energies	paper	Phys. Rev. A <b>63</b> p.022704, 2001	
376.	V. K. Dolmatov, A.S. Baltenkov , S.T. Manson	Strong correlation effects in photoelectron angular distributions far above thresholds	paper	Phys. Rev. A <b>64</b> p.042718, 2001	

377.	I. A. Shelykh, N. T. Bagraev, V. K. Ivanov, L. E. Klyachkin	"Spontaneous spin polarisation in 1D electron gas"	paper	Fifth Int. Workshop on Nondestructive Testing and Computer Simulations in Science and Engineering (NDTCS-2001). A.I. Melker, Editor. Proceedings of SPIE. V.4627, P.38-42 (2002)	5
378.	V. K. Ivanov, G. Yu. Kashenock, C. V. Lapkin	"Feshbach resonances in Si-, Ge- and Sn- negative ion photodetachment"	paper	Там же. Proceedings of SPIE. V.4627, P.43-48 (2002)	6
379.	V. K. Ivanov, M. A. Koulov	"Photoionization cross section of $4s^2 4p^6$ shells in the vicinities of the $4s 4p^6 np$ autoionizing resonances in Kr isoelectronic sequence"	paper	Там же. Proceedings of SPIE. V.4627, P.93-98 (2002)	6
380.	V. K. Ivanov	Development of ideas about the atomic photoelectric effect (In Russian: Развитие представлений об атомном фотоэффекте)	paper	Scientific and technical statements of SPbSTU (In Russian: Научно- технические ведомости СПбГТУ. 2001. Т.4 (26). С.61-70)	10
381.	V. K. Ivanov, G. Yu. Kashenock, C. V. Lapkin.	Collective resonances in photodetachment processes from negative ions with a half-filled outer shell (In Russian: Резонансы коллективной природы в процессах фотоотрыва от отрицательных ионов с полузаполненной наружной оболочкой)	paper	Scientific and technical statements of SPbSTU (In Russian: Научно- технические ведомости СПбГТУ. 2001. Т.4 (26). С.103-111)	9
382.	M. Ya. Amusia, A. S. Baltenkov, L.V. Chernysheva, Z. Felfli and A. Z. Msezane	Non-dipole Parameters in Angular Distributions of Electrons in Photoionization of Noble Gas Atoms	paper	Phys. Rev. A, <b>63</b> , 052506, 2001	

383.	M. Ya. Amusia, A. S. Baltenkov, L.V. Chernysheva, Z. Felfli, A. Z. Msezane, J. Nordgren	Directed Motion of Electrons in Gases under the Action of Photon Flux	paper	Phys. Rev. A, <b>63</b> , 052512, 2001	
384.	M. Ya. Amusia, L.V. Chernysheva, Z. Felfli, A. Z. Msezane	Many-Electron Correlation Effects in the Generalized Oscillator Strengths of Noble Gas Atoms	paper	Phys. Rev. A, <b>64</b> , 032711, 2001	
385.	M. Ya. Amusia, A. S. Baltenkov, L. V. Chernysheva, Z. Felfli, A. Z. Msezane	Collective Behavior in Photoionization of Outer Atomic Subshells of Noble Gas Atoms	paper	Spectroscopic Challenges of Photoionized Plasmas, ASP Conference Series, <b>247</b> , p. 133-136, 2001	4
386.	M. Ya. Amusia	Many-Electron Correlations in Photon and Electron Interaction with Atomic Particles	paper	in: 20 <sup>th</sup> SPIG, <i>The Physics of Ionized Gases</i> , Ed. N. Konjevich, Z. L. Petrovich and G. Malovich, Institute of Physics, Belgrade, Yugoslavia, pp.19- 40, 2001	22
387.	A.G.Lyalin S.K. Semenov A.V. Solov'yov N.A. Cherepkov J-P. Connerade W. Greiner	Hartree-Fock deformed jellium calculations for metallic clusters	paper	J. Chin. Chem. Soc., <b>48</b> , 419-426, 2001	8
388.	J-P. Connerade A.G.Lyalin R. Semaoune S.K. Semenov A.V. Solov'yov.	A simple atomic model for hydrogen confined in prolate-shaped C <sub>60</sub> fullerene cage	paper	J. Phys B <b>34</b> , 2505- 2511, 2001	7
389.	N.A.Cherepkov, S.K.Semenov.	Non-dipole effects in spin polarization of photoelectrons from Xe 4p and 5p shells	paper	J. Phys. B <b>34</b> , L211- 217, 2001	7
390.	N.A.Cherepkov, S.K.Semenov	On quadrupole resonance in atomic photoionization	paper	J. Phys. B <b>34</b> , L495- L502, 2001	7
391.	M. Ya. Amusia, L. V. Chernysheva, V. K. Ivanov, S. T. Manson	Photoionization of 4d electrons in $I^+$ and $I^{++}$	paper	Phys. Rev. A, <b>65</b> , 3, 032714/1-4, 2002	4
392.	M. Ya. Amusia, L. V. Chernysheva, S. T. Manson, A. Z. Msezane, V. Radojevich	Strong Electron Correlations in Photoionization of Spin- orbit Doublets	paper	Phys. Rev. Let., <b>88</b> , 9, 093002/1-4, 2002	4



393.	M. Ya. Amusia, L.V. Chernysheva, Z. Felfli, A. Z. Msezane	Reinterpretation of the recently measured Absolute Generalized Oscillator Strength for the Ar 3p-4p transition	paper	Phys. Rev. A <b>65</b> (5), 54701-1-4, Part B, 2002	4
394.	M. Ya. Amusia, L. V. Chernysheva, Z. Felfli, A. Z. Msezane	Compton Scattering upon Heavy Atoms with Account of Many-Electron Correlations	paper	Surface Review and Letters, <b>9</b> (2), 1155-60, 2002	6
395.	M. Ya. Amusia, L. V. Chernysheva, V. G. Yarzhemsky, V. I. Nefedov	The Shapes of Photoelectron Satellite Spectra	paper	Surface Review and Letters, <b>9</b> (2), 1209-12, 2002	4
396.	M. Ya. Amusia L. V. Chernysheva	New Collective Effects in Atomic Photoionization	paper	in: Proceedings of the International Seminar on Photoionization in Atom (ISPA). Kyoto University Press, pp. 106-111, 2002	6
397.	Zhifan Chen and Alfred Z. Msezane	Correlation effects in the generalized oscillator strength of the magnesium 3 <sup>1</sup> S–3 <sup>1</sup> P transition	paper	J. Phys. B: At. Mol. Opt. Phys. <b>35</b> , 815–819, 2002	5
398.	M. Ya. Amusia, L. V. Chernysheva, Z. Felfli, A. Z. Msezane	Cross sections of Discrete-level Excitations of Noble-gas Atoms in Compton Scattering	paper	Phys. Rev. A <b>65</b> (6), 62705-1-8, 2002	8
399.	M. Ya. Amusia, L. V. Chernysheva V. G. Yarzhemsky	Lineshape of Ne 1s photoionization satellite [1s2s]( <sup>3</sup> S)3s and its valence Auger decay Spectrum	paper	Journal of Electron Spectroscopy and Related Phenomena, <b>127</b> (3), 153-9, 2002	7
400.	I. A. Shelykh, N. T. Bagraev, V. K. Ivanov, L. E. Klyachkin	Spontaneous spin polarization of electrons in quantum wires (In Russian: Спонтанная спиновая поляризация электронов в квантовых проволоках)	paper	Semiconductors 2002. T. <b>36</b> , в.1. C.65-73.	9
401.	N. T. Bagraev, A. D. Buravlev, L. E. Klyachkin, A. M. Malyaremkov, V. Gelkhoff V. K. Ivanov,, I. A. Shelykh	Quantized Conductivity in Silicon Quantum Wires (In Russian: Квантованная проводимость в кремниевых квантовых проволоках)	paper	Semiconductors, 2002. T. <b>36</b> , в.4. C.462-483.	22

402.	V. K. Dolmatov, J. P. Connerade, A. P. Lakshmi, S. T. Manson	Spectral properties of confined atoms	paper	Surface Review and Letters, 9, no.1, 39- 43, 2002	5
403.	G. F. Gribakin and J. Ludlow	Convergence of partial- wave expansions for energies, scattering amplitudes and positron annihilation rates	paper	J. Phys. B: At. Mol. Opt. Phys. 35, 339– 55, 2002	7
404.	S. J. Brotton, P. McKenna, G. Gribakin, I. D. Williams	Angular distribution for the elastic scattering of electrons from Ar+ (3s23p5 2P) above the first inelastic threshold	paper	Phys. Rev. A 66, 062706, 2002	
405.	A. S. Kheifets and I. Bray	Frozen core model of the double photoionization of beryllium	paper	Phys. Rev. A, 65(1):2710, 2002	
406.	I. Bray, D. V. Fursa, A. S. Kheifets and A. T. Stelbovics	Theory of electrons and photons colliding with atoms	paper	J. Phys. B <b>35</b> (16):R117-146, 2002	30
407.	A. Lyalin, A. Solov'yov, W. Greiner and S. Semenov	Hartree-Fock approach for metal-cluster fission	paper	Phys. Rev. A <b>65</b> , 023201, 2002	5
408.	S.Motoki, J.Adachi, K.Ito, K.Ishii, K.Soejima, A.Yagishita, S.K.Semenov and .A.Cherepkov	Direct Probe of the Shape Resonance Mechanism in $2\sigma_g$ -Shell Photoionization of the N <sub>2</sub> Molecule	paper	Phys. Rev. Lett. <b>88</b> , 063003, 2002	4

409.	T. Jahnke, Th.Weber, A. L. Landers, A. Knapp, S. Shossler, J. Nickles, S. Kammer, O. Jagutzki, L. Schmidt, A. Crasch, T. Osipov, E. Arenholz, A. T. Young, R. Diez Muino, D. Rolles, F. J. Garcia de Abajo, C. S. Fadley, M. A. Van Hove, S. K. Semenov, N. A. Cherepkov, J. Rosch, M. H. Prior, H. Schmidt-Böcking, C. L. Cocke, R. Dörner	Circular Dichroism in K- shell Ionization from Fixed-in-Space CO and N <sub>2</sub> Molecules	paper	Phys. Rev. Lett. <b>88</b> , 073002, 2002	4
410.	S. Motoki, I. Adachi, K. Ito, K. Ishii, K. Soejima, A. Yagishita, S. K. Semenov N. A. Cherepkov	Complete photoionization experiment in the region of the $2\sigma_g \rightarrow \sigma_u$ shape resonance of the N <sub>2</sub> molecule	paper	J. Phys. B <b>35</b> , 3801- 3819, 2002	
411.	S. K. Semenov, N. A. Cherepkov	Generalization of atomic RPA method for diatomic molecules. II. N <sub>2</sub> K-shell photoionization	paper	Phys. Rev. A <b>66</b> , 022708, 2002	
412.	A. V. Golovin and N. A. Cherepkov.	Angular distributions of photoelectrons from K- shells of a fixed-in-space CO molecule calculated by the multiple scattering $X\alpha$ method	paper	J. Phys. B <b>35</b> , 3191, 2002	
413.	A. V. Korol, A. G. Lyalin, A. V. Solov'yov, N. B. Avdonina and R. H. Pratt	On the stripping approximation in the bremsstrahlung process	paper	J. Phys. B <b>35</b> , 1199- 1210, 2002	11
414.	V. K. Ivanov, K. V. Lapkin, M. A. Koulov.	Photodetachment of electrons from the 1s shell of a negative lithium ion (In Russian: Фотоотрыв электронов из 1s- оболочки отрицательного иона лития)	paper	JETP Lett (Письма в ЖТФ. 2003. Т.29, в.15, с.9-16.)	8

415.	V. K. Ivanov, G.Yu.Kashenok, R. G. Poloskov, A.V. Solov'ev	Method for calculating the photoionization cross sections for fullerenes based on the local density approximation and random phases. (In Russian: Метод расчета сечений фотоионизации фуллеренов на основе приближения локальной плотности и случайных фаз)	paper	JETP (ЖЭТФ. 2003. T.123, в.4, с.744–756).	1 3
416.	V. K. Ivanov	"The Department of Experimental Physics. 100 <sup>th</sup> Anniversary"	paper	Sixth Int. Workshop on Nondestructive Testing and Computer Simulations in Science and Engineering (NDTCS-2002, 10-16 June 2002, St.Petersburg, Russia). Proceedings of SPIE. Ed. A. Melker. 2003. V.5127, P. XV-XIX	5
417.	V. K. Ivanov, M. A. Koulov.	"Double-electron excitation effects in the 4s4p <sup>6</sup> np autoionizing resonances in Kr and its isoelectronic ions sequence"	paper	ibid. 2003. V. 5127, P.31-36.	6
418.	K. V. Lapkin, V. K. Ivanov, M. A.Koulov	"Inner-shell photodetachment of lithium negative ion with excitation".	paper	ibid. 2003. V. 5127, P.37-40.	4
419.	V. V. Semenikhina, V. K. Ivanov, A. N. Ipatov, C. V. Lapkin	"Elastic electron scattering on negative lithium ion".	paper	ibid. 2003. V. 5127, P. 41-43	3
420.	I. A. Shelykh, N. T. Bagraev, V. K. Ivanov, L .E. Klyachkin,	"Spin polarisation in low density quantum wires".	paper	Journal of Superconductivity, 2003. V.16 (2), P. 355-356	2
421.	M. Ya. Amusia, L. V. Chernysheva, Z. Felfli, A. Z. Msezane	Determination of Discrete Transitions Multipolarity using the Generalized Oscillator Strength	paper	Phys. Rev. A 67, 022703-1-8, 2003	8

422.	D. Davidovich, V. Radojevich, M. Ya. Amusia	Near-threshold photoionization of the Xe 3d spin-orbit doublet: relativistic, relaxation, and intershell interaction effects	paper	Phys. Rev. A <b>67</b> , 22719-1-6, 2003	6
423.	M. Ya. Amusia, N. A. Cherepkov, L. V. Chernysheva	Elastic scattering of Slow Positrons on Atoms	paper	JETP, <b>124</b> , 1(7), pp. 1- 9, 2003	9
424.	M. Ya. Amusia, A. S. Baltenkov, L. V. Chernysheva, Z. Felfli, S. T. Manson, A. Z. Msezane	On the effect of intra- doublet correlations upon the non-dipole parameters in Xe	paper	INFN Frascati Physics Series, v. <b>XXXII</b> , pp. 3-8, 2003	6
425.	M. Ya. Amusia, A. S. Baltenkov, L. V. Chernysheva, Z. Felfli, S. T. Manson, A. Z. Msezane	Correlation Structure in Nondipole photoionization	paper	Phys. Rev. A, <b>67</b> (6), 60702-1-4, 2003	4
426.	E. Kanter, R. Krassig, S. H. Southworth, M. Ya. Amusia, L. V. Chernysheva	<i>E1 - E2</i> Interference in the VUV photoionization of <i>He</i>	paper	Phys. Rev. A, <b>68</b> (1), 12714-1-10, 2003	10
427.	O. Hemmers, R. Guillemin, E. P. Kanter, D. Lindle, M. Ya. Amusia, L. V. Chernysheva <i>et. al.</i>	Dramatic Nondipole effects in low energy photoionization: experimental and theoretical study of Xe5s	paper	Phys. Rev. Let., <b>91</b> (5), 053002/1-4, 2003	4
428.	V. Radojevich, D. Davidovich, M. Ya. Amusia	Near-Threshold Photoionization of the Ba 3d Spin-orbit Doublet - some new theoretical results	paper	Balkan Physics Conference Proceedings, pp. 161 - 166, 2003	6
429.	V. K. Dolmatov, A.S. Baltenkov , S.T. Manson	Enhanced nondipole effects in photoelectron angular distributions near giant dipole autoionizing resonances in atoms	paper	Phys. Rev. A <b>67</b> , 062714 (1-6), 2003	6
430.	A. S. Kheifets and I. Bray	Double shake-off model for triple photoionization of beryllium	paper	J. Phys. B <b>36</b> (13): L211-L217, 2003	7
431.	S.K.Semenov, N.A.Cherepkov	Photoionization of the H <sub>2</sub> molecule in the random phase approximation	paper	J. Phys. B <b>36</b> (2003) 1409-1422	14

432.	N.A.Cherepkov, S.K.Semenov, M.Drescher, U.Heinzmann.	Resonance enhancement of non-dipole effects in spin polarization of atomic photoelectrons	paper	J. Phys. B 36 (2003) 3063-3078	16
433.	H. Yamaoka, M. Oura, Takahiro K, Mokikawa T, Ito S, Mizumaki M, S.Semenov, N. Cherepkov. N. Kabachnik, T. Mukoyama	Alignment following Au L <sub>3</sub> photoionization by synchrotron radiation	paper	J. Phys. B 36 (2003) 3889-3897	9
434.	J.Adachi, Hosaka K., S. Furuya , Soejima K, Takahashi M, A.Yagishita, S.K. Semenov, N.A. Cherepkov	Shape-Resonance- Enhanced Vibrational Effects in the Angular distributions of C 1s photoelectrons from Fixed-in-Space CO molecules	paper	Phys. Rev. Lett. 91 (2003) 163001	
435.	M. Ya. Amusia,	Random phase approximation: from Giant to Intra-doublet resonances	paper	Radiation Physics and Chemistry, 70, 237-251, 2004	15
436.	V. F. Gopka, A V. Yushchenko, A. V. Shavrina, D. E. Mkrtichian, A. P. Hatzes, S. M. Andrievsky, L. V. Chernysheva	On the radioactive shells in peculiar main sequence stars: the phenomenon of Przybylski's star	paper	Proceedings of the International Astronomical Union 01; 224:734-742, 2004	9
437.	M. Ya. Amusia, A. S. Baltenkov, L. V. Chernysheva, Z. Felfli, S. T. Manson, A. Z. Msezane	Intra-doublet correlation effect in dipole angular anisotropy parameters of 3d electrons	paper	J. Phys. B: At. Mol. Opt. Phys., 37, 937- 944, 2004	8
438.	M. Ya. Amusia, A. S. Baltenkov, V. K. Dolmatov, S. T. Manson, A. Z. Msezane	<i>Confinement Resonances</i> in Photoelectron Angular distributions from Endohedral atoms	paper	Phys. Rev. A 70, 023201-1-5, 2004	5
439.	M. Ya. Amusia, N. A. Cherepkov, L. V. Chernysheva, Z. Felfli, A. Z. Msezane	On spin polarization of photoelectrons from Xe, Cs, and Ba 3d spin-orbit components	paper	Phys. Rev. A 70, 062709-1-8, 2004	8
440.	V. K. Ivanov	"Theoretical studies of photodetachment"	paper	Radiation Physics and Chemistry, 2004. V. 70 (1-3), pp. 345-370	25

441.	I. A. Shelykh, V. K. Ivanov	"To the development of the transfer matrix formalism"	paper	Phys. Stat. Sol. (c) 2004. V. 1 (6), pp. 1549-1553	5
442.	I. A. Shelykh, V. K. Ivanov	"Differential Equation for the Transfer Matrix"	paper	International Journal of Theoretical Physics 2004. V. 43, n. 2, pp. 477-482	6
443.	C. V. Lapkin, V. K. Ivanov.	"Inner-shell photodetachment of negative ions".	paper	Seventh Int. Workshop on Nondestructive Testing and Computer Simulations in Science and Engineering (NDTCS-2003, 9-15 June 2003, St.Petersburg, Russia). Ed. A.I. Melker. Proceedings of SPIE Vol. 5400. (SPIE, Bellingham, 2004). P.42-45	4
444.	V. V. Semenikhina, V. K. Ivanov, C. V. Lapkin.	"Differential cross section of elastic electron scattering by negative lithium ion"	paper	ibid. P. 46-49	4
445.	M. A. Kulov, N. O. Vasetskaya, V. K. Ivanov	"Autoionizing $3s \rightarrow np$ resonances in neutral potassium and calcium".	paper	ibid. P. 50-53	4
446.	N. T. Bagraev, I. A. Shelykh, V.K.Ivanov, L. E. Klyachkin,	"Spin depolarization in quantum wires polarized spontaneously in zero magnetic field"	paper	Phys. Rev. B. 2004. V. 70, p.p. 155315- 1/9.	9
447.	V. K. Ivanov, G. Yu. Kashenock, R. G. Polozkov, A. V. Solov'yov.	"Jellium model for photoionization of fullerenes".	paper	Latest Advances in Atomic Cluster Collisions: Fission, Fusion, Electron, Ion and Photon Impact. Eds J.-P. Connerade and A.V. Solov'yov. Imperial College Press. 2004. P. 105- 112	8
448.	V. K. Dolmatov, A. S. Baltenkov, J. P. Connerade, S.T. Manson	Structure and photoionization of confined atoms	paper	Radiation Physics and Chemistry 2004 70 417-433, 2004.	

449.	G. Gribakin and J. Ludlow	Many-body theory of positron-atom interactions	paper	Phys. Rev. A <b>70</b> ,032720 (2004)	
450.	P. Bolognesi, L. Avaldi, I. Bray, R. Camilloni, M. Coreno, K. Kazansky, A. S. Kheifets, L. Malegat, P. Selles, G. Turri M. Zitnik	The photodouble ionisation of helium and heavier rare gases	paper	Physica Scripta <b>T110</b> , 62, 2004	
451.	P. Bolognesi, R. Flammini, A. S. Kheifets, I. Bray and L. Avaldi	Experimental observation of initial state effects in photodouble ionisation of Ne 2s	paper	Phys. Rev. A, <b>70</b> , 062715, 2004	
452.	N. A. Cherepkov, S. K Semenov, A. V. Golovin, J. Adachi and A. Yagishita	O K-shell photoemission of CO molecule: comparison between theory and experiment	paper	J. Phys. B <b>37</b> , 4803- 4815, 2004	13
453.	N. A. Cherepkov, S. K. Semenov	On a complete experiment on photoionization of atoms	paper	J. Phys. B <b>37</b> 1267- 1272, 2004	6
454.	S. K Semenov, N. A. Cherepkov, T. Jahnke, R. Dörner	Theoretical study of vibrationally resolved photoionization for the C K-shell of the CO molecule	paper	J. Phys. B <b>37</b> (2004) 1331-1342	12
455.	T. Jahnke, L. Foucar, J. Titze, R. Wallauer, T. Osipov, E. P. Benis, A. Alnaser, O. Jagutzki, W. Arnold, S.K. Semenov, N. A. Cherepkov, L. Ph. H. Schmidt, A. Czasch, A. Staudte, M. Schöffler, C. L. Cocke, M. H. Prior, H. Schmidt-Böcking, R. Dörner	Vibrationally Resolved K-shell Photoionization of CO with Circularly Polarized Light	paper	Phys. Rev. Lett. <b>93</b> , 083002, 2004	



456.	J. Adachi, K. Hosaka S. Furuya, K. Aima, M. Takahashi A. Yagishita, S. K. Semenov, N. A. Cherepkov.	Angular distribution of vibrationally-resolved C 1s photoelectrons from fixed-in-space CO molecules: vibrational effect in the shape-resonant C 1s photoionization of CO	paper	J. Electron Spectrosc. & Relat. Phenom., <b>137-140</b> , 243-248, 2004	6
457.	S. K. Semenov, N. A. Cherepkov, A. DeFanis, Y. Tamenori, M. Kitajima, H. Tanaka, K. Ueda	Interplay of different partial waves on vibrationally resolved photoionization of the O K shell of the CO molecule	paper	Phys. Rev. A <b>70</b> , 052504, 2004	
458.	V. V. Semenikhina, V. K. Ivanov, K. V. Lapkin.	Elastic scattering of an electron by a negative lithium ion (In Russian: Упругое рассеяние электрона на отрицательном ионе лития)	paper	ЖТФ (ЖТФ. 2005. Т.75, в.3, с.24-29)	6
459.	M. A. Kulov, N. O. Vasetskaya, V. K. Ivanov.	"Autoionizing Rydberg series in alkali atoms"	paper	Journal of Electron Spectroscopy and Related Phenomena. 2005. V. 144-147, pp. 1219-1221.	4
460.	M. A. Kulov, N. O. Vasetskaya, V. K. Ivanov.	Autoionization resonances in the photoionization cross section of outer p-electrons of alkali metal atoms (In Russian: Автоионизационные резонансы в сечении фотоионизации внешних р-электронов атомов щелочных металлов)	paper	ЖЭТФ Lett (Письма в ЖТФ. 2005. Т. 31, в.9, с.83-88)	6

461.	M. A. Kulov, N. O. Vasetskaya, V. K. Ivanov	"Autoionizing Rydberg series in photoionization cross section of alkali atoms".	paper	Eighth Int. Workshop on Nondestructive Testing and Computer Simulations in Science and Engineering (NDTCS-2004, 7-13 June 2004, St.Petersburg, Russia). Ed. A.I. Melker. Proceedings of SPIE Vol. <b>5831</b> . (SPIE, Bellingham, 2005). P.22-25	4
462.	V. V. Semenikhina, V. K. Ivanov, R. G. Polozkov	"Elastic electron scattering by negative metallic cluster ion: $\text{Na}_7^{--}$ "	paper	Ibid. P. 26-29	4
463.	R. G. Polozkov, V. K. Ivanov, A. V. Solov'yov.	"Photoionization of fullerene ion $\text{C}_{60}^{+}$ "	paper	J.Phys.B:At. Mol. Opt. Phys. 2005. <b>38</b> , n., 4341-4348	8
464.	M. Ya. Amusia, N. A. Cherepkov, L. V. Chernysheva, Z. Felfli, A. Z. Msezane	On the non-dipole effects in spin polarization of the photoelectrons from 3d electrons of Xe, Cs and Ba	paper	J. Phys. B, At. Mol. Opt. Phys, <b>38</b> , 1133-1141, 2005	9
465.	M. Ya. Amusia, A. S. Baltenkov, L. V. Chernysheva, Z. Felfli, A. Z. Msezane	Dramatic distortion of 4d Giant resonance by the Fullerenes $\text{C}_{60}$ shell	paper	J. Phys. B: At. Mol. Opt. Phys, <b>38</b> , L169-73, 2005	5
466.	N. B. Avdonina, D. Fursa, A. Z. Msezane, R. H. Pratt	Minima in generalized oscillator strengths of atomic transitions and the approach to the high-energy limit	paper	Phys. Rev. A <b>71</b> , (6) 062711, 2005	6
467.	M. Ya. Amusia, V. G. Yarzhemsky, Yu. A. Teterin, A. Yu. Teterin, V. I. Nefedov	Structure of X-ray Photoelectron 4p-spectra of Xe and Compounds of Cs, Ba, La	paper	Surface. X-ray, synchrotron and neutron research (in Russian: Поверхность. Рентгеновские, синхротронные и нейтронные исследования, <b>6</b> , 3-8, 2005)	6

468.	M. Ya. Amusia, A. S. Baltenkov, L. V. Chernysheva, Z. Felfli, A. Z. Msezane	Near-threshold behavior of angular anisotropy parameters in negative ions photo-detachment	paper	Phys. Rev. A <b>72</b> , 032727(7), 2005	7
469.	V. K. Dolmatov, D. Bailey, S. T. Manson	Gigantic enhancement of atomic nondipole effects: The $3s \rightarrow 3d$ resonance in Ca	paper	Phys. Rev. A <b>72</b> , 022718 (1-5), 2005.	5
470.	S. K. Semenov, N. A. Cherepkov, A. De Fanis, . Tamenori, M. Kitajima, H. Tanaka, K. Ueda	Vibrationally resolved photoionization of the O K-shell of CO molecule	paper	Journal of Electron Spectroscopy and Related Phenomena <b>144-147</b> , 211-214, 2005	5
471.	N. B. Avdonina, D. Fursa, A. Z. Msezane, R. H. Pratt	Minima of generalized oscillator strengths of atomic transitions and the approach to the high energy limit	paper	Phys. Rev. A <b>71</b> , 062711, 2005	
472.	Zhifan Chen and Alfred Z. Msezane	Random-phase approximation with exchange for the inner- shell electron transitions	paper	Phys. Rev. A <b>72</b> , 050702(R), 2005	4
473.	M. Ya. Amusia	Many-Body Theory of Atomic Structure and Processes	paper	in: <i>Atomic, Molecular and Optical Physics Handbook</i> , Second edition, Ed. G. Drake, Springer, Chapter 23, 2006	
474.	M. Ya. Amusia, A. S. Baltenkov, L. V. Chernysheva, Z. Felfli, A. Z. Msezane	Modification of the Xe $4d$ Giant Resonance by the $C_{60}$ Shell in Molecular $Xe@C_{60}$	paper	Zh. Exp. Teor. Fiz., <b>129</b> , 1, 63-70; JETP, <b>102</b> , 1, 53-60, 2006	8
475.	H. Farrokhpour, M. Alagia, L. Avaldi, M. Ya. Amusia, L. V. Chernysheva M. Coreno, M. de Simone, R. Richter, S. Stranges	Observation of the spin- orbit activated interchannel coupling in the $3d$ photoionization of caesium atoms	paper	J. Phys. B: At. Mol. Opt. Phys. <b>39</b> 765- 771, 2006	7
476.	M. Ya. Amusia, A. S. Baltenkov	Effect of plasma oscillations of $C_{60}$ collectivized electrons on photoionization of endohedral noble-gas atoms	paper	Phys. Rev. A <b>73</b> , 062723, 2006. July 11, 2006 issue of Virtual Journal of Nanoscale Science & Technology	

477.	M. Ya. Amusia, L. V. Chernysheva, Z. Felfli, A. Z. Msezane	Generalized Oscillator Strengths for the 3d Electrons of Xe, Cs and Ba: Effects of Spin-Orbit Activated Interchannel Coupling	paper	Phys. Rev. A, <b>73</b> , 062716, 2006	
478.	M. Ya. Amusia, L. V. Chernysheva	Non-dipole angular anisotropy parameters of photoelectrons from semi-filled shell atoms	paper	J. Phys. B: At. Mol. Opt. Phys., <b>39</b> , 4627-4636, 2006	10
479.	G.Yu.Kashenock, V.K.Ivanov	"Inner-shell photodetachment of C <sup>-</sup> : the dramatic role of dynamical relaxation in collective response"	paper	J. Phys. B: At. Mol. Opt. Phys. <b>39</b> , n., 1379-1393, 2006	15
480.	P. S. Shternin, V. K. Ivanov, A. G. Suits, and O.S.Vasyutinskii	"The role of intermediate state polarization in determination of vector properties of the ground state using multiphoton excitation"	paper	Phys. Chem. Chem. Phys., <b>8</b> , 2972 – 2984, 2006	13
	N. B. Avdonina	Influence of Correlations on the Trajectories of Zeroes of the Matrix Elements for Bound-bound and Bound-free Transitions in Electron Scattering Elements for Bound-bound and Bound-free Transitions in Electron Scattering	paper	Radiation Physics and Chemistry <b>75</b> , 12, 2124–2128, 2006	5
481.	A. V. Solov'yov, V. K. Ivanov and R. G. Polozkov.	"Electron - positron quantum droplets".	paper	Eur. Phys. J. D <b>40</b> , 313-316 (Section 'Rapid Notes'), 2006	4
482.	V. K. Ivanov, N. O. Vasetskaya, V. A. Kharchenko	Radiative decays of doubly excited states of oxygen and carbon ions (In Russian: Радиационные распады дважды возбужденных состояний ионов кислорода и углерода)	paper	Scientific and technical statements of SPbSTU (In Russian: Научно-технические ведомости СПбГТУ. Т. 5-1 (47). С.31-39, 2006)	9
483.	V. K. Dolmatov and S. T. Manson	Photoionization of atoms encapsulated in endohedral ions A@C60	paper	Phys. Rev. A <b>73</b> , 013201 (1-5), 2006.	5
484.	V. K. Dolmatov and S.T. Manson	Strong final-state term-dependence of nondipole photoelectron angular distributions from half-filled shell atoms	paper	Phys. Rev. A <b>74</b> , 032705 (1-7), 2006.	7

485.	L. J. M. Dunlop, G. F. Gribakin	Many-body theory of gamma spectra from positron-atom annihilation	paper	J. Phys. B 39, 1647– 1668, 2006	22
486.	A. Aguilar, J. D. Gillaspay, G. F. Gribakin, R. A. Phaneuf, M. F. Gharaibeh, M. G. Kozlov, J. D. Bozek, and A. L. D. Kilcoyne	Absolute photoionization cross sections for Xe <sup>4+</sup> , Xe <sup>5+</sup> and Xe <sup>6+</sup> near 13.5 nm: Experiment and theory	paper	Phys. Rev. A <b>73</b> , 032717, 2006	
487.	L. J. M. Dunlop and G. F. Gribakin	Positronium formation from valence and inner shells in noble gas atoms	paper	Nucl. Instrum. and Methods B <b>247</b> , 61– 67, 2006	7
488.	A. Aguilar, J. D. Gillaspay, G. F. Gribakin, R. A. Phaneuf, M. F. Gharaibeh, M. G. Kozlov, J. D. Bozek, and A. L. D. Kilcoyne	Absolute photoionization cross sections for Xe <sup>4+</sup> , Xe <sup>5+</sup> and Xe <sup>6+</sup> near 13.5 nm: Experiment and theory	paper	Phys. Rev. A <b>73</b> , 032717, 2006	
489.	P. Bolognesi, A. Kheifets, S. Otranto, M. Coreno, V. Feyer, F. Colavecchia, C. R. Garibotti and L. Avaldi	Photodouble ionisation studies of the Ne ( $2s^2$ ) state in unequal energy sharing conditions	paper	J. Phys. B <b>39</b> , 1899, 2006	
490.	S K Semenov, N A Cherepkov, M Matsumoto, K Fujiwara, K Ueda, E Kukk, F. Tahara, T. Sunami, H Yoshida, T Tanaka, K. Nakagawa, M. Kitajima, H. Tanaka A. De Fanis	Vibrationally resolved photoionization of the $1\sigma_g$ and $1\sigma_u$ shells of N <sub>2</sub> molecule	paper	J. Phys. B: At. Mol. Opt. Phys. <b>39</b> (2006) 375-386	12
491.	K Hosaka, J Adachi1, A V Golovin, M. Takahashi, T. Teramoto, N Watanabe, A Yagishita, S K Semenov, N A Cherepkov	Non-dipole effects in the angular distribution of photoelectrons from the K-shell of N <sub>2</sub> molecule	paper	J. Phys. B: At. Mol. Opt. Phys. <b>39</b> , L25- L34, 2006	10

492.	K. Hosaka, J. Adachi, A. V. Golovin, M. Takahashi, T. Teramoto, N. Watanabe, T. Jahnke, Th. Weber, M. Schoffler, L. Schmidt, T. Osipov, O. Jagutzki, A. L. Landers, M. H. Prior, H. Schmidt-Böcking, R. Dörner, A. Yagishita, S. K. Semenov, N. A. Cherepkov.	Nondipole effects in the angular distribution of photoelectrons from the C K shell of the CO molecule	paper	Phys. Rev. A <b>73</b> , 022716, 2006	
493.	S. K. Semenov, N A Cherepkov, M Matsumoto, T Hatamoto, X-J Liu, G Prümper, T Tanaka, M Hoashino, H Tanaka, F Gel'mukhanov and K Ueda	Interference modulation in the vibrationally resolved photoionization of the $1\sigma_g$ and $1\sigma_u$ core levels of the N <sub>2</sub> molecule	paper	J. Phys. B: At. Mol. Opt. Phys. <b>39</b> , L261-L267, 2006	7
494.	Zhifan Chen and Alfred Z Msezane	Random-phase approximation with exchange for inner-shell electron transitions: effects of inter-shell correlations	paper	J. Phys. B: At. Mol. Opt. Phys. <b>39</b> , 4355–4363, 2006	9
495.	Zhifan Chen and Alfred Z Msezane	Random-phase approximation with exchange for inner-shell electron transitions: effects of inter-shell electron photoionization	paper	In: Contemporary Problems in Mathematical Physics, Oct. 2006, Proceedings of the Fourth International Workshop Cotonou, Republic of Benin, 5 – 11 November 2005, 198-211	4
496.	X-J Liu, N. A. Cherepkov, S. K. Semenov, V. Kimberg, F. Gel'mukhanov, G. Prümper, T. Lischke, T. Tanaka, M. Hoshino, H. Tanaka and .K Ueda	Young's double-slit experiment using core-level photoemission from N <sub>2</sub> : revisiting Cohen-Fano's two-centre interference phenomenon	paper	J. Phys. B: At. Mol. Opt. Phys. <b>39</b> , 4801-4817, 2006	17

497.	N. O. Vasetskaya, V. K. Ivanov	Radiative decays of doubly excited states of heavy ions of the solar wind. (In Russian: Радиационные распады дважды возбужденных состояний тяжелых ионов солнечного ветра)	paper	In: Automation, informatization, innovation in transport systems (Сборник: Автоматизация, информатизация, инновация в транспортных системах. Ред. Р.Э.Францева. СПб: СПГУВК, 2007. №4, с.73-82)	10
498.	A. K. Belyaev, A. I. Toropkin, A. S. Tyukanov, V. K. Ivanov, R. G. Polozkov, A. V. Solov'ev, B. Greiner	Calculations of electronic structures and photoionization cross sections for fullerene C <sub>60</sub> and its ions (In Russian: Расчеты электронных структур и сечений фотоионизации фуллерена C <sub>60</sub> и его ионов)	paper	Physical messenger. Collection of scientific articles. (In Russian: Физический вестник. Сборник научных статей. Выпуск 1. РГПУ им. А.И.Герцена. Санкт-Петербург, 2007. Стр. 3-9)	7
499.	S Sheinerman, P Lablanquie, F Penent	Double photoionization near the inner-atomic shell threshold: dynamics of two-electron emission	Paper	J. Phys. B: At. Mol. Opt. Phys. 40 (2007) 1889–1906	18
500.	V. K. Ivanov, R. G. Polozkov, A. V. Solov'ev	On the possibility of the existence of an electron-positron cluster. (In Russian: К возможности существования электрон-позитронного кластера)	paper	Scientific and technical statements of SPbSTU (In Russian: Научно-технические ведомости СПбГТУ. 2007. Т.1 (49). С.233-238)	6
501.	A.K. Belyaev, V.. K. Ivanov, R. G. Polozkov, A. S. Tiukanov, A. V. Solov'yov, W. Greiner.	"Photoabsorption of the Fullerene Ions C <sub>60</sub> <sup>+</sup> and C <sub>60</sub> <sup>++</sup> ".	paper	International Journal of Quantum Chemistry. Vol. 107, 2781-2786 (2007).	6
502.	M. Ya. Amusia, A. S. Baltenkov and L. V. Chernysheva	Photoionization of Xe 3d electrons in molecule Xe@C <sub>60</sub> : interplay of intra-doublet and confinement resonances	paper	Phys. Rev. A75, 043201, 2007	

503.	M. Ya. Amusia	Fast Electron scattering as a tool to study target's structure	paper	Journal of Electron Spectroscopy and Related Phenomena, <b>159</b> , 81–90, 2007	10
504.	M. Ya. Amusia	Photoionization and vacancy decay of endohedral atoms	paper	Journal of Electron Spectroscopy and Related Phenomena, <b>161</b> , 112-120, 2007	9
505.	M. Ya. Amusia, L. V. Chernysheva, Z. Felfli, A. Z. Msezane	Octupole Contributions to the Generalized Oscillator Strengths of Discrete Dipole Transitions in Noble Gases	paper	Phys. Rev. A <b>75</b> , 062703, 2007	
506.	V. K. Dolmatov, S. T. Manson	Spin-polarized photoelectrons from half-filled shell atoms	paper	Phys. Rev. A <b>75</b> , 022701(4), 2007	4
507.	V. K. Dolmatov, E. Guler, S. T. Manson	"Reading" the photoelectron $\beta$ -parameter spectrum in a resonance region	paper	Phys. Rev. A Vol.76, 032704(1-5), 2007.	5
508.	A. Kheifets, Igor Bray	Valence shell double photoionization of alkaline-earth atoms	paper	Phys. Rev. A <b>75</b> , 042703, 2007	
509.	A. Kheifets	Sequential two-photon double ionization of noble gas atoms	paper	J. Phys. B <b>40</b> , F313, 2007	
510.	S. K. Semenov, V. V. Kuznetsov, N. A. Cherepkov, P. Bolognesi, V. Feyer, A. Lahmam-Bennani, M. E. Staicu Casagrande, L. Avaldi	Angular distributions of molecular Auger electrons: The case of C 1s Auger emission in CO	paper	Phys. Rev. A <b>75</b> , 032707, 2007	
511.	T. Jahnke, A. Czasch, M. Schöffler, S. Schössler, M. Kłiasz, J. Titze, K. Kreidi, R. E. Grisenti, A. Staudte, O. Jagutzki, L. Ph. H. Schmidt, S. K. Semenov, N. A. Cherepkov, H. Schmidt-Böcking R. Dörner	Photoelectron and ICD electron angular distributions from fixed-in-space neon dimers	paper	J. Phys. B: At. Mol. Opt. Phys. <b>40</b> 2597-2606, 2007	10
512.	N. A. Cherepkov, V. V. Kuznetsov, S. K. Semenov	Resonance behavior of atomic and molecular photoionization amplitudes	paper	Phys. Rev. A <b>76</b> , 012715(1-11), 2007	11



513.	N. A. Cherepkov and S. K. Semenov	New developments in the theory of molecular K-shell photoionization	paper	Int. J. Quantum Chem. <b>107</b> , 2889-2901, 2007	13
514.	M. Ya. Amusia, A. S. Baltenkov and L. V. Chernysheva	Photoionization of 3d electrons of Xe, Cs and Ba endohedral atoms: comparative analyses	Paper	Central European Journal of Physics, <b>6</b> , 1, 14-25, 2008	10
515.	M. Ya. Amusia, A. S. Baltenkov and L. V. Chernysheva	Giant Resonances of Endohedral atoms	Paper	JETP Letters, <b>87</b> , 4, 230-233, 2008	4
516.	M. Ya. Amusia, A. S. Baltenkov and L. V. Chernysheva	On the photoionization of the outer electrons in noble gas endohedral atoms	Paper	JETP (Zh. Exp. Teor. Fiz.), <b>134</b> , 2(8), 221-230, 2008	10
517.	F Penent, S Sheinerman, L Andric, P Lablanquie, J Palaudoux, U Becker, M Braune, J Viefhaus and J H D Eland	Dynamics of electron emission in double photoionization processes near the krypton 3d threshold	Paper	J. Phys. B: At. Mol. Opt. Phys. <b>41</b> (2008) 045002	14
518.	M. Ya. Amusia, A. S. Baltenkov, L. V. Chernysheva	Photoionization of subvalent electrons in noble gas endohedrals: interference of three resonances	Paper	J. Phys. B: At. Mol. Opt. Phys. <b>41</b> 165201, 2008	
519.	Zhifan Chen and A. Z. Msezane	Random-phase approximation with exchange for the photoionization of an atom with an inner open shell	Paper	Phys. Rev. A <b>77</b> , 042703, 2008	7
520.	N. O. Vasetskaya, V. K. Ivanov	Radiative decays of doubly excited states of oxygen, carbon and nitrogen ions. (In Russian: Радиационные распады дважды возбужденных состояний ионов кислорода, углерода и азота)	Paper	Optics and Spectr. (In Russian: Оптика и спектроскопия. 2008. Т. 105, № 5, с. 726-731)	6
521.	N. O. Vasetskaya, V. K. Ivanov	Auger decays of doubly excited states of oxygen, carbon, and nitrogen ions (In Russian: Оже-распады дважды возбужденных состояний ионов кислорода, углерода и азота)	Paper	Scientific and technical statements of SPbSTU (In Russian: Научно-технические ведомости СПбГТУ. 2008. Т. 2 (54). С. 223 – 230)	8

522.	A.K. Belyaev, V.. K. Ivanov, R. G. Polozkov, A. S. Tiukanov, A. V. Solov'yov	Ionization of C <sub>60</sub> fullerene and its ions upon photoabsorption of photons (In Russian: Ионизации фуллерена C <sub>60</sub> и его ионов при фотопоглощении фотонов)	Paper	Physical bulletin of scientific articles (In Russian: Физический вестник. Сборник научных статей. Выпуск 2. РГПУ им. А.И.Герцена. Санкт-Петербург, 2008. Стр. 3-10)	8
523.	V. K. Ivanov, R. G. Polozkov, A. V. Solov'yov	"Electron-positron clusters: structure and stability".	Book chapter	In the book: Latest Advances in Atomic Cluster Collisions. Structure and Dynamics from the Nuclear to the Biological Scale. Eds J.-P.Connerade and A.V. Solov'yov. Imperial College Press. 2008. P.p. 297-310	14
524.	A. V. Verchovtsev, V. K. Ivanov, V. S. Komarov R. G. Polozkov, A. V. Solov'yov.	On the stability of quantum cluster systems (In Russian: О стабильности квантовых кластерных систем)	Paper	Scientific and technical statements of SPbSTU (In Russian: Научно-технические ведомости СПбГПУ, физико-математические науки. 2008, т. 6(67), с.33-42)	10
525.	V. K. Ivanov, I. N. Toptygin	On the question of the physical interpretation of electromagnetic fields and phenomena (In Russian: К вопросу о физической интерпретации электромагнитных полей и явлений)	Paper	Scientific and technical statements of SPbSTU (In Russian: Научно-технические ведомости СПбГПУ. 2008, т. 3(59), с.301-303)	3
526.	V. K. Ivanov, I. N. Toptygin	On the physical interpretation of electromagnetic fields (In Russian: О физической интерпретации электромагнитных полей)	Paper	Scientific and technical statements of SPbSTU (In Russian: Научно-технические ведомости СПбГПУ. 2008, т. 3(59), с.306-307)	2

527.	V. K. Dolmatov and S. T. Manson	Correlation confinement resonances in endohedral atoms: Xe@C60	paper	J. Phys. B: At. Mol. Opt. Phys., Vol. 41, p.165001 (4pp), 2008, (also featured in IOP Select, and was one of the most highly ranked papers by the referees).	4
528.	V. K. Dolmatov, P. Brewer, S. T. Manson	Photoionization of atoms confined in giant single-walled and multiwalled fullerenes	paper	Physical Review A, Vol.78, 013415 (1-6) [also selected for compilation in Virtual Journal of Nanoscale Science & Technology (August 4, 2008)]	6
529.	P. Bolognesi, G. Bogachev, V. Borovik, S. Veronesi, R. Flammini, E. Fainelli, A. Borovik, C.T. Whelan, H.R.J. Walters, A. Kheifets and L. Avaldi	The ionization of Mg by electron impact at 1000 eV studied by (e,2e) experiments	paper	J. Phys. B 41, 015201, 2008	
530.	A Naja, E M Staicu Casagrande, A Lahmam-Bennani, M. Stevenson, B Lohmann, C Dal Cappello, K Bartschat, A Kheifets, I Bray and D V Fursa	(e,2e) triple differential cross sections for ionisation beyond helium: the neon case at large energy transfer	paper	J. Phys. B 41, 085205, 2008	
531.	A Kheifets, A Naja, E M Staicu Casagrande and A Lahmam-Bennani	DWBA-G calculations of electron impact ionization of noble gas atoms	paper	J. Phys. B 41, 145201, 2008 Erratum	1
532.	Z. Chen and A. Msezane	Random Phase Approximation with Exchange for the Photoionization of an Atom with an Inner Open Shell	paper	Phys. Rev. A 77, 4, 9, Pt. A 042703/1-7, 2008	7

533.	Z. Chen and A. Msezane	Random Phase Approximation with Exchange for the Photoionization of Confined Atoms: Xe in C60 Fullerene	paper	E-Print Archive, Physics: 1-16, arXiv:0811.2185v1[p hysics.atom-ph], 2008	
534.	V. K. Ivanov, P. I. Yatsyshin.	Resonances in the cross section for the photodetachment of 2p electrons from the negative Na- ion (In Russian: Резонансы в сечении фотоотрыва 2p- электронов от отрицательного иона Na-)	paper	JTP (in Russian: ЖТФ. 2009. т 79. в 1. стр. 10-15)	6
535.	N. O. Vasetskaya, V. K. Ivanov.	Auger decays of doubly excited states of oxygen, carbon, and nitrogen ions (In Russian: Оже- распады дважды возбужденных состояний ионов кислорода, углерода и азота)	paper	JTP Lett (in Russian: Письма в ЖТФ. 2009. Т. 35, в. 4, с. 38-46)	9
536.	P. I. Yatsyshin, V. K. Ivanov, R. G. Polozkov, A. V. Solov'yov.	The structure of electron- positron clusters. Hartree- Fock approximation (In Russian: Структура электрон-позитронных кластеров. Приближение Хартри- Фока)	paper	Scientific and technical statements of SPbSTU (In Russian: Научно- технические ведомости СПбГПУ, физико- математические науки. 2009, т. 1(73), с.9 – 17)	9
537.	R. G. Polozkov, V. K. Ivanov, A. V. Verkhovtsev, A. V. Solov'yov.	On the stability of metallic hollow cluster systems: jellium model approach	paper	Phys. Rev. A., <b>79</b> , 6, 063203-1-7, 2009	7

538.	V. K. Ivanov, M. A. Kulov	Multielectronic effects in autoionization states of the isoelectronic sequence of krypton. (In Russian: Многоэлектронные эффекты в автоионизационных состояниях изоэлектронной последовательности криптона)	paper	Scientific and technical statements of SPbSTU (In Russian: Научно-технические ведомости СПбГПУ, физико-математические науки. 2009, 2 (77), с.71 – 83)	13
539.	A. V. Verkhovtsev, R. G. Polozkov, V. K. Ivanov, A. V. Solov'yov.	"Stability of metallic hollow cluster systems".	paper	Physica Scripta 80, 048104, 2009	4
540.	A. K. Belyaev, A. S. Tiukanov, A. I. Toropkin, V. K. Ivanov, R. G. Polozkov, A.V.Solov'yov.	"Photoabsorption of the fullerene C <sub>60</sub> and its positive ions".	paper	Physica Scripta 80, 048121, 2009.	5
541.	P. I. Yatsyshin, R. G. Polozkov, V. K. Ivanov, A. V. Solov'yov.	"Structure of electron-positron clusters: Hartree-Fock approximation".	paper	Physica Scripta 80, 048126, 2009.	4
542.	V. K. Ivanov	Research of multielectron effects in atomic systems at the Department of Experimental Physics (In Russian: Исследования многоэлектронных эффектов в атомных системах на кафедре экспериментальной физики)	paper	SPbSPU Proceedings (In Russian: Труды СПбГПУ № 511. 2009. Научные направления на физико-механическом факультете СПбГПУ (к 90-летию ФМФ). СПб, изд. Политехнического унив-тета. С. 80–108)	29
543.	M. Ya. Amusia, A. S. Baltenkov and L. V. Chernysheva	Distortion and preservation of Giant resonances in Endohedral Atoms A@C <sub>60</sub>	paper	Pis'ma v ZhETF, 89, iss.6, 322-326, JETP Let., 89, iss.6, 275–279, 2009	5
544.	M. Ya. Amusia and L. V. Chernysheva	Endohedral resonances: modification of atomic photoionization by the fullerenes shell	paper	Прикладная физика, 5, 21-30, 2009	6

545.	M. Ya. Amusia, L. V. Chernysheva E. Z. Liverts	Photoionization of two-shell endohedral atoms	paper	Phys. Rev. A, <b>80</b> , 032503-1-12, 2009	12
546.	M. Ya. Amusia, L. V. Chernysheva, E. Z. Liverts	Photoionization of Onion-type atoms	paper	Pis'ma v ZhETF, <b>90</b> , iss.5, 393-397, JETP Let., iss.5, 350-354, 2009	5
547.	V. K. Dolmatov	Photoionization of atoms confined in spherical fullerenes	Invited paper	In: Theory of Confined Quantum Systems: Part Two, edited by John R. Sabin and Erkki Brandas. Advances in Quantum Chemistry, Vol.58, pp. 13-68 (USA, Academic Press), 2009.	56
548.	Zhifan Chen and Alfred Z Msezane	Photoionization of the I <sup>+</sup> ion	paper	J. Phys. B: At. Mol. Opt. Phys. <b>42</b> , 165203, 2009	4
549.	V. K. Dolmatov, G. Craven, E. Guler, D. Keating	Far above threshold confinement resonances in A@C60 <sup>±</sup> atoms	paper	J. Phys.: Conf. Series, <b>194</b> , 022025, 2009	1
550.	V. K. Dolmatov, G. Craven, E. Guler, D. Keating	Revivification of confinement resonances in the photoionization of A@C60 endohedral atoms far above thresholds	paper	Phys. Rev. A, <b>80</b> , 035401, 2009. Also selected for inclusion in Virtual Journal J. of Nanoscience & Technology	3
551.	Zhifan Chen and Alfred Z. Msezane	Photoionization of the Ce <sup>3+</sup> @C60	Talk	J. Phys.: Conference Series <b>194</b> , 022085, 2009	1
552.	M. Ya. Amusia	Simple and Onion-type Fullerenes shells as resonators and amplifiers, Fullerene, Nanotubes, and Carbon	paper	Nanostructures, <b>18</b> , part 1, 4-6, 353 – 368, 2010	6
553.	M. A. Stevenson, L. R. Hargreaves, B. Lohmann, I. Bray, D. V. Fursa, K. Bartschat and A. Kheifets	Fully Differential Cross Section Measurements For Electron Impact Ionization of Neon and Xenon	Paper	Phys. Rev. A <b>79</b> , 012709, 2009	

554.	J. Hoszowska, A. S. Kheifets, M. Berset, I. Bray, W. Cao, J.-Cl. Dousse, K. Fennane, M. Kavcic, Y. Kayser, J. Szlachetko, M. Szlachetko	Physical Mechanisms and Scaling Laws of K-shell Double Photoionization	Paper	Phys. Rev. Lett. 102, 073006, 2009	
555.	A. Kheifets	Photoelectron angular correlation pattern in sequential two-photon double ionization of neon	Paper	J. Phys. B <b>42</b> , 134016, 2009	
556.	A. S. Kheifets, I. Bray J. Hoszowska	K-shell double photoionization of Be, Mg and Ca	Paper	Phys. Rev. A <b>79</b> , 042504, 2009	
557.	A. Kheifets, A. Naja, E. M. Staicu Casagrande A. Lahmam-Bennani	Energetic (e,2e) reaction away from Bethe ridge: Recoil versus binary	Paper	J. Phys. B <b>42</b> , 165204, IOP Select Europhysics News, 2009	
558.	Zhifan Chen and Alfred Z. Msezane	Photoionization of Ce <sup>3+</sup> and Ce <sup>3+</sup> @C <sub>60</sub>	Paper	J. Phys. B: At. Mol. Opt. Phys. <b>42</b> , 165206, 2009	6
559.	A. S. Kheifets, D. V. Fursa, Igor Bray	Two-electron photoionization of ground-state lithium	Paper	Phys. Rev. A <b>80</b> , 063413, 2009	
560.	N. A. Cherepkov, S. K. Semenov, M. S. Schöffler, J. Titze, N. Petridis, T. Jahnke, K. Cole, L. Ph. H. Schmidt, A. Czasch, D. Akoury, O. Jagutzki, J. B. Williams, C. L. Cocke, T. Osipov, S. Lee, M. H. Prior, A. Belkacem, A. L. Landers, H. Schmidt- Böcking, Th. Weber, R. Dörner	Separation of Auger transitions into different repulsive states after K- shell photoionization of N <sub>2</sub> molecules	Paper	Phys. Rev. A <b>80</b> , 051404(R), 2009	
561.	Zhifan Chen, A. Z. Msezane	Photoionization of Xe atom confined in C <sub>60</sub> fullerene	Talk	Journal of Physics: Conference Series 194 022047, 2009	1
562.	P. Bolognesi, L. Avaldi, M. Ya. Amusia, V. G. Yarzhevsky	A study of the Ne 2s2p <sup>5</sup> ( <sup>3</sup> P)3s and 3p correlation satellites up to 75 eV above threshold	Paper	J. Phys. B: At. Mol. Opt. Phys. <b>43</b> , 185304, 2010	

563.	A. V. Solov'yov, R. G. Polozkov V. K. Ivanov.	"Angle-resolved photoelectron spectra of metal cluster anions within a many-body-theory approach".	Paper	Phys. Rev. A 2010, A <b>81</b> , n. 2, p. 021202(R)	3
564.	R. G. Polozkov, V. K. Ivanov, A. V. Korol', A. V. Solov'yov.	Theoretical study of the angular distribution of photoelectrons in the processes of photoionization of anions of metal clusters. (In Russian: Теоретическое исследование углового распределения фотоэлектронов в процессах фотоионизации анионов металлических кластеров)	Paper	Scientific and technical statements of SPbSPU (In Russian: Научно-технические ведомости СПбГПУ, физико-математические науки. 2010, т. 3 (104), с.75 – 80))	6
565.	V. K. Dolmatov, G. Craven, D. Keating	Confinement and electron correlation effects in photoionization of atoms in endohedral anions: Ne@C60 <sup>z-</sup>	Invited paper	J. Phys.: Conf. Series, Vol. 212, 012015, 2010	6
566.	V. K. Dolmatov and S. T. Manson	Interior static polarization effect in A@C60 photoionization	Paper	Phys. Rev. A, Vol. 82, 023422, 2010	3
567.	J. Ludlow and G. Gribakin	Many-body theory calculations of positron binding to negative ions	Paper	Int. Rev. At. Mol. Phys. 1, 73–83, 2010	11
568.	A. S. Kheifets, D. V. Fursa, Igor Bray, J. Colgan M. S. Pindzola	Spin effects in angular resolved double photoionization of lithium	paper	Phys. Rev. A 81, 023418, 2010	
569.	A. S. Kheifets, D. V. Fursa, I. Bray, J. Colgan M. S. Pindzola	Differential cross-sections of double photoionization of lithium	paper	Phys. Rev. A 82, 023403, 2010	
570.	K. Bartschat, A. Kheifets, D. V. Fursa Igor Bray	Benchmark calculations for electron impact ionization and ionization-excitation of magnesium	paper	J. Phys. B 43, 165205, 2010	
571.	A. S. Kheifets and I. A. Ivanov	Delay in atomic photoionization	paper	Phys. Rev. Lett 105, 233002, 2010	



572.	S. K. Semenov, M. S. Schöffler, J. Titze, N. Petridis, T. Jahnke, K. Cole, L. Ph. H. Schmidt, A. Czasch, D. Akoury, O. Jagutzki, J. B. Williams, C. L. Cocke, T. Osipov, S. Lee, M. H. Prior, A. Belkacem, A. L. Landers, H. Schmidt- Böcking, Th. Weber, N. A. Cherepkov, R. Dörner	Auger decay of $1\sigma_g$ and $1\sigma_u$ hole states of the $N_2$ molecule: Disentangling decay routes from coincidence measurements	paper	Phys. Rev. A <b>81</b> , 043426, 2010	
573.	N. A. Cherepkov, S. K. Semenov, M. S. Schöffler, J. Titze, N. Petridis, T. Jahnke, K. Cole, L. Ph. H. Schmidt, A. Czasch, D. Akoury, O. Jagutzki, J. B. Williams, T. Osipov, S. Lee, M. H. Prior, A. Belkacem, A. L. Landers, H. Schmidt-Böcking, R. Dörner Th. Weber	Auger decay of $1\sigma_g$ and $1\sigma_u$ hole states of the $N_2$ molecule. II. Young-type interference of Auger electrons and its dependence on internuclear distance	paper	Phys. Rev. A <b>82</b> , 023420, 2010	
574.	Z. Chen, R. A. Phaneuf, A. Z. Msezane	Photoionization of the $Ce^{3+}@C_{82}$ Endohedral Fullerene	Paper	Jour. of Phys. B: Atomic Molecular & Optical Physics <b>43</b> , 21, 215203, November 2010	
575.	A. V. Verkhovtsev, R. G. Polozkov, V. K. Ivanov, A. V. Korol', A. V. Solov'yov.	Study of the electronic structure of inert gas endofullerenes. (In Russian: Исследование электронной структуры эндофуллеренов инертных газов)	Paper	Scientific and technical statements of SPbSPU (In Russian: Научно- технические ведомости СПбГПУ, физико- математические науки. 2011, т. 1 (116), с. 61 – 70)	10
576.	M. Ya. Amusia, L. V. Chernysheva, E. Z. Liverts	Qualitative difference between the angular anisotropy parameters in fast electron scattering and photoionization	Paper	Pis'ma v ZhETF, <b>94</b> , iss.6, 466-471; JETP Letters, <b>94</b> , No. 6, pp. 431-436, 2011	6

577.	M. Ya. Amusia, L. V. Chernysheva, E. Z. Liverts	Non-dipole effects in angular distributions of secondary electrons in fast particle-atom scattering	Paper	arXiv:1012.5465v1, 25 December 2010	
578.	M. Ya. Amusia	Atoms as many-body systems	Review	Journal of Physics: Conference Series, <b>321</b> , 012049, 2011	
579.	V. K. Dolmatov, M. Ya. Amusia, L. V. Chernysheva	Confinement and correlation effects in the Xe@C60 generalized oscillator strengths	Paper	Phys. Rev. A, <b>84</b> , 063201-1-6, 2011	6
580.	Zhifan Chen, A. Z. Msezane	Photoionization of Xe <sup>+</sup> ion confined in C <sub>60</sub> fullerene	Paper	Canadian Journal of Physics, <b>89</b> (11), 1107-1110, 2011	4
581.	M. Ya. Amusia, L. V. Chernysheva	On the strong influence of inner shell resonances upon the outer shell photoionization of endohedral atoms	Paper	Pis'ma v ZhETP, <b>95</b> , 2, 80-83, 2012; JETP Letters, <b>95</b> , No 2, 74- 77, 2012	4
582.	S. B. Whitfield, R. Wehlitz, V. K. Dolmatov	Ba 5s photoionization in the region of the second Cooper minimum	Paper	J. Phys. B: At. Mol. Opt. Phys., Vol.44, 165002 (7pp), 2011	7
583.	A. S. Kheifets, I. Bray, J. Colgan M. S. Pindzola	Interference effects in L- shell atomic double photoionization	Paper	J. Phys. B 44, 011002, 2011	
584.	Z. Chen and A.Z. Msezane	Photoionization of the Xe atom and Xe@C <sub>60</sub> molecule	Paper	Eur. Phys. J. D <b>65</b> , 353, 2011	4
585.	M. Ya. Amusia, L. V. Chernysheva, E. Z. Liverts	Angular distributions of secondary electrons in fast particle-atom scattering	Paper	Phys. Rev. A, <b>85</b> , 042722 -1-12, 2012	12
586.	M. Ya. Amusia, L. V. Chernysheva, E. Z. Liverts	Generalized oscillator strength of endohedral molecules	Paper	International Journal of Quantum Chemistry, <b>112</b> , 18, 3119-3130, 2012	12
587.	A. V. Verkhovtsev, R. G. Polozkov, V. K. Ivanov, A. V. Korol A. V. Solov'yov.	"Role of exchange interaction in self- consistent calculations of endohedral fullerenes".	Paper	Nuclear Inst. and Methods in Physics Research B, Vol. 279, pp. 202-204, 2012	4
588.	A. V. Verkhovtsev, R. G. Polozkov, V. K. Ivanov, A. V. Korol, A. V. Solov'yov	"Self-Consistent Yartree- Fock Approach to Electronic Structure of Endohedral Fullerene Ar@C60",	Paper	Fullerenes, Nanotubes and Carbon Nanostructures, 20:4-7, 382-385, 2012	4

589.	A. V. Verkhovtsev, R. G. Polozkov, V. K. Ivanov, A. V. Korol, A. V. Solov'yov.	"Hybridization-related correction to the jellium model for fullerenes".	Paper	J. Phys. B: At. Mol. Opt. Phys. <b>45</b> , 215101, 2012	8
590.	R. G. Polozkov, V. K. Ivanov, A. V. Korol, A. V. Solov'yov	"Photodetachment of metal cluster negative ions within many-body theory"	Paper	European Phys. J. D, <b>66</b> , 287, 2012	7
591.	V. K. Dolmatov and D. A. Keating	Xe 4d photoionization in Xe@C60, Xe@C240, and Xe@C60@C240	paper	J. Phys.: Conf. Series, <b>388</b> , 022097, 2012	
592.	S. B. Whitfield, R. Wehlitz, V. K. Dolmatov	The Ba5s photoionization in a correlation minimum energy region	paper	J. Phys.: Conf. Series, <b>388</b> , 022008, 2012	
593.	V. K. Dolmatov and D. A. Keating	5s correlation confinement resonances in Xe-endo-fullerenes	paper	J. Phys.: Conf. Series, <b>388</b> , 022010, 2012	
594.	V. K. Dolmatov, J. L. King, J. C. Oglesby	Diffuse versus square-well confining potentials in modelling A@C60 atoms	paper	J. Phys. B, <b>45</b> , 105102, 2012	6
595.	V. K. Dolmatov and J. L. King	Atomic swelling upon compression	paper	J. Phys. B, <b>45</b> , 0225003, 2012	5
596.	D. Guènot, K. Klünder, C. L. Arnold, D. Kroon, J. M. Dahlström, M. Miranda, T. Fordell, M. Gisselbrecht, P. Johnsson, J. Mauritsson, E. Lindroth, A. Maquet, R. Taïyeb, A. L'Huillier, A. S. Kheifets	Photoemission time-delay measurements and calculations close to the 3s ionization minimum in Ar	paper	Phys. Rev. A <b>85</b> , 053424, 2012	
597.	I. Bray, D. V. Fursa, A. S. Kadyrov, A. T. Stelbovics, A. S. Kheifets	Electron- and photon-impact atomic ionization	paper	Physics Reports <b>520</b> , 135, 2012	

598.	S. K. Semenov, K. Kreidi, T. Jahnke, Th. Weber, T. Havermeier, R. E. Grisenti, X. Liu, Y. Morisita, L. Ph. H. Schmidt, M. Schöffler, M. Odenweller, N. Neumann, L. Foucar, J. Titze, B. Ulrich, F. Sturm, H. K. Kim, K. Ueda, A. Czasch, O. Jagutzki, N. A. Cherepkov, R. Dörner	Interatomic Coulombic decay of fixed-in-space neon dimers	paper	Phys. Rev A, <b>85</b> , 043421, 2012	
599.	Z. Chen, A. Msezane	Photoabsorption Spectrum of the Xe@C60 Endohedral Fullerene	Paper	The European Physical Journal D <b>66</b> , 7, 2012	
600.	Z. Chen, A. Msezane	Effect of C <sub>60</sub> Giant Resonance on the Photoabsorption of Encaged Atoms.	Paper	Phys. Rev.A <b>86</b> , 6, 2012	
601.	Zhifan Chen and Alfred Z. Msezane	Photoionization of Xe and Xe@C60	Talk	J. of Phys.: Conference Series <b>388</b> , 022075, 2012	
602.	R. G. Polozkov, V. K. Ivanov, A. V. Verkhovtsev, A. V. Korol, A. V. Solov'yov..	"New applications of the jellium model for the study of atomic clusters"	Paper	Journal of Physics: Conference Series <b>438</b> , 012009, 2013	11
603.	G B Sushko, V G Bezchastnov, A V Korol, W. Greiner, A V Solov'yov, R G Polozkov, V K Ivanov	"Simulations of electron channeling in bent silicon crystal".	Paper	Journal of Physics: Conference Series <b>438</b> (2013) 012019 (10 pages)/	10
604.	A.N. Ipatov V.K. Ivanov R.G. Polozkov	Influence of many-particle correlations on the stability of electron- positron clusters (In Russian: Влияние многочастичных корреляций на стабильность электрон- позитронных кластеров)	Paper	JETP, 2013, Vol. 117, No. 4, pp. 631–635 (ЖЭТФ, т.144, вып.4, стр. 727–732, 2013)	6

605.	A.N. Ipatov V.K. Ivanov R.G. Polozkov	"On stability of nanoscale electron- positron droplets"	Paper	St. Petersburg State Polytechnical University Journal. Physics and Mathematics. 2013. No. 4-2 (182), pp. 154 – 163	10
606.	M. Ya. Amusia, L. V. Chernysheva, V. G. Yarzhemsky	On the photoionization in the hard X-ray region	Paper	Pis'ma v ZhETP, <b>97</b> , 12, 2013; JETP Letters, Vol. 97, No. 12, pp. 704–707, 2013	4
607.	M. Ya. Amusia, V. K. Dolmatov, L. V. Chernysheva	Electron elastic scattering off a semifilled shell atom: the Mn atom	paper	Phys. Rev. A, <b>88</b> , 042706-1-7, 2013	7
608.	V. K. Dolmatov	Confinement-induced orbital breathing, fusion, fission and re-ordering in semifilled shell atoms	paper	J. Phys. B Vol.46 095005 (6pp), 2013	6
609.	D. G. Green and G. F. Gribakin	Positron scattering and annihilation in hydrogenlike ions	paper	Phys. Rev. A <b>88</b> , 032708, 2013	
610.	E. Sokell, P. Bolognesi, A. Kheifets, Igor Bry, S Safgren L. Avaldi	Signature of two-electron interference in angular resolved double photoionization of Mg	paper	Phys. Rev. Lett. <b>110</b> , 083001, 2013	
611.	A. S. Kheifets	Time delay in valence shell photoionization of noble gas atoms	paper	Phys. Rev. A <b>87</b> , 063404, 2013	
612.	M. Ya. Amusia and L. V. Chernysheva	Comment on "Photoionization of endohedral atoms using R-matrix methods: application to Xe@C <sub>60</sub> "	paper	Phys. Rev A, <b>89</b> , 057401, 2014	
613.	V. K. Dolmatov, M. Ya. Amusia, L. V. Chernysheva	Electron elastic scattering off a spin-polarized Cr atom	paper	Phys. Rev. A, <b>90</b> , 032717, 2014	
614.	M. Ya. Amusia, L. V. Chernysheva, E. G. Drukarev	Explanation of the recent results on photoionization of endohedral atoms	paper	JETP Letters, <b>100</b> , 9, 619-622, 2014	4
615.	M. Ya. Amusia, L. V. Chernysheva, V. G. Yarzhemsky	On photoionization in the hard X-ray region	Paper	J. Phys.: Conf. Ser., v.488, 2 Art No: #022044, 2014	1
616.	R. G. Polozkov, V. K. Ivanov, G. B. Sushko, A. V. Korol A. V. Solov'yov.	"Radiation Emission by Electrons Channeling in Bent Silicon Crystals".	Paper	European Phys. J. D <b>68</b> : 268 – (1-9), 2014	9

617.	A. N. Ipatov, V. K. Ivanov, R. G. Polozkov	"On stability of nanoscale electron- positron droplets".	Paper	European Phys. J. D 68: 249 – (1-6), 2014	6
618.	V. K. Dolmatov, M. B. Cooper M. E. Hunter	Electron elastic scattering off endohedral fullerenes A@C <sub>60</sub> : the initial insight	paper	J. Phys. B, Vol.47, 115002, 2014	6
619.	P. C. Deshmukh, A. Mandal, S. Saha, A. S. Kheifets, V. K. Dolmatov, S. T. Manson	Attosecond time delay in the photoionization of endohedral atoms A@C <sub>60</sub> : A probe of confinement resonances	paper	Phys. Rev. A, Vol. 89, 053424, 2014	4
620.	I. I. Fabrikant and G. F. Gribakin	Positronium-atom scattering at low energies	paper	Phys. Rev. A 90, 052717, 2014	
621.	E. Sokell, P. Bolognesi, A. Kheifets, I. Bray, S. Safgren L. Avaldi	Double photoionization of Mg studied by electron-electron coincidence experiments	paper	Phys. Rev. A 89, 013413, 2014	
622.	E. P. Månsson, D. Guènot, C. L. Arnold, D. Kroon, S. Kasper, J. M. Dahlström, E. Lindroth, A. Kheifets, A. L'Huillier, S. L. Sorensen M. Gisselbrecht	Double Ionization of Xenon Probed on the Attosecond Time Scale	paper	Nature Physics <b>10</b> , 207, 2014	
623.	P. C. Deshmukh, A. Mandal, S. Saha, A. S. Kheifets, V. K. Dolmatov S T Manson	Attosecond time delay and confinement resonances in photoionization of endohedral atoms: Xe@C <sub>60</sub>	paper	Phys. Rev. A <b>89</b> , 053424, 2014	
624.	A. Mandal, J. Jose, S. Saha, R. Varma, P. C. Deshmukh, A. S. Kheifets, V. K. Dolmatov S T Manson	Relativistic effects in photoionization time delay near the Cooper minimum of noble gas atoms	paper	Phys. Rev. A <b>90</b> , 053406, 2014	
625.	Qianxia Wang , S Sheinerman and F Robicheaux	Comparison of different quantum mechanical methods for inner atomic shell photo-ionization followed by Auger decay	Paper	J. Phys. B: At. Mol. Opt. Phys. 47 (2014) 215003	10
626.	Caryn Palatchi, M. Dahlström, A. S. Kheifets, P. Agostini L. F. DiMauro	Atomic Delay in Helium, Neon, Argon and Krypton	paper	J. Phys. B <b>47</b> , 245003, 2014	

627.	D. Guènot, D. Kroon, M. Kotur, E. Balogh, E. W. Larsen, J. M. Dahlström, . Mauritsson, M. Gisselbrecht, E. Lindroth,, K. Varju, C. L. Arnold, A. S. Kheifets A. L'Huillier	Measurements of relative photoemission time delays in noble gas atoms	paper	J. Phys. B <b>47</b> , 245602, 2014	
628.	M. Ya. Amusia and L. V. Chernysheva	On the behavior of scattering phases in collisions of electrons with multi-atomic objects	paper	Pis'ma v ZhETF, <b>101</b> , 7, 556-559, 2015, JETP Letters, <b>101</b> , 7, 503-506, 2015	4
629.	M. Ya. Amusia, E. G. Drukarev, L. V. Chernysheva	Influence of the inner shell electrons on photoionization of outer shells	Paper	European Physical Journal, D, <b>69</b> , 245, November 2015	
630.	M. Ya. Amusia and L. V. Chernysheva	On the additivity of scattering phases in collisions of electrons on endohedrals	Paper	Journal of Physics B: Conference Series, <b>635</b> , 072004, 2015	
631.	M. Ya. Amusia, E. G. Drukarev, L. V. Chernysheva	Interelectron correlations in photoionization of outer shells near inner shell thresholds	Paper	Journal of Physics B: Conference Series, <b>635</b> , 092012, 2015	
632.	V. K. Dolmatov, C. Bayens, M. B. Cooper, M. E. Hunter	Electron elastic scattering and low-frequency bremsstrahlung on A@C60: A model static-exchange approximation	Paper	Physical Review A, Vol. <b>91</b> , 6, 0622703, 2015.	12
633.	V. K. Dolmatov, M. Cooper, and M. Hunter	e + C60 and e + A@C60 elastic scattering versus the parameters of the C60-model-square-well potential	Paper	J. Phys.: Conf. Ser. Vol.635, 112008, 2015.	1
634.	V. K. Dolmatov, A. S. Kheifets, P. C. Deshmukh, S. T. Manson	Attosecond time delay in the photoionization of Mn in the region of the 3p→3d giant resonance	Paper	Physical Review A, <b>91</b> , 053415, 2015.	7
635.	V. K. Dolmatov, J. L. King, J. C Oglesby	Corrigendum: Diffuse versus square-well potentials in modelling A@C60 atoms	Paper	J. Phys. B. <b>48</b> , 6, 069501, 2015	1
636.	J. P. Connerade and V. K. Dolmatov	"C60 spin-charging" with an eye on a quantum computer	Paper	J. Phys. B, <b>48</b> , 015007, 2015	3

637.	V. K. Dolmatov, A. S. Kheifets, P. C. Deshmukh S T Manson	Attosecond time delay in 3d-photoionization of Mn in the region of a giant 3p → 3d autoionization resonance	Paper	Phys. Rev. A 91, 053415, 2015	
638.	M. Braune, G. Hartmann, M. Ilchen, A. Kniee, T. Lischke, A. Reinköster, A. Meissner, S. Deinert, L. Glaser, O. Al-Dossary, A. Ehresmann, A. S. Kheifets, J. Viefhaus	Electron angular distributions of noble gases in sequential two- photon double ionization	Paper	J. Mod. Optics, 2015	
639.	V. K. Dolmatov, M. Ya. Amusia L. V. Chernysheva	Electron elastic scattering off A@C60: The role of atomic polarization under confinement	Paper	Phys. Rev. A <b>92</b> , 042709(7), 2015	7
640.	R. Guillemin, S. Sheinerman, R. Puttner, T. Marchenko, G. Goldsztejn, L. Journel, R. K. Kushawaha, D. Ceolin, M. N. Piancastelli, and M. Simon,	Postcollision interaction effects in KLL Auger spectra following argon 1s photoionization	Paper	Phys. Rev. A <b>92</b> , 012503(8), 2015	8
641.	S. Sheinerman, P. Lablanquie, L. Andric, K. Ito, J. Palaudoux, S- M. Huttula, M. Huttula, K. Jänkälä, J. Soronen, J- M. Bizau, S. Guilbaud, D. Cubaynes, and F. Penent	Post-collision interaction in Potassium 3s photoionization	Talk	Journal of Physics: Conference Series 635 (2015) 092086	1
642.	M. Ya. Amusia, E. G. Drukarev, L. V. Chernysheva	Intershell correlations in photoionization of outer shells	Talk	Nuclear Instruments and Methods in Physics Research, Section B: Beam Interaction with Materials and Atoms, <b>369</b> , 15 February 2016, Pages 21–23, 2016	3



643.	M. Ya. Amusia and L. V. Chernysheva	The role of fullerene shell upon stuffed atom polarization potential	Paper	Pis'ma v ZhETF, <b>103</b> , 4, 286-290, JETP Letters, <b>103</b> , 4, 260-264, 2016	5
644.	L Gomis, I G Faye, S Diallo1, M S Tall, I Diedhiou, A Hibbert, C A Daul C S Diatta	Length and velocity form calculations of generalized oscillator strengths of dipole, quadrupole and monopole excitations of argon	Paper	Physa Scripta <b>91</b> , 015401, 2016	12
645.	E. G. Drukarev, M. Ya. Amusia, and L. V. Chernysheva	Role of electronic shell in the double beta decay	Paper	Phys. Rev. C, <b>94</b> , 035504, 2016	
646.	E. G. Drukarev, M. Ya. Amusia, L. V. Chernysheva	Internal energy loss of the electrons ejected in neutrinoless double $\beta$ decay	Paper	Few Body Systems, <b>58</b> ,:1-4, 2017	4
647.	V. K. Dolmatov, M. Ya. Amusia, L. V. Chernysheva	The effects of target polarization in elastic scattering of electrons by endohedral A@C <sub>60</sub>	Paper	Phys. Rev. A <b>95</b> , 012709, 2017	
648.	M. Ya. Amusia, L. V. Chernysheva	Low-energy positron scattering upon endohedrals	Paper	Pis'ma v ZhETF, <b>106</b> , 1, 3-7, JETP Letters, <b>106</b> , 1, 1-6, 2017	
649.	V. K. Dolmatov, M. Ya. Amusia, L. V. Chernysheva	Angle-resolved e <sup>-</sup> + C <sub>60</sub> elastic scattering cross section versus Ramsauer minima in partial elastic scattering cross sections	Paper	Journal of Physics: Conference Series, <b>875</b> , 062045, 2017	1
650.	V. K. Dolmatov	Angle-differential elastic electron scattering off Mn	Paper	Physical Review A Vol. 96, No. 5, 052704 (6pp), 2017.	6
651.	V. K. Dolmatov	Impact of fullerene polarizability on Wigner time delay in photodetachment of fullerene anions C <sup>(-)N</sup>	Paper	Journal of. Physics: Conf. Ser. Vol. 875, p.022013, 2017.	1
652.	V. K. Dolmatov	On e <sup>-</sup> + Mn elastic scattering at $\hat{\mu} = 20$ eV impact energy	Paper	Journal of Physics: Conf. Series, Vol.875, p.052044, 2017.	1
653.	A. C. Edwards, C. G. Lane, V. K. Dolmatov	Spin-polarized electrons upon nondipole photodetachment of fullerene anions	Paper	Journal of Physics: Conf. Series, Vol. 875, p.032032, 2017.	

654.	M. Ya. Amusia, L. V. Chernysheva	Bosonic atoms	Paper	JETP Letters, <b>107</b> , 2, 91-95, Pis'ma v ZhETF, <b>107</b> , 2, 99-103, 2018	5
655.	E. G. Drukarev, M. Ya. Amusia, L. V. Chernysheva	Internal energy loss of the electrons ejected in neutrinoless double $\beta$ decay	Paper	Proceedings of the 23 <sup>rd</sup> European Conference on Few-Body Problems in Physics, Springer-Verlag GmbH Austria, pp. 63-66, 2018.	4
656.	M. Ya. Amusia, L. V. Chernysheva	Estimation of the integral role of Intershell correlations in heavy atoms	Paper	JETP Letters, <b>108</b> , 7, 435-438, 2018, Pis'ma v ZhETF, <b>108</b> , 7, 466-469, 2018	4
657.	M. Ya. Amusia, L. V. Chernysheva	Photoionization of Endohedrals with account of fullerenes polarization	Paper	JETP Letters, <b>109</b> , 6, 345-349, Pis'ma v ZhETF, <b>109</b> , 6, 355-359, 2019	5
658.	M. Ya. Amusia, V. K. Dolmatov, L. V. Chernysheva	Angle-differential elastic electron scattering off C <sub>60</sub> : A simple semi-empirical theory versus experiment	Paper	J. of Phys. B, <b>52</b> (8), 085201, 2019	6
659.	M. Ya. Amusia, L. V. Chernysheva, S. K. Semenov	Photoionization of Molecular Endohedrals	Paper	JETP Letters, <b>110</b> , 2, 102-106, Pis'ma v ZhETF, <b>110</b> , 2, 85-89, 2019	5
660.	V. K. Dolmatov, D A. Edwards	Role of polarizability of a CN fullerene cage in A@C <sub>N</sub> photoionization and e <sup>-</sup> - C <sub>N</sub> scattering: The size effect	Paper	Journal of Physics B: At. Mol. Opt. Phys. Vol.52, 105001 2019.	6
661.	V. K. Dolmatov, M. Ya. Amusia, L. V. Chernysheva	On the e <sup>-</sup> - C <sub>60</sub> elastic angle-differential scattering cross section	Paper	Journal of Physics: Conference Series <b>1412</b> , 182011, 2020.	1
662.	M. Ya. Amusia, L. V. Chernysheva	Photoionization of endohedrals: complete semi-phenomenological approach	Paper	Journal of Physics: Conference Series <b>1412</b> , 202025, 2020	1
663.	M. Ya. Amusia	Photon Absorption and Electron Scattering by Endohedrals	Chapter	<i>Discoveries at the Frontiers of Science</i> , Chap. 16, ed. J. Kirsch et al, Springer Nature Switzerland AG, pp. 225-238, 2020	14

664.	M. Ya. Amusia, A. S. Baltenkov, L. V. Chernysheva	Modification of endohedral potential after instant ionization of the inner atom	Paper	JETP Letters, <b>111</b> , 1, 12-18, Pis'ma v ZhETF, <b>111</b> , 1, 18-23, 2020	6
665.	M. Ya. Amusia	Many-Body Theory of Atomic Structure and Processes	Chapter	Handbook on Atomic spectroscopy, in: <i>Atomic, Molecular and Optical Physics Reference Book</i> , ed. G. Drake and S. Shaun, AIP Publishing, Chapter 23, p. 287- 300, 2020	14
666.	M. Ya. Amusia, L. V. Chernysheva	On the Bosonic Atoms - structure and processes	Paper	Springer Proceedings in Physics <b>238</b> , <i>Recent Progress in Few-Body Physics</i> , Proceedings of the 22 <sup>nd</sup> International Conference on Few- Body Problem in Physics, N. A. Orr, M. Ploszajczak, F. M. Marques, J. Carbonell, Eds, Springer, Nature Switzerland, Chap 152, pp. 927-930, 2020	4
667.	M. Ya. Amusia, L. V. Chernysheva	Intershell correlations in endohedral atoms	Paper	Fullerenes, Nanotubes and Carbon Nanostructures, <b>28</b> , 3, Proceedings of the 14th International Conference "Advanced Carbon Nanostructures" (ACNS'2019), <a href="https://doi.org/10.1080/1536383X.2019.1686617">https://doi.org/10.1080/1536383X.2019.1686617</a> , 2020	
668.	M. Ya. Amusia, L. V. Chernysheva	Time delay of photoionization by Endohedrals	Paper	JETP Letters, <b>112</b> , 4, 219-224, Pis'ma v ZhETF, <b>112</b> , 4, 233- 239, 2020	7

669.	M. Ya. Amusia, L. V. Chernysheva	Non-dipole effects in time delay of photoelectrons from atoms, negative ions, and endohedrals	Paper	JETP Letters, <b>112</b> , 10, 673-679, Pis'ma v ZhETF, <b>112</b> , 10, 709-716, 2020	7
670.	V. K. Dolmatov	Spin-Polarized Photoelectron Fluxes from Fullerene Anions	Invited Paper	Atoms, Vol. 8, No.4, p.65 (14pp). <a href="https://doi.org/10.3390/atoms8040065">https://doi.org/10.3390/atoms8040065</a> . 2020	14
671.	A. W. Bray, D. Freeman, F. Naseem, V. K. Dolmatov and A. S. Kheifets	Correlation-enhanced high-order-harmonic-generation spectra of Mn and Mn <sup>+</sup>	Paper	Physical Review A, Vol. 101, No. 5, p.053415, 2020.	5
672.	A. Müller, A. L. D. Kilcoyne, R. A. Phaneuf, K. Holste, S. Schippers, and A. S. Kheifets	Direct double ionization of the Ar <sup>+</sup> M shell by a single photon	Paper	Phys. Rev. A 103, L031101 (2021)	5
673.	M. Ya. Amusia, L. V. Chernysheva	Role of fullerene shell in time delay of photoelectrons from endohedrals.	paper	In: Proceedings of the 15 <sup>th</sup> International conference Advance Carbon Nanostructures (ACNS'2021). p 196 (2021)	
674.	M.Ya. Amusia, V.K. Dolmatov, L.V.Chernysheva	Positron elastic scattering by a semifilled-shell atom.	paper	J. Phys. B: At. Mol. Opt. Phys., v.54, 185003 (2021)	