

1. Монографии

| № п/п | Авторы | Название | Вид | Название издательства или журнала (год, том, страницы) | Кол. стр. |
|----------|---|--|------------------|--|--------------|
| 1. | M. Ya. Amusia | Many-Particle Effects in Atomic Electron Shells | Monography | A. F. Ioffe Physical-Technical Institute, USSR Acad. Sci., Leningrad, 1968 | 144 |
| 2. | М. Я. Амусья, Л. В. Чернышева | Автоматизированная система исследования структуры атомов | Монография | «Наука», Ленинград, 1983 | 180 |
| 3. | М. Я. Амусья | Атомный фотоэффект | Монография | «Наука», Москва, 1987 | 272 |
| 4. | M. Ya. Amusia | Atomic Photoeffect | Monography | Plenum Press, New-York-London, 1990 | 303 |
| 5. | M. Ya. Amusia, L. V. Chernysheva | Computation of atomic processes | Monography | Institute of physics Publishing, Bristol and Philadelphia, 1997 | 253 |
| 6. | М. Я. Амусья, В. К. Иванов, Н. А. Черепков, Л. В. Чернышева | Теория многоэлектронных эффектов в атомных процессах | Монография | Издательство ФТИ, Санкт-Петербург, 2001 | 92 |
| 7. | М. Я. Амусья, В. К. Иванов, Н. А. Черепков, Л. В. Чернышева | Процессы в многоэлектронных атомах | Монография | Издательство «Наука», Санкт-Петербург, 2006 | 325 |
| 8. | М. Я. Амусья, Л. В. Чернышева, В. Г. Яржемский | Поглощение фотонов, рассеяние электронов, распад вакансий (атомные данные) | Монография | Издательство «Наука», Санкт-Петербург, 2010. | 313 |
| 9. | M. Ya. Amusia, L. V. Chernysheva, V. G. Yarzhemsky | Handbook of theoretical Atomic Physics, Data for photon absorption, electron scattering, vacancies decay | Монография | Springer, Berlin, 2012 | 806 |
| 10. | В. К. Иванов, А. Н. Ипатов, Р. Г. Полозков | Квантовая теория многих тел | Учебное пособие. | Издательство политехнического университета. Санкт-Петербург 2013. | 177 |
| 11. | М. Я. Амусья, Л. В. Чернышева, С. К. Семёнов | АТОМ-М. Алгоритмы и программы для исследования атомных и молекулярных процессов | Монография | Издательство «Наука», Санкт-Петербург, 2016. | 545 |

2. Статьи, главы в книгах, тексты опубликованных докладов и принципиально важные препринты

| № п/п | Авторы | Название | Вид | Название издательства или журнала (том, год, страницы) | Кол. стр. |
|----------|--|--|-----------------|---|--------------|
| 12. | M. Ya. Amusia, M. P. Kazachkov | On the Double Ionization Mechanism | Статья | Phys. Let. A, 28 , 1, p. 27, 1968 | |
| 13. | 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.), 6 , p. 1897, 1969 | |
| 14. | M. Ya. Amusia, N. A. Cherepkov, L. V.Chernysheva, S. I. Sheftel | On Atomic Photoionization Cross Section Calculation | Paper | Phys. Let. A, 28 , 11, p. 726-727, 1969 | 2 |
| 15. | 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.), 58 , 2, p. 618-623, 1970 | 6 |
| 16. | M. Ya. Amusia, L. V. Chernysheva N. A. Cherepkov | Many-Electron Correlations in Photoabsorption on M- Shell of Ar | Paper | Phys. Let. A, 31 , 10, p. 553, 1970 | |
| 17. | M. Ya. Amusia | Many-Electron Correlations in Atomic Electron Shells and Possible Ways of Their Experimental detection | Paper | in: <i>Atomic Physics</i> <i>II</i> , ed. P. Sandars, Plenum Press, London- New York, pp. 249-271, 1971 | 23 |
| 18. | 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.), 60 , 1, p.160-174, 1971 | 15 |
| 19. | M. Ya. Amusia , N. A. Cherepkov, L. V. Chernysheva | Many-Electron Correlat ions 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 |
| 20. | Л.В. Чернышева, Н.А. Черепков. | Программы вычисления атомных волновых функций в приближении Хартри- Фока. | Преприн т | Препринт ФТИ- 337, Л.: ФТИ им. А.Ф.Иоффе, 1971 | 60 |

| | | | | | |
|-----|--|---|-----------------|---|----|
| 21. | Л.В.Чернышева, М.Я. Амусья, Н.А. Черепков | Программы вычисления сечения фотоионизации атомов с учетом многоэлектронных корреляций | Препринт | Препринт ФТИ- 375, Л.: ФТИ им. А.Ф.Иоффе, 1971. | 48 |
| 22. | M. Ya. Amusia, M. P. Kazachkov, N. A. Cherepkov | Many-Electron Correlations in the Processes of Inner Shell Vacancies Decay | Paper | Phys. Let. A, 39 , 2, p. 93, 1972 | |
| 23. | 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.), 63 , 3(9), p. 889, 1972 | |
| 24. | M. Ya. Amusia, N. A. Cherepkov, L. V. Chernysheva | Angular Distribution of Photoelectrons with Many-Electron Correlations | Paper | Phys. Let. A, 40 , 1, p. 15, 1972 | |
| 25. | 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, 40 , 1, p. 5, 1972 | |
| 26. | 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, 40 , 5, p. 361, 1972 | |
| 27. | 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., 6 , p. 1028, 1973 | |
| 28. | M. Ya. Amusia, V. K. Ivanov, L. V. Chernysheva | Photoproduction of Kr ⁺ and Xe ⁺ Ions in the Vicinity of the Outer d- Subshell Threshold | Paper | Phys. Let. A, 43 , 3, p. 243, 1973 | |
| 29. | 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 | |
| 30. | 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, 46 , 6, p. 387, 1974 | |

| | | | | | |
|-----|---|---|-----------------|---|----|
| 31. | 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, 47 , 1, p. 66, 1974 | |
| 32. | 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.), 66 , 5, p. 1537-1549, 1974 | 13 |
| 33. | N. A. Cherepkov, L. V. Chernysheva, V. Radojevic, I. Pavlin | Many-electron correlations in the photoionization of a Nitrogen atom | Paper | Canad. J.Phys. 52 , p.349,1974 | |
| 34. | 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., 7 , 57. p. 1435, 1974 | |
| 35. | M. Ya. Amusia | Effect of Many-Electron Correlations on Probability of Creation and Decay of Vacancies in Atoms | Invited talk | Physica Fennica, Supplement S1, 9 , Otaniemi, Finland , p. 349-359, 1974 | 11 |
| 36. | 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 |
| 37. | Л.В.Чернышева М.Я. Амусья, Н.А.Черепков | Программы вычисления сечения фотоионизации атомов с учетом корреляций в одном и двух переходах | Пре- принт | Препринт 459, Л.: ФТИ им. А.Ф.Иоффе, 1974. | 60 |
| 38. | Л.В. Чернышева | Система математического обеспечения расчетов взаимодействия фотонов и электронов с атомами | Статья | В сб.: Теория атомов и атомных спектров, ч.2, Рига: ЛГУ им. П. Стучки, с.104, 1974 | 2 |
| 39. | 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.), 68 , p. 28-35, 1975 (Sov. Phys.- JETP, 41 , 14, 1975) | 8 |

| | | | | | |
|-----|---|--|----------|---|-----|
| 40. | 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.), 68 , 6, p. 2023-2031, 1975 | 9 |
| 41. | 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, 51 , 2, p. 101-102, 1975 | 2 |
| 42. | M. Ya. Amusia, A. S. Baltenkov | Electron Entrainment in Deceleration by Light Absorption | Paper | J. Exp. Theor. Phys. (USSR Acad. Sci.), 69 , 2(8), p. 547-554, 1975; Sov. Phys.- JETP, 42 , 279, 1975 | 8 |
| 43. | M. Ya. Amusia, N. A. Cherepkov | Many-Electron Correlations in the Scattering Processes | Paper | Case Studies in Atomic Physics, North-Holland Publishing Company, 5 , 2, p. 47-179, 1975 | 133 |
| 44. | Л. В. Чернышева Н. А. Черепков В. Радоевич В. | Система АТОМ, I. Программа решения уравнений самосогласованного поля Хартри-Фока для атомов | Препринт | Препринт 486, Л.: ФТИ им.А.Ф. Иоффе, 1975 | 32 |
| 45. | Л. В. Чернышева Н. А. Черепков В. Радоевич В. | Система АТОМ, II. Программа решения уравнений самосогласованного поля Хартри-Фока для атомов | Препринт | Препринт 487, Л.: ФТИ им.А.Ф. Иоффе, Л., 1975 | 35 |
| 46. | Л. В. Чернышева М.Я. Амусья С.И. Шефтель | Система АТОМ, III. Программа вычисления обобщенных сил осцилляторов с учетом корреляций в одном переходе | Препринт | Препринт 493, Л.: ФТИ им.А.Ф. Иоффе, 1975 | 56 |
| 47. | Л. В. Чернышева М.Я. Амусья С.И. Шефтель | АТОМ IV - Программа вычисления обобщенных сил осцилляторов с учетом корреляций в двух переходах | Препринт | Препринт 495, Л.: ФТИ им.А.Ф. Иоффе, 1975 | 53 |

| | | | | | |
|-----|---|--|-----------------|---|----|
| 48. | 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, 13 , p. 1466-1474, 1976 | 9 |
| 49. | 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., 9 , 9, p. 1537-1553, 1976 | 7 |
| 50. | M. Ya. Amusia and S. I. Sheftel | The Calculation of Photoionization Cross Section of 4d10 Subshell of La Atom | Paper | Phys. Let. A, 55 , 8, p. 469-471, 1976 | 3 |
| 51. | 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.), 46 , 10, p. 2207, 1976 | |
| 52. | 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 | |
| 53. | 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.), 24 , 6, p. 366- 369, 1976 | 4 |
| 54. | 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 |
| 55. | 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., 9 , 16, p. L469-472, 1976 | 4 |
| 56. | 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., 9 , 17, p. L531-534, 1976 | 4 |

| | | | | | |
|-----|--|---|--------|--|----|
| 57. | 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, 59 , p. 191-193, 1976 | 3 |
| 58. | L. V. Chernysheva, N. A. Cherepkov, V. Radojevic | Self-consistent field Hartree-Fock program for atoms | Paper | Comp.Phys.Comm un. 11, p.57-73, 1976 | 17 |
| 59. | Л.В.Чернышева, М.Я. Амуся С.Г. Шапиро | Система АТОМ, V. Программа вычисления диагонального матричного элемента собственно энергетической части одночастичной функции Грина | Paper | Препринт. 504, Л.: ФТИ им.А.Ф. Иоффе, 1976. | 38 |
| 60. | 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, 59 , 3, p. 194-196, 1976 | 3 |
| 61. | M. Ya. Amusia, I. S. Lee, . N. Zinoviev | Single Photon Decay of Double Hole States in Atoms | Paper | Phys. Let. A, 60 , 4, p. 300-302, 1977 | 3 |
| 62. | N. A. Cherepkov, L. V. Chernysheva | Random phase approximation with exchange for open-shell atom | Paper | Physics Letters A, 60, 2, p. 103, 1977 | |
| 63. | M. Ya. Amusia, I. S. Lee, E. I. Cheglokov, L.V. Chernysheva | Raman effect of light on argon atoms | Paper | Izv. of Higher Education Institutes, Physics (USSR Higher Education), 1 , p. 36-42, 1977 | 7 |
| 64. | Л. В. Чернышева | Пакет прикладных программ для проведения атомных расчетов | Paper | Известия АН СССР, сер. Физическая, 41, 12, с.2665, 1977 | |
| 65. | Н. А. Черепков, Л. В. Чернышева | Сечение фотоионизации атома хлора в приближении случайных фаз с обменом | Доклад | Известия АН СССР, сер. Физическая, 41, 12, с.2518-2528, 1977 | 11 |

| | | | | | |
|-----|---|---|-----------------|---|----|
| 66. | Н. А. Черепков, Л. В. Чернышева | Силы осцилляторов и сечение фотоионизации в приближении ХФ и RPAE | Доклад | В сб. “Спектроскопиче- ские константы атомов”, М.: Научный Совет по спектроскопии, с 253, 1977 | |
| 67. | 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., 10 , 8, p. 1413-1423, 1977 | 11 |
| 68. | M. Ya. Amusia, V. K. Ivanov | Peculiarities of Electron Angular Distribution in 5p ⁶ Shells of Xe, Cs and Ba. Modern Theory of Atoms and Atomic Spectra | Доклад | Abstracts of Papers to All- Union Conference, Leningrad, 1977, p. 26-28, 1977 | 3 |
| 69. | M. Ya. Amusia | The Ionization of Inner Shells of Atoms with Account of Outer Shell Rearrangement | Invited talk | in: <i>Atomic Physics</i> 5 , Plenum Press, New York- London, p. 537- 565, 1977 | 29 |
| 70. | 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.), 47 , 7, p. 1432- 1441, 1977 | 10 |
| 71. | M. Ya. Amusia I. S. Lee | Single-Photon Decay of Two-Hole Atomic States | Paper | J. Exp. Theor. Phys. (USSR Acad. Sci.), 73 , 2(8), p. 430-437, 1977 | 8 |
| 72. | M. Ya. Amusia, N. A. Cherepkov, V. Radojevich | Photoionization Cross Section Calculations for 4d10 Subshell of In in the RPAE | Paper | Phys. Let. A, 60 , 1, p. 24-26, 1977 | 3 |
| 73. | 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., 10 , 14, p. L535-539, 1977 | 5 |
| 74. | 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., 41 , 12, p. 2529-2537, 1977 | 9 |

| | | | | | |
|-----|--|--|--------------|--|----|
| 75. | M. Ya. Amusia and V. K. Ivanov | Peculiarities of Photoelectron Angular Distribution | Paper | Izv. USSR Acad. Sci., Ser. Fiz., 41 , 12, p. 2509-2517, 1977 | 9 |
| 76. | Л.В. Чернышева М.Я. Амусья В.К. Иванов, С.Г. Шапиро | Система АТОМ, VI. Программа вычисления ширины атомных уровней относительно оже-распада с учетом многоэлектронных корреляций | Пре-принт | Препринт 536, Л.: ФТИ им.А.Ф. Иоффе, 1977 | 52 |
| 77. | M. Ya. Amusia and V. K. Ivanov | On the Existence of a Collective Level in Xe Atom | Paper | Phys. Let. A, 65 , 3, p. 217-219, 1978 | 3 |
| 78. | 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 |
| 79. | M. Ya. Amusia, V. K. Ivanov, V. K. Dolmatov | Giant Autoionization in Mn Atom | Paper | Letters to J. Tech. Phys. (USSR Acad. Sci.), 4 , 21, p. 1305-1309, 1978 | 5 |
| 80. | E. G. Berezhko, V. K. Ivanov, N. M. Kabachnik | The effect of many-electron correlations on the alignment of ions in atomic photoionization | Статья | Physics Letters A 1978, V. 66A, n.6, P. 474-475 | 2 |
| 81. | Л.В. Чернышева М.Я. Амусья, В. Радоевич, Н.А.Черепков | Система АТОМ VII. -. Программа вычисления сечения фотоионизации атома и оптических сил осцилляторов в приближении Хартри-Фока и с учетом многоэлектронных корреляций в одном переходе. | Пре-принт | Препринт 589, Л.: ФТИ им. А.Ф.Иоффе, 1978 | 50 |
| 82. | В. К. Иванов, С. Ю. Медведев, В. А. Соснивкер | Многочастичный характер фотоионизации $4f^{14}$, $5s^2$, $5p^6$, $5d^{10}$ и $6s^2$ оболочек атома ртути | Пре-принт | Препринт ФТИ им А.Ф.Иоффе №615, 1979. Ленинград. | 28 |

| | | | | | |
|-----|--|--|--------------|--|----|
| 83. | M. Ya. Amusia | Single-Photon and Single-Electron Decay of Double Vacancy States in Atoms | Paper | Comments on Atomic and Molecular Physics, 9 , 1, p. 23-34, 1979 | 12 |
| 84. | M. Ya. Amusia | The Manifestation of Intershell Interaction in the Process of Atomic Photoionization | Paper | Comments on Atomic and Molecular Physics, VIII , 3-4, p. 61-71, 1979 | 11 |
| 85. | 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., 12 , 4, p. 649-662, 1979 | 14 |
| 86. | 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.), 76 , 2, p. 470-481, 1979 | 12 |
| 87. | M. Ya. Amusia, V. V. Afrosimov, S. V. Bobashev, L. A. Shmaenok, S. A. Sheinerman | Two-Step He Photoionization via the excited $4p^1P$ State | Paper | J. Exp. Theor. Phys. (USSR Acad. Sci.), 76 , 3, p. 873-886, 1979 | 14 |
| 88. | L. V. Chernysheva, N. A. Cherepkov, V. Radojevic | Frozen-core Hartree-Fock program for atomic discrete and continuum states | Paper | Comp.Phys.Comm un. 18,p.87, 1979 | |
| 89. | M. Ya. Amusia, I. S. Lee, L. V. Chernysheva | Combination Scattering of Light on Complex Atoms | Paper | J. Tech. Phys. (USSR Acad. Sci.), 49 , 4, p. 710-719, 1979 | 10 |
| 90. | M. Ya. Amusia, Zh. Zhivanovich, V. Radojevich, N. A. Cherepkov | Generalized Oscillator Strength for Beryllium Atom in the Random Phase Approximation with Exchange | Paper | Journal of Chemical Physics, 71 , 4 p. 1761-1766, 1979 | 6 |
| 91. | 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 |

| | | | | | |
|-----|--|--|-----------------|--|----|
| 92. | 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 |
| 93. | 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.), 78 , 3, p. 910-923, 1980 | 14 |
| 94. | 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, 19 , 1- 2, p. 123-154, 1980 | 32 |
| 95. | 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), 22 , 5, p. 180-182, 1980 | 3 |
| 96. | Н. А. Черепков, Л. В. Чернышева | Захват мю-мезонов атомами Не | Paper | Ядерная физика, 32, 3(9), с. 709- 719, 1980 (Soviet Journal of Nuclear Physics-USSR, V. 32, 3, P. 366-371) | 11 |
| 97. | M. Ya. Amusia, V. K. Dolmatov | Electron Entrainment by Resonance Frequency Light | Paper | J. Exp. Theor. Phys. (USSR Acad. Sci.), 79 , 5(11), p. 1664- 1670, 1980 | 7 |
| 98. | M. Ya. Amusia | Rearrangement Effects in Photoionization | Paper | Applied Optics, 19 , 23, p. 4042- 4050, 1980 | 9 |
| 99. | M. Ya. Amusia, V. K. Ivanov, V. K. Dolmatov | Electron Entrainment by Resonance-Frequency Light | Paper | Letters to J. Tech. Phys., 6 , 23, p. 1465-1467, 1980 | 3 |

| | | | | | | |
|------|---|--|-------------------|---|----|---|
| 100. | В.К.Иванов, Л.В.Чернышева | Автоматизация и стандартизация атомных расчетов | Статья- доклад | Труды всесоюзного совещания по физике взаимодействия заряженных частиц с кристаллами. Ч.2. Изд. МГУ, 1980. С.575-580 | X | 6 |
| 101. | Л.В. Чернышева, М.Я. Амусья, Д. Давидович, Н.А. Черепков | Система АТОМ VIII – Программа вычисления фаз рассеяния в упрощенном приближении случайных фаз с обменом | Пре- принт | Препринт 663, Л.: ФТИ им.А.Ф. Иоффе, 1980 | 48 | |
| 102. | 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, 82 , 4, p. 171-173, 1981 | 3 | |
| 103. | M. Ya. Amusia | Collective Effects in Photoionization of Atoms | Review | in: <i>Advances in Atomic and Molecular Physics</i> , ed. Bates, Academic Press, 17 , p. 1-54, 1981 | 54 | |
| 104. | 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., 14 , p. L19-23, 1981 | 5 | |
| 105. | 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, 82 , 8, p. 407-411, 1981 | 5 | |
| 106. | M. Ya. Amusia | A New Type of Atomic Electron Collectivization: "Melting" of Shells | Paper | Comments on Atomic and Molecular Physics, 10 , 5, p. 179-190, 1981 | 12 | |

| | | | | | |
|------|---|--|-----------------|--|----|
| 107. | 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 |
| 108. | 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 |
| 109. | 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 |
| 110. | 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 |
| 111. | 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, 23 , No. 2-3, p.175- 186, 1981 | 12 |
| 112. | 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.), 51 , 11, p. 2411, 1981 | |
| 113. | M. Ya. Amusia, V. K. Ivanov V. A. Kupchenko | Photoionization of Inner Shells | Paper | J. of Phys. B: At. Mol. Phys., 14 , 21, p. L667-671, 1981 | 5 |
| 114. | M. Ya. Amusia | Collective Effects in an Isolated Atom | Paper | Izv. USSR Acad. Sci., Ser. Fiz., 45 , 12, p. 2242-2254, 1981 | 13 |

| | | | | | |
|------|--|--|---------------|--|----|
| 115. | Л.В. Чернышева, Н. А. Черепков С.И. Шефтель | Система АТОМ IX. Программа вычисления коэффициентов в уравнениях Хартри- Фока | Пре- принт | Препринт 760, Л.: ФТИ им. А. Ф. Иоффе АН СССР, 1981 | 28 |
| 116. | Л.В. Чернышева. | Комплекс программ для автоматизации атомных расчетов | Пре- принт | Препринт, Л.: ЛНИВЦ АН СССР, 1981 | 80 |
| 117. | M. Ya. Amusia | "Atomic" Bremsstrahlung Spectrum | Paper | Comments on Atomic and Molecular Physics, 11 , 3-5, p. 123- 137, 1982 | 15 |
| 118. | M. Ya. Amusia, L. V. Chernysheva, N. A. Cherepkov, D. M. Davidovich, V. Radojevich | Slow Electron Elastic Scattering on Argon | Paper | Phys. Rev. A, 25 , 1, p. 219-225, 1982 | 7 |
| 119. | M. Ya. Amusia, A. S. Kheifets | The Photoelectron Angular Distribution β - Parameter in the Region of $3s^{-1}$ - $4p$ Resonance in Argon | Paper | Phys. Let. A, 89 , 9, p. 437-440, 1982 | 4 |
| 120. | Л. В. Чернышева, М.Я.Амусья, С.А.Шейнерман | Система АТОМ, X Программа вычисления сечения возбуждения триплетных уровней электронами во 2 порядке метода искаженных волн | Препринт | Препринт 776, Л.: ФТИ им. А.Ф. Иоффе АН СССР, 1982 | 32 |
| 121. | Л. В. Чернышева | Организация и возможности комплекса программ для проведения атомных расчетов | Доклад | В сб.: Информационно- вычислительные проблемы автоматизации научных исследований, М.: Наука, с. 115- 120, 1983 | 6 |
| 122. | 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.), 53 , 2, p. 341- 347, 1983 | 7 |

| | | | | | |
|------|---|--|--------------|---|----|
| 123. | M. Ya. Amusia | Collective Effects in Isolated Atoms (Many Body Aspects of Photoionization Process) | Invited talk | in: <i>Atomic Physics</i> 8 , ed. I. Lindgren, A. Rosen and S. Svanberg, Plenum Press, New York-London, p. 287-304, 1983 | 8 |
| 124. | N. B. Avdonina, M. Ya. Amusia | Characteristic Features in Photoionization of Excited Atomic States | Paper | J. of Phys. B: At. Mol. Phys., 16 , 18, p. L543-545, 1983 | 3 |
| 125. | M. Ya. Amusia, V. K. Dolmatov, V. K. Ivanov | Photoionization of Atoms with Half-Filled Shells | | J. Exp. Theor. Phys. (USSR Acad. Sci.), 85 , 1, p. 115-123, 1983 | 9 |
| 126. | 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 |
| 127. | 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., 16 , 24, p. L753-756, 1983 | 4 |
| 128. | Л.В. Чернышева М.Я. Амусья, Н.Б. Авдонина, М.Ю.Кучиев | Система АТОМ, XIII - Программа вычисления спектра «атомного» тормозного излучения быстрых электронов | Препринт | Препринт 865, Л.: ФТИ им.А.Ф. Иоффе, 1983 | 46 |
| 129. | M. Ya. Amusia, V. Kilin, I. S. Lee | Double Auger-Decay of two K-Vacancies in Ne | Paper | J. Tech. Phys. (USSR Acad. Sci.), 54 , 5, p. 990-992, 1984 | 3 |
| 130. | M. Ya. Amusia | Interaction of Complex Atoms with Radiation | Paper | Izv. USSR Acad. Sci., Ser. Fiz., 48 , 4, p. 642-650, 1984 | 9 |
| 131. | 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.), 54 , 8, p. 1454-1464, 1984 | 11 |

| | | | | | |
|------|---|---|-----------------|---|----|
| 132. | 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.), 10 , 17, p. 1029-1033; Sov. Tech. Phys. Let. 10 , 9, p. 433- 434, 1984 | 2 |
| 133. | Л.В. Чернышева М.Я. Амусья, Н.А.Черепков, В Радоевич | Program of Computing the Cross Section of Photoionization of Atoms | Paper | В сб.: Системы автоматизации в науке и производстве. Москва: Наука, р. 87-96, 1984 | 10 |
| 134. | 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 |
| 135. | M. Ya. Amusia, A. N. Kolesnikova, I. S. Lee | Hypersatellite Transitions in Neon | Paper | J. Tech. Phys., Short Communications (USSR Acad. Sci.), 55 , 1, p. 39- 41, 1985 | 3 |
| 136. | M. Ya. Amusia, V. A. Kilin, I. S. Lee | Three-Electron Auger- Decay in Atoms | Paper | Optics and Spectroscopy (USSR Acad. Sci.), 59 , 2, p. 261- 264, 1985 | 4 |
| 137. | 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., 18 , p. L791-796, 1985 | 6 |
| 138. | 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., 18 , 16, pp. L551 - L556, 1985 | 6 |
| 139. | 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.), 11 , 6, p. 343-346, 1985 | 4 |

| | | | | | |
|------|---|--|---------------|---|----|
| 140. | 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., 18 , 19, p. 3871- 3879, 1985 | 9 |
| 141. | Л. В. Чернышева | Вычислительный эксперимент при исследовании структур атомов | статья | В кн.: Проблемы автоматизации научных и производственны х процессов, М.: Наука, с.126-131, 1985 | 6 |
| 142. | 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.), 55 , 12, p. 2304-2311, 1985 | 8 |
| 143. | 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 |
| 144. | A. S. Kheifets | Difference between the atomic ionization spectra in (γ ,e) and (e,2e) reactions | Paper | Sov. Phys. -JETP, 62(2):260-265, 1985. | |
| 145. | Л.В. Чернышева Н.А. Черепков | Система АТОМ, XIV. Программы вычисления волновых функций мезона в поле “замороженного” острова и сечения захвата мезона атомом | Пре- принт | Препринт № 943, Л.: ФТИ им А.Ф.Иоффе АН СССР, 1985 | 44 |
| 146. | Л.В.Чернышева М.Я. Амусья В.А. Килин И.С. Ли | Система АТОМ, XV - Программа вычисления вероятности сдвоенного Оже- распада | Препринт | Препринт. 944, Л.: ФТИ им. А. Ф. Иоффе, 1985 | 25 |
| 147. | М.Я. Амусья В.А. Соснивкер, Н.А. Черепков Л.В. Чернышева С.И. Шефтель | Упругое рассеяние медленных электронов на атомах и ионах с одной вакансией в замкнутой оболочке | Пре- принт | Препринт 981. Л.: ФТИ им. А.Ф.Иоффе, 1985 | 32 |
| 148. | 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.), 56 , 2, p. 246-254, 1986 | 9 |

| | | | | | |
|------|--|---|---------------------|---|----|
| 149. | 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.), 56 , 1, p. 8- 15; Sov. Phys. Tech. Phys. 31 , 1, p. 4-8, 1986 | 8 |
| 150. | 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.), 56 , 7, p. 1428-1430; Sov. Phys. Tech. Phys. 31 , 7, p. 847-848, 1986 | 3 |
| 151. | 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., 50 , 7, p. 1274- 1278, 1986 | 5 |
| 152. | 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., 50 , 7, p. 1279- 1284, 1986 | 6 |
| 153. | 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., 50 , 7, p. 1261- 1266, 1986 | 6 |
| 154. | M. Ya. Amusia | Electron Entrainment by Photons | Обзорны й доклад | In: <i>X-Ray and Electron Spectra and Chemical Bonding</i> , Vladivostok State University Publishing, Vladivostok, p. 88- 97, 1986 | 10 |
| 155. | V.I.Fomichev, V.K.Ivanov, A.V.Kravtsov, A.I.Mikhailov, N.P.Popov | Muon transfer from mesic hydrogen to helium and lithium | Пре- принт | Leningrad Nuclear Physics institute - LNPI. Preprint - 1177. Leningrad 1986. P. 14 | 14 |
| 156. | Б.К.Иванов, А.В.Кравцов, А.И.Михайлов, Н.П.Попов, В.И.Фомичев | Перезарядка мезоводорода в гелии и литии при низкой энергии | Статья | ЖЭТФ 1986. T.91, в.7. C.1274-1278 | 5 |

| | | | | | |
|------|--|--|-----------|--|----|
| 157. | Л.В. Чернышева М.Ю. Кучиев В.Л. Яхонтов | Система АТОМ, XVII. Программа вычисления волновых функций основного состояния атомов в приближении Хартри-Фока-Дирака | Пре-принт | Препринт 1015, Л.: ФТИ им. А. Ф. Иоффе АН СССР, 1986 | 38 |
| 158. | Л.В. Чернышева М.Я. Амусья, В.А. Килин, А.Н. Колесникова И.С. Ли | Система АТОМ, XVIII - The System ATOM, XVIII Программа вычисления вероятности однофотонного распада двухдырочных состояний | Пре-принт | Препринт 1054, Л. ФТИ им. А. Ф. Иоффе, 1986 | 29 |
| 159. | Л.В. Чернышева, Н.А. Черепков | Система АТОМ XIX. Программа вычисления сечения photoionизации атома с незаполненной оболочкой с учетом корреляций в двух переходах | Пре-принт | Препринт 1079, Л.: ФТИ им. А.Ф. Иоффе АН СССР, 1986 | 49 |
| 160. | M.Yu. Kuchiev, S.A. Sheinerman | Ar and Xe photoelectron-spectra with regard to after-collision interactions | Paper | Izvestiya Akademii Nauk. Ser. Fizicheskaya, 50 , 7, pp. 1390 – 1394, 1986 | 5 |
| 161. | M.Yu. Kuchiev, S.A. Sheinerman | The calculation of the photoionization cross-section allowing for the Post Collision Interaction | Paper | Computer Physics Communications, 39 , 2, pp. 155 – 160, 1986 | 6 |
| 162. | M.Yu. Kuchiev, S.A. Sheinerman | Resonant processes involving creation of 3 charged-particles | Paper | JETP, 90 , no. 5, pp. 1680 – 1689, 1986 | 10 |
| 163. | V. K. Ivanov, A. V. Kravtsov, A. I. Mikhailov, N. P. Popov | Muon transfer from mesic hydrogen to lithium and the atomic intershell correlations | Пре-принт | Leningrad Nuclear Physics institute - LNPI. Preprint - 1252. Leningrad 1987. P. 14 | 14 |
| 164. | Г. Ф. Грибакин, В. К. Иванов, М. Ю. Кучиев, Л. В. Чернышева | Расчет отрицательных ионов методами теории многих тел | Пре-принт | Препринт ФТИ им А.Ф.Иоффе №1096, Ленинград 1987. С.22 | 22 |

| | | | | | |
|------|---|---|-----------|--|----|
| 165. | 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.), 57 , 5, p. 988-989, 1987 | 2 |
| 166. | M. Ya. Amusia V. K. Ivanov | Intershell Interaction in Atoms | Paper | Uspekhi Fizicheskikh Nauk, (Soviet Physics - Uspekhi) 152 , 2, p.185-230, 1987 | 46 |
| 167. | 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.), 57 , 7, 1246-1254; Sov. Phys. Tech. Phys. 32 , 7, p.738-744, 1987 | 7 |
| 168. | M. Ya. Amusia, A. N. Kolesnikova, I. S. Lee | Cooperative Decays of Two-Vacancy States | Paper | J. Tech. Phys. (USSR Acad. Sci.), 57 , 6, p. 1228- 1229, 1987 | 2 |
| 169. | M. Ya. Amusia, A. N. Kolesnikova, I. S. Lee | Hypersatellite Decays of Vacancies | Paper | J. Tech. Phys. (USSR Acad. Sci.), 57 , 3, p. 1726-1734; Sov. Phys. Tech. Phys. 32 , 9, 1031-1036, 1987 | 6 |
| 170. | M. E. Reich, V. G. Yarzhemsky, 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.), 10 , 135-140, 1987 | 6 |
| 171. | Л.В.Чернышева Б.В. Гульцев, М.М. Довганич | Система АТОМ, XX. Программа вычисления атомных волновых функций в приближении Хартри-Фока на ЕС ЭВМ Материалы по мат. обеспечению | Пре-принт | Препринт Л.: ФТИ им.А.Ф. Иоффе, 72 с., 1987 | |
| 172. | Л.В.Чернышева Г.Ф. Грибакин | Система АТОМ, XXI. Программа вычисления волновых функций электрона в поле “замороженного” остова для состояний с термом 1S. | Пре-принт | Материалы по мат. обеспечению, ФТИ им.А.Ф. Иоффе, Л., 1987 | 21 |

| | | | | | |
|------|---|---|-----------|--|----|
| 173. | Г. Ф. Грибакин., В. К. Иванов, М. Ю. Кучиев, Л. В. Чернышева. | Расчет отрицательных ионов методами теории многих тел | Пре-принт | Препринт 1096. Л.: ФТИ им. А.Ф. Иоффе, 1987 | 22 |
| 174. | M.Yu. Kuchiev, S. A. Sheinerman | After-collision interaction in the ionization of atomic inner shells by the electron shock | Paper | Technical Physics, 57 , 8, pp. 1476 – 1487, 1987 | 12 |
| 175. | 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 | |
| 176. | M.Yu. Kuchiev, S.A. Sheinerman | Resonance and nonresonance processes under low scattering rates of forming charge particles | Paper | Technical Physics Letters, 13 , 16, pp. 1001 – 1006, 1987 | 6 |
| 177. | 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.), 58 , 3, p. 442-451, 1988 | 10 |
| 178. | M. Ya. Amusia | "Atomic" Bremsstrahlung | Paper | Physics Reports, 162 , 5, p. 249-335, 1988 | 7 |
| 179. | 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., 21 , 7, p. L151-154, 1988 | 4 |
| 180. | 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, 4 , p. 49-54, 1988 | 6 |
| 181. | 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, 21 , 15, L419-425, 1988 | 7 |
| 182. | В. Ф. Орлов, Н. А. Черепков, Л. В. Чернышева | Расчет сечений фотоионизации атомов хлора и кислорода в области автоионизационных резонансов | Paper | Оптика и спектроскопия, 64 , 3, 683-685, 1988 | 3 |

| | | | | | |
|------|--|---|--------|--|----|
| 183. | V.K. Ivanov, A.V. Kravtsov, A.I. Mikhailov, N.P. Popov | Muon transfer from mesic hydrogen to lithium and the atomic intershell correlations | Статья | Zeitschrift fur Physik D- Atoms, Molecules and Clusters 1988. 7 , 349-352 | 4 |
| 184. | L.V.Chernysheva, G.F.Gribakin, V.K.Ivanov, M.Yu.Kuchiev | Many-body calculation of negative ions using the Dyson equation | Статья | J. of Phys. B: At.Mol.Opt.Phys., 21 , 15, pp. L419-L425, 1988 | 7 |
| 185. | 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) 64 (5) 705-706, 1988 | 2 |
| 186. | M.Yu. Kuchiev, S.A. Sheinerman | Resonant scattering with low-velocity outgoing charged particles | Paper | J. of Phys. B: At.Mol.Opt.Phys., 21 , 11, pp. 2027 - 2038, 1988 | 12 |
| 187. | Г. Ф. Грибакин, Б. В. Гульцев, В. К. Иванов, М. Ю. Кучиев | Отрицательные ионы щелочноземельных металлов | Статья | Письма в ЖТФ 1989. 15, в.2. С.32-36 | 5 |
| 188. | 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. 15 , 468-469, 1989 | 2 |
| 189. | 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, 14 , 3, p. 215-217, 1989 | 3 |
| 190. | 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., 53 , 9, p. 1672-1676, 1989 | 5 |
| 191. | 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, 14 , 3, p. 219-221, 1989 | 3 |
| 192. | M. Ya. Amusia N. V. Avdonina | Intershell Interaction in Excited Atoms and Ions Photoionization | Paper | Zeitschrift für Physik D: Atoms, Molecules and Clusters, 14 , 3, p. 191-194, 1989 | 4 |

| | | | | | |
|------|---|---|---------------|--|----|
| 193. | M. Ya. Amusia, N. A. Cherepkov, M. Nicolich, A. Tanchich | Momentum Transfer Cross Section of Positrons Elastically Scattered on Helium | Paper | Phys. Let. A, 140 , 9, p. 503-506, 1989 | 4 |
| 194. | 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), 2 , p. 100-102, 1989 | 3 |
| 195. | 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.), 59 , 3, p. 28- 32, 1989 | 5 |
| 196. | N. B. Avdonina and M. Ya. Amusia | Photoionization of Excited States of the Cesium Isoelectronic Sequence | Paper | Optics and Spectroscopy (USSR Acad. Sci.), 66 , 5, p. 990- 995, 1989 | 6 |
| 197. | V. K. Dolmatov, T.T. Riskiev V.M. Romanenko | Characteristic properties of electron bremsstrahlung on a Mn atom | Paper | Opt. Spectrosc. (USSR), 66 (2) 145-147, 1989 | 3 |
| 198. | Л.В. Чернышева М.Я. Амусья, Н.Б. Авдонина А.В. Король | Система АТОМ, XXII. Программа вычисления спектра тормозного излучения частиц промежуточных энергий | Пре- принт | Препринт 1314, Л.: ФТИ им.А.Ф. Иоффе, 1989 | 38 |
| 199. | Л.В. Чернышева М.Я. Амусья, В.Г. Орлов С.К. Семенов Н.А. Черепков | Система АТОМ. XXIII. Программа вычисления волновых функций электрона в поле “замороженного остова” с возможностью различного задания недиагональных энергетических параметров | Пре- принт | Препринт 1319, Л.: ФТИ им. А. Ф. Иоффе, 1989 | 38 |
| 200. | M.Yu. Kuchiev, S.A. Sheinerman | The Post Collision interaction in atomic processes | Review | Physics-Uspekhi, 158 , 3, pp. 353 – 387, 1989 | 35 |
| 201. | 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., 23 , 3, p. 393-402, 1990 | 10 |

| | | | | | |
|------|---|---|--------------|---|----|
| 202. | M. Ya. Amusia A. V. Korol' | Bremsstrahlung Spectrum for 600 eV Electrons on Xe | Paper | J. of Phys. B: At. Mol. Opt. Phys., 23 , p. 2899-2907, 1990 | 9 |
| 203. | 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.), 60 , 3, p. 66-72, 1990 | 7 |
| 204. | M. Ya. Amusia V. K. Dolmatov | Elastic Scattering of Electrons upon Atoms with Semi-Filled Shells | Paper | J. Exp. Theor. Phys. (USSR Acad. Sci.), 97 , 4, p. 1129-1139; Sov. Phys. JETP, 70 , 4, p. 632-638, 1990 | 7 |
| 205. | 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.), 60 , 5, p. 1-9, 1990 | 9 |
| 206. | M. Ya. Amusia | Many-Electron Effects in Absorption and Emission of VUV Radiation by Atoms and Ions | Paper | Physica Scripta, T31 , p. 43-56, 1990 | 3 |
| 207. | M. Ya. Amusia | Polarization Radiation in Electronic and Atomic Collisions | Invited talk | ICPEAC-16, AIP Conference Proceedings, 206 , p. 201-214, 1990 | 14 |
| 208. | 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., 23 , 3, p. 385-391, 1990 | 7 |
| 209. | 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., 23 , 3, p. 393-402, 1990 | 10 |
| 210. | Л. В. Чернышева | Изучение атомных структур на базе автоматизированной системы | статья | В сб. "Проблемы обработки информации и интегральной автоматизации производства. Л.: Наука, ЛИИАН, 1990, с.155-161 | 7 |
| 211. | В. К. Иванов, Л. В. Чернышева | Фотоионизация атомов с полузаполненными np^3 -оболочками | Статья | Оптика и спектроскопия, т. 69 , вып.2, с.289-294, 1990 | 6 |

| | | | | | |
|------|---|---|---------------|---|----|
| 212. | 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 |
| 213. | 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.), 69 , 2, p. 272- 277, 1990 | 6 |
| 214. | 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., 23 , p. L491-494, 1990 | 4 |
| 215. | 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, 215 , p. 25- 45, 1990 | 21 |
| 216. | 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 | Статья | Journal of Physics B: At.Mol.Opt.Phys.1 990, V. 23, P. 4505-4519. | 15 |
| 217. | V. K. Dolmatov | Marked differences in the 4s photoionization between the Cr(4s, ⁷ S ₃) and Cr*(4s, ⁵ S ₂) atoms | Paper | J. Phys. B: At. Mol. Opt. Phys. 1990, 23 , L625- L628 | 4 |
| 218. | Л.В. Чернышева М.Я. Амусья, К.Л. Цемехман | ATOM. XXIV. Программа вычисления сечений фотопоглощения и однократной фотоионизации промежуточных оболочек атомов с учетом собственно- энергетической части фотоэлектрона | Пре- принт | Препринт 1492, Л.: ФТИ им.А.Ф. Иоффе, 1990 | 33 |
| 219. | M.Yu. Kuchiev, S.A. Sheinerman | PCI in Giant Resonances | Paper | J. Phys. B: At. Mol. Opt. Phys., 23 , 6, L79-L82, 1990 | 4 |
| 220. | 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., 23 , 12, 2131-2136, 1990 | 6 |

| | | | | | |
|------|--|--|-----------------|---|----|
| 221. | Г. Ф. Грибакин, Б. В. Гульцев, В. К. Иванов, | Фотопоглощение 2р-электронами кислорода в ВТСП | Статья | Сверхпроводимость: физика, химия, техника 1991, т.4, №10, С. 1873-1878. | 6 |
| 222. | V. K. Ivanov | Many-electron effects in negative ion photodetachment | Обзорный доклад | 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 |
| 223. | N. B. Avdonina | Photoionization Cross Sections of Excited States of Atoms and Ions | Обзорный доклад | 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 |
| 224. | Г. Ф. Грибакин, В. К. Иванов, М. Ю. Куциев | Упругое рассеяние электронов на атомах щелочноземельных элементов. Отрицательные ионы. | Доклад | В сборнике "Физика электронных и атомных столкновений" №12. Санкт-Петербург, 1991. С. 77-88. | 12 |
| 225. | M. Ya. Amusia I. S. Lee | Correlated Decay of Two Vacancies in Atoms | Paper | J. of Phys. B: At. Mol. Opt. Phys., 24 , p. 2617-2632, 1991 | 16 |
| 226. | В. Г. Яржемский, Т. Райх, Л. В. Чернышева. | Влияние дипольной поляризуемости на относительные интенсивности 2s и 2p линий в рентгеноэлектронных спектрах Si, S, Ca | Статья | Оптика и спектроскопия. т.70, вып.1, с. 26-30, 1991 | 5 |

| | | | | | |
|------|--|--|---------------|--|----|
| 227. | 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 |
| 228. | Л.В. Чернышева М.Я. Амусья, А.С. Хейфец | Система АТОМ, XXVI. Программа вычисления дифференциальных сечений возбуждения и ионизации атома электронным ударом | Пре- принт | Препринт 1531, Л.: ФТИ им.А.Ф. Иоффе, 1991 | 38 |
| 229. | Л.В. Чернышева М.Я. Амусья, Б. Ф. Орлов, С. К. Семенов, Н. А. Черепков | Система АТОМ, XXVII. Программа вычисления хартри- фоковских волновых функций электрона в поле "замороженного" остова на ЕС ЭВМ | Пре- принт | Препринт 1574, Л.: ФТИ им. А. Ф. Иоффе 1991 | 43 |
| 230. | M.Yu. Kuchiev, S.A. Sheinerman | Evaluation of parameters of Hg $5d^96s^2(^2D_{3/2})6p_12/(3/2$ $1/2)_2$ autoionizing state from PCI spectra | Paper | J. of Phys. B: At. Mol. Opt. Phys., 24 , 22, p. 4775- 4781, 1991 | |
| 231. | 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 |
| 232. | V. G. Yarzhemsky, T. Riech, and 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 |
| 233. | 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., 25 , 3, p. 657-666, 1992 | 10 |
| 234. | M. Ya. Amusia, V. A. Kilin, I. S. Lee | Double Auger Decay in Atoms: Probability and Angular Distribution | Paper | Phys. Rev. A, 45 , 7, p. 4576-4587, 1992 | 12 |
| 235. | 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., 25 , p. 2383-2392, 1992 | 10 |
| 236. | M. Ya. Amusia and I. S. Lee | Radiative Semi-Auger Decay in Atoms | Paper | Physica Scripta, T- 41 , p. 23-27, 1992 | 6 |

| | | | | | |
|------|--|--|--------|---|----|
| 237. | 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, 23 , p. 101-113, 1992 | 3 |
| 238. | M. Ya. Amusia and A. S. Kheifets, | Relativistic <i>ab initio</i> calculations of the Xenon 5s Ionization Spectra for the (γ , e) and (e,2e) Reactions | Paper | Phys. Rev. A, 46 , 2, p. 1261-1269, 1992 | 9 |
| 239. | 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 | | Institute of Physics Conference Series, 128 , Sec. 2, p. 83-86, 1992 | 4 |
| 240. | 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 | Статья | Journal of Physics B: At.Mol.Opt.Phys.1 992, V. 25, P. 1757-1772. | 16 |
| 241. | 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 | Статья | Physics Letters A 1992, 164 , 1, pp.73-82. | 10 |
| 242. | A. A. Gribakina, G. F. Gribakin, V. K. Ivanov | Structure and photodetachment of the Yb ⁻ negative ion | Статья | Physics Letters A 1992, 168 , 4, p. 280-284. | 5 |
| 243. | V. K. Dolmatov | Striking differences between the 4s photoionization of free Mn ⁺ and Mn ^{++*} | paper | J. Phys. B: At. Mol. Opt. Phys. 25 , L629-L634, 1992 | 6 |
| 244. | 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 |
| 245. | 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 | Статья | Semicond.Science Technol., 8 , p. 20-24, 1993. | 5 |

| | | | | | |
|------|---|---|------------------|---|----|
| 246. | V. K. Ivanov, J. B. West | The photoionisation cross sections of the 4s, 3p and 3s subshells of Ca ⁺ | Статья | Journal of Physics B: At.Mol.Opt.Phys. 26 , n.14, P. 2099-2113, 1993. | 15 |
| 247. | P. Dunne, G. O'Sullivan, V. K. Ivanov | Extreme-ultraviolet absorption spectrum of Ga ⁺ . | Статья | Physical Review A 48 , n.6, P. 4358-4364, 1993. | 7 |
| 248. | Б. К. Иванов, А. Н. Ипатов, В. А. Харченко, М. Л. Жижин | Электронная структура и адиабатические колебания металлических кластеров | Статья | Письма в ЖЭТФ 58 , в.8, с.649-655, 1993. | 7 |
| 249. | V. K. Ivanov | Photoionisation of positive and negative ions | Обзор-ный доклад | In: Proceedings of the 10th VUV Conference (Invited lectures and Progress reports, Paris 1992). Eds. F.J.Willeumier et al. World Scientific, 1993. P.178-187. | 8 |
| 250. | V. K. Ivanov | Photodetachment cross sections and photoelectron angular distributions from negative ions | Обзор-ный доклад | In: Proceedings of the International Workshop on Photoionization (Berlin, 1992). Eds. U. Becker and U. Heinzmann, p.81-84, 1993. | 5 |
| 251. | 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., 26 , p. 41-46, 1993 | 6 |
| 252. | 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, 47 , 2, p. R 767-770, 1993 | 4 |

| | | | | | |
|------|--|---|-------|---|----|
| 253. | 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., 26 , p.1425-1434, 1993 | 10 |
| 254. | V. A. Kilin, M. Ya. Amusia, L. V. Chernysheva, A. Ehresmann, H. Schmoranzer K.-H. Schartner | Three-electron radiative transition | Paper | J. of Phys. B: At. Mol. Opt. Phys., 26 , p. L97-102, 1993 | 6 |
| 255. | M. Ya. Amusia, V. A. Kilin, A. Ehresmann, H. Schmoranzer K.-H. Schartner | Double Electron Autoionization Decay of Resonantly Excited Single Electron States | Paper | J. Phys. B: At. Mol. Opt. Phys., 26 , 1281-1300, 1993 | 20 |
| 256. | 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 275 , American Institute of Physics, New York, p. 375-387, 1993 | 13 |
| 257. | V. K. Dolmatov | On the 3p photoabsorption cross section of free Mn ⁺ | Paper | J. Phys. B: At. Mol. Opt. Phys. 26 , L79-L84, 1993. | 6 |
| 258. | 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. 274 , p. 553-555, 1993 | 3 |
| 259. | V. K. Dolmatov | Suppression of the 3p →nd(n>3)resonances in the 3p photoabsorption of free Mn and Mn ⁺ | Paper | Phys.Lett. A174 116-118, 1993 | 3 |
| 260. | V. K. Dolmatov | The case of a unique autoionization decay dynamic: the 3p→3d resonance in Cr | Paper | J. Phys. B: At. Mol. Opt. Phys. 26 , L393-L398, 1993 | 6 |
| 261. | V. K. Dolmatov | Singularity of Cr: nd orbital (anti-) collapse | Paper | J.Phys.B: At. Mol. Opt. Phys. 26 , L585-L588, 1993 | 4 |

| | | | | | |
|------|--|---|---------------|---|----|
| 262. | Л.В. Чернышева Н.А. Черепков С.К. Семенов. | Система АТОМ XXVIII. Программа вычисления парциальных сечений фотоионизации атомов с учетом корреляций в нескольких переходах | Пре- принт | Препринт 1620. Л.: ФТИ им. А. Ф. Иоффе. 55 с., 1993 | 55 |
| 263. | 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, 58 , 12, pp. 891 – 894, 1993 | |
| 264. | M. Ya. Amusia | Resonant Structure of the 3d-electrons Angular Distribution in a Free Mn ⁺ Ion (with V. K. Dolmatov) | | J. of Phys. B: At. Mol. Opt. Phys., 27 , p. L281-285, 1994 | 5 |
| 265. | S. M. Andrievsky, A. V. Yushchenko, L. V. Chernysheva | Oscillator strengths for heavy atoms: Lu I | | Newsletter on analysis of astronomical spectra, Darsbery Lab., No 4, p. 25- 26, 1994 | 2 |
| 266. | 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., 27 , p. 5211-5219, 1994 | 9 |
| 267. | V. K. Ivanov, J. B. West, G. F. Gribakin, A .A. Gribakina | Photoionization of the 2s,2p and 3s subshells of Mg ⁺ . | Статья | Zeitsch. fur Phys.D 29 , p.109- 114, 1994. | 6 |
| 268. | 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 | Статья | Physical Review A 50 , p. 1459-1464, 1994. | 6 |
| 269. | Б. К. Иванов, А. Н. Ипатов, Б. А. Харченко, М. Л. Жижин | Оптимизированная модель “желе” для металлических кластеров | Статья | Письма в ЖЭТФ, 60 , в.5, с.345-351, 1994. | 7 |
| 270. | V. K. Ivanov, L. P. Krukovskaya | The effects of intershell interaction and core rearrangement in Ge negative ion photodetachment | Статья | Journal of Physics B: At.Mol. Opt.Phys. 27 , p. 4111-4122, 1994. | 12 |

| | | | | | |
|------|---|--|--------|---|----|
| 271. | 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 | Статья | Physical Review A 1994, V.50, n.1, P. 489-495. | 7 |
| 272. | G. F. Gribakin W. A. King | The effect of virtual positronium formation on positron-atom scattering | | J. Phys. B: At. Mol. Opt. Phys. 27 , 2639–2645, 1994. | 7 |
| 273. | M.Yu. Kuchiev S.A. Sheinerman. | 'PCI Influence On Angular-Distribution Of Auger And Autoionization Electrons | Paper | J. Phys. B: At. Mol. Opt. Phys., 27 , 14, pp. 2943 – 2951, 1994 | |
| 274. | U. Koble, L. Kiernan, J. T. Costello, J.-P. Mosnier, E. T. Kennedy, V. K. Ivanov, V. A. Kupchenko M. S. Shendrik | 4f(¹ P) giant dipole resonance in La ³⁺ . | Статья | Physical Review Letters 74 , 12, p. 2188-2191, 1995. | 4 |
| 275. | P. Dunne, G. O'Sullivan, V. K. Ivanov | The M-shell photoabsorption spectrum of Ge ²⁺ . | Статья | Journal of Physics B: At.Mol.Opt.Phys. 28 , p.1241-1250, 1995. | 10 |
| 276. | 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, 28 , p. 965-977, 1995 | 13 |
| 277. | 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. 65 , 4, p. 1-8, 1995 (J.Tech.Phys. 40 , 4, p.291-294, 1995) | 4 |
| 278. | 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. 329 , p.415-418, 1995 | 4 |

| | | | | | |
|------|--|--|-----------------|---|----|
| 279. | 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. 28 (11), p. 2105-2112, 1995. | 8 |
| 280. | V. A. Kilin, A. N. Kharlova, A. Ehresmann, H. Schmoranzer K. H. Scharnert | Competition between non-correlative visible and correlative fluorescence transitions in Kr III | Paper | J. Phys. B: At. Mol. Opt. Phys. 28 , 4123-4132, 1995 | |
| 281. | A. S. Kheifets | Green's function calculation of the satellite spectrum of neon | Paper | J. Phys. B, 28 , 3791-3803, 1995 | |
| 282. | M. Ya. Amusia | Atoms as Many-Body Systems | Invited talk | Physics Reports, 264 , 1-5, p. 7-26, 1996 | |
| 283. | 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., 29 , L153-156, 1996 | 4 |
| 284. | 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 |
| 285. | 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, 79 , p. 295-298, 1996 | 4 |
| 286. | 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 53 , 6, p. 4183-89, 1996 | 7 |
| 287. | V. G. Yarzhemsky, T. Reich, L. V. Chernysheva, R. Streubel, R. J. Szargan. | Landscape asymmetry parameters in photoelectron spectra | Paper | Journal of Electron Spectroscopy and Related Phenomena, 77 , 1, 15-24, 1996 | 10 |

| | | | | | |
|------|---|---|-----------------|--|----|
| 288. | 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, 79 , p. 275-278, 1996 | 4 |
| 289. | M. Ya. Amusia, L. V. Chernysheva | RPAE Calculations of the Isoelectronic Series C-, N and O+ Photoionization Cross Section | Paper | Astronomy and Astrophysics Transactions, 12 , 4, p. 247-261, 1996 | 15 |
| 290. | 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. 18 , ed. A. Yagishita and T. Sasaki, Universal Academy Press, Inc., Tokyo, Japan. p.383-394, 1996 | 12 |
| 291. | 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 |
| 292. | 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 |
| 293. | 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 | |

| | | | | | |
|------|---|---|------------------|---|----|
| 294. | 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 |
| 295. | B. К. Иванов, A. Н. Ипатов, B. А. Харченко | Оптимизированная модель желе для металлических кластеров с экранированным кулоновским взаимодействием. | Статья | ЖЭТФ 109 , в. 3, с.902-915, 1996. | 14 |
| 296. | V. K. Ivanov, L. P. Krukovskaya, G. Y. Kashenock | Near-threshold shape resonance in Cr ⁻ outer-shell photodetachment. | Статья | Journal of Physics B: At.Mol.Opt.Phys. 29 , P.L313-L319, 1996. | 7 |
| 297. | V. K. Ivanov, G. Y. Kashenock, G. F. Gribakin, A. A. Gribakina | 2s,2p photodetachment from the He ⁻ (⁴ P) negative ion within the Dyson Equation method. | Статья | Journal of Physics B: At.Mol.Opt.Phys. 29 , P.2669-2687, 1996. | 19 |
| 298. | V. K. Ivanov, L. P. Krukovskaya, G. Y. Kashenock | Resonance structure in photodetachment of Cr ⁻ negative ion. | Обзор-ный доклад | Invited talks of the 5th International Workshop “Autoionization phenomena in atoms” (Dubna, 1995). Moscow University Press, p. 30-34, 1996 | 5 |
| 299. | V. K. Ivanov, G. Y. Kashenock | Autodetachment resonances in photoabsorption of He ⁻ and B ⁻ ions. | Обзор-ный доклад | Invited talks of the 5th International Workshop “Autoionization phenomena in atoms” (Dubna, 1995). Moscow University Press, p. 35-39, 1996. | 5 |

| | | | | | |
|------|--|--|-----------------|---|----|
| 300. | V. K. Ivanov, A. N. Ipatov | Autoionizing structure in photoabsorption of small metallic clusters. | Обзорный доклад | Invited talks of the 5th International Workshop “Autoionization phenomena in atoms” (Dubna, 1995). Moscow University Press, P. 50-54, 1996. | 5 |
| 301. | V. K. Ivanov | Collective phenomena in negative ion photodetachment. | Статья | In book “Correlations in clusters and related systems”. Ed. J.-P. Connerade, World Scientific, Singapore, P. 73-91, 1996. | 19 |
| 302. | 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 |
| 303. | Б. Д. Агапьев, В. К. Иванов, А. Н. Ипатов | “Упругое рассеяние медленных электронов на металлических кластерах. Отрицательные ионы.” | Статья | Известия РАН, сер. физическая 60 , в. 9, с. 7-11, 1996. | 5 |
| 304. | В. К. Иванов, А. Н. Ипатов, В. А. Харченко | “Оптимизированная модель желе для кластеров с экранированным кулоновским взаимодействием” | Статья | Известия РАН, сер. Физическая, 60 , в. 9, с. 43-48, 1996. | 6 |
| 305. | V. K. Dolmatov M. M. Mansurov | Trends in valence autoionizing Rydbergs for nd^5 semifilled-shell ground and excited atoms and ions: Cr, Mn, Mn^+ , Fe^+ , Fe^{2+} , Mo, Tc, Tc^+ and Re | Статья | J. Phys. B: At. Mol. Opt. Phys. 29 , L307-L312, 1996 | 6 |
| 306. | V. K. Dolmatov | First theoretical study of the 3p absorption spectrum of free Cr^+ | Статья | J. Phys. B: At. Mol. Opt. Phys. 29 , 18, L673-L676, 1996. | 4 |

| | | | | | |
|------|---|---|----------|--|----|
| 307. | 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 ²⁺ | Статья | J. Phys. B: At. Mol. Opt. Phys., 29 , 19, L687-L692, 1996. | 6 |
| 308. | 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 | Статья | J. Phys. B: At. Mol. Opt. Phys., 29 , 20, 4641-4658, 1996 | 18 |
| 309. | J. P. Connerade, V. K. Dolmatov | Inner-shell 3d → 4s and 3p→3d resonances in the photoionization of excited manganese | Статья | J. Phys. B: At. Mol. Opt. Phys., 29 , 23, L831- L835, 1996. | 5 |
| 310. | G. F. Gribakin W. A. King | Positron scattering from Mg atom | Статья | Can. J. Phys. 74 , 449–59, 1996. | |
| 311. | 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 |
| 312. | 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. 30 (24), 5715–5727, 1997 | 12 |
| 313. | 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. | Статья | Phys. Rev. Lett., 78 , 16. p. 3082-3085, 1997 | 4 |
| 314. | G. Yu. Kashenock V. K. Ivanov | "Collective effects in B ⁻ photodetachment". | Статья | J. Phys.B: At. Mol. Opt. Phys., 30 , p.4235-53, 1997. | 19 |

| | | | | | |
|------|--|--|-------------------------|--|----|
| 315. | B. K. Иванов, A. N. Ипатов, Л. П. Круковская | “Фотоотрыв от отрицательных ионов с ns^2 подоболочками. | Статья | Оптика и Спектр. 1997. Т.83, в. 5, с.726-32. | 7 |
| 316. | B. K. Иванов, A. N. Ипатов. | “Оптимизированная модель желе для клustersа с экранированным кулоновским взаимодействием. | Статья | Изв. РАН, сер. физич, 61 , в. 9, с. 1795-1807, 1997 | 13 |
| 317. | V. K. Ivanov, A. N. Ipatov, B. D. Agap'ev | “Correlation effects in many-body calculations for metallic clusters: electron structure, photoabsorption, elastic scattering”. | Обзор- ный доклад | 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 |
| 318. | 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 389 , AIP Press, Woodbury-New York, p. 415-30, 1997 | 16 |
| 319. | 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 | |

| | | | | | |
|------|---|---|--------|---|----|
| 320. | V. K. Dolmatov S. T. Manson | "Masking" effects in the photoelectron β -parameter spectrum | Paper | J. Phys. B: At. Mol. Opt. Phys., 30 , 15, L517-L521, 1997. | 5 |
| 321. | J. P. Connerade, V. K. Dolmatov | Overlapping resonances in the β -parameter spectrum | Paper | J. Phys. B: At. Mol. Opt. Phys., 30 , 6, L181-L187, 1997. | 7 |
| 322. | 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., 79 , 39–42, 1997. | |
| 323. | V.A. Kilin D.A. Lazarev | Double Auger decay of a 3d vacancy in Krypton | paper | Russ Phys J Optics and Spectroscopy, 41 , 1001, 1998 | |
| 324. | 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), 8-9 , p. 107, 1998 | |
| 325. | V. K. Ivanov, L. P. Krukovskaya, G. Yu. Kashenock | The evidence of giant "3p ⁵ 3d ⁶ 4s ² " resonance in Cr ⁻ photodetachment | Статья | J. Phys. B: At. Mol. Opt. Phys. 31 , 2, p.239-247, 1998. | 9 |
| 326. | A. N. Ipatov, V. K. Ivanov, B. D. Agap'ev, W. Ekardt | "Exchange and polarization effects in elastic electron scattering by metallic clusters" | Статья | J. Phys. B: At. Mol. Opt. Phys., 31 , 4, p.925-934, 1998. | 10 |
| 327. | 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" | Статья | J. Phys. B: At. Mol. Opt. Phys., 31 , 11, L511-L517, 1998. | 7 |
| 328. | G. Yu. Kashenock, V. K. Ivanov | "The 2s ¹ 2p ⁴ autodetachment resonance in the C ⁻ negative ion" | Статья | Physics Letters A, 245 , p. 110-116, 1998. | 7 |
| 329. | 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" | Статья | J. Phys. B: At. Mol. Opt. Phys. 31 , 14, L589-L597, 1998. | 9 |

| | | | | | |
|------|--|--|--------------------|--|----|
| 330. | A. N. Ipatov, V. K. Ivanov, B. D. Agap'ev. | "Many-Particle Effects in Atomic Clusters" | Обзорная статья | In the book "Physics of clusters". Eds. Lakhno V.D. and Chuev G.N. Wold Scientific Publishing. Singapore p.224- 272, 1998. | 49 |
| 331. | V. K. Ivanov, G. Yu. Kashenock, | Collective effects in resonant negative ion photodetachment | Доклад | 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. 3687 , p.90-101, 1998 | 12 |
| 332. | 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., 31 , 999-1001, 1998 | 3 |
| 333. | J.-P. Connerade, V. K. Dolmatov | Controlling orbital collapse from inside and outside a transition element | paper | J.Phys.B: At. Mol. Opt. Phys., 31 , p. 3557-3564, 1998 | 8 |
| 334. | V. K. Dolmatov S. T. Manson | Photoionization experiments yielding "complete" information | paper | Phys. Rev. A 58 , R2635-2637, 1998 | 4 |
| 335. | S. K. Semenov, N. A. Cherepkov. | Generalization of the atomic RPA method for diatomic molecules: H ₂ photoionization cross section calculation | paper | Chem. Phys. Lett. 291 , 375-380, 1998 | 6 |
| 336. | V.A. Kilin D.A. Lazarev | Double Auger decay of the 3d-vacancy in Kr | paper | Izvestiya Vysshikh Uchebnykh Zavedenij, Fizika, 41 (10), 54-63 1998 | 10 |
| 337. | V. K. Ivanov | Many-body effects in negative ion photodetachment | Обзор | J. Phys. B: At. Mol. Opt. Phys., 32 , 12, R67-R101, 1999 | 35 |

| | | | | | |
|------|---|---|--------|---|----|
| 338. | 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., 32 , p. 5463-5478, 1999 | 16 |
| 339. | M. Ya. Amusia, A. S. Baltenkov, Z. Felfli, A. Z. Msezane | Large Non-Dipole Correlation Effects near Atomic Photoionization Thresholds | paper | Phys. Rev. A, 59 , 4 4, p. R1-4, 1999 | 4 |
| 340. | M. Ya. Amusia, Z. Chen and A. Z. Msezane | Generalized Oscillator strength for the Argon $3p^6-3p^54s$ transition: Correlation and Exchange Effects on Characteristic minimum | paper | Phys. Rev. A, 60 , 6, p. 5115-5117, 1999 | 3 |
| 341. | G. H. Fecher, J. Braun, N. A. Cherepkov, L. V. Chernysheva, Th. Jentzsch 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, 11 , 1, p. 161-175, 1999 | 15 |
| 342. | 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, 119 , 2-3, p. 232- 255, 1999 | 24 |
| 343. | M. Ya. Amusia and L. V. Chernysheva, | Many-electron Effects in Atomic Processes | paper | Zh. Tech. Fiz., 69 , p. 31-35, 1999 | 5 |
| 344. | 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</i> , Russian Academy of Sciences, p. 218-230, 1999 | 13 |
| 345. | 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., 32 , 24, p. 5739- 5750, 1999 | 12 |

| | | | | | |
|------|--|---|-------|---|----|
| 346. | 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 59 , 5, p. 3609-13, 1999 | 5 |
| 347. | 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., 32 , L239-45, 1999. | 7 |
| 348. | V. K. Dolmatov S. T. Manson | Enhanced nondipole effects in low-energy photoionization | paper | Phys. Rev. Lett., 83 , 5, p. 939-942, 1999 | 4 |
| 349. | J.-P. Connerade, V. K. Dolmatov S. T. Manson | A unique situation for an endohedral metallofullerene | paper | J. Phys. B: At. Mol. Opt. Phys., 32 , 14, L395-403, 1999. | |
| 350. | N.B. Avdonina | Energy losses for Bremsstrahlung from Atomic Ions | paper | Physica Scripta T80, 276-277, 1999 | 2 |
| 351. | Z. Chen and A. Z. Msezane | Generalized oscillator strength for the Na 3s-3p transition | paper | Phys. Rev. A, 61 , 030703 (R), 2000 | 4 |
| 352. | M. Ya. Amusia, N. A. Cherepkov, L. V. Chernysheva S. T. Manson | Multielectron Effects in Xe ⁺⁺ formation resulting from the Photoionization of Xe ⁺ Ions | paper | J. of Phys. B: At. Mol. Opt. Phys., 33 , 1, L37-42, 2000 | 6 |
| 353. | M. Ya. Amusia, N. A. Cherepkov, L. V. Chernysheva S. T. Manson | Photoionization of the Iodine Atom and its Ions | paper | Phys. Rev. A 61 , 2, R020701, 2000 | |
| 354. | 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 62 , 1, 012701, 2000 | |
| 355. | M. Ya. Amusia, L. V. Chernysheva, V. K. Ivanov | On the Photoabsorbtion of Atomic Eu, Eu ⁺ and Eu ⁺⁺ in the vicinity of 4d Threshold | paper | Radiation Physics and Chemistry, 59 , 2, 137-144, 2000 | 8 |
| 356. | M. Ya. Amusia, V. A. Kilin, D. A. Lazarev, Dm. A. Lazarev, K.-H. Schartner, A. Ehresmann, H. Schmoranzer | State selective Single-photon Double-ionization of Ne indicating Singlet-triplet mixing of Doubly exited States | paper | J. Phys. B: At. Mol. Opt. Phys., 33 , 22, p. 4989-5005, 2000 | 17 |
| 357. | M. Ya. Amusia | Electron correlations in the High Frequency Photo-Atomic Processes | paper | Physics Essays, 13 , 2-3, p. 444-452, 2000 | 9 |

| | | | | | |
|------|---|---|-------|---|----|
| 358. | 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 |
| 359. | 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., 33 , 4, p.821-828, 2000. | 8 |
| 360. | V. K. Ivanov, G. Yu. Kashenock, K. V. Lapkin | "Resonance Photodetachment of Sn ⁻ 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 |
| 361. | 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 |
| 362. | J.-P. Connerade, V. K. Dolmatov, Lakshmi P A | The filling of shells in compressed atoms | paper | J. Phys. B: At.Mol.Opt.Phys., 33 , 2, p. 251-264, 2000. | 14 |

| | | | | | |
|------|--|---|-------|---|----|
| 363. | 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., 33 , 7, L275-L282, 2000 | 8 |
| 364. | 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., 33 , p. 2279-2285, 2000. | 7 |
| 365. | 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 ₂ | paper | Phys. Rev. Lett., 84 , 250-253, 2000 | 4 |
| 366. | S. K. Semenov, N. A. Cherepkov, G. Fecher, G. Schönhense | Generalization of the atomic random phase approximation for diatomic molecules: N ₂ photoionization crosssection calculations | paper | Phys. Rev., A 61 , 032704, 2000 | |
| 367. | 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: 33 (2000) 3653-3664 | 12 |
| 368. | 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. 33 , 5397–5402, 2000 | 6 |
| 369. | 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. 4348 , p. 92-97 (2001) | 6 |
| 370. | V. K. Ivanov, G. Yu. Kashenock, R. G. Polozkov | “LDA spherical jellium model for a fullerene C ₆₀ molecule as a basis for the many-body theory of photoionization and electron scattering” | paper | Там же. Proceedings of SPIE. V. 4348 , p. 98-102 (2001) | 5 |

| | | | | | |
|------|---|---|-------|--|----|
| 371. | 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.4348, p. 112-118 (2001) | 7 |
| 372. | 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^+ and Xe^{2+} ions” | paper | J.Phys.B: At. Mol. Opt. Phys. 2001. V.34, n.10, p. 2009-2019 | 10 |
| 373. | V. K. Ivanov, G. Yu. Kashenock, R. G. Polozkov, A. V. Solov'yov. | “Photoionization cross sections of the fullerenes C_{20} and C_{60} calculated in a simple spherical model” | paper | J.Phys.B: At.Mol.Opt. Phys. 2001. V.34, n.21, p. 669-677 | 8 |
| 374. | 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. A63 p.022704, 2001 | |
| 375. | V. K. Dolmatov, A.S. Baltenkov , S.T. Manson | Strong correlation effects in photoelectron angular distributions far above thresholds | paper | Phys. Rev. A 64 p.042718, 2001 | |
| 376. | 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 |
| 377. | 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 |
| 378. | V. K .Ivanov, M. A. Koulov | “Photoionization cross section of $4s^24p^6$ shells in the vicinities of the $4s4p^6np$ autoionizing resonances in Kr isoelectronic sequence” | paper | Там же. Proceedings of SPIE. V.4627, P.93-98 (2002) | 6 |

| | | | | | |
|------|--|---|-------|--|----|
| 379. | B. K. Иванов | “Развитие представлений об атомном фотоэффекте” | paper | Научно-технические ведомости СПбГТУ. 2001. Т.4 (26). С.61-70 | 10 |
| 380. | B. K. Иванов, Г. Ю. Кашенок, К. В. Лапкин. | “Резонансы коллективной природы в процессах фотоотрыва от отрицательных ионов с полузаполненной наружной оболочкой” | paper | Научно-технические ведомости СПбГТУ. 2001. Т.4 (26). С.103-111 | 9 |
| 381. | 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, 63 , 052506, 2001 | |
| 382. | 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, 63 , 052512, 2001 | |
| 383. | 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, 64 , 032711, 2001 | |
| 384. | 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, 247 , p. 133-136, 2001 | 4 |
| 385. | M. Ya. Amusia | Many-Electron Correlations in Photon and Electron Interaction with Atomic Particles | paper | in: 20 th 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 |

| | | | | | |
|------|--|--|-------|---|---|
| 386. | 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., 48 , 419-426, 2001 | 8 |
| 387. | 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_60 fullerene cage | paper | J. Phys B 34 , 2505-2511, 2001 | 7 |
| 388. | N.A.Cherepkov, S.K.Semenov. | Non-dipole effects in spin polarization of photoelectrons from Xe 4p and 5p shells | paper | J. Phys. B 34 , L211-217, 2001 | 7 |
| 389. | N.A.Cherepkov, S.K.Semenov | On quadrupole resonance in atomic photoionization | paper | J. Phys. B 34 , L495-L502, 2001 | 7 |
| 390. | M. Ya. Amusia, L. V. Chernysheva, V. K. Ivanov, S. T. Manson | Photoionization of 4d electrons in I^+ and I^{++} | paper | Phys. Rev. A, 65 , 3, 032714/1-4, 2002 | 4 |
| 391. | 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. Lett., 88 , 9, 093002/1-4, 2002 | 4 |
| 392. | 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 65 (5), 54701-1-4, Part B, 2002 | 4 |
| 393. | 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, 9 (2), 1155-60, 2002 | 6 |
| 394. | M. Ya. Amusia, L. V. Chernysheva, V. G. Yarzhemsky, V. I. Nefedov | The Shapes of Photoelectron Satellite Spectra | paper | Surface Review and Letters, 9 (2), 1209-12, 2002 | 4 |
| 395. | 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 |

| | | | | | |
|------|--|--|-------|---|----|
| 396. | Zhifan Chen and Alfred Z. Msezane | Correlation effects in the generalized oscillator strength of the magnesium 3^1S-3^1P transition | paper | J. Phys. B: At. Mol. Opt. Phys. 35 , 815–819, 2002 | 5 |
| 397. | 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 65 (6), 62705-1-8, 2002 | 8 |
| 398. | M. Ya. Amusia, L. V. Chernysheva V. G. Yarzhemsky | Lineshape of Ne 1s photoionization satellite $[1s2s](^3S)3s$ and its valence Auger decay Spectrum | paper | Journal of Electron Spectroscopy and Related Phenomena, 127 (3), 153-9, 2002 | 7 |
| 399. | И. А. Шелых, Н. Т. Баграев, В. К. Иванов, Л. Е. Клячкин | Спонтанная спиновая поляризация электронов в квантовых проволоках | paper | Физика и техника полупроводников (ФТП) 2002. Т.36, в.1. С.70-78. | 9 |
| 400. | Н. Т. Баграев, А. Д. Буравлев, Л. Е. Клячкин, А. М. Маляренко, В. Гельхоф, В. К. Иванов, И. А. Шелых | “Квантованная проводимость в кремниевых квантовых проволоках” | paper | Физика и техника полупроводников (ФТП) 2002. Т.36, в.4. С.462-483. | 22 |
| 401. | 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 |
| 402. | 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 |
| 403. | 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 | |
| 404. | A. S. Kheifets and I. Bray | Frozen core model of the double photoionization of beryllium | paper | Phys. Rev. A, 65 (1):2710, 2002 | |
| 405. | I. Bray, D. V. Fursa, A. S. Kheifets and A. T. Stelbovics | Theory of electrons and photons colliding with atoms | paper | J. Phys. B 35 (16):R117-146, 2002 | 30 |

| | | | | | |
|------|--|---|-------|--|---|
| 406. | A. Lyalin, A. Solov'yov, W. Greiner and S. Semenov | Hartree-Fock approach for metal-cluster fission | paper | Phys. Rev. A 65 , 023201, 2002 | 5 |
| 407. | 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 ₂ Molecule | paper | Phys. Rev. Lett. 88 , 063003, 2002 | 4 |
| 408. | 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 ₂ Molecules | paper | Phys. Rev. Lett. 88 , 073002, 2002 | 4 |
| 409. | S. Motoki, .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 ₂ molecule | paper | J. Phys. B 35 , 3801-3819, 2002 | |
| 410. | S. K .Semenov, N. A. Cherepkov | Generalization of atomic RPA method for diatomic molecules. II. N ₂ K-shell photoionization | paper | Phys. Rev. A 66 , 022708, 2002 | |

| | | | | | |
|------|--|--|-------|--|---|
| 411. | 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 35 , 3191, 2002 | |
| 412. | 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 35 , 1199-1210, 2002 | |
| 413. | B. K. Иванов, К. В. Лапкин, М. А. Кулов. | “Фотоотрыв электронов из 1s-оболочки отрицательного иона лития” | paper | Письма в ЖТФ. 8 2003. Т. 29 , в.15, с.9-16. | |
| 414. | B. K. Иванов, Г. Ю. Кащенок, Р. Г. Полозков, А. В. Соловьев | Метод расчета сечений фотоионизации фуллеренов на основе приближения локальной плотности и случайных фаз. | paper | ЖЭТФ. 2003. Т.123, в.4, с.744–756. | |
| 415. | V. K. Ivanov | “The Department of Experimental Physics. 100 th 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 |
| 416. | V. K. Ivanov and M. A. Koulov. | “Double-electron excitation effects in the 4s4p ⁶ np autoionizing resonances in Kr and its isoelectronic ions sequence” | paper | Там же. 2003. V. 5127 , P.31-36. | 6 |
| 417. | K. V. Lapkin, V. K. Ivanov, M. A. Koulov | “Inner-shell photodetachment of lithium negative ion with excitation”. | paper | Там же. 2003. V. 5127 , P.37-40. | 4 |

| | | | | | |
|------|--|--|-------|--|----|
| 418. | V. V. Semenikhina, V. K. Ivanov, A. N. Ipatov, C. V. Lapkin | “Elastic electron scattering on negative lithium ion”. | paper | Там же. 2003. V. 5127 , P. 41-43 | 3 |
| 419. | 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 |
| 420. | 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 |
| 421. | 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 67 , 22719-1-6, 2003 | 6 |
| 422. | M. Ya. Amusia, N. A. Cherepkov, L. V. Chernysheva | Elastic scattering of Slow Positrons on Atoms | paper | JETP, 124 , 1(7), pp. 1-9, 2003 | 9 |
| 423. | 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. XXXII , pp. 3-8, 2003 | 6 |
| 424. | 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, 67 (6), 60702-1-4, 2003 | 4 |
| 425. | E. Kanter, R. Krassig, S. H. Southworth, M. Ya. Amusia, L. V. Chernysheva | <i>E</i> 1 - <i>E</i> 2 Interference in the VUV photoionization of <i>He</i> | paper | Phys. Rev. A, 68 (1), 12714-1-10, 2003 | 10 |
| 426. | 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., 91 (5), 053002/1-4, 2003 | 4 |

| | | | | | |
|------|---|--|-------|---|----|
| 427. | V. Radojevich, D. Davidovich, M. Ya. Amusia | Near-Threshold Photoionization of the Ba 3d Spin-orbit Doublet - some new theoretical results | paper | Balcan Physics Conference Proceedings, pp. 161 - 166, 2003 | 6 |
| 428. | 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 67, 062714 (1-6), 2003 | 6 |
| 429. | A. S. Kheifets and I. Bray | Double shake-off model for triple photoionization of beryllium | paper | J. Phys. B 36(13): L211-L217, 2003 | 7 |
| 430. | S.K.Semenov, N.A.Cherepkov | Photoionization of the H ₂ molecule in the random phase approximation | paper | J. Phys. B 36 (2003) 1409-1422 | 14 |
| 431. | 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 |
| 432. | H. Yamaoka, M. Oura, Takahiro K, Mokikawa T, Ito S, Mizumaki M, S.Semenov, N. Cherepkov. N. Kabachnik, T. Mukoyama | Alignment following Au L ₃ photoionization by synchrotron radiation | paper | J. Phys. B 36 (2003) 3889-3897 | 9 |
| 433. | 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 | |
| 434. | M. Ya. Amusia, | Random phase approximation: from Giant to Intra-doublet resonances | paper | Radiation Physics and Chemistry, 70 , 237- 251, 2004 | 15 |
| 435. | V. F. Gopka, A V. Yushchenko, A. V. Shavrina, D. E. Mkrtchian, 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 |

| | | | | | |
|------|--|--|-------|--|----|
| 436. | 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 |
| 437. | 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 |
| 438. | 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 |
| 439. | V. K. Ivanov | “Theoretical studies of photodetachment” | paper | Radiation Physics and Chemistry, 2004. V. 70 (1-3), pp. 345-370 | 25 |
| 440. | 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 |
| 441. | 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 |
| 442. | 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 |
| 443. | V. V. Semenikhina, V. K. Ivanov, C. V. Lapkin. | “Differential cross section of elastic electron scattering by negative lithium ion” | paper | Там же. Р. 46-49 | 4 |
| 444. | M. A. Kulov, N. O. Vasetskaya, V. K. Ivanov | “Autoionizing $3s \rightarrow np$ resonances in neutral potassium and calcium”. | paper | Там же. Р. 50-53 | 4 |

| | | | | | |
|------|---|---|-------|--|----|
| 445. | N. T. Bagraev, I. A. Shelykh, V.K.Ivanov and 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 |
| 446. | V. K. Ivanov, G. Yu. Kashenock, R. G. Polozkov and 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 |
| 447. | V. K. Dolmatov, A. S. Baltenkov, J. P. Connerade, and S.T. Manson | Structure and photoionization of confined atoms | paper | Radiation Physics and Chemistry 2004 70 417-433, 2004. | |
| 448. | G. Gribakin and J. Ludlow | Many-body theory of positron-atom interactions | paper | Phys. Rev. A 70 ,032720 (2004) | |
| 449. | 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 T110 , 62, 2004 | |
| 450. | 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, 70 , 062715, 2004 | |
| 451. | 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 37 , 4803-4815, 2004 | 13 |
| 452. | N. A. Cherepkov, S. K. Semenov | On a complete experiment on photoionization of atoms | paper | J. Phys. B 37 1267-1272, 2004 | 6 |

| | | | | | |
|------|---|--|-------|--|----|
| 453. | 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 37 (2004) 1331-1342 | 12 |
| 454. | 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. 93 , 083002, 2004 | |
| 455. | 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., 137-140 , 243-248, 2004 | 6 |
| 456. | 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 70 , 052504, 2004 | |
| 457. | Б. В. Семенихина, Б. К. Иванов, К. В. Лапкин. | “Упругое рассеяние электрона на отрицательном ионе лития” | paper | ЖТФ. 2005. Т.75, в.3, с.24-29. | 6 |
| 458. | 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 |
| 459. | М. А. Кулов, Н. О. Васецкая, В. К. Иванов | “Автоионизационные резонансы в сечении фотоионизации внешних р-электронов атомов щелочных металлов” | paper | Письма в ЖТФ. 2005. Т. 31, в.9, с.83-88. | 6 |

| | | | | | |
|------|--|--|-------|---|---|
| 460. | 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. 5831 . (SPIE, Bellingham, 2005). P.22-25 | 4 |
| 461. | V. V. Semenikhina, V. K. Ivanov, R. G. Polozkov | “Elastic electron scattering by negative metallic cluster ion: Na_7^- ” | paper | Там же. Р. 26-29 | 4 |
| 462. | R. G. Polozkov, V. K. Ivanov, A. V. Solov'yov. | “Photoionization of fullerene ion C_{60}^+ ” | paper | J.Phys.B:At. Mol. Opt. Phys. 2005. 38 , n., 4341-4348 | 8 |
| 463. | 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, 38 , 1133-1141, 2005 | 9 |
| 464. | M. Ya. Amusia, A. S. Baltenkov, L. V. Chernysheva, Z. Felfli, A. Z. Msezane | Dramatic distortion of 4d Giant resonance by the Fullerenes C_{60} shell | paper | J. Phys. B: At. Mol. Opt. Phys, 38 , L169-73, 2005 | 5 |
| 465. | 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 71, (6) 062711, 2005 | 6 |
| 466. | 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 | Поверхность. Рентгеновские, синхротронные и нейтронные исследования, 6 , 3-8, 2005 | 6 |
| 467. | 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 72 , 032727(7), 2005 | 7 |

| | | | | | |
|------|--|--|-------|---|---|
| 468. | V. K. Dolmatov, D. Bailey, S. T. Manson | Gigantic enhancement of atomic nondipole effects: The $3s \rightarrow 3d$ resonance in Ca | paper | Phys. Rev. A72, 022718 (1-5), 2005. | 5 |
| 469. | 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 144-147 , 211-214, 2005 | 5 |
| 470. | 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 71 , 062711, 2005 | |
| 471. | Zhifan Chen and Alfred Z. Msezane | Random-phase approximation with exchange for the inner- shell electron transitions | paper | Phys. Rev. A 72 , 050702(R), 2005 | 4 |
| 472. | 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 | |
| 473. | 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., 129 , 1, 63-70; JETP, 102 , 1, 53-60, 2006 | 8 |
| 474. | 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. 39 765- 771, 2006 | 7 |
| 475. | M. Ya. Amusia and A. S. Baltenkov | Effect of plasma oscillations of C ₆₀ collectivized electrons on photoionization of endohedral noble-gas atoms | paper | Phys. Rev. A 73 , 062723, 2006. July 11, 2006 issue of Virtual Journal of Nanoscale Science & Technology | |

| | | | | | |
|------|--|--|-------|---|----|
| 476. | 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, 73 , 062716, 2006 | |
| 477. | M. Ya. Amusia and L. V. Chernysheva | Non-dipole angular anisotropy parameters of photoelectrons from semi-filled shell atoms | paper | J. Phys. B: At. Mol. Opt. Phys., 39 , 4627- 4636, 2006 | 10 |
| 478. | G.Yu.Kashenock, V.K.Ivanov | “Inner-shell photodetachment of C ⁻ : the dramatic role of dynamical relaxation in collective response” | paper | J. Phys. B: At. Mol. Opt. Phys. 39 , n., 1379-1393, 2006 | 15 |
| 479. | 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., 8, 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 75 , 12, 2124–2128, 2006 | 5 |
| 480. | A. V. Solov'yov, V. K. Ivanov and R. G. Polozkov. | “Electron - positron quantum droplets”. | paper | Eur. Phys. J. D 40 , 313-316 (Section 'Rapid Notes'), 2006 | 4 |
| 481. | B. K. Иванов, H. O. Васецкая, B. A. Харченко. | “Радиационные распады дважды возбужденных состояний ионов кислорода и углерода”. | paper | Научно-технические ведомости СПбГТУ. T. 5-1 (47). C.31-39, 2006. | 9 |
| 482. | V. K. Dolmatov and S. T. Manson | Photoionization of atoms encapsulated in endohedral ions A@C ₆₀ | paper | Phys. Rev. A73, 013201 (1-5), 2006. | 5 |

| | | | | | |
|------|---|--|-------|---|----|
| 483. | 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 74, 032705 (1-7), 2006. | 7 |
| 484. | L. J. M. Dunlop and G. F. Gribakin | Many-body theory of gamma spectra from positron-atom annihilation | paper | J. Phys. B 39, 1647–1668, 2006 | 22 |
| 485. | A. Aguilar, J. D. Gillaspy, 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 ⁴⁺ , Xe ⁵⁺ and Xe ⁶⁺ near 13.5 nm: Experiment and theory | paper | Phys. Rev. A 73, 032717, 2006 | |
| 486. | 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 247, 61–67, 2006 | 7 |
| 487. | A. Aguilar, J. D. Gillaspy, 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 Xe4+, Xe5+ and Xe6+ near 13.5 nm: Experiment and theory | paper | Phys. Rev. A 73, 032717, 2006 | |
| 488. | 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 39, 1899, 2006 | |
| 489. | 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 ₂ molecule | paper | J. Phys. B: At. Mol. Opt. Phys. 39 (2006) 375-386 | 12 |

| | | | | | |
|------|--|---|-------|---|----|
| 490. | 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 ₂ molecule | paper | J. Phys. B: At. Mol. Opt. Phys. 39 , L25- L34, 2006 | 10 |
| 491. | K. Hosaka, J. Adachi, A. V. Golovin, M. Takahashi, T. Teramoto, N. Watanabe, T. Jahnke, Th. Weber, M. Schöffler, 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 73 , 022716, 2006 | |
| 492. | 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 ₂ molecule | paper | J. Phys. B: At. Mol. Opt. Phys. 39 , L261- L267, 2006 | 7 |
| 493. | 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. 39 , 4355- 4363, 2006 | 9 |
| 494. | 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 |

| | | | | | |
|------|--|--|-------|--|----|
| 495. | 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 ₂ : revisiting Cohen-Fano's two- centre interference phenomenon | paper | J. Phys. B: At. Mol. Opt. Phys. 39 , 4801- 4817, 2006 | 17 |
| 496. | H. O. Васецкая, B. К. Иванов. | “Радиационные распады дважды возбужденных состояний тяжелых ионов солнечного ветра”. | paper | Сборник: Автоматизация, информатизация, инновация в транспортных системах: сборник научно-технических статьей. Ред. Р.Э.Францева. СПб: СИГУВК, 2007. №4, с.73-82 | 10 |
| 497. | A. К. Беляев, A. И. Торопкин, A. С. Тюканов, B. К. Иванов, P. Г. Полозков, A. В. Соловьев, B. Грайнер | “Расчеты электронных структур и сечений фотоионизации фуллерена C ₆₀ и его ионов”. | paper | Физический вестник. Сборник научных статей. Выпуск 1. РГПУ им. А.И.Герцена. Санкт- Петербург, 2007. Стр. 3-9 | 7 |
| 498. | S Sheinerman, P Lablanquie and 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 |
| 499. | B. К. Иванов, P. Г. Полозков, A. В. Соловьев | “К возможности существования электрон- позитронного кластера”. | paper | Научно-технические ведомости СПбГТУ. 2007. Т.1 (49). C.233-238 | 6 |
| 500. | A.K. Belyaev, V.. K. Ivanov, R. G. Polozkov, A. S. Tiukanov, A. V. Solov'yov, W. Greiner. | “Photoabsorption of the Fullerene Ions C ₆₀ ⁺ and C ₆₀ ⁺⁺ ”. | paper | International Journal of Quantum Chemistry. Vol. 107, 2781-2786 (2007). | 6 |
| 501. | M. Ya. Amusia, A. S. Baltenkov and L. V. Chernysheva | Photoionization of Xe 3d electrons in molecule Xe@C ₆₀ : interplay of intra- doublet and confinement resonances | paper | Phys. Rev. A75 , 043201, 2007 | |

| | | | | | |
|------|---|--|-------|--|----|
| 502. | M. Ya. Amusia | Fast Electron scattering as a tool to study target's structure | paper | Journal of Electron Spectroscopy and Related Phenomena, 159 , 81–90, 2007 | 10 |
| 503. | M. Ya. Amusia | Photoionization and vacancy decay of endohedral atoms | paper | Journal of Electron Spectroscopy and Related Phenomena, 161 , 112-120, 2007 | 9 |
| 504. | 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. A75 , 062703, 2007 | |
| 505. | V. K. Dolmatov and S. T. Manson | Spin-polarized photoelectrons from half-filled shell atoms | paper | Phys. Rev. A 75, 022701(4), 2007 | 4 |
| 506. | V. K. Dolmatov, E. Guler, S. T. Manson | “Reading” the photoelectron β -parameter spectrum in a resonance region | paper | Phys. Rev. A Vol.76, 032704(1-5), 2007. | 5 |
| 507. | A. S. Kheifets and Igor Bray | Valence shell double photoionization of alkaline-earth atoms | paper | Phys. Rev. A 75, 042703, 2007 | |
| 508. | A. Kheifets | Sequential two-photon double ionization of noble gas atoms | paper | J. Phys. B 40, F313, 2007 | |
| 509. | 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 75 , 032707, 2007 | |
| 510. | T. Jahnke, A. Czasch, M. Schöffler, S. Schössler, M. Kuasz, 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. 40 2597-2606, 2007 | 10 |

| | | | | | |
|------|--|---|--------|---|----|
| 511. | N. A. Cherepkov, V. V. Kuznetsov, S. K. Semenov | Resonance behavior of atomic and molecular photoionization amplitudes | paper | Phys. Rev. A 76 , 012715(1-11), 2007 | 11 |
| 512. | N. A. Cherepkov and S. K. Semenov | New developments in the theory of molecular K-shell photoionization | paper | Int. J. Quantum Chem. 107 , 2889- 2901, 2007 | 13 |
| 513. | 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, 6 , 1, 14-25, 2008 | 10 |
| 514. | M. Ya. Amusia, A. S. Baltenkov and L. V. Chernysheva | Giant Resonances of Endohedral atoms | Paper | JETP Letters, 87 , 4, 230-233, 2008 | 4 |
| 515. | 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. Fyz.), 134 , 2(8), 221- 230, 2008 | 10 |
| 516. | 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. 41 (2008) 045002 | 14 |
| 517. | 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. 41 165201, 2008 | |
| 518. | 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 77 , 042703, 2008 | 7 |
| 519. | H. O. Васецкая, B. K. Иванов. | “Радиационные распады дважды возбужденных состояний ионов кислорода, углерода и азота”. | Статья | Оптика и спектроскопия. 2008. Т. 105, № 5, с. 726-731 | 6 |
| 520. | H. O. Васецкая, B. K. Иванов. | “Оже-распады дважды возбужденных состояний ионов кислорода, углерода и азота”. | Статья | Научно-технические ведомости СПбГТУ. 2008. Т. 2 (54). С. 223 - 230 | 8 |

| | | | | | |
|------|--|---|--------------|---|----|
| 521. | А. К. Беляев, А. И. Торопкин, А. С. Тюканов, В. К. Иванов, Р. Г. Полозков, А. В. Соловьев | “Ионизации фуллерена C ₆₀ и его ионов при фотопоглощении фотонов” | Статья | Физический вестник. Сборник научных статей. Выпуск 2. РГПУ им. А.И.Герцена. Санкт-Петербург, 2008. Стр. 3-10 | 8 |
| 522. | 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 Collosions. 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 |
| 523. | А. В. Верховцев, В. К. Иванов, В. С. Комаров, Р. Г. Полозков, А. В. Соловьев. | О стабильности квантовых кластерных систем. | Статья | Научно-технические ведомости СПбГПУ, физико-математические науки. 2008, т. 6(67), с.33-42. | 10 |
| 524. | В. К. Иванов, И. Н. Топтыгин. | “К вопросу о физической интерпретации электромагнитных полей и явлений” | Статья | Научно-технические ведомости СПбГПУ. 2008, т. 3(59), с.301-303. | 3 |
| 525. | В. К. Иванов, И. Н. Топтыгин. | “О физической интерпретации...Postscriptum”. | Статья | Научно-технические ведомости СПбГПУ. 2008, т. 3(59), с.306-307 | 2 |
| 526. | V. K. Dolmatov and S. T. Manson | Correlation confinement resonances in endohedral atoms: Xe@C ₆₀ | 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 |
| 527. | 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 |

| | | | | | |
|------|--|---|-------|---|---|
| 528. | 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 | |
| 529. | 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 | |
| 530. | 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 |
| 531. | 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 |
| 532. | Z. Chen and A. Msezane | Random Phase Approximation with Exchange for the Photoionization of Confined Atoms: Xe in C ₆₀ Fullerene | paper | E-Print Archive, Physics: 1-16, arXiv:0811.2185v1[physics.atom-ph], 2008 | |
| 533. | В.К.Иванов, П.И.Яцышин. | “Резонансы в сечении фотоотрыва 2р-электронов от отрицательного иона Na ⁻ ”. | paper | ЖТФ. 2009. т 79. в 1. стр. 10-15 | 6 |
| 534. | Н.О.Васецкая, В.К.Иванов. | “Оже-распады дважды возбужденных состояний ионов кислорода, углерода и азота”. | paper | Письма в ЖТФ. 2009. Т. 35, в. 4, с. 38-46 | 9 |

| | | | | | |
|------|--|---|-------|--|----|
| 535. | П. И. Яцышин, В. К. Иванов, Р. Г. Полозков, А. В. Соловьев. | “Структура электрон-позитронных кластеров. Приближение Хартри-Фока”. | paper | Научно-технические ведомости СПбГПУ, физико-математические науки. 2009, т. 1(73), с.9 – 17 | 9 |
| 536. | 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., 79 , 6, 063203-1-7, 2009 | 7 |
| 537. | В. К. Иванов, М. А. Кулов. | “Многоэлектронные эффекты в автоионизационных состояниях изоэлектронной последовательности криптона”. | paper | Научно-технические ведомости СПбГПУ, физико-математические науки. 2009, 2 (77), с.71 – 83 | 13 |
| 538. | 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 |
| 539. | A. K. Belyaev, A. S. Tiukanov, A. I. Toropkin, V. K. Ivanov, R. G. Polozkov, A.V.Solov'yov. | “Photoabsorption of the fullerene C ₆₀ and its positive ions”. | paper | Physica Scripta 80 , 048121, 2009. | 5 |
| 540. | 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 |
| 541. | В. К. Иванов | “Исследования многоэлектронных эффектов в атомных системах на кафедре экспериментальной физики”. | paper | Труды СПбГПУ № 511. 2009. Научные направления на физико-механическом факультете СПбГПУ (к 90-летию ФМФ). СПб, изд. Политехнического унив-тета. С. 80–108 | 29 |
| 542. | M. Ya. Amusia, A. S. Baltenkov and L. V. Chernysheva | Distortion and preservation of Giant resonances in Endohedral Atoms A@C ₆₀ | paper | Pis'ma v ZhETF, 89 , iss.6, 322-326, JETP Let., 89 , iss.6, 275–279, 2009 | 5 |

| | | | | | |
|------|---|--|---------------|--|----|
| 543. | 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 |
| 544. | M. Ya. Amusia, L. V. Chernysheva E. Z. Liverts | Photoionization of two-shell endohedral atoms | paper | Phys. Rev. A, 80 , 032503-1-12, 2009 | 12 |
| 545. | M. Ya. Amusia, L. V. Chernysheva, E. Z. Liverts | Photoionization of Onion-type atoms | paper | Pis'ma v ZhETF, 90 , iss.5, 393-397, JETP Let., iss.5, 350-354, 2009 | 5 |
| 546. | 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 |
| 547. | Zhifan Chen and Alfred Z Msezane | Photoionization of the I+ ion | paper | J. Phys. B: At. Mol. Opt. Phys. 42 , 165203, 2009 | 4 |
| 548. | V. K. Dolmatov, G. Craven, E. Guler, D. Keating | Far above threshold confinement resonances in A@C ₆₀ ^z atoms | paper | J. Phys.: Conf. Series, 194 , 022025, 2009 | 1 |
| 549. | V. K. Dolmatov, G. Craven, E. Guler, D. Keating | Revivification of confinement resonances in the photoionization of A@C ₆₀ endohedral atoms far above thresholds | paper | Phys. Rev. A, 80 , 035401, 2009. Also selected for inclusion in Virtual Journal J. of Nanoscience & Technology | 3 |
| 550. | Zhifan Chen and Alfred Z. Msezane | Photoionization of the Ce ³⁺ @C ₆₀ | Talk | J. Phys.: Conference Series 194 , 022085, 2009 | 1 |
| 551. | M. Ya. Amusia | Simple and Onion-type Fullerenes shells as resonators and amplifiers, Fullerene, Nanotubes, and Carbon | paper | Nanostructures, 18 , part 1, 4-6, 353 – 368, 2010 | 6 |
| 552. | 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 79, 012709, 2009 | |

| | | | | | |
|------|--|--|-------|---|---|
| 553. | 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 | |
| 554. | A. Kheifets | Photoelectron angular correlation pattern in sequential two-photon double ionization of neon | Paper | J. Phys. B 42 , 134016, 2009 | |
| 555. | A. S. Kheifets, I. Bray J. Hoszowska | K-shell double photoionization of Be, Mg and Ca | Paper | Phys. Rev. A 79 , 042504, 2009 | |
| 556. | 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 42 , 165204, IOP Select Europhysics News, 2009 | |
| 557. | Zhifan Chen and Alfred Z. Msezane | Photoionization of Ce ³⁺ and Ce ^{3+">@C₆₀} | Paper | J. Phys. B: At. Mol. Opt. Phys. 42 , 165206, 2009 | 6 |
| 558. | A. S. Kheifets, D. V. Fursa, Igor Bray | Two-electron photoionization of ground-state lithium | Paper | Phys. Rev. A 80 , 063413, 2009 | |
| 559. | 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 ₂ molecules | Paper | Phys. Rev. A 80 , 051404(R), 2009 | |
| 560. | Zhifan Chen and A. Z. Msezane | Photoionization of Xe atom confined in C ₆₀ fullerene | Talk | Journal of Physics: Conference Series 194 022047, 2009 | 1 |
| 561. | P. Bolognesi, L. Avaldi, M. Ya. Amusia, V. G. Yarzhemsky | A study of the Ne 2s2p ⁵ (³ P)3s and 3p correlation satellites up to 75 eV above threshold | Paper | J. Phys. B: At. Mol. Opt. Phys. 43 , 185304, 2010 | |

| | | | | | |
|------|--|---|---------------|---|----|
| 562. | A. V. Solov'yov, R. G. Polozkov V. K. Ivanov. | "Angle-resolved photoelectron spectra of metal cluster anions within a many-body-theory approach". | Статья | Phys. Rev. A 2010, A 81 , n. 2, p. 021202(R) | 3 |
| 563. | P. Г. Полозков, B. К. Иванов, A. В. Король, A. В. Соловьев. | "Теоретическое исследование углового распределения фотоэлектронов в процессах фотоионизации анионов металлических кластеров". | Статья | Научно-технические ведомости СПбГПУ, физико-математические науки. 2010, т. 3 (104), с.75 – 80 | 6 |
| 564. | V. K. Dolmatov, G. Craven, D. Keating | Confinement and electron correlation effects in photoionization of atoms in endohedral anions: Ne@C ₆₀ ^{z-} | Invited paper | J. Phys.: Conf. Series, Vol. 212, 012015, 2010 . | 6 |
| 565. | V. K. Dolmatov and S. T. Manson | Interior static polarization effect in A@C ₆₀ photoionization | Paper | Phys. Rev. A, Vol. 82, 023422, 2010 | 3 |
| 566. | 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 |
| 567. | 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 | |
| 568. | 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 | |
| 569. | 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 | |
| 570. | A. S. Kheifets and I. A. Ivanov | Delay in atomic photoionization | paper | Phys. Rev. Lett 105, 233002, 2010 | |

| | | | | | |
|------|--|---|--------|--|----|
| 571. | 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 81 , 043426, 2010 | |
| 572. | 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 82 , 023420, 2010 | |
| 573. | 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 43 , 21, 215203, November 2010 | |
| 574. | A. B. Верховцев, P. Г. Полозков, B. К. Иванов, A. В. Король, A. В. Соловьев. | “Исследование электронной структуре эндофуллеренов инертных газов”. | Статья | Научно-технические ведомости СПбГПУ, физико- математические науки. 2011, т. 1 (116), с. 61 – 70 | 10 |
| 575. | M. Ya. Amusia, L. V. Chernysheva, E. Z. Liverts | Qualitative difference between the angular anisotropy parameters in fast electron scattering and photoionization | Статья | Pis'ma v ZhETF, 94 , iss.6, 466-471; JETP Letters, 94 , No. 6, pp. 431-436, 2011 | 6 |

| | | | | | |
|------|---|--|--------|---|----|
| 576. | 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 | |
| 577. | M. Ya. Amusia | Atoms as many-body systems | Review | Journal of Physics: Conference Series, 321 , 012049, 2011 | |
| 578. | V. K. Dolmatov, M. Ya. Amusia, L. V. Chernysheva | Confinement and correlation effects in the Xe@C ₆₀ generalized oscillator strengths | Paper | Phys. Rev. A, 84 , 063201-1-6, 2011 | 6 |
| 579. | Zhifan Chen, A. Z. Msezane | Photoionization of Xe ⁺ ion confined in C ₆₀ fullerene | Paper | Canadian Journal of Physics, 89 (11), 1107-1110, 2011 | 4 |
| 580. | 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, 95 , 2, 80-83, 2012; JETP Letters, 95 , No 2, 74-77, 2012 | 4 |
| 581. | 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 |
| 582. | 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 | |
| 583. | Z. Chen and A.Z. Msezane | Photoionization of the Xe atom and Xe@C ₆₀ molecule | Paper | Eur. Phys. J. D 65 , 353, 2011 | 4 |
| 584. | M. Ya. Amusia, L. V. Chernysheva, E. Z. Liverts | Angular distributions of secondary electrons in fast particle-atom scattering | Paper | Phys. Rev. A, 85 , 042722 -1-12, 2012 | 12 |
| 585. | M. Ya. Amusia, L. V. Chernysheva, E. Z. Liverts | Generalized oscillator strength of endohedral molecules | paper | International Journal of Quantum Chemistry, 112 , 18, 3119-3130, 2012 | 12 |
| 586. | 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". | Статья | Nuclear Inst. and Methods in Physics Research B, Vol. 279, pp. 202-204, 2012 | 4 |
| 587. | 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@C ₆₀ ", | Статья | Fullerenes, Nanotubes and Carbon Nanostructures, 20:4-7, 382-385, 2012 | 4 |

| | | | | | |
|------|--|--|--------|--|---|
| 588. | 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". | Статья | J. Phys. B: At. Mol. Opt. Phys. 45 , 215101, 2012 | 8 |
| 589. | R. G. Polozkov, V. K. Ivanov, A. V. Korol, A. V. Solov'yov | "Photodetachment of metal cluster negative ions within many-body theory" | Статья | European Phys. J. D, 66 , 287, 2012 | 7 |
| 590. | V. K. Dolmatov and D. A. Keating | Xe 4d photoionization in Xe@C ₆₀ , Xe@C ₂₄₀ , and Xe@C ₆₀ @C ₂₄₀ | paper | J. Phys.: Conf. Series, 388 , 022097, 2012 | |
| 591. | S. B. Whitfield, R. Wehlitz, V. K. Dolmatov | The Ba5s photoionization in a correlation minimum energy region | paper | J. Phys.: Conf. Series, 388 , 022008, 2012 | |
| 592. | V. K. Dolmatov and D. A. Keating | 5s correlation confinement resonances in Xe-endo-fullerenes | paper | J. Phys.: Conf. Series, 388 , 022010, 2012 | |
| 593. | V. K. Dolmatov, J. L. King, J. C. Oglesby | Diffuse versus square-well confining potentials in modelling A@C ₆₀ atoms | paper | J. Phys. B, 45 , 105102, 2012 | 6 |
| 594. | V. K. Dolmatov and J. L. King | Atomic swelling upon compression | paper | J. Phys. B, 45 , 0225003, 2012 | 5 |
| 595. | 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 85 , 053424, 2012 | |
| 596. | I. Bray, D. V. Fursa, A. S. Kadyrov, A. T. Stelbovics, A. S. Kheifets | Electron- and photon-impact atomic ionization | paper | Physics Reports 520 , 135, 2012 | |

| | | | | | |
|------|---|--|--------|---|----|
| 597. | 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, 85 , 043421, 2012 | |
| 598. | Z. Chen, A. Msezane | Photoabsorption Spectrum of the Xe@C ₆₀ Endohedral Fullerene | Paper | The European Physical Journal D 66 , 7, 2012 | |
| 599. | Z. Chen, A. Msezane | Effect of C ₆₀ Giant Resonance on the Photoabsorption of Encaged Atoms. | Paper | Phys. Rev.A 86 , 6, 2012 | |
| 600. | Zhifan Chen and Alfred Z. Msezane | Photoionization of Xe and Xe@C ₆₀ | Talk | J. of Phys.: Conference Series 388 , 022075, 2012 | |
| 601. | 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” | Статья | Journal of Physics: Conference Series 438 , 012009, 2013 | 11 |
| 602. | 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”. | Статья | Journal of Physics: Conference Series 438 (2013) 012019 (10 pages)/ | 10 |
| 603. | A. Н. Ипатов, B. К. Иванов, P. Г. Полозков. | “Влияние многочастичных корреляций на стабильность электрон-позитронных кластеров”. | Статья | ЖЭТФ, т.144, вып.4, стр. 727–732.. 2013 (JETP, 2013, Vol. 117, No. 4, pp. 631– 635) | 6 |

| | | | | | |
|------|--|---|--------|--|----|
| 604. | A.N. Ipatov V.K. Ivanov R.G. Polozkov | “On stability of nanoscale electron-positron droplets” | Статья | St. Petersburg State Polytechnical University Journal. Physics and Mathematics. 2013. No. 4-2 (182), pp. 154 – 163 | 10 |
| 605. | M. Ya. Amusia, L. V. Chernysheva, V. G. Yarzhemsky | On the photoionization in the hard X-ray region | Статья | Pis'ma v ZhETP, 97 , 12, 2013; JETP Letters, Vol. 97, No. 12, pp. 704–707, 2013 | 4 |
| 606. | M. Ya. Amusia, V. K. Dolmatov, L. V. Chernysheva | Electron elastic scattering off a semifilled shell atom: the Mn atom | paper | Phys. Rev. A, 88 , 042706-1-7, 2013 | 7 |
| 607. | 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 |
| 608. | D. G. Green and G. F. Gribakin | Positron scattering and annihilation in hydrogenlike ions | paper | Phys. Rev. A 88, 032708, 2013 | |
| 609. | E. Sokell, P. Bolognesi, A. Kheifets, Igor Bry, S Safronov L. Avaldi | Signature of two-electron interference in angular resolved double photoionization of Mg | paper | Phys. Rev. Lett. 110, 083001, 2013 | |
| 610. | A. S. Kheifets | Time delay in valence shell photoionization of noble gas atoms | paper | Phys. Rev. A 87, 063404, 2013 | |
| 611. | M. Ya. Amusia and L. V. Chernysheva | Comment on “Photoionization of endohedral atoms using R-matrix methods: application to Xe@C ₆₀ ” | paper | Phys. Rev A, 89 , 057401, 2014 | |
| 612. | V. K. Dolmatov, M. Ya. Amusia, L. V. Chernysheva | Electron elastic scattering off a spin-polarized Cr atom | paper | Phys. Rev. A, 90 , 032717, 2014 | |
| 613. | M. Ya. Amusia, L. V. Chernysheva, E. G. Drukarev | Explanation of the recent results on photoionization of endohedral atoms | paper | JETP Letters, 100 , 9, 619-622, 2014 | 4 |
| 614. | M. Ya. Amusia, L. V. Chernysheva, V. G. Yarzhemsky | On photoionization in the hard X-ray region | Статья | J. Phys.: Conf. Ser., v.488, 2 Art No: #022044, 2014 | 1 |

| | | | | | |
|------|---|--|--------|---|---|
| 615. | 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”. | Статья | European Phys. J. D 68: 268 – (1-9), 2014 | 9 |
| 616. | A. N. Ipatov, V. K. Ivanov, R. G. Polozkov | “On stability of nanoscale electron-positron droplets”. | Статья | European Phys. J. D 68: 249 – (1-6), 2014 | 6 |
| 617. | V. K. Dolmatov, M. B. Cooper M. E. Hunter | Electron elastic scattering off endohedral fullerenes A@C ₆₀ : the initial insight | paper | J. Phys. B, Vol.47, 115002, 2014 | 6 |
| 618. | 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 ₆₀ : A probe of confinement resonances | paper | Phys. Rev. A, Vol. 89, 053424, 2014 | 4 |
| 619. | I. I. Fabrikant and G. F. Gribakin | Positronium-atom scattering at low energies | paper | Phys. Rev. A 90, 052717, 2014 | |
| 620. | E. Sokell, P. Bolognesi, A. Kheifets, I. Brey, S. Safgren L. Avaldi | Double photoionization of Mg studied by electron-electron coincidence experiments | paper | Phys. Rev. A 89, 013413, 2014 | |
| 621. | E. P. Måansson, 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 10 , 207, 2014 | |
| 622. | 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 ₆₀ | paper | Phys. Rev. A 89 , 053424, 2014 | |
| 623. | 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 90 , 053406, 2014 | |

| | | | | | |
|------|--|---|-------|--|----|
| 624. | Qianxia Wang , S Sheinerman and F Robicheaux | Comparison of different quantum mechanical methods for inner atomic shell photoionization followed by Auger decay | Paper | J. Phys. B: At. Mol. Opt. Phys. 47 (2014) 215003 | 10 |
| 625. | Caryn Palatchi, M. Dahlström, A. S. Kheifets, P. Agostini L. F. DiMauro | Atomic Delay in Helium, Neon, Argon and Krypton | paper | J. Phys. B 47 , 245003, 2014 | |
| 626. | 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 47 , 245602, 2014 | |
| 627. | 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, 101 , 7, 556-559, 2015, JETP Letters, 101 , 7, 503-506, 2015 | 4 |
| 628. | 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, 69 , 245, November 2015 | |
| 629. | 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, 635 , 072004, 2015 | |
| 630. | 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, 635 , 092012, 2015 | |
| 631. | 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. 91 , 6, 0622703, 2015. | 12 |

| | | | | | |
|------|--|---|-------|---|---|
| 632. | 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 $3p \rightarrow 3d$ giant resonance | Paper | Physical Review A, 91 , 053415, 2015. | 7 |
| 633. | V. K. Dolmatov, J. L. King, J. C Oglesby | Corrigendum: Diffuse versus square-well potentials in modelling A@C ₆₀ atoms | Paper | J. Phys. B. 48 , 6, 069501, 2015 | 1 |
| 634. | J. P. Connerade and V. K. Dolmatov | “C ₆₀ spin-charging” with an eye on a quantum computer | Paper | J. Phys. B, 48 , 015007, 2015 | 3 |
| 635. | 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 $3p \rightarrow 3d$ autoionization resonance | Paper | Phys. Rev. A 91, 053415, 2015 | |
| 636. | 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 | |
| 637. | V. K. Dolmatov, M. Ya. Amusia L. V. Chernysheva | Electron elastic scattering off A@C ₆₀ : The role of atomic polarization under confinement | Paper | Phys. Rev. A 92 , 042709(7), 2015 | 7 |
| 638. | 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 92 , 012503(8), 2015 | 8 |

| | | | | | |
|------|--|---|--------|---|----|
| 639. | 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 |
| 640. | 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, 369 , 15 February 2016, Pages 21–23, 2016 | 3 |
| 641. | M. Ya. Amusia and L. V. Chernysheva | The role of fullerene shell upon stuffed atom polarization potential | Статья | Письма в ЖЭТФ, 103 , 4, 286-290, JETP Letters, 103 , 4, 260-264, 2016 | 5 |
| 642. | 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 91 , 015401, 2016 | 12 |
| 643. | E. G. Drukarev, M. Ya. Amusia, and L. V. Chernysheva | Role of electronic shell in the double beta decay | Статья | Phys. Rev. C, 94 , 035504, 2016 | |
| 644. | E. G. Drukarev, M. Ya. Amusia, L. V. Chernysheva | Internal energy loss of the electrons ejected in neutrinoless double β decay | Paper | Few Body Systems, 58(1), 12, 2017 | |
| 645. | V. K. Dolmatov, M. Ya. Amusia, L. V. Chernysheva | The effects of target polarization in elastic scattering of electrons by endohedral A@C ₆₀ | Paper | Phys. Rev. A, A95(1), 012709, 2017 | |