

List of Publications
Yury Kronn, Ph. D.

1. *Electromagnetic Waves in Systems with Dispersion and Variable Parameters**. Soviet Journal of Radiophysics v.3, p.818 (1960)
2. *Generator in Decimetre Wavelength Range with Electronically Variable Frequency**. Reprint of Radiophysics Research Institute, Gorky, (1962)
3. *Theory of Stimulated Raman Scattering**. Soviet Journal of Radiophysics v.7,p. 675 (1964)
4. *Some Questions of Stimulated Two-Photon Emission Theory*. Soviet Journal of Radiophysics, v. 8, p. 353 (1965)
5. *Resonant Field Influence on Two-Photons Laser Generation*. Soviet Journal of Radiophysics, v. 9, p.330 (1996)
6. *Second Harmonic Generation in a Laser*. Soviet Journal of Radiophysics, v. 9, p.44 (1966)
7. *Resonance Parametric Interaction of Strong Fields at Optical Frequencies*. Soviet Physics – JETP, v.24,p. 1012 (1967)
8. *Resonance Parametric Interactions and SRS in a Medium with Dispersion*. In a book “Nonlinear Optics”* (coll.pop.), Proc. Of the 2nd All-Union Symposium on Nonlinear Optics (Nauka, Novosibirsk, 1966) p. 260
9. Abstract of Ph.D. Thesis “*Theory of Nonlinear Processes Wherein Laser Beams Interact with Matter*”* USSR Acad.Sci., Institute of Radioengineering and Electronics (IRE), Moscow 1967
10. *Up-Conversion of the Laser Frequency in a Three-Photon Process*. Soviet Radiophysics. Quantum Electronics issue, v.10, p. 106 (1967)
11. *Nonlinear Processes Wherein a Powerful Laser Beam Propagates in the Atmosphere** IRE Reprint, USSR Acad. Sci., Moscow (1967)
12. *Stimulated Raman Scattering by Infrared-Active Transitions**. Reports to the 3rd All-Union Symposium on Nonlinear Optics, Moscow State University, 1967, p.52
13. *Theory of SRS by Infrared-Active Transitions*. Sov. Phys.-JETP v.28, p. 656 (1969)
14. *Multi-photon Absorption and Quadratic Stark-Effect in Three-Level Systems**. Reports to the 4th All-Union Symposium on Nonlinear Optics, Moscow State University, 1968, p.62
15. *CO₂ – Laser Beam Propagation in the Atmosphere**. IRE Reprint USSR Acad. Sci., Moscow 1968
16. *Potential Observation of Self-Action of Light Caused by SRS*. Sov. Radiophysics. Quantum Electronics issue, v.12, p. 1395 (1969)
17. *Nonlinear Polarizations in Resonant Interactions of an Electromagnetic Field with Matter*. Soviet Phys.-JETP v. 32 p.501 (1971)

18. *Interaction of Light Beams Caused by SRS**. Reports to the 5th All-Union Symposium on Nonlinear Optics, Moscow State University, 1970, p.62
19. *Nonstationary Nonlinear Polarizability Caused by Laser Pulses**. Reports to the 5th All-Union Symposium on Nonlinear Optics, Moscow State University, 1970, p.16
20. *Self-Action of Light Caused by SRS*. Sov. Journal of Optics and Spectroscopy, v. 31,p. 120 (1971)
21. *Peculiarities of Self-Action in Absorption Medium and Conditions for Observation of Self-Focusing Caused by Resonant Absorption*. Sov.Phys.-JETP, v.34, p.276 (1972)
22. *Nonlinear Absorption Coefficient of Electromagnetic Waves in Astrophysical Conditions**. Sov.J.of Astrophysics v. 7,n.3, p.501 (1972)
23. *Propagation of Powerful Laser Beams in the Atmosphere. Part I*. IRE Reprint, USSDR Acad. Sci.,Moscow (1972)
24. *Spatially-Bounded Phase Capture and Axial Anti-Stokes Radiation in SRS in Gases*. JETP Letters, v.17, p. 285 (1973)
25. *Propagation of Powerful Laser Beams in the Atmosphere Part II**. IRE Reprint, USSR Acad.Sci., Moscow (1972)
26. *Experimental Investigation of the Polarizability of the H₂ Molecule in the Excited Vibrational State*. JETP Letters, v. 19,p. 253 (1974)
27. *Three and Four-Photon Resonant Parametric Interactions When Phase Locking Occurred**. Reports to the 7th All-Union Conference on Coherent and Nonlinear Optics. Moscow State University, 1974, p. 60.
28. *Influence of Spatially –Bounded Phase Locking on Behavior of the Anti-Stokes Component of SRS**. Reports to the 7th All-Union Conference on Coherent and Nonlinear Optics. Moscow State University, 1974, p.99
29. *Measurement of Polarizability of the Hydrogen Molecules in an Excited Vibrational State**. Reports to the 7th All-Union Conference on Coherent and Nonlinear Optics. Moscow State University, 1974, p.74
30. *The Amplification Method of Image Contrast in Coherent Light**. Sov.Journal Quantum Electronics v.1, p. 1725 (1974)
31. *Resonant Dubbing of Frequency in Vapors and Gases*. Sov.Journal Quantum Electron. V.4,p.1076 (1975)
32. *Resonant Infrared Radiation Coinciding with SRS**. IRE Reprint n.26, USSR Acad. Sci., Moscow, (1974)
33. *A description of Resonant Multiphoton Interactions of Light and Matter by the Means of the Generalized Two-Level System**. IRE Reprint n. 31, USSR Acad. Sci., Moscow (1974)
34. *Theory of Resonant Four-Photon Interactions*. Sov. Phys. JETP v. 41, p.247 (1975)
35. *The Generalized Two-Level System Populations Change Under the Effect of Quasi-Monochromatic Fields**. IRE Reprint, USSR Acad.Sci., Moscow (1975)

36. *Influence of Parametric Processes on the Generation of Stokes Components of SRS Under Bi-harmonic Pumping.* JETP Letters, v.21, p.105 (1975)
37. *Frequency Transformation in Four-Photon Resonant Parametric Interactions Based on SRS.* Sov. Journal Quantum Electronics v.5, p.917 (1975)
38. *Investigations of Resonant Radiation While SRS Occurs in Gases*.* Sov. Journal of Quantum Electronics, v.2, No. 10 (1975)
39. *Soft Excitation of Stimulated Two-Photon Emission.* JETP Letters v. 21, p.234 (1975)
40. *Nonlinear Spectroscopy Based on the Effect of Resonant Optical Detection.* JETP Letters v. 22, p.276 (1975)
41. *Influence of Resonant Parametric Processes on SRS Dynamic.* In the bok, “Stimulated Raman Scattering” , Znanie, Kiev, 1975 p.79
42. *Investigation of Parametric Mechanism of a Second Stokes Component Generation in SRS.* In the book “Stimulated Raman Scattering”, Znanie, Kiev, 1975
43. *Effect of the Phase Locking on the Dynamics of the Anti-Stokes Component of Stimulated Raman Scattering.* Sov. Phys. JETP v.43, p.430 (1976)
44. *Generation of a Difference Frequency in Stimulated Raman Scattering in a Medium in a Spatially Modulated Electrostatic Field.* Sov.Tech.Phys.Lett. v.2, p.99 (1976)
45. *Investigating Resonant and Quasi-resonant Parametric Processes in Vapors of Barium and Cesium.* Sov.Journal of Quantum Electronics v.6, p.369 (1976)
46. *Effect of Four-Wave Parametric Processes on the Dynamics of the Stokes Components of Stimulated Raman Scattering.* Sov.Phys. JETP v.43, p. 873 (1976)
47. *The Feasibility of Developing a Two-Photon Tunable Laser on Iodine and Oxygen*.* Reports to the 8th All-Union Conference on Coherent and Nonlinear Optics. Tbilisi, 1976, p.111
48. *A Canonical Description of Molecular Behavior During Multi-Quantum Interactions with an Electromagnetic Field*.* Reports to the 8th All-Union Conference on Coherent and Nonlinear Optics. Tbilisi, 1976, p.341
49. *Radiation With a Wavelength of 2.41 mkm in Compresses Hydrogen Place in a Spatially Modulated Electrostatic Field*.* Reports to the 8th All-Union Conference on Coherent and Nonlinear Optics. Tbilisi, 197, p.110
50. *Four –Wave Parametric Frequency Shift in Transparent Condensed Medium.* Sov.Tech.Phys.Lett. v.2, p.100 (1976)
51. *Generalized Two-Level System: Susceptibility and Polarization*.* IRE Reprint, n.10 USSR Acad.Sci., Moscow (1976)

52. *A Canonical Description of Multi-quantum Resonance Interactions of Radiation and Matter.* Sov. Phys. JETP v.44, p. 897 (1976)
53. *Method of Obtaining Holograms.* USSR Patent No. 508142, 1975
54. *Method of Transformation and Intensification of an Object's Image.* USSR Patent No. 533254, 1976
55. *Abstract of Post-Doctorate Dissertation "Resonant Multiphoton Processes in Gaseous Media"* USSR Acad.Sci. Lebedev Inst.of Physics, Moscow (1977)
56. *The Role of a Parametric Process and SRS in Second Stokes Component Generation.* Sov. Journal of Quantum Electronics v.7, p.867 (1977)
57. *The Feasibility of Effective Amplification Optical Signals as a Result of Four-Waves Parametric Processes*.* Sov. Journal Quantum Electronics v.8, p.698 (1978)
58. *The Feasibility of the Effective Conversion of Frequencies in an Active Medium*.* Sov. Journal of Quantum Electronics. V.8, p. 2065 (1978)
59. *Lifting the Hindrance of Absorption in Strong Light Fields and Excitation of Polyatomic Molecules.* Sov. Phys. JETP v.49, p.23 (1979)
60. *Conditions of Observing a Spontaneous and Stimulated Raman Scattering on Forbidden Rotational and Vibrational-Rotational Transitions in a Strong Light Field.* Sov. Journal of Quantum Electron. v.9, p. 2447 (1979)
61. *High Frequency Hindrance Lifting and Possibility of Multiphoton Amplification in Active Molecular Media.* Sov.Phys. JETP v.51, p. 245 (1980)
62. *A Resonant Parametric Frequency Conversion in Active Mediums.* In the book "Nonlinear Resonant Conversion of Laser Frequencies"*(coll.pap.) FAN, Tashkent (1979)
63. *Picosecond Pulse Generation During Raman Scattering Biharmonic Pumping.* Sov.Tech.Phys. v.25, p.1019 (1980)
64. *New Effects in SRS of Wide Spectrum Pumping Field*.* Reports to the 10th All-Union Conference on Nonlinear Optics and Coherent Optics, Kiev, 1980.
65. *Resonant Parametric Frequency Conversion in Active Mediums*.* Sov.Journal of Quantum Electronics. V.8, p. 197 (1981)
66. *A Method of Amplifying Superpower Laser Impulses.* USSR Patent No. 2768756 (1979)
67. *A Method of Obtaining Light Impulses with a Steep Front.* USSR Patent No.2876505 (1980)
68. *The Feasibility of Creating Parametric Light Generators on the Basis of Four-Waves Interaction in Active Mediums*.* Sov. Journal of Radiophysics v.24 (1981)
69. *Stationary Ultrashort Pulses in Resonant Molecular Media.* Sov. Phys. JETP v.55, p.241 (1982)

70. *The Feasibility of Stimulated Three-Photon Radiation in Molecular Medium*. Sov. Journal Radiophysics v.25, p.1361 (1982)
71. *About Exploiting Some Possible Advantages of Two-Photon Induced Stimulated Irradiation of Molecular Complexes**. Sov. Journal Radiophysics v.28, p.1539 (1985)
72. The book “*Resonant Nonlinear Interactions of Light with Matter*”, Springer-Verlag, New York, 1989.
73. *Human Electrocortical Response to Bio-Active Light Emitting Source (Bales)*, Collection of Reports at IEEE, Technology for Medicine and Biology Conference, Philadelphia, Pa. Nov. 1990
74. *Stripline Flat Antenna*, US Patent No. 4933679 (June 12, 1990)
75. *New Design Procedure for Big-aperture Flat Antennas*, New Americans’ Collected Scientific Reports, v.1, 1991, p.126
76. *The Effect of Subtle Energy on Autonomic Nervous System Response as Quantified by the Heart Rate Variability Test*, Society for Scientific Exploration 21st Annual Meeting, Virginia (May, 2002) Abstract: Newsletter for the Society for Scientific Exploration (2002) Vol.18
77. *Monotomic Subtle Energy Patterns Infused in Water and their Influence on Plant Growth*, Society for Scientific Exploration 21st Annual Meeting, Virginia (May, 2002) Abstract: Newsletter for the Society for Scientific Exploration (2002) Vol.18
78. *The Missing Link in Modern Medicines Concept of Health*, Advancements in Foundational Therapy Conference, Arizona (March, 2003)
79. *Energy – The Missing Link to Health*, Science of Whole Person Healing – Proceedings of the First Interdisciplinary International Conference Vol.1 p.157-171, Washington, D.C. (2003).
80. *New Understandings on the Effects of Energetic Pollution on the Healing Process and Solutions Made Possible with Vital Force Technology*, Proceedings of the Medical Week Baden-Baden Conference, Baden-Baden, Germany, Nov. 2008.
81. *Creating “Informed Water” for Specific Healing Applications with Vital Force Technology*, Proceedings of the Symposium of the German Federation of Energetic and Informational Medicine, Heidelberg, Germany, Oct. 2008.
82. *Die Schulphysik sollte endlich feinstoffliche Konzept anerkenner Dunkle Materie*, Raum & Zeit, Nr 161 Sept./Oct. 2009, Article p. 85-91, Wolfratshausen, Germany.
83. *Improved Healing Effects Made Possible in Environments Energetically Cleaned with Vital Force Technology™*, Proceedings of the Symposium of the German Federation of Energetic and Informational Medicine, Heidelberg, Germany, June 2010.
84. *Vital Force Technology of Yury Kronn*, Life Force - The Scientific Basis, Claude Swanson, p.354-357, Poseidia Press, Tucson, AZ, 2010.

* In Russian