

Absorption and Luminescence of Trivalent
Samarium in Oxide Glasses, by
I. A. Zhmyreva.
RUSSIAN, per, Zhurnal Prik Spekt, Vol 8,
No 1, 1968, pp 67-73.
(19)-68-513-RULL - MIT/Lin Lab
Available from NTC

June 69

383,253

Photoelectric Pyrometer for Measuring True Temperature of Tungsten. 1. Mode of Operation and Analysis of Errors in the Measurement of True Temperatures, by V. D. Dmitriyev, G. K. Kholopov.

RUSSIAN, per, Zhurnal Prikladnoy Spektroskopiy, Vol 8, No 2, 1968, pp 216-222.

FTD-S-489 34-67

Apr 69

379,932

Certain Characteristics of the Use of Laser
Spectra in a Monopulsed System for Analysis,
by V. I. Kasatkin. 6 pp.
RUSSIAN, per, Zh Prik Spekt, Vol 8, No 2,
1968, pp 223-226.
NASA TT F-12,696

Sci-Phys
Feb 70

403,168

Transformation of Generation Channels and Simultaneous
Generation of Two Frequencies in Four Level Systems,
by A.M. Samson, R.A. Karumaliyov.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii, Vol 8,
No 2, 1968, pp 227-237.
FTD-S-215 273-68

Jan 69

573,538

Changes Occurring in the Active Element of a Solid-
state Laser Heated by the Pump Light, by

A. P. Beduta.

RUSSIAN, per, Zhurnal Prikladnoy Spektroskopiy,
Vol 8, No 2, 1968, pp 238-243.

*FTD HT Special 129-70

May 70

Two-Lens Compensator for Hologram Chromatish, by
Sh. D. Kakichashvili.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopiy,
No 2, 1968, pp 329-331.
FTD IT Special 388-70

Sci-Phys
Dec 70

A Two-Dimensional Resonator Laser, by
B. B. Boyko. 4 pp

RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii,
Vol 8, No 2, 1968, pp 351-353.

AIRMAIL-RT-23-815-68

Sci-Phys
Sep 68

Miniature High-Speed Spectrometer for the
Near Infrared Range 0.8-3u, by
V. K. Goncharov.
RUSSIAN, per, Zh Prikl Spekt, Vol 8, No 2,
1968, pp 356-359.
CIA X-6952

Mar 69

378,050

*Time Studies of the Emission of Vapors During a
Combined Excitation Process, by A. V. Karyakin,
RUSSIAN, per, Zhurnal Prikladnoi Spektroskopii,
V. 8, Mar 1968, p. 433-438.*

NASA TT-F-13,540

NTC 12-11370-20E

Mar 71

IR Spectroscopy Study of Branch Copolymers
of Cellulose Acetate with Polymethacrylic
Acids and Fibers on Their Basis, by
N. I. Garbuz, R. G. Zbankov.
RUSSIAN, per, Zhurnal Prik Spekt, Vol 8,
No 3, 1968, pp 469-473.
FTD-S-333 349-68

Feb 69

374,435

Increasing the Effectiveness of Utilization of
Material for Spectral Analysis Using Lasers, by
O. I. Putrenko. 5 pp.
RUSSIAN, per, Zh Prik Spekt, Vol 8, No 3, 1968,
pp 500-502.
NASA TT F-12,693

Sci-Phys
Jul 70

Ruby Laser, Generating a Single Mode, by N. Yo. Korne-
yev, A. V. Folomeyov.
RUSSIAN, per, Zhurnal Prikl Spektroskopiya, Vol 8,
No 3, 1967, pp 503-504.
FTD-S-150 150-68

*Laser Plasma Formation and Material Evaporation
of Different Materials, by M.V. Akhmanova*
RUSSIAN, per, Zhurnal Prikladnoi Spektroskopii,
V. 8, Mar 1968, p. 584-587.
**NASA TT-F-13, 539*

Mar 72

Measurement of Gain in CO₂ Transitions 00⁰₁-10⁰₁
and 00⁰₁-02⁰₀, by I. K. Babayev. 6 pp.
RUSSIAN, par, Zh Prik Spekt, No 4, Oct 1968.
ACSI J-7723
FSTC-HT-23-099-70

Sci-Phys
Jul 70

Luminescence of Ionic Crystals, by F. D. Klement,
Ch. B. Lushchik.
RUSSIAN, per, Zh. Prikl. Spektroskopii, Vol 8,
No 4, 1968, pp 545-552.
(129)-69-247-RULL--MIT/Linc
Available from NTC 72-10978-20F

May 69

380,426

A Study of the Mechanism of the Formation of the
Gas Temperature of a Discharge in a Chilled
Tubular Cathode, by A. G. Zhiglinakiy,
T. N. Khlorigina.
RUSSIAN, per, Zhurnal Priklad Spektros, Vol 9,
No 4, 1968, pp 562-570.
O. A. Trans. 1039

Sci-Phys
Dec 70

An Investigation of the Evaporation
Processes of a Substance and Plasma
Development When Laser Radiation
Strikes Different Materials, by

N. V. Akhmanova.

RUSSIAN, per, Zhurnal Prikladnoi
Spektroskopii, Vol 8, No 4, 1968,

pp 584-587.

NTC 72-11299-20E

NASA TR F 13,539 8 pp

May 72

Internal Modulation of Generated Flow In Neodymium
Lasers With Flat Mirrors, by S. A. Mikhnov.

RUSSIAN, per, Zhurnal Prikladnoy Spektroskopiy,

Vol 8, No 4, 1968, pp 593-598.

FTD-S-249 161-68

Jan 69

374,211

Request translation check 25-6-10 BT69-11-704T

Possible Optical Cooling
E F Arsene'yev
Zhurnal Prikladnoy Spektroskopii, v 8, nr 4, 1968, 610-611

~~In process~~

HT-23-473-69

Apr 70

Degetine
B. G. G. G.

Determining the Time Constants of Radiation Detectors by Means of the Transient in a Selective Amplifier, by V. S. Davydov, B. G. Pustovoyt.
RUSSIAN, per, Zhurnal Prikl Spekt, Vol 8, No 4, 1968, pp 619-623.
FTD-S-~~371~~ 62-69

Mar 69

375,452

Studying the Surface Structure of Vitreous and
Crystalline Silicates of Sodium, Subjected to
Etching, by the Method of Infrared Spectroscopy.
1., by K. P. DUTOVA, V. A. FLORINSKAYA. 7 pp.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii
Vol 8, No 4, 1968, pp 624-628.

FTD 8-591 *Special no number*

may 69

381,279

Features of the Electroluminescence of
Sublimated ZnSe (Cu, I, Cl) Layers, by
G. A. Zholkevich, K. F. Rudkovskiy, K. I.
Papunashvili, S. V. Shalepa.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopiy,
Vol 8, No 4, 1968, pp. 638-642.
LL (130)-67-248

Aug 69

389,576

High-Temperature Cuvettes for Studying the
Infrared (IR) Spectra of Solid Bodies and
Adsorbed Molecules, by Yu. M. Shchekodukhin,
V. M. Shchekodukhin, et al. 7 pp.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii,
Vol 8, No 4, 1968, pp 696-699.
FTD S-587 .2/3 .69

May 69

381,276

Degradation of Neodymium Glass Parameters in Laser
Operation, by I. M. Buzhinskiy, et al.
RUSSIAN, par, Zhurnal Prikladnoy Spoktroskopii,
Vol 8, No 5, 1968, pp 731-737
FTD-IIT Special 498-69

oct 69

393,084

Screening of a Metal Surface by Fracture Products
Generated by Low Density Laser Radiation, by
G. S. Romanov, K. L. Stepanov, 15 pp.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopiy, Vol 8,
No 5, 1968, pp 753-763.
ARM/FSTC/HT-23-1156-71

CIA X-6687

Jan 72

Application of a Fabry-Perot Interferometer for
Measuring Low Absorption Coefficients in Gases,
by V. K. Konyukhov, I. V. Matrosov. 6 pp.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii,
Vol 8, No 5, 1968, pp 764-767.
FTD S-581 257 69

sci/physics
may 69

381,270

Recombination Radiation and Bremsstrahlung of
Electrons in a Field of OII and NII Ions, by
S. G. Grenishin, L. S. Nikolayevskiy.
RUSSIAN, per, Zh Prikl Spekt, Vol 8, No 5, 1968,
pp 803-806.
CIA X-6690

August 68

357,505

Q-switching of a CO₂ Laser, by Ye. T. Antropov.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopiy,
Vol 8, No 5, 1968, pp 861-863.
PTD HP Special 35-70

HT Special 326-68

mar 70

404,364

Luminescence of Glassed Activated by Ferric Iron,
by S. G. Lunter, 7 pp.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopiy.
Vol 8, No 6, 1968.
ARM/FSTC/HT-23-377-69

Sci/Mat
Aug 69

389,919

AFC (SC-T-722472) DISTRIBUTION OF TEMPERATURE
AND POPULATION IN RUBY LASER RODS DURING PUMPING.
Veduta, A. P. Translated for Sandia Labs., Albuquerque, N. Mex.,
from Zh. Prikl. Spektrosk.; 9: No. 6, 964-8 (Dec 1968). 2010p. 24
Dep. NTIS.

24 Physios; translations 2120

23 MN-34 20P NSA

Diffusion of Polarized Light by Polymeric Films.
Raleigh Gans Diffusion by a Three-Dimensional
Annular Spherulite, by Yu. I. Kotov. 8 pp.
RUSSIAN, par, Zhurnal Prikladnoy Spektroskopii,
Vol 8, No 6, 1968, pp 984-989.

FTD S-756A

Special 367-69

367-69

july 69

387,325

Absorption of Light by Polymethylmethacrylate
in Excited States, by Yu. V. Nabykin. 2 pp.
RUSSIAN, ~~per~~, Zhurnal Prikladnoy Spektroskopii,
Vol 8, No 6, 1968, pp 1053-1054.
FTD S-~~756-8~~ 367. 69

367-69

july 69

387,326

NEAR-CATHODE REGION WITH PULSED ELECTRICAL
DISCHARGE

BUSHIK A I; NEKRASHEVICH I G

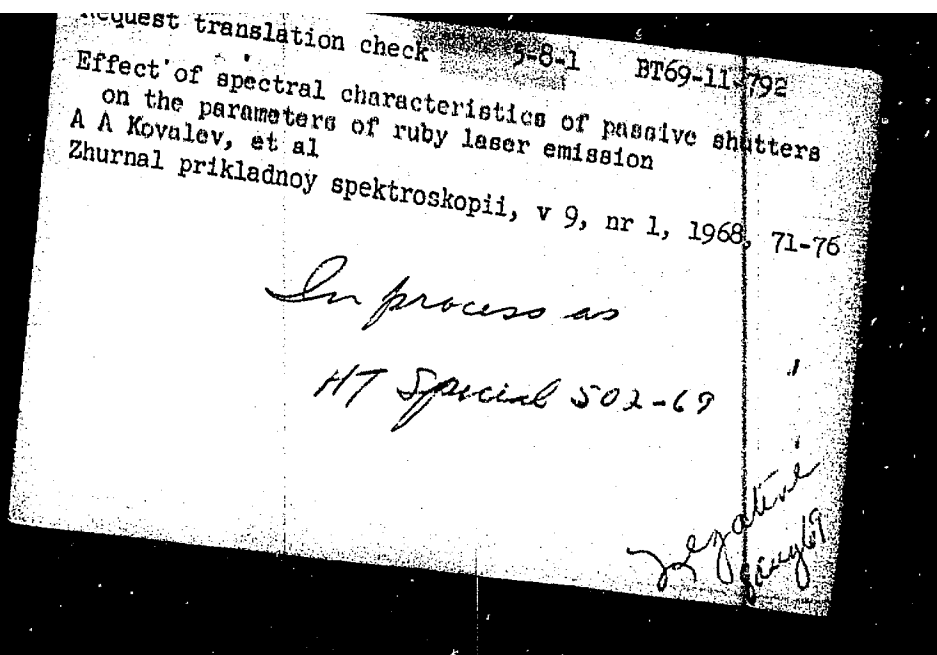
UR: ZHURNAL PRIKLADNOY SPEKTROSKOPII,
VOL 9, ISSUE 1, 1968

PGS: 10 -13

In process as

HS-23-71-0635

*Report
130 p 71*



Infrared Absorption in GaAs, Containing Structural
Impairment, by A. A. Patrin, V.F. Stel'makh, et al.
7 pp.

RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii,
Vol 9, No 1, 1968, pp 104-107.

~~B-588~~

FTD Special 254-69

may 69

382,921

Request translation check 5-8-2 BT69-11-769T

Backward light scattering (echo scattering) from objects
with rough surfaces and volume scattering

N A Voyshville, et al

Zhurnal prikladnoy spektroskopii, v 9, 1, 1968, 137-143

In process as

HT Special 502-69

negative sample

Study of Migration of Energy in Solutions
of Chlorophylls, by A. P. Losev,
Yo. I. Zen'kovich.
RUSSIAN, per, Zh Prikladnoy Spekt, Vol 9,
No 1, 1968, pp 144-151.
FTD-S-541

FTD Special 158-69

May 69

380,894

REQUEST TR CHECK 31-3-2 BR70-11-8
The theory of stationary self-trapping of light
in nonlinear media
Yemel'yanov, V.P.
Russ per: Zhurnal prikladnoy spektroskopii, vol 9
no 1, 1968, 159-161
In process
HT-23-124-70
Negative
13 April 70

Stimulated Raman Scattering in Frozen Liquids, by
Ya. S. Bobovich.

RUSSIAN, par, Zhurnal Prikladnoy Spektroskopiy,
Vol 9, No 1, 1968, pp 162-164.

*FTD HT Special 130-70

FTD HT Special 259-69

May 70

Calculation of Frequencies and Intensities for
Multimode Laser Emission, by A. P. Khapalyuk.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii,
Vol 9, No 2, 1968, pp 226-231.
FTD-HT Special 503-69

oct 69

393,085

On the Action of High Power Laser Radiation on
Photographic Materials, by F. A. Korolev, et al.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii,
Vol 9, No 2, 1968, pp 318-319.
FTD HT Special 503-69

oct 69

393,086

Energy Transfer Between Trivalent Chromium and
Ytterbium Ions in Silicate Glasses, by
G. A. Mokeyeva, et al.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii,
Vol 9, No 2, 1968, pp 326-328.
FTD HT Special 503-69

oct 69

393,087

Two Lens Compensator for Hologram Chromatism, by
Sh. D. Kakichashvili.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii
Vol 9, No 2, 1968, pp 329-331.
FTD HT Special 503-69

oct 69

393,088

Use of a Laser Interferometer to Determine
Electron Density in the Pulse Discharge of a
Disintegrating Plasma, by V. V. Tatarinov.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii,
Vol 9, No 3, 1968, pp 369-373.
FTD HT Special 365-69

oct 69

393,089

REQ TR CHECK 13-4-19 TD 09
STUDY OF THE LUMINESCENCE OF THE SPECTRAL LINES
OF ELECTRODE IONS IN THE NEAR-ELECTRODE LAYER
OF A PLASMA WITH PULSED DISCHARGES ON A
BIMETALLIC ELECTRODE
NEKRASHEVICH I G; BUSHIK A I
UR: ZHURNAL PRIKLADNOY SPEKTROSKOPII; VOL 9
ISSUE 3, 1968
PGS: 374 - 378
In process as Negative
HS-23-71-0624
22 Apr 11

Investigation of Infrared Dispersion Filters,
by N.A. Borisovich, V.G. Venshchagin, et al.
9 pp.

RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii,
Vol 9, No 3, 1968, pp 412-417.

FID-S-589

FID Special 253-69

may 69

381,277

Shortening of Giant Pulses by Stimulated
Brillouin Scattering, by F. A. Korolev, et al.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii,
Vol 9, No 3, 1968, pp 506-507.
FTD HT Special 365-69

570-69

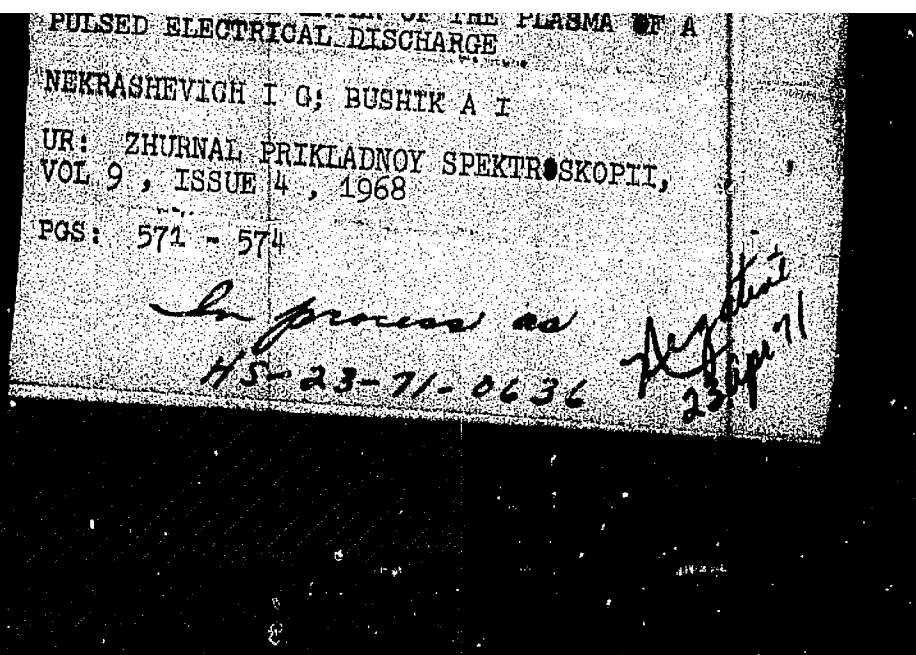
oct 69

393,090

Thermal Sensor for the Study of Field Intensity
Distribution in an IR Laser Resonator, by
Ye. T. Antropov, et al.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii,
Vol 9, No 3, 1968, pp 531-532.
FTD HT Special 365-69
570 69

oct 69

393,091



Request translation check 426-40 BT69-1-1314T

Calculation of the frequencies of the axial modes of a
composite laser using two active rods in series.
Yu I Cheklainskaya and I R Katseva
Zhurnal prikladnoy spektroskopii, ~~XX~~ V 9, nr 4, 1968
575-584

In process as

AT Special 366-69

Y. I. Cheklainskaya
I. R. Katseva

Spectral Analysis of a Glow-Discharge Plasma
Used in CO₂ Laser, 3 pp.
RUSSIAN, per, Zh Prik Spekt, Vol 9, No 4, 1968,
pp ~~70-705~~ *pp 704-705*
ACSI J-7722
FSTC-HT-23-098-70

Sci-Phys
Jul 70

Calorimetric Method of MEasuring the Reflection
Coefficient of Mirrors, by A. I. Barchukov.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii,
Vol 9, No 4, 1968, pp 706-709.
FTD HT Special 504-69

393,140

Use of a Laser With Fabry-Perot Interferometer for
Measurement of the ~~V~~- Velocities of Particles
in Two-Phase Turbulent Streams, by
B. S. Rinkevichyus, A. V. Tolkachev. 6 pp.
RUSSIAN, per, Zhurnal Prikladno y Spektroskopii,
Vol 9, No 5, pp 748-751. 1968
FTD S-815A 364-69

364-69

aug 69

389,759

Stable Q-Switch for a Neodymium Laser, by
Yu. M. Gryaznov.
RUSSIAN, rep, Minsk Zhurnal Prikladnoy Spektrosko-
pii, May 1969, pp 739-743.
FTD HT Special 71-57

mar 71

Investigation of the Emission of Xenon Flash
Lamps Producing Short Pulses, by A. D. Kelmentov.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii,
Vol 9, No 5, 1968, pp 756-760.
FTD HT Special 501-69

oct 69

393,092

Lasing of Dye Solutions by Excitation by the
Second Harmonic of a Ruby Laser, by
V. A. Mostovnikov. 14 pp.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii,
Vol 9, No 5, 1968, pp776-783.
FTD S-8158 364-69

364-69

aug 69

389,802

Generation of Light by Systems of Liquid Solutions
of Organic Dyes During Negative Absorption on
Activator Molecules and Induced Combination
Scattering on Matrix Molecules, by
Ye. A Tikhonov, 9 pp.

RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii,
Vol 9, No 5, 1968, pp 784-788

FTD S-815C 364-69

354-69

389,803

Resonance Radiation Transfer in a Finite
Layer, by Yu. A. Popov.
RUSSIAN, per, Zh Prikl Spekr, Vol 9,
No 5, 1968, pp 802-806.
CIA X-6913

NTC-69-12820-20F

Feb 69

375,377

Pulsed Laser Emission of Nitrogen Atoms in the
N₂-He Mixture, by N. A. Borisevich, et al.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii,
Vol 9, No 5, 1968, pp 807-811.
FTD HT Special 501-69

oct 69

393,093

Optical Absorption Spectra of LiF Crystals
With Magnesium Fluoride and Oxide Impurity, by
Z. N. Panova, et al.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopiy,
Vol 9, No 5, 1968, pp 876-870.
FTD HT Special 633-69

feb 70

401,005

Continuous Waves Laser on the Basis of
LaNa(MoO₄)₂-Nd³⁺ Crystals Operation at
300°K, by A. A. Kaminskiy.
RUSSIAN, per, Zh Prikl Spektr, Vol 9,
No 5, 1968, pp 884-886.
CIA X-6914

Feb 69

375,378

Possibilities for Using Lasers in the Monopulse
Mode for Spectral Analysis, by V. V. Panteleyev.
6 pp.

RUSSIAN, per, Zh Prik Spekt Ak Nauk Belorus
SSR, Vol 8, No 6, 1968, pp 905-908.

NASA TT F-12,697

Sci-Phys

7-1-70

403,169

Comparison of the Possibilities for Eliminating
the Effects of Third Elements with Pulsed
Discharges and Lasers, by V. V. Panteleyev. 6 pp.
RUSSIAN, par, Zh Prik Spek, Vol 9, No 6,
1968, pp 923-927.
NASA TT F-12,695

Sci-Phys
Feb 70

401,694

Request translation check 5-8-10 BT69-11-805T

Use of interference to obtain unpolarized and single-frequency

frequency gas laser emission

V V Gruzinskiy, et al

Zhurnal prikladnoy spektroskopii, v 9, nr 6, 1968, 959-63

In process as

HT Special 500-69

Y. V. Gruzinskiy

A. P. Veduta

Distribution of Temperature and Population in
Ruby Laser Rods During Pumping.
RUSSIAN, per, Zhurnal Prikladnoi Spektroskopii,
Vol 9, 1968, pp 964-968

NTC 72-13288-20E

IN PROCESS HT SPECIAL 500-69

BT64-11-801T

sept 72

Propagation of a Light Pulse in a Semi-
infinite Isotropically Scattering Medium,
by I. L. Katsev.
RUSSIAN, per, Zh Prikl Spekt, Vol 9, No 6,
1968, pp 969-976.
CIA X-6942

Mar 69

378,040

Request translation check 5-8-12 BT69-11-810T

Spectral composition of light scattered in self-focusing liquids

M A Bol'shov, et al

Zhurnal prikladnoy spektroskopii, v 9, nr 6, 1968, 1050-52

In process as

HT Special 500-69

*W. J. ...
8/29/69*

Miniature High-Speed Spectrometer for the
1.5-6u Infrared Range, by V. K. Goncharov.
RUSSIAN, per, Zh Prikl Spekt, Vol 9,
No 6, 1968, pp 1065-1069.
CIA X-6951

Mar 69

378,049

Impact Ionization and the Tunneling Effect
During Electroluminescence of Zinc Sulfide,
by L. A. Kosyachenko.

RUSSIAN, per, Zhurnal Prikl Spek Akad Nauk
Bel SSR, Vol 9, Nov 1968, pp 830-836.
NASA TT F-12,405

Sci-Phys
Oct 69

392,938

Infrared Method for Determining Trace Impurities
of Moisture in Isoprene, by Ye. G. Gatilova,
RUSSIAN, per, Zh. Prikl. Spektrosk. Vol 10,
No 1, 1969, pp 98-102.
FTD III Special 59-70

mar 70

404,482

Propagation of Modulated Light Radiation
in a Semi-Infinite Isotropic Scattering
Medium, by I. L. Katsev.
RUSSIAN, per, Zh Prik Spektr, Vol 10,
No 1, 1969, pp 120-125.
CIA X-7075

NTC-69-15450-20F

Aug 69

389,416

Effective Absorption Cross-Section of
Ultraviolet Radiation by Molecular
Oxygen at 3000-10000°K Temperatures,
by S. A. Losev.
RUSSIAN, per, Zh Prik Spekt, Vol 10,
No 2, 1969, pp 229-232.
CIA X-7015

May 69

382,305

Residence Time of Particles Blown Into Spark Dis-
charge Plasma in Excitation Zone, by A. M. Oleynik.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopiy,
Vol 10, No 2, 1969, pp 315-317.
FTD HT Special 257-70

Sci-Phys
Sep 70

Atmospheric Air Gas Laser, by Ye. N. Bazarev
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii,
Vol 10, No 2, 1969, pp 324-325.
FTD IT Special 499-69

oct 69

395,312

Electronic Spectra of Rare-Earth Metal
Fluorides, Oxyfluorides and Oxides, by
S. S. Datsanov.

RUSSIAN, per, Zh Prik Spekt, Vol 10,
No 2, 1969, pp 332-336.

CIA V-7014

May 69

382,304

Study of a Carbon Dioxide Pulsed Laser, by
G. R. Levinson. 11 pp.
RUSSIAN, per, Zh Prik Spekt, Vol 10, No 3,
1969, pp 425-432.
NASA TT F-12,563

Sci-Phys
Nov 69

395,798

Development Time and Spectral Width of a Single
Pulse From a Laser With a Saturable Adsorber,
by L. A. Kotomtseva, A. M. Samson.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii,
Vol 10, No 3, 1969, pp 443-448.
FTD HT Special 533-69

393,139

The Problem of Determining Cl Sub 3 Group Content
in Ethylene Propylene Copolymers by IR Spectro-
scopy, by V. P. Popov, A. P. Duvanova. 6 pp.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii,
Vol 10, No 3, 1969, pp 494-497.
AIR/FID/AF-23-95-70

sci/chemistry
may 70

Effect of Para-Substitutes on Infrared
Spectrum of Benzosulfanilide, by
V. L. Levashova.
RUSSIAN, per, Zhurnal Prikladnoi
Spektroskopii, Vol 10, 1969, pp 502-506.
NTC 72-11129-07C

May 72

K. K. Pryadkin

Electrodeless discharge in xenon at
pressures to 40 atmospheres. 7 pp
RUSSIAN, Zhurnal Prikladnoy Spektroskopii,
Vo. 10, No. 5, 1969, pp. 721-724.
AIR/PTD-IIT-23-839-72

In process as 72-23-0839

Dec 72

JUN 1969, vol 10, nr 6, pp 1001-1003

In process as

HS-23-71-1004

*MS
25/71*

Propagation of Light Beams in Inhomogeneous
Anisotropic Media..

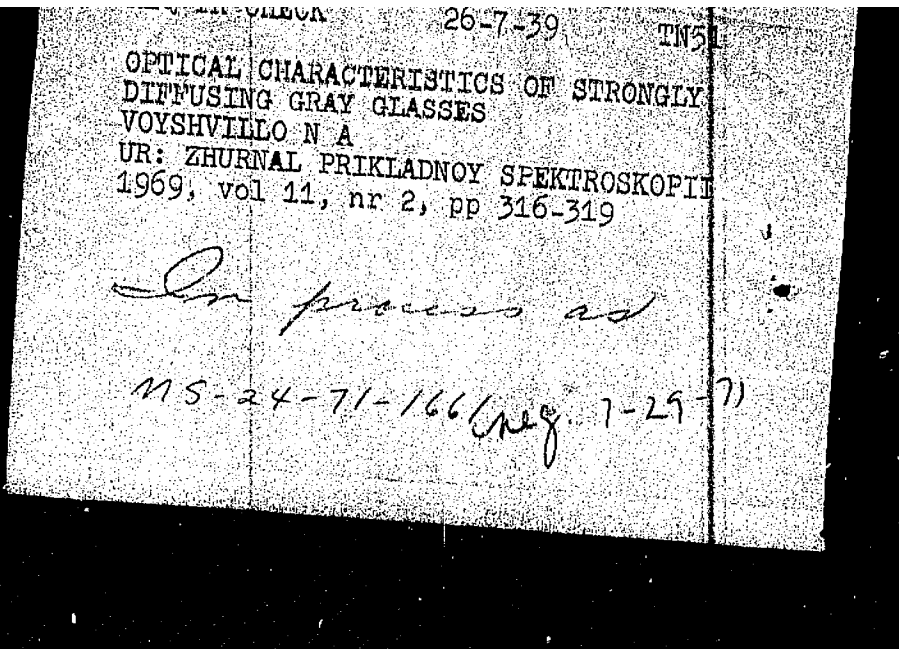
By N. A. Gusak, A. M. Goncharenko

RUSSIAN, per, Zh. Prikl. Spekr. Vol.11,
No. 2, 1969, pp. 237-241

CIA X-7126

Dec 69

397,481



Working Level Populations in an Argon Laser, by
F. A. Korolev, A. I. Odintsov, et al.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopiy,
Vol 11, No 2, 1969, pp 351-354.
FTD INT Special 359-70

Sci-Mat
Dec 70

Destruction of Graphite in a Low-temperature Air Plasma Flow.
By A. B. Karasev, T. V. Kondranin
RUSSIAN, per, Zh. Prikl. Spekr., Vol. 11,
No. 3, 1969, pp. 403-407.
CIA X-7148

Dec 69

398,814

N. I. Yustchenkova

Chemical and Vibrational Relaxation in
Supersonic Carbon Dioxide Flows.

RUSSIAN, per, Zhurnal Prikladnoi Spektroskopii,
Vol. 11, 1969, pp 417-424.

NTC 72-13995-201

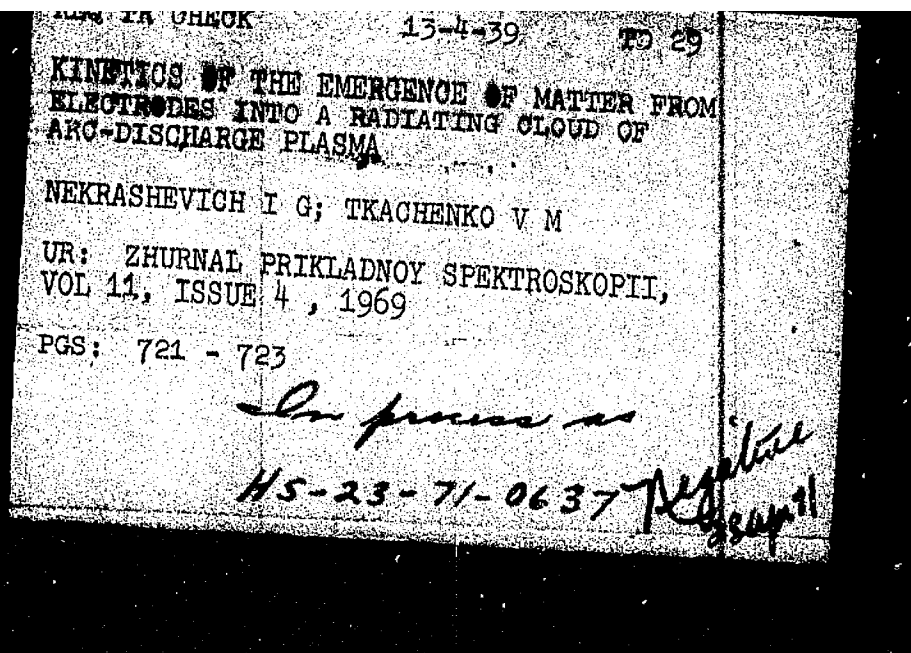
Nov 72

N71-12049*# Translation Consultants, Ltd., Arlington, Va.
SOME CHARACTERISTICS OF THE LASER BEAM EROSION
OF MATERIALS [NEKOTORYYE OSOBENNOSTI EROZII
MATERIALOV PRI VOZDLYSTVII IZLUCHENIYA OKO]
O I Putrako et al Washington NASA Dec 1970 10 p refs
Transl into ENGLISH from Zh Prikl. Spektroskopi. Akad. Nauk
Belorussk. SSR (Minsk), v. 11, no. 4, Oct 1969 p 617-622
(Contract NASw-2038)

(NASA-TT-F-13338) Avail: NTIS CSCL 20E

Space distribution of condensed matter ejected from metals subjected to laser radiation erosion was investigated to improve spectral analysis sources with simultaneous use of electrical discharge. Laser pulse energy was 7 j and the light was coned by means of a lens. Angular distribution of matter ejected was measured for Cu alloys, Zn, Fe, Fe-Si, Pb, Sn, Al, Mg, and W condensed on a glass plate situated perpendicularly to the laser beam. Maximum density of the condensed material and the angular position of this maximum were plotted as a function of the melting point of the material. Chemical composition of the sample corresponds to that of the ejected material. An arrangement of electrodes for spectral analysis carried out during simultaneous laser function and discharge was proposed.

Author



Strong High - Frequency Discharge of a Toroidal
Form, by A. I. Akishin.
RUSSIAN, per, Zhurnal Prikladnoi Spektroskopii,
vol. 11, no. 4, 1969, pp. 724-725.
NTPC 71-10919-20F

August 71.

Infrared Radiation of a Discharge Applicable to
a Carbon Dioxide Laser, by Ye. N. Lotkova,
V. N. Oehkin.
RUSSIAN, per, Zhurnal Prikladnoy Spektrosk,
Vol 11, No 4, 1969, pp 739-741.
FTD HT Special 258-70

Sci.-Phys
Sep 70

REQ TR CHECK

29-3-29

TA73

METHODS FOR CONCENTRATING AND ELIMINATING
THE EFFECT OF THIRD COMPONENTS DURING
CHEMICAL SPECTROGRAPHIC DETERMINATIONS
ZHIVOPISTSEV V P; MAKHNEV YU A
UR: ZHURNAL PRIKLADNOY SPEKTROSKOPII,
1969, vol 11, nr 5, pp 779-782

In process as

45-23-71-0620

*Negative
16 Apr 71*

TUNABLE ORGANIC DYE LASERS WITH DISPERSION
RESONATORS
KRAVCHENKO V. I.
UR: ZHURNAL PRIKLADNOY SPEKTROSKOPII
1969, vol. 11, nr 5, pp 796-804

On process as

MS-24-71-163

*Allegretto
10/9/71*

Competition of rotational transitions in a
carbon dioxide laser, by V. P. Kabashnikov.
RUSSIAN, per, Zhurnal Prikl. Spektrosk, Vol 11,
No 5, 1969, pp 805-811
FTD HT Special 324-70

sci
nov 70

Method for Calculating the Population and the
Excitation Rates of the Working Levels in a
Co₂ Laser, by P. A. Bykov.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopiy,
Vol 11, July 1969, pp 30-34.
FTD HT Special 198-70

Sci-Phys
Jul 70

Efficiency of Neodymium-activated Glass Laser as a
Function of Active and Inactive Absorption by the
Glass, by I. M. Buzhinskiy.

RUSSIAN, per, Zhurnal Prik Spektroskopiy, Vol 11,
July 1969, pp 67-72.

FTD HT Special 211-70

Sci-Phys

Jul 70

Chemical and Vibrational Relaxation in Supersonic Carbon Dioxide Flows, by N. I. Yushchenko, et al.

RUSSIAN, per, Zhurnal Prikladnoy Spektroskopiy, Vol 11, No 9, 1969, pp 417-424.

*NASA TP F 12,922

sci. astron
apr 70

A Study on the Mechanism of the Discharge
From a Hot Hollow Cathode II,
by O.P. Semenova and T.M. Gorbunova
RUSSIAN, per, Zh. Prikladn. Spektrosk.,
Vol. 11, pp. 487-492 (Sept. 1969)
O.A./Trans.- 1050

FEB 71

The Multilayered "Black Mirror", by M. M. Koltun.
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii, Vol 12,
Feb 1970, pp 350-352. 8pp
NASA TT F 14,183
FTD-HS-23-71-0621

apr 71

Comparison of Methods of Longitudinal Mode Selection
of an Optical Cavity, by Yu. V. Troitskii.

RUSSIAN, per, Zhurnal Prikladnoi Spektroskopii,
vol. 12, no. 3, 1970, pp.425-431.

NTC 71-11011-20F

7-7355

August 71