

Vizbarayte, Ya. I., Kantserovichyus, A. I. and
Yutsis, A. P.

Foks Self-Consistent Field for an Excited Helium Atom.

RUSSIAN, per, Optika i- Spektroskopiya, Vol. I, 1956,
pp. 9-16.

*PL 480
OTS 61-11437

Nov 61

Dissociation Energies of Oxides of Magnesium, Calcium,
Strontium, and Barium, by I. V. Veits, L. V. Gurvich,
21 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol I, 1956,
pp 22-33. 9093617

AEC UCRL Tr-⁷206

Sci - Phys
Dec 61

177,445
OTS 62-18331

Vibration Spectra of Diphenyl and Decadeutero-
Diphenyl, by G. S. Landsberg, A. I. Shatenshteyn,
G. V. Peregodov, Ye. A. Izpailevich, L. A.
Novikova, 9 pp.

RUSSIAN, no per, Optika i Spektroskopiya, Vol I,
No 1, 1956, pp 34-40.

US JPRS/DC-L-932

SCI - Engineering

75,567

The Dispersion of Air in the Visible Region of
the Spectrum, by V. P. Karonkevich, 8 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol I,
No 1, 1956, pp 85-89.

Sci - Geophysics
May 57 CTS/dex

Sci Mus Lib Tr 56/3879
SLA R 1615
47,506

A Contact-Free Interference Method of Checking
Spherical Lens Surfaces, by Yu. V. Kolomitzov,
I. I. Dukhopel, 7 pp. UNCLASSIFIED

RUSSIAN, per, Optika i Spektroskopiya, Vol I, No 1,
1956, pp 94-101.

Sci Mus Lib
Tr 57/4179

OTS - 63 - 23389

Sci - Phys
Apr 58

62,287

Bonch-Bruевич, A. M. and Molchanov, V. A.
A NEW RELATIVISTIC OPTICAL EXPERIMENT.
[1963] 22p 30refs
Free copies available from Boeing Scientific Research
Labs. Library as Boeing Trans. R23. When supply is
exhausted, order from OTS or SLA \$2.60 63-20239

Trans. of Optika i Spektroskopiya (USSR) 1956, v. 1,
no. 2, p. 113-124.

DESCRIPTORS: *Light, Motion, *Velocity, Solar
radiation, *Relativity theory, *Optics.

The article deals with the direct experimental ver-
ification of the relativistic thesis concerning the in-
dependence of the velocity of light and the velocity of
the source of radiation relative to the observer. The
experimental setup is described and the results are
given of a comparison of the times of travel over a
(Physics--Optics, TT, v. 10, no. 11) (over)

63-20239

I. Bonch-Bruевич, A. M.
II. Molchanov, V. A.
III. Boeing Trans-R23
IV. Boeing Scientific Research
Labs., Seattle, Wash.

Office of Technical Services

Transfer of Excitation Energy in Anthracene
Crystals Containing Naphthalene as Impurity,
by M. D. Galanin, Z. A. Chishikova, 8 pp.
UNCLASSIFIED

RUSSIAN, per, Optika i Spektroskopiya, Vol I,
No 2, 1956, pp 175-180. CIA 9032848

ACSIL 997

Sci - Chem
Oct 58

74, 829

Optical Properties of Uranium Hexafluoride. I.
Absorption Spectra in the Visible and Neighboring
Ultraviolet Region, by G. D. Sheremet'ev, 13 pp.

RUSSIAN, per, Optika i Spektro, Vol I, 1956,
pp 181-189.

GAT-2
-4077

Sci - Phys
Jan 60

104,905

Formal Analysis of the Theory of Two-Stage
Excitation of Phosphorescence and Photoconductance,
by N. A. Tolstoy, A. V. Sbatilov, 16 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol I,
No 2, 1956, pp 216-229.

Acq I-8143
ID 2216561

OTS 63-11579 sub 62-16522

224,840

Sci - Phys
Mar 63

Table of Contents

RUSSIAN, per, Optika i Spektroskopiya, Vol I, No 3,
1956.

Morris D. Friedman

CIA/FDD X-2213

CIA/FDD/X-2493

The Effect of Changes in the Pressure of Argon on
the Reproducibility of the Wavelength of the Red
Line of Cadmium 114 in an Electrodeless Discharge,
by N. D. Batarukhova, G. B. Dubrovskiy,

RUSSIAN, no per, Optika i Spektroskopiya, Vol I,
No 3, 1956.

US Dept of Commerce
Nat'l Bureau of Standards

Sci - Physics; Electricity
Dec 56 CTS

41,183

Handwritten: 41,183

Handwritten: AS41B GB 29

The Fock Self-Consistent Field in the Multicon-
figuration Approximation for the Helium Atom,
by Ia. I. Vizbaraitė and V. I. Shironas, et al,
FOR OFFICIAL USE ONLY
RUSSIAN REF] Optika i Spektroskopiya, Vol I, No 3,
1956, pp 277-281. 100007066
AFCRL T-R-471

Sci-
Sept 66]

309,104

The Multiconfiguration Approximation for Atomic
Species of Helium Type, by Ia. I. Vizbaraitė
and V. I. Kavetskis, et al,
FOR OFFICIAL USE ONLY
RUSSIAN, per, Optika i Spektroskopiya, Vol I,
No 3, 1956, pp 282-284. 100007066
AFCL T-R-472

Sci-
Sept 66

309,105

Theory of the Hyperfine Structure of the Rotatory
Spectra of Molecules Specified by an Electric
2⁴-pole nuclear moment, by N. G. Basov, A. N.
Oracvskii, by K. Svikzinskii, 8 pp.

RUSSIAN, per, Optika i Spektro, Vol I, No 3,
1956, p 285-289.

Morris D. Friedman
B 128 \$4.00

Sci

Jul 58

68,742

Shape and Width of Lines in d.c. Arc Spectra, by
V. P. Kitayeva, N. N. Sobolev, 22 pp.

RUSSIAN, par, Optika i Spektroskopiya, Vol I,
No 3, 1956, pp 302-320.

Sci Mus Lib Tr 57/3150
AERE Harwell Lib Tr 712

Sci - Physics
Mar 58

60,528

SLA R-2049

On the Problem of the Mechanism of the Discharge
in the Hollow Cathode, by V. A. Gromov, 5 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol I,
1956, pp 334-337.

ABC Tr-4306

Sci - Phys
21 Feb 61

140, 910

Theory of the Intrinsic Optical Activity of
Molecular Crystals. I. Classical Theory,
by B. M. Agranovich, 18 pp.

RUSSIAN, see, Optika i Spektroskopiya USSR, Vol. 1,
No 3, 1955, pp 350-347.

SLA 59-15176

Sci
Jan 60
Vol 2, No 7

104,700

Disturbances in the Transfer of Excitation Energy
in Solid Solution of Naphthalene in Anthracene,
by A. N. Faidysh, I. Ya. Kuchernov, A. A. Terskiy,
6 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol I, 1956,
pp 403-406.

7
AEC Tr 3500
SLA R-3066

Sci - Phys

84,237

A Study by Infrared Absorption Spectra Methods of Inter-
actions Between Molecules and Silica-Alumina and
Silica Gel Surfaces, by V. N. Filimonov, 11 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol I, No 4,
1956, pp 490-499.

ATS-37J17R

Sci

Aug 59

93,585

Spectroscopic Investigation of the Reaction
of Benzidine with the Surfaces of Bentonite-
Aluminosilica Gel and Silica Gel, by E. I.
Kotov, 7 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol I,
No 4, 1956, pp 500-506.

MS-52J16

Assess Tech
Serial 71,200

Sci

Aug 58

Recording Spectrometer for the Long-Wave-
length Infra-Red Range, by N. G. Yaroslavskiy.
RUSSIAN, per, Optika i Spektroskopiya, Nol 1,
No 4, 1956, pp 507-515.
NLL Ref: 5828,4 1965 (11150)

Sci-Phys
June 66

301,493

On the Raman Spectra of Complex Compounds of
Antimony Trichloride With Benzene and Some of
Its Derivatives, by Sh. S. Raskin.
UNCLASSIFIED

RUSSIAN, per, Optika i Spektroskopiya, Vol I,
No 4, 1956, pp 516-522. 9676681

Navy 2042/REL 708

Sci - Physics
Mar 59

83,023

luminescence of Aromatic Aldehydes and Ketones,
by V. L. Yermolayev, 34 pp.
RUSSIAN, per, Opt Spektrosk, No 1, 1956, pp 523-535.
AEC/UCRL-Tr-10371

70-10449-07 *NTC*

Sci/Chem
Mar 70

402,644

The Effect of Foreign Gases on the Spectra
and on Fluorescence Yield of Vapors of
Aromatic Compounds, by N. A. Borisevich,
B. S. Neporent, 10 pp.

RUSSIAN, per, Optika i Spektroskopiya,
Vol I, No 4, 1956, pp 536-545.

ATS-10M38R

ATS/RJ-2 550

187, 186

Mar 62

Double Monochromator With Diffractor Gratings, by
B. A. Kiselev.

RUSSIAN, per, Optika i Spektroskopiya, Vol I, No 4,
1956, pp 597-599.

DSIR/30314/CT

Sci - Physics
Feb 58

58,861

Yutsis, A. P., Ushpalis, K. K., Kavetskis, V. I. and
Levinson, I. B.

Polar Strength of the Dipole at the Approach of
Incomplete Separation of the Variables for 2-Electron
Atoms.

RUSSIAN, per, *Optika i Spektroskopiya*, Vol. I, 1956,
pp. 600-605.

*PL 480
OTS 61-11437

Nov 61

Investigation of the Discharge Parameters and the
Character of the Excitation of Ion Lines at High
Current Densities, by V. M. Zakharova, Yu. M.
Kagan, 12 pp. UNCLASSIFIED

RUSSIAN, per, Optika i Spektroskopiya, Vol I,
No 5, 1956, pp 627-635. CIA 9032849

ACBYL 998

Sci - Phys
Oct 58

74, 830

Investigation of the Brightness of the Channel of
a Spark Discharge in ~~Am~~ Atmospheres of Argon and
Xenon, by M. P. ~~Vanyuk~~ Vanyukov, A. A. Mak, 21 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol I, 1956,
pp 642-649.

AEC NP Tr-898

Sci - Geophysics
Aug 62
List 61

206,108

Absorption Spectrum of Liquid Oxygen and of
Its Mixtures With Nitrogen in the Region
10,600-2800 Å, by V. I. Dianov-Klovov, 15 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol I,
1956, pp 650-657.

ARC Tr-4319

Sci - Chem
21 Feb 61

140, 923

RUSSIAN TO FRENCH
OTS TT-62-28596

Absorption of UV Irradiation by Water, by N. P.
Grudinkina, 8 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol I,
1956, pp 658-662.

AEC Tr 4358

Sci - Chem

Jun 61

154,792

Representation of Optical Characteristics of
Absorbing Media in the Infrared Region Using
a Resonator With Viscous Friction, by L. D. Kislovskiy.
RUSSIAN, per, *Optika i Spektroskopiya*, Vol 1, No 3,
1956, pp 672-684.
NASA TT F-9405

Sci-Phys
Aug 65

286,319

Absorption Spectrum of Liquid Oxygen in Argon-Crypton Mixtures, by V. J. Dianov-Klokov,

RUSSIAN, per, Optika i Spektroskopiya, Vol I, 1956, pp 763-766.

*AEC

Sci - Chem
12 Oct 60

List 44

Relative Values of Forces of Oscillators in Spectra
of Titanium and Manganese, by Yu. I. Ostrovskiy,

RUSSIAN, per, Optika i Spektroskopiya, Vol I, No 7,
1956, pp 821-832.

*Engr Res Devel Lab Ft. Belvoir

Sci - Phys

T-1460

Sep 61

Anomalous Scattering of Light on
Glass, by A. L. Kolyadin.
RUSSIAN, per, Optika i Spektroskopiya,
Vol 1, No 7, 1956, pp. 907-16.
NLL Ref: 9022.81 (2499)

Sci-Phys
July 69

377,407

Absorption Spectrum of Liquid Oxygen in
Argonne and Krypton Mixtures (11000-3300 Å),
by V. I. Dianov-Klokov, 11 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol I,
1956, pp 863-866.

AEC Tr-4314

OTS 62-26301

Sci - Eng Chem
24 Feb 61

141,067

Influence of Reabsorption on the Quantum Yield of
the Luminescence of Solid Solutions of Organic
Compounds, by V. M. Agranovich, A. N. Faidish,
13 pp. UNCL

RUSSIAN, per, Optika i Spektroskopiya, Vol I,
No 7, 1956, pp 885-895. CIA 9036666

ACSIL 994

(LOAN)NLL REF. 0578.9 1958 (994)

Sci - Phys
Mar 59

82,063

Optics of Magnetic Crystals. I. Equations of the
Normals, by F. I. Fedot v. UNCLASSIFIED

RUSSIAN, per, Optika i Spektros, Vol I, No 7, 1956,
pp 926-936.

Sci - Physics
Mar 58

~~Morris D. Friedman~~
MIT Lincoln Lab

60,540

Spectral Analysis of Iostopic Compositions of
Hydrogen-Deuterium Mixtures, by G. V. Weinberg,
A. N. Zaidel, A. A. Petrov, 15 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol I,
1956, pp 972-982.

AEC/IGRL-T/CA-111

Sci - Phys

Oc5 59

Migration and Transmission of Electron Excitation
Energy From the Base Material to the Impurity
in Molecular Crystals in the Presence of Two Types
of Excitations, by V. M. Agranovich, A. N. Faydysh,
7 pp. URCL

RUSSIAN, per, Optika i Spektro, Vol I, 1956,
pp 983-987. CIA 9037938

ACSIL 995

Sci - Phys
Apr 59

84,766

Absorption and Luminescence of Divalent Rare-Earth
Ions in Crystals of Artificial and Natural Fluorite,
by P. P. Feofilov, 9 pp.

RUSSIAN, per, Optika i Spektro, Vol I, No 8,
1956, pp 992-999.

MDF F-127
9092711

Sci

Oct 61

Table of Contents only

RUSSIAN, mo per, Optika i Spektroskopiya, Vol II,
No 1, 2, 1957.

CIA/FDD X-2512

Morris D. Friedman

The Problem of the Mechanism of the Interaction of Particles in a Discharge Plasma, by E. F. Kozyreva.

RUSSIAN, per, Optika i Spektro, Vol II, No 1, 1957, pp 43-48.

TEL/T.5210

175,999

Sci - Physics

Dec 61

Optical Properties of Uranium Hexafluoride, II.
Photoluminescence and Its Temperature Dependence,
by G. D. Shermat'ev, 7 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol II, No 1
1957, pp 99-106, 9206064.

AEC/AERE Tr 923

Sci - Phys

May 63

730,684

Luminescence Decay Time of Colour Centres in
Ionic Crystals, by A. M. Bonch-Bruевич, G. A.
Tishchenko.

RUSSIAN, per. Optika i Spektroskopiya, Vol 2,
No 1, 1957, pp 136-140.

F911337667

AEC NP-TR-1566

Sci-Chem

Nov 67

343,659

Bonch-Brouevich, A. M.
 REMARKS ON THE TREATMENT OF THE RESULTS
 OF A DIRECT EXPERIMENT PROVING THAT THE
 VELOCITY OF LIGHT IS INDEPENDENT OF THE
 VELOCITY OF A SOURCE OF RADIATION (K Vop-
 rosu ob Obrabotke Rezul'tatov Pryamogo Opyta po
 Proverke Nezavisimosti Skorosti Sveta ot Skorosti
 Istochnika Izlucheniya) tr. by J. Hardy. [1962] [6]p.
 (foreign text included). 3 refs. [CSIRO] Trans. 5703.
 Order from OTS or SLA \$1.10 62-23722

Trans. of Optika i Spektroskopiya (USSR) 1957, v. 2,
 no. 1, p. 141-142.

DESCRIPTORS: *Light, Velocity, Sources, Probability,
 *Relativity theory.

An analysis of previous experimental results (Doklady
 Akad. Nauk SSSR 109: 481, 1956 and Optika i Spektro-
 skopiya 1: 113, 1956) shows that the probability that
 (Physics--Optics, TT, v. 8, no. 4) (over)

62-23722

- I. Bonch-Brouevich, A. M.
- II. CSIRO Trans-5703
- III. Commonwealth Scientific
 and Industrial Research
 Organization (Australia)

Office of Technical Services

On the Basic Electron State of Oxides of Molecules
of Group II Elements, by I. V. Veits, L. V.
Gurvich, 14 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol II,
No 2, 1957, pp 145-149.

ABC UCRL-Tr-707

Sci - Phys
Feb 62

OTS 62-167ff
182,533

Tolstol, N. A.

KINETICS OF INFRARED LUMINESCENCE OF COPPER OXIDE. II. THEORETICAL INTERPRETATION, tr. by B. W. Kuvshinoff. 27 Aug 62, 16p. 7 refs. APL/JHU TG 230-T326.
Order from OTS \$0.50

63-11515

Trans. of Optika i Spektroskopiya (USSR) 1957, v. 2, no. 2, p. 210-219.

DESCRIPTORS: *Copper compounds, Oxides, *Infrared radiation, *Luminescence, Theory, Photoconductivity.

Three possible interpretations are discussed of the anomalous time-temperature increase in the relaxation of Cu_2O luminescence: (1) the effect of temperature on mobility, (2) the effect of the "heat barrier," and (3) the exciton mechanism of luminescence. The last is considered to be the most likely. (Author)
(Physics, TT, v. 9, no. 3)

63-11515

- I. Tolstol, N. A.
- II. Title: Theoretical ...
- III. APL/JHU TG-230-T326
- IV. Applied Physics Lab.,
Johns Hopkins U.,
Silver Spring, Md.
- V. Contract N0w-62-0604-c

Handwritten: Navy 20 3415/APL 320

Office of Technical Services

New Methods of Investigation of Relaxation
Processes and Trapping Centers in Crystal
Phosphors, by Ch. B. Lushchik, 14 p.

RUSSIAN, per, Optika i Spektroskopiya, 1957,
Vol. II, No 2, pp 220-228.

Sci
Jan 60
Vol 2, No 5

SLA 59-15487

CIV/DO XX-152

USIS Intern

108,616

NLL m. 2441

Calculation of a Thin Multilayer Plate and a One-^s
Layer Plate with an Effective Refractive Index,
by A. A. Vasil'kovskiy, 13 p.

RUSSIAN, per, Optika Spektroskopiya, 1957, Vol II,
No 2, pp 229-235.

SLA 59-20505

Sci
Mar 60
Vol 2, No 12

109,259

The Analytical Theory of Optical Properties of
Multi-Layer Dielectric Coatings, by P. G. Kard, 15 p.

RUSSIAN, per, Optika i Spektroskopiya, 1957, Vol II,
No 3, pp 236-244.

SIA 59-20506

S4A 62-10971

Sci
Mar 60
Vol 2, No 12

109,258

NK 10 1184576

Kard, P. G.

THEORY OF MULTILAYER COATINGS ON LENSES
FOR INCREASING THE TRANSMITTANCE OF LIGHT
[1962] 12p. 1 ref.

Order from OTS or SLA \$1.60

62-10986

Trans. of Optika i Spektroskopiya (USSR) 1957, v. 2,
no. 2, p. 245-253.

DESCRIPTORS: *Coatings, *Dielectric films, *Optics,
Light transmission, Reflection, Penetration, *Lenses.

The previous theory (Optika i Spektroskopiya 2; 236-244,
1957; available in translation from OTS or SLA \$1.10
as 62-10971) is used for calculating multilayer coatings
for increasing the light transmittance of a lens. New
simple formulas are derived and a graph is suggested.
An optimum composition for 2-, 3-, and 4-layer
coatings, which promote light transmittance over the
(Physics--Optics, TT, v. 8, no. 5)

(over)

62-10986

I. Kard, P. G.

NEW 118954

Office of Technical Services

Krylova, T. N. and Sokolova, R. S.
ACHROMATIC REFLECTION-REDUCING FILMS.
1961, 8p.

Order from CTT \$16.00

CTT-61P101

Trans. of Optika i Spektroskopiya (USSR) 1957, v. 2
[no. 2] p. 254-262.

DESCRIPTORS: *Photographic film, Films, Reflec-
tion, Reduction, Materials.

(Materials--Photographic, TT, v. 7, no. 12)

62-12978

- I. Title: Achromatic film
- I. Krylova, T. N.
- II. Sokolova, R. S.
- III. CTT-61P101
- IV. Columbia Technical
Translations, White
Plains, N. Y.

Office of Technical Services

Reflection of Light from a Liquid Surface and
Its Connection with the Process of Crystallization
by V. A. Kizel', A. P. Stepanov, 13 p.

RUSSIAN, per, Optika i Spektroskopiya, 1957,
Vol II, No 2, pp 253-268.

SLA 59-20362

Sci
Mar 60
Vol 2, No 12

109,261

English Title Unknown, by P. A. Teplyakov.
RUSSIAN, per, Optika i Spektroskopiya, Vol 2,
1957, pp 269-271.
NLL REF: 5413.2835 (MUL-tr-95)

Sci-Chem
Aug 68

361,708

Table of Contents of

Optika i Spektroskopiya, Vol II, No 3, 1957, pp285-
406.

FDD X 2624

Spectrum of Ionized Uranium, by N. G. Morozova,
G. P. Startsev, 4 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol II,
1957, pp 282-284. ~~SM~~ 9077950

AEC-tr-4596

Sci - Phys

Aug 61

List 5*

160,421

On the Motion of Ions and the Contour of Their
Lines in the Positive Column of the Discharge.
I. The Directed Movement of Ions in a Discharge
of Low Pressure, by Yu. M. Kagan, V. I. Perel,
10 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol II,
1957, pp 298-303.

AEC NP-70

Sci-Euc Phys

Dec 58

77,953

Absorption Spectra of Benzene Crystals at
200 μ l, by V. L. Broude, V. S. Medvedev,
10 pp.

RUSSIAN, per, Optika i Spektroskopiya,
Vol II, No 3, 1957, pp 317-322.

SLA 60-21768

Sci
Vol IV, No 7
May 62

193, 679

The Effect of Deformation on the Spectra of
Crystals, by V. L. Broude, O. S. Pakhomova, A. F.
Prikhotko, 8 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol II,
No 3, 1957, pp 323-329.

ATS 26J18R
SLA R-3185

Sci
Jul 59

93,041

Optics of Isotropic Crystals. II. Birefringence and
Biradials. Optical Surfaces, by F. I. Fedorov.

USSR, Optical Spectroscopy, Vol. II, No 3, 1957,
pp 361-470.

3

~~Morris D. Friedman~~
MIT Lincoln Lab

Sci - Physics
Mar 58

60,541

Effect of the Solvent on the Fluorescence and
Absorption Spectra of Some Phthalimide Deri-
vatives, by V. V. Zelinskiy, et al,
RUSSIAN, per, Opt. i Spektroskopiya, Vol II,
1957, pp 402-405.
ATS NJ-4657

Sci-Phys
Apr 67

321,522

Table of Contents of

Optika i Spektroskopiya, Voll II, No 4 ,1957, pp
409 - 544.

FDD X 2624

Temperature Distribution in a Spark Discharge Plasma
at High and Low Voltage, by D. B. Gurevitch, V. K.
Prokof'ev, 11 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol II, 1957,
pp 417-420.

AEC CEA Tr R375

REVERSE Trans Russian to French
Feb 59

Analysis of Halogens in Non-Volatile Oxides, by M. P.
Chaika, b 14 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol II, 1957,
pp 421-425.

AEC CEA Tr R469

Reverse Trans Russian to French
Feb 1959

Dependence of the Luminescence Yield of Plastic
Scintillators With Triphenylpyrazoline on Tempera-
ture, by I. M. Rozman, 11 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol II,
1957, pp 480-487.

ABC Tr 3568

Sci - Phys

May 59

86,143

Optics of Magnetic Crystals. III. Uniaxial and
Unirefractive Magnetic Crystals, by F. I. Fedorov.

RUSSIAN, per, Optika i Spekr, Vol II, No 4, 1957,
pp 514-523.

~~Morris B. Friedman~~
MIT Lincoln Lab

Sci - Physics
Mar 58

60,542

Luminescence Yield of Scintillators in Plastic Material
with Triphenylpyrazoline as a Function of Temperature,
by I. M. Rozman, 17 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol II, 1957,
pp 480-487.

~~X~~
ABOCEA Tr R381

Reverse Trans Russian to French
Feb 59

**Luminescence Spectra of Plastic Scintillators
With Triphenylpyrazoline, by E. A. Andreyashchev,
I. M. Rozina, 8 pp.**

**RUSSIAN, per, Optika i Spektroskopiya, Vol II,
1957, pp 488-493.**

AEC Tr 3571

Sci - Phys

May 59

86,144

Some Problems Of Spectrophotometry Of Light-
scattering Media by A.P. Ivanov.

RUSSIAN, per, Optika I Spektroskopiya, Vol II,
No 4, 1957, 524-529.

CSIRO Tr 4096

Oct. 62

Device for Observing Anomalous Dispersion in
Rapid Processes, by A. M. Shikhtin, V. S. Egorov.

RUSSIAN, per, Optika i Spektroskopia, Vol II,
No 4, 1957, pp 53 543-544.

Navy Tr 3457/AFL 349

Sci - Engr
Aug 63

341,567

Table of Contents of:

Optika i Spektroskiptiya, Vol II, No 5, 1957,
pp 545 -681/

FDD X 2624

Theory of Impurity Light Absorption in Molecular Crystals by E. I. Rashba, 12 pp.

RUSSIAN, per, Optica i Spektroskopiya, Vol II, 1957,
pp 568-577.

AEC-tr-5967

Sci - Phys
Oct 63

Structure of Alkali-Halide Phosphors
and Mechanism of Luminescence Process,
by L. M. Shamovsky, et al, 6 pp.

RUSSIAN, per, Optika i Spektroskopiya,
Vol II, 1957, pp 599-605.

CSIRO

Sci - Chem
Nov 61

174,409

Atomic Absorption and Luminescence Centers in
Alkali Metal Halide Phosphors Activated by Heavy
Metal Ions and Their Formation Under the Effect
of Hard Radiation, by M. L. Kats.
RUSSIAN, per, Optika i Spektroskopiya,
Vol 3, No 6, 1957, pp 602-609.
Dept of Navy APL/JHU T-2168

Sci/Nucl Sci
Nov 68

368,515

Electrophotometric Investigations of Night Sky
Brightness, by S. F. Rodionov, 16 pp. UNCLASSIFIED

RUSSIAN, no per, Optika i Spektroskopiya, Vol II,
No 5, Leningrad, May 1957, pp 606-615.

US JPRS/NY-L-26

Sci - Physics
Mar 58

59,151

Shklyarevskii, I.N. and Ryazanov, A.N.
DISPERSION DE LA SAUTÉ DE PHASE DES PELLICULES MINCES D'ALUMINIUM (Dispersion of the Phase Jump in Thin Aluminum Films). 14p. 13refs.
CNRS-XVIII 62.
Order from OTS, ETC or CNRS \$1.60 TT-62-28870

Trans. in French of Optika i Spektroskopiya (USSR) 1957, v.2, no.3, p.643-650.

DESCRIPTORS: *Metal films, Aluminum, Zinc compounds, Sulfides, Phase studies, Spectroscopy.

(Physics --Spectroscopy, TT, v. 11, no. 9)

TT-62-28870

I. Shklyarevskii, I.N.
II. Ryazanov, A.N.
III. CNRS-XVIII 62
IV. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
European Translations Centre

Double Refraction of Fluoride Films,
by K. D. Sineinikov, et al, 6 pp.

RUSSIAN, per, Optika i Spektroskopiya,
Vol II, No 5, 1957, pp 651-657.

CSIRO

Sci - Phys
Nov 61

174,410

New Method of Exciting Spectra in an Atomic Beam
by V. ^AGromov, 4 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol II,
1957, pp 669-671.

AEC Tr 3508

Sci - Nuc Phys
Feb 59

81,287

Relative Quantities of the Pricipa; Terms of the
Diffusion and Cutting Series AL 1, by Yu. I. Ostrovski.

RUSSIAN, Optika i Spek, Vol ii, 1957, p 673.

*PL480

VOL 6, No 10

Listsa, M. P. and Tsvelykh, N. G.
OPTIQUE DES COUCHES FINES. DÉPHASAGE DANS
LA RÉFLEXION DE LA LUMIÈRE PAR LES COUCHES
MINCES D'ARGENT, DE GERMANIUM DE TELLURE
ET DE SÉLÉNIUM (Optics of Thin Films. Dephasing
in the Reflection of Light by Thin Films of Silver,
Germanium, Tellurium, and Selenium) tr. by
M. B. De Trezvinsky. 28 Dec 59 [8]p. 15 refs. CEA
Trans. no. R 794 (text in French).
Order from OTS or SLA \$1.10

61-23770

Trans. of Opt[ika] i Spektrosk[opiya] (USSR) 1957, v. 2,
no. 5, p. 674-676.

DESCRIPTORS: *Thin films, *Optics, USSR, Phase
studies, Light transmission, Reflection, Silver,
Germanium, Tellurium, Selenium, Metal films.

(Physics--Optics, TT, v. 6, no. 6)

61-23770

- I. Listsa, M. P.
- II. Tsvelykh, N. G.
- III. CEA-tr-R794
- IV. Commissariat à l'Énergie
Atomique (France)

176683

Office of Technical Services

On Concentrations of Excited Atoms of Neon in
a Discharge in a Hollow Cathode, by I. P.

Bogdanova and Chen Gi-Tkhak.

RUSSIAN, per, Optika i Spektroskopiya, 1957,

Vol 2 No 6, pp 681-688.

NLL RTS 2456 (On Loan or Purchase)

CFSTI TT 64-19965

Aug 65

288,795

Absorption Spectra of Crystals of Plutonium Salts,
by A. M. Leontovich, 11 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol II, 1957,
pp 695-703.

AEC Tr 3716

Sci - Phys

Sep 59

96,338

Table of Contents only of:

RUSSIAN, per, Optika i Spektroskopiya, Vol II, No 6,
Jun 1957.

CIA/FDD X-2608

Nov 57

Infrared Spectrum and Structure of the
Phosphorus Trioxide Molecule, by F. A.
Sidorov, et al. UNCLASSIFIED

RUSSIAN, per, Optika i Spektrosk., Vol II,
No 6, 1957, pp 710-716.

Co-Op Tr Sep
Tr 457

79,076

Sol - Exam Phys
Sep 58

Infrared Spectrum and Structure of the
Phosphorus Pentoxide Molecule, by T. A.
Sidarov, et al. UNCLASSIFIED

RUSSIAN, per, Optika i Spaktro, Vol II, No 6,
1957, pp 717-723.

Co-Op Tr Ser
Tr 458

Sci - Phys
Sep 58

73,077

Theory of the Intrinsic Optical Activity of
Molecular Crystals. 2. Quantum Theory, by V. H.
Agranovich, 17 pp.

RUSSIAN, par, Optika i Spektroskopiya USSR, Vol II,
No 6, 1958, pp 738-746.

SLA 59-15359

also NTC

Sci
Jan 60
Vol 2, No 7

104,701

Akimov, A. I.
A NOMOGRAM FOR USE IN SPECTRUM ANALYSIS
OF RARE EARTH ELEMENTS BY THE ADDITION
METHOD (Primenie Raschetnogo Graduirovannogo
Grafika pri Spektral'nom Analize Redkozemel'nykh
Elementov po Metodu Dobavok). [1963] [9p] 7refs
Order from OTS, SLA, or ETC \$1.10 TT-63-23706

Trans. of Optika i Spektroskopiya (USSR) 1957, v. 2,
no. 6, p. 809-811.

Other translations are available from LC or SLA
mi\$1.80, ph\$1.80 as TT-59-22380 [1959] 9p; in French
from OTS or SLA \$1.10 as TT-61-23821, CEA-tr-R853,
22 Mar 60 [9p] *SI R551*

For abstract see Technical Translations 3: 388, 1960.

DESCRIPTORS: *Rare earth elements, Impurities,
Alloys, Spectroscopy, *Nomographs,
(Physics--Spectroscopy, TT, v. 11, no. 6)

TT-63-23706

I. Akimov, A. I.
II. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

A New Principle of Spectrometry, by N. G.
Bakhshiyev, 2 pp.

RUSSIAN, per, Optika i Spektroskopiya,
Vol II, 1957, pp 816-818.

AEC Tr 3530

Sci - Phys
Mar 59

82,892

Table of Contents only

RUSSIAN, per, Optika i Spektroskopiya, Vol III, No 1,
2, 3, 1957.

CIA/FDD X-2676

Dec 57

On the Theory of Electron Spin Resonance in F-Centers
in Ionic Crystals (Continuum Model of F-Center --
Smoothed Function, by M. F. Deigen, L. A. Shul'man.

RUSSIAN, per, Optika i Sptekro, Vol III, No 1, 1957.

9081055

Navy Tr 1926/F-14

Sci - Physics
Dec 58

78,026

Effect of Thermal Irradiation Background on
Spectroscopic Processes, by B. I. Stepanov, 12 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol III,
1957, pp 3-8.

AEC Tr-4519

Sci
Jun 61

155,956

Spectral Analysis by the Vaporization Method.
V. Analysis of Plutonium by the Vaporization Method
in Vacuum, by A. N. Zaidel', N. I. Kaliteyevskiy,
L. V. Lipis, 9 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol III,
1957, pp 16-20. 9093260

AEC UCRL Tr-766(L)

Sci - Chem
Apr 62

192,163

Optical Activity With Account Being Taken of the
Nonlinear "Saturation" Effect, by V. L. German,
E. A. Kaner, 6 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol III,
No 1, 1957, pp 68-72.

ATS-26M39R

ATS/RJ-2620

186,284

Feb 62

New Tables for Calculating Chromaticity
Coordinates, by N. V. Lobanova, G. N.
Bautian, 7 pp.

RUSSIAN, per, *Optika i Spektroskopiya*,
Vol III, No 1, 1957, pp 77-81.

CIA/FDD XX-577
NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Physics
Jan 59

NLL 11.2570

79,679

USIB INTERNAL USE ONLY

Ultraviolet Absorption Spectrum of Molecules of
Aromatic Amines, Adsorbed on Aluminosilica Gel,
Bentonite and Silica Gel, by E. I. Kotov.

RUSSIAN, per, Optika i Spektroskopiya, Vol III,
No 2, 1957, pp 115-122.

ATS RJ-1274

Sci - Chem
Apr 60

114,566

Study of Molecular Dichroism by Means of an
Artificial Orientation of the Molecules, by L. V.
Smirnov, 16 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol III, 1957,
pp 123-133.

AEC Tr. 3263

Sci - Chem

Sep 58

78, 715