

Nalbandyan, A. B.
MECHANISM OF THE PHOTOCHEMICAL OXIDATION
OF METHANE. [K Mekhanizmu Fotokhímicheskogo
Okisleniya Metana]. [1963] [15p] 6refs
Order from OTS, SLA, or ETC \$1.60 TT-63-20807

Trans. of [Zhurnal Fizicheskoi Khimii] (USSR)
1948, v. 22, no. 12, p. 1443-1453.
Other translations are available from SLA as R-02190,
14p; from NRCC as TT-114.

DESCRIPTORS: *Methanes, Oxidation, *Photochemical
reactions, *Reaction kinetics, Heat of activation,
Absorption, Oxygen, Mercury lamps, Hydrocarbons.

(Chemistry--Physical, TT, v. 11, no. 4)

TT-63-20807

I. Nalbandyan, A. B.
II. SLA R-02190
III. NRCC TT-114

Office of Technical Services

Zh Fiz Khim Vol. 21, No 12, pp 1461-9, 1948
52?

Phase changes of the II type and critical phenomena,
V. K. Semenchko

AEC/BNL/Tr 132

New Method for Calculating the Solubilities of
Electrolytes in Multicomponent Systems, by A.
B. Zdanovskiy, 22 pp.

RUSSIAN, *pr*, *Zhur Fiz Khim*, Vol XXII, 1948, pp
1478-1485, 1486-1495.

S/A 59-19094

SLA R-2129

Sci 1478-1485 DSVR Lending Lib Unit M-250

72, 219

Aug 58

On G. M. Panchenkov's Theory of the Viscosity of
Liquids, by A. L. Khein.
RUSSIANG, per, Zh. Fiz. Khim, Vol 22, No 12,
1948, pp 1513-1521.
NLL 5828.4F (11714)

Sci - Chem

~~Aug.~~ 67

Sept

338,644

Electron Microscope Studies of the Surface of
Working Contacts, by S. Z. Roginskiy, I. I.
Trem'yakov, A. B. Shekhter, 20 pp.

RUSSIAN, thrice-mo per, ⁴ Zhur Fis Khim, Vol
XXIII, No 1, 1949, pp 50-56.

CIA/FDD/X-1191

Scientific - Chemistry
CTS/DEX

9171

Dipole Moments and Vibrational Spectra
of Sulfinic Acids, by E. N. Gur-yanova
and Y. K. Syrkin, 12 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIII,
1949, pp 105-114.

SLA R-2157

Sci

Aug 58

72,171

Zhurnal Fiz. Khim.

Vol 23, # 2, pp 115-23 (42)

Theory of the Surface Tension of Metals
A.E. Glaubergerman

HEC 22. 286

13 204

Ca-1

GLAUBERMAN A. E.

On the theory of the surface energy of heteropolar crystals

Zhur. Fiz. Khim., 23, No. 2, 124-130 (1949)

TT 111 - English

E u r a t o m

AFC/ISNL/TR 118

(NY-4828)

Spatial Distribution of Precipitates on
Crystallization of Mutually Diffusing Substances,
by P. B. Afanas'yev, Ya. B. Zai'dovich, O. K.
Todes, 33 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIII, No 2,
1949, pp 156-179.

JPRS 7260

Sci - Phys

136,520

Jan 61

(NY 4828)

Mathematical Formulation of the Theory of
Periodic Precipitation, by Ya. B. Zel'dovich,
O. M. Todes, 18 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIII, No 2,
1949, pp 180-191.

JPRS 7261

Sci - Phys

136,521

Jan 61

Theory of Periodic Homogeneous Chemical
Reactions, II. Thermokinetic Auto-Oscillatory
Model, by I. E. Sal'nikov, 30 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIII, No 3,
1949, pp 258-271.

NLL 2828.4 F

CIA/FDD/X-1221

Scientific - Physics
CTS/DEK

9875

Retardation of Oxidation of Diisopropyl Ether and of
the Ethylene Fraction by Inhibitors, by M. B. Neiman,
V. A. Molodovskiy, G. A. Bogdaria.

RUSSIAN, no ENG. Zhur Fiz Khim, Vol XXIII, No 3,
1949, pp 281-288.

TT 813
ABC Tr 569

DSIT-235

Scientific - Chemistry

14 755

The Electrification of Drops During Atomization
of Liquids as a Result of Fluctuations in the
Ion Distribution, by G. L. Natanson, 18 pp.

RUSSIAN, *zhur Fiz Khim*, No 3, 1949, Vol XXIII,
pp 304-314. 9572601

FTD MOL-1385/1

Sci - Phys

176, 141

18 Dec 61

ZHUR FIZ KHIM

Vol XXIII, No 4, 18 pp, 1949

"Active Ensemble of Platinum in Oxidizing-Reducing and
Hydrogenation Processes"

N.I. Kobozev
N.A. Reshetovskaya

Translated
Wilson Dam #2857

57/49T19

The Intramolecular Hydrogen Bond and the Dipole Moments of Organic Compounds, by A. E. Lutskiy, 13 pp.

RUSSIAN, thrice-monthly, *Zhur Fiz Khim*, ~~VOYENNO-VEKOVESER~~, Vol XXIII, No 4, 1949, pp 361-367.

CIA/FDD/X-1217

Scientific - Chemistry
CTS/DEX

9878

Double Refraction of Flow in Polybutadiene and
Polymethyl Methacrylate Solutions, by V. Tsvetkov,
A. Petrova, 23 pp.

Zhur-FizKhim
RUSSIAN, thrice-mo per, ~~Botanika~~ Botanika, Vol XXIII,
No 4, 1949, pp 368-378.

C IA/FDD/X-1209

Scientific - Chemistry
CTS/DEX'

9882

Temperature Dependence of the Rate
Constant of the Decomposition of Ammonia
in the Electric Discharge, by N. N.
Zakhavayeva, 5 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIII,
1949, pp 379-382.

Wilson. Nam 2848
SLA R-2221

Sci

Aug 58

72,218

Pressure Effect on the Rate of Reactions in Solutions,
by M. G. Gonikberg, G. S. Povkh, 12 pp.

RUSSIAN, no par, Zhur Fiz Khim, Vol XXIII, No 4,
1949, pp 383-387.

Sci Tr Center
RF-3921

39,135

Sci - Chemistry
Sep 56 CTS/dcx

1
+V
Active Ensembles of Platinum in Oxidation -
Reduction and Hydrogenation Processes, by N.
I. Kobozev and N. A. Reshetovskaya, 21 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIII, 1949,
pp 388-405.

SLA R-223⁴

Sci

Aug 58

72,185-

Karpachev, S., Rempel', S., and Iordan, E.
INVESTIGATION OF ANODE OVERVOLTAGE IN
FUSED MIXTURES OF CRYOLITE WITH ALUMINA.
[1963] 12p 1ref
Order from OTS or SLA \$1.60

63-18997

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1949,
v. 23 [no. 4] p. 422-427.

DESCRIPTORS: *Aluminum compounds, Oxides,
*Cryolite, Mixtures, *Fused materials, *Electric
potential, Anodes.

The anode overvoltage in fused mixtures of cryolite with
alumina on carbon, graphite, and platinum electrodes
was investigated. It was shown that the anode potential
varies as a function of the current density according
to the equation $E = a + b \lg i$. The numerical values
of the coefficients b were determined for all of the
cases investigated. (Author)
(Chemistry--Physical, TT, v. 10, no. 11)

63-18997

- I. Title: Overvoltage
- I. Karpachev, S.
- II. Rempel', S.
- III. Iordan, E.

Office of Technical Services

The Anodic Evolution of Oxygen on Nickel in Alkaline Solution, by L. M. Volchkova, A. I. Krasil'shchikov, 8 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIII, No 4, 1949, pp 441-444.

SIA 60-14A05

0

Sci

OTS, Vol III, No 7

133,090

Nov 60

Basic Structural Types of Adsorbents and Their
Effect on the Adsorption Properties, by A. V.
Kiselev

RUSSIAN, per, Zhur Fis Khim, Vol XXIII, 1949,
pp 452-468.

Nat'l Res Council Canada TT 237

Scientific - Chemistry
Jul CTS/DEX Price 0.25

16,554

ZHUR FIZ KHIM

Vol XXIII, No 5, 12 pp, 1949

"Research on the Process of Viscous Flow in
Polyisobutylene"

V. A. Kargin
T. I. Sogolova

AEC Tr #379
Brookhaven

58/49T32

Zhur' Fiz Khim

Vol 23, #5, pp 505-15 (1949)

Optical Study of Hydrogen Bond of Acetylacetone + its
Derivatives

D. N. Shigorin

Acc Trans. # 316

Franklin

Determination of the Molecular Weight of Linear
Polymers by Their Mechanical Properties, by V. A.
Kargin, G. L. Sloninskiy, 14 pp.

RUSSIAN, per. Zhur Fiz Khim, Vol XXIII, No 5, 1949,
pp 563-571.

CIA/FDD/X-1314

Scientific - Chemistry
CTS/DEX

11,972

Kinetics of the Heterogeneous Reaction of Dry
SO₂ With Dry NO₂ at High Temperatures. IV, by
V. V. Illarionov.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVII, 1949,
pp 572-576.

NLL M. 2585

Sci - Chem

173, 884

Nov 61

Adiabatic Calorimeter With Constant Heat ~~Exchanger~~ Exchange for
Measuring the Heats of Adsorption of Gases and Liquids, by
A. V. Kiselev.
RUSSIAN, per, Zhur Fiz k Khim, Vol XXIII, No 5, 1949,
pp 577-594.

CRL/T. 1314

Sci - Chem

Feb 64

250,115

Law of Crystallization of Thin Silver Filaments,
by K. M. Gorbunova, A. I. Zhukova, 27 pp.

Zhur Fiz Khim
RUSSIAN, thrice-mo per, ~~Dokl Akad SSSR~~, Vol XXIII,
No 5, 1949, pp 605-615.

CIA/FDD/X-1218

Scientific - Chemistry
CTS/DEX

9886

The Crystallochemical and Diffusion Mechanism of
Electrocrystallization, by K. M. Gorbunova, P. D.
Dankov, 18 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIII, No 5, 1949,
pp 616-624.

CIA/FDD X-1306

Scientific - Chemistry
CIS/DEX

11,980

Calculation of the Simpler Equilibrium of Diagrams of
Binary Alloys, by B. Ya. Pines, 22 pp.

Full translation.

RUSSIAN, Zhur Fiz Khim, 1949, Vol XXIII, No 5,
pp 625-638.

Sci Mus Lib No 52/3269

Scientific - Chemistry

17 December 1952

Zhur Fiz Khim, XXIII, 647-55, (1949)

Dependence of Activity Coefficient on the Dielectric
Constant and the Basicity of the Medium

N. A. Izmailov (Dept of Phys Chem, Gor'kiy State
University, Kharkov)

(Wilson Dam 2860)

SLA R-2225

Photosensitizing the Internal Photoelectric Effect
of Zinc Oxide and Other Semiconductors With
Adsorbed Dyes, by E. K. Putseyko, A. N. Terenin,
25 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIII, No 6, 1949,
pp 676-688.

CIA/FDD/X-1223

CTS-62-10025(10pp)

676-678, 72R (pp)

9868

Scientific - Physics
CTS/DEX

Kinetics of the Conversion of Carbon Monoxide by
Steam, by N. V. Kul'kova, M. I. Temkin, 33 pp.

RUSSIAN, no per, Zhur Fiz Khim, Vol XXIII, No 6,
1949, pp 695-713.

base cut to SIJ15R
Sci Tr Ctr RR-3484

Scientific - Chemistry

34,878

May 56 CRS/dex

Production of Atomic Oxygen in Water Vapor Discharge
and Some of Its Reactions, by L. E. Avramenko.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIII, No 7, 1949.

AEC Tr 200

USSR

Scientific - Chemistry

June 1949

Avail in Mr Wyatts office - OSI

15,067

TEMKIN I. M.
SHVARTSMAN A. L.

Zhurnal Fiz. Khimii, vol. 23, 1949, pp. 755-760;
5 tables, 1600 words.

Activity of Carbon in Austenite.

Butcher Trans, Order No. 2373, \$2.80.

Investigation of Cellulose and Its Derivatives by
Infrared Absorption Spectra, by V. N. Nikitin,
18 pp.

RUSSIAN, per, Zhur Fiz. Khim, Vol XXIII, No 7, 1949,
pp 775-785.

NLL 3608.4F

CIA/FDD/X-1315

Scientific - Chemistry
CTS/DEX

11,966

Infrared Absorption Spectra of Nitrocellulose
Solutions, by V. N. Nikitin, 7 pp.

RUSSIAN, per, Zhur Fi. Khim, Vol XXIII, No 7,
1949, pp 786-89.

7

CIA/FDD/X-1319

Scientific - Physics
CTS/DEX

12,073

The Fundamental Equation of Topochemical
Reactions Which are Not Catalyzed by the
Solid Reaction Product, by M. M. Pavlyuchenko,
6 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIII, 1949,
p 800.

AEC Tr-4123

Sci - Phys, Chem
14 Oct 60

128,926

Reactions Involving Solids in the Absence of
Any Catalytic Action of the Reaction Products,
by M. M. Pavlyuchenko, 14 pp.

RUSSIAN, ~~par~~, Zhur Fiz Khim, Vol XXIII, 1949,
pp 800-808.

~~SECRET~~
ABC Tr-4122

Sci - Phys, Chem
14 Oct 60

128,925

The Problem of Measuring the Decomposition Voltage of
Molten Electrolytes in the Presence of Glass Diaphragms.,
by N. G. Chovnyk, ~~2~~ pp.

RUSSIAN, PER, Zhur Fiz Khim, Vol XXIII, 1949, pp 839-48.

AEC-tr-1816 (12 pp)
SLA RT-3436 (17 pp)
OTS (3-124911) (21 pp)

Scientific - Chemistry

11,146

The Nature of Eutectic Alloys, III.
Modification of the Binary Eutectics, by S.
Avakyan and N. Lashko, 6 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIII, 1949,
pp 858-860.

SLA R-2232

Sci

72,517

Aug 58

Gonikberg, M. G.
ON LIQUID-GAS PHASE EQUILIBRIA UNDER PRES-
SURE. [1963] 4p. 5 refs.
Order from OTS or SLA \$1.10 63-14847

Trans. of [Zhurnal Fizicheskoi Khimii] (USSR) 1949,
v. 23 [no. 7] p. 861-862.

DESCRIPTORS: *Phase studies, Liquids, Gases, Pres-
sure, *Nitrogen, *Hydrogen, *Benzene, Solubility.

(Chemistry--Physical, TT, v. 10, no. 6)

63-14847

I. Gonikberg, M. G.

Office of Technical Services

Stability of Supersaturated Salt Solutions, by M.
Tovbin, S. Krasnova, 10 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XVIII, 1949, p
863-870. IC

SLA R-2845

Sci

Jul 59

92,439

13 221

Ca-1

SHORYGIN P. P.

The effect of intermolecular interaction on the spectra of the combination of light scattering (Raman spectra)

Zhur. Fiz. Khim., 23, No. 8, 873-884 (1949)

TT 200 - English

E u r a t o m

The Kinetics of Desorption of Activated Adsorbed
Hydrogen, by N. P. Keyer, S. Z. Roginskiy

RUSSIAN, no per, Zhur Fiz Khim, Vol XXIII, No 8,
1949, pp 897-916.

AEC Tr 290

Sci Tr Center T T 124

Scientific - Chemistry

15,207

Some Special Properties of Adsorption Related to
the Heat Disorder of the Surface of a Crystal,
by F. F. Volkenstein, 20 ~~pp~~ pp.

RUSSIAN, no per, Zhur Fiz Khim, Vol XXIII, No 8,
1949, pp 917-930. D 354904; D 450329.

CIA/FDD X-2207

Sci Museum Library

50/1809

40,794

Also DKB- TF-126

A 12722

Sci - Chemistry Nov 1956 CTS/axx
Baxx

(NY-4828)

Interface Surface Tension of Mutually Soluble
Liquids, by Ya. B. Zel'dovich, 8 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIII, No 8,
1949, pp 931-935.

JPRS 7262

Sci - Phys

Jan 61

136,517

Determination of Transport Numbers of Cations and Anions in a Pure Molten Salt, by Karpechev, S., and Sal'gaev, S. 25 pp.

RUSSIAN, per, Zhurnal Fizicheskoi Khimii, 1949, Vol 23, pp 942-952.

Sci ENG Museum Lib No 52/0420

OTS 63-18994

Investigation of Electrocapillary Phenomena in
Tin-Gold and Bismuth-Tellurium Alloys, by S.
~~Karpachev~~ Karpachev, E. Rodigina.

RUSSIAN, per, Zhur Phys. Khim. Vol XXIII, No 8,
1949, pp 953-958.

DSIR/31279/CT

Sci - Physics
Feb 58

SLH R-1791
58,839

Effect of the Type of Mixed Solvent Upon Solubility.
Solubility of Dimethyl Glyoxime in Aqueous-Alcoholic
MIXTURES, by A. G. Stromberg, 14 pp.

RUSSIAN, per. Zhur Fiz Khim, Vol XXIII, No 8, 1949,
pp 962-968.

ALL 5684.4F

CIA/FDD/X-1316

Scientific - Chemistry
CTS/DEX

11,967

Crystallochemical Mechanism of the Formation and
Development of the Latent Photographic Image,
by P. D. Dankov, 13 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIII, No 9,
1949, pp 1025-1030.

CIA/FDD/X-1265

Scientific - Physics
CTS/DEX

10,820

On the Crystallochemical Mechanism of the Formation
of the Oxide Film on Iron at Room Temperature, by
P. D. Dankov and N. A. Shyshakov.

RUSSIAN, Zhur Fiz Khim, Vol 23, No 9, 1949, pp 1031-
5.

Sci Museum Lib No 50/3755 - London

61-19589

Dankov, P. D. and Shishakov, N. A.
SUR LE MÉCANISME CRISTALLOCHIMIQUE DE
FORMATION DE LA PELLICULE OXYDÉE DU FER
À LA TEMPÉRATURE AMBIANTE [O Kristallokhimi
cheskom Mekhanizme Obrazovaniya Oksidnoy Plenki na
Zheleze pri Komnatnoy Temperature] [On Crystallo-
chemical Mechanism of Formation of Oxide Film on Iron
at Room Temperature] tr. by M. Szysman. 13 Dec 60
[16]p. 7 refs. CEA Trans. no. R 1126. 61-19589
Order from OTS or SLA \$1.60

Trans. in French of Zh[urnal] Fiz[icheskoy] Khim[i]
(USSR) 1949, v. 23, no. 9, p. 1031-1035.
A translation available in English from SLA as RT-1914.

- I. Dankov, P. D.
- II. Shishakov, N. A.
- III. CEA-tr-R1126
- IV. Commissariat à l'Énergie
Atomique (France)

175281

Thermal Expansion Near the Melting Point, by G. M.
Bartenev, 19 pp.

RUSSIAN, Zhur Fiz Khim, Vol 23, 1949, pp 1075-1082.

Sci Museum No 51/2734

Scientific - Physics

Veselovskii, V. I.
PHOTOELECTROCHEMICAL PROCESSES ON IRON
IN THE PRESENCE OF HYDROGEN PEROXIDE
(Fotoelektrokhimicheskie Protsessy na Zheleze v
Prisutsvii Perekisi Vodoroda). [1962] [21]p. (foreign
text included) 7 refs.

Order from OTS or SLA \$2.60

62-16087

Partial trans. (excerpts) of Zhurnal Fizicheskoi
Khimii (USSR) 1949, v. 23, no. 9, p. 1095-1105.

DESCRIPTORS: *Iron, *Hydrogen compounds, *Per-
oxides, Radiation effects, Electrochemistry, Photo-
chemistry.

For abstract of original article see Chem. Abstracts
44: 929b, 1950.

(Chemistry--Physical, TT, v. 8, no. 4)

62-16087

I. Veselovskii, V. I.

Office of Technical Services

Photolysis of Silver Erythrosinate and the Mechanism
of the Sensitized Photochemical Decomposition of
Silver Halide, EXR by S. V. Natanson, G. L.
Natanson, 22 pp.

RUSSIAN, per, Zhur Fiz Khim, EX Vol XXIII, No 9,
1949, pp 1106-1115.

CIA/FDD/X-1277

~~XXXXXXXXXX~~

Scientific - Chemistry
ECTS/DEX

11,164

The Sorption and Structure of Active Charcoals.
VI. Structural Types of Active Charcoals, by M. M.
Dubinin and E. D. Zaverina, UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khim, 1949, Vol 23, No 10,
pp 1129-1140.

Sci Mus Lib No 52/2936

Scientific

100 AEC T 564

25 October 1952

Grdenich, D. R. and Kitafgorodskii, A. I.
THE CRYSTAL STRUCTURE OF MERCURY ALKYL
HALIDES. 18p. 15 refs. MTWL: 751.
Order from OTS or ETC \$1.85

61-17260

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1949,
v. 23, no. 10, p. 1161-1171.

DESCRIPTORS: *Mercury compounds, Halides,
Alkyl radicals, *Crystal structure.

61-17260

- I. Grdenich, D. R.
- II. Kitafgorodskii, A. I.
- III. MTWL-751
- IV. Stichting Moeilijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

ZFK, XXIII, No. 10, 1949

pp. 1187-96

THE EFFECT OF DIETHYL PEROXIDE ON THE DECOMPOSITION OF
NORMAL BUTANE

MAYZUS, Z. K., et. al.

Proj. 4366
(part of)

CD ST-24

*HEC 2v. 301
75/10/1949*

SR report to ... U-934

Crystallization of Calcium Arsenates, by A. P.
Belopol'skiy, S. M. Shogam, 11 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIII, 1949,
pp 1266-1274.

SLA 60-17709

Sci
OTS, Vol IV, No 3
Oct 60

129,444

Electronmicrographic Study of Films of Polyvinyl
Alcohol, Part I, by G. I. Distler, Z. G. Pincker,
19 pp.

RUSSIAN, per, Zhur Fiz. Khim, Vol XXIII, No 11, 1949,
pp 1281-1291.

ALL

CIA/FDD/X-1307

Scientific - Chemistry
SIS/DEX

11,973

Oxygen Quenching of the Fluorescence of Anthraquinone
Derivatives in Vaporous State, by ~~EX~~ A. V. Karyakin,
21 pp. UNCLASSIFIED

^I
RUSSIAN, no per, Zhur Fiz Khim, Vol ~~XXXII~~, No 11,
Nov 1949, pp 1332-1344.

ATIC F-TS-8163-A

USSR
Scientific - Chemistry
CIA 2307972
ATIC 133837

Feb 54 CTS

9579

Oxygen Quenching of the Fluorescence of Anthraquinone
Derivatives in Adsorbed State, by A. V. Karyakin,
21 pp, UNCLASSIFIED

RUSSIAN, no per, Zhur Fiz Khim, Vol XXIII, No 11,
Nov 1949, pp 1345-1356.

ATIC F-TS-8163-B

USSR
Scientific - Chemistry
CIA 2307972
ATIC 133837

Feb 54 CTS

9580

ZFK, XXIII, No. 11, 1949

pp. 1361-74

THEORY OF SPARK IGNITION OF EXPLOSIVE GAS MIXTURES

ZEL'DOVICH, Ya. B., et. al.

Proj. 4366
(part of)

CD ST-24

*REL. Cont. - 357
B...*

SR-

473

Relationship Between the Structure of Vinyl Com-
pounds and their Ability to Polymerize, by Kh. S.
Bagdasar'yan, 21 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIII, No 11, 1949,
pp 1375-1384

NLL 5828.4P

CIA/FDD/ X-1132

Scientific - Chemistry

CTS/DEX

7019

Investigation on Finishing Photographic Emulsions, I.
Finishing Importance of Gelatin; Effect of Temperature
and the Concentration of Bromide Ions, by K. V.
Chibisov, A. A. Titov, A. A. Mikhaylova, 24 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIII, No 12, 1949,
pp 1387-1398.

CIA/FDD/X-~~DEX~~ 1276

11, 028

Scientific - Physics
CTS/DEX

New Methods for the Measurement of the Specific Surface
(in cm^2/g) and of the Specific Adsorption (in g/cm^2).
Part I, by B. V. Deryagin, V. I. Krylova, R. M. Fridlyand

RUSSIAN, no per, Zhur Fiz Khimii, Vol XXIV, No 11,
1950, pp 1371-1382.

~~Scientific~~
National Research Library
TT.272

Scientific - Chemistry

10, 674

The Dependence of Chemical Reaction Rates, on
Pressure, by M. G. Gonikberg, L.F. Vereshagin.
RUSSIAN, per, Zhurnal Fizicheskoi Khimii,
Vol 23, No 12, 1949. P911143666
AEC BNI-tr-95

Sci/Physics
Jan 67

316,179

A New Effect in the Temperature Dependence of Surface
Tension, by S. G. Urzovskiy, D. M. Chetayev, 17 p.

RUSSIAN, par, Zhur 218 Kmit, 1949, Vol XVIII, No 12,
pp 1421-1425.

CIA: 59-20725

Sci
Mar 50
Vol 3, No 1.

110, 388

Effect of Organic Additions Upon Over-Voltage
During Separation of Hydrogen and Chromium and
The Overcharging of Titanium and Vanadium Ions,
by M. A. Loshkarev, A. A. Kryukova.
RUSSIAN, per, Zh. Fiz. Khim, Vol 23, No 12,
1949, pp 1457-1463.
NLL 5828.4F (11717)

Sci - Phys

Aug 67

Sept.

340,063

Markov, B. F.

EQUILIBRIUM POTENTIALS OF MAGNESIUM IN
THE FUSED SYSTEMS $MgCl_2-KCl$ AND $MgCl_2-NaCl$.
[1963] [28p] 25 refs

Order from OTS, SLA, or ETC \$2.60 TT-63-20437

Trans. of Zhurnal Fiz[izhe]skoi Khim[ii] (USSR) 1949,
v. 23 [no. 12] p. 1464-1476.

DESCRIPTORS: *Fused materials, *Magnesium com-
pounds, *Chlorides, *Potassium compounds, *Sodium
compounds, Thermodynamics.

K-H-3959 b

(Chemistry--Physical, TT, v. 11, no. 3)

TT-63-20437

I. Markov, B. F.

Office of Technical Services

On the Spreading of the Corrosion Process Along the
Length of a Tube, by A. N. Frumkin, 9 pp.

RUSSIAN, per. Zhur Fiz Khim SSSR, Vol XXIII, No 12,
1949, pp 1477-1482.

Sci Trans Center RT-77

USSR
Scientific - Chemistry

8679

Jan 54 CIS

The Rate of Fall of Mercury Drops in a Viscous Medium, by F. A. Bagotskaya.

RUSSIAN, per, Zhur Fiz Khim,
Vol XXIV, 1950, pp 3-9.

NLL M.4288

Sci - Chem

193,903

Apr 62

The Adsorption of Gases in the Presence of Surface-Active Materials. I. The Effect of Surface-Active Materials on the Rate of Adsorption of Sulphur Dioxide in Water, by A. N. Ternovskaya, A. P. Belopol'skiy.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIV, ~~EA~~ 1950, pp 43-57.

HLL M. 4297

Sci - Chem

194, 029

Apr 62

Polarization of Metallic Electrodes in Cyanide
Solutions of Silver, by A. T. Vagranyan and N.
N. Balashova.

RUSSIAN, per. Zhurnal Fizicheskoi Khimii, Vol
24, 1950, pp 96-105.

NLL RTS 3010

Sci-Chem

Nov 67

345,286

Transfer Phenomena in Compressed Gases. 1.
by E. A. Stolyarov, V. V. Ipat'ev, V. P.
Teodorovich, 14 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIV, No 2,
1950, pp 166-176.

Sci Mus Lib - 56/0530

Sci - Physics, Chemistry 36,389

Jul 1956

Oxidation of Hydrogen by Oxygen Atoms, ¹¹⁴M. M. Pavliuchenko.

RUSSIAN, per, Zhur Fiz Khim, Vol ~~XIII~~^{XIV}, No 9, 1950, pp 877-885.

Natl Res Council, Canada
TP No 571

Sci - Chem

May 60

115,538

Transfer Phenomena in Compressed Gases. I.
Determination of the Heat Conductivity Coefficients
of Compressed Gases, (H₂, N₂, Air, CH₄, and CO₂),
by E. A. Stoliarov, V. V. Igarov, et al, 22 pp.
RUSSIAN, per. Zhur Fiz Khim, Vol XXIV, 1950,
pp 161-176. 9228961
AEC-LA-Tr-65-4

Sci-Phys
Jun 63

281,080

Determination of the molecular weights of polymers
formed at different stages of polymerization, by
E. V. Kuvshinskiy and E. V. Melekina, 4 pp.

RUSSIAN, per, Zhur Fis Khim, Vol 24, No (2), 1950,
pp 199-201.

Sci Museum Lib No 51/2061 - London

*Sci - ~~chem~~
Physics*

Creep of Silver Atoms Along the Surface of Zinc-Oxide
Crystals, by A. B. Shekhter, A. I. Echeistova, I. I.
Tret'yakov.

RUSSIAN, no par, Zhur Fiz Khim, Vol XXIV, No 2, 1950,
pp 202 - 206.

AEC Tr 1096

Sci - Chem

Doc 51 CTS

Reactions of Hydroxyl With Molecules
of Different Gases. Part II. Reactions
of Free Hydroxyl With Hydrogen and
Carbon Monoxide, by L. I. Avramenko.
RUSSIAN, per, Zhurnal Fizicheskoi Khimii,
Vol 24, 1950, pp 207-213
NTC 72-11828-07D

copy in 3762/APL T958

June 72 OTR - NCH - 201995

255099

Burshstefn, R. Kh., Surova, M. D., and Zaiden-
man, I. A.
INVLOED VAN AAN IJZER GEADSORBEERDE ZUUR-
STOF OP HET CONTACT-POTENTIAL VERSCHIL
(Effect of oxygen adsorbed on iron upon the contact
potential difference). tr. by G. J. M. Fritschy. 17 p
13 refs. MTWL:485. (Text in Dutch)
Order from OTS or ETC \$0.80 61-17005

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1950,
v. 24, p. 214-223.

61-17005

1. Iron oxide films
2. Electrical potential
- I. Burshstefn, R. Kh.
- II. Surova, M. D.
- III. Zaidenman, I. A.
- IV. MTWL 485
- V. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

Office of Technical Services

Zhurnal Fiz Khim Vol 24 No 2 pp 244-253 1950

"The effect of Electrolytes upon Hydrogen Overvoltage
and the theory of retarded discharge, by A. N. Frumkin.

Navy Tr. 373/WRL 357

article

See also article HT 20

Special Features of the Theory of Thermal
Explosion Reaction With Unbranched Chains:
Spontaneous Ignition of H_2 and Br_2 , 20 pp.
by V Kokochashvili, UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khim, Vol XXIV, No 3,
Mar 1950, pp 260-271.

R.A.E. Lib No 461

Scientific - Chemistry

1 card in per only SEE ALSO R.A.E. Lib No 464
n

Phase and Volume Relationships in the Gas-Liquid
Systems at High Pressures. Experimental Procedure,
by D. Yu. Gamburg

RUSSIAN, no per, Zhur Fiz Khim, Vol XXIV, No 3, 1950,
pp 272-276.

AEC Tr 437

Scientific - Chemistry

May 51 CTS

167T103

Transfer Phenomena in Compressed Gases. II.
Empirical Equation for the Relation Between the
Heat Conductivity of Compressed Gases and Tempera-
ture and Pressure, by E. A. Stollarov, 22 pp.
RUSSIAN, per. Zhur Fiz. Khim. Vol XXIV, No 3, 1950,
pp 279-291. 0229216
AEC-LA-Tr-65-7

Sci-Chem
Aug 65

296,388

Legenchenko, I.A.
NITRIDEN EN DE KINETICA DER AMMONIAKONT-
LEDING OP IJZERKATALYSATORS (Nitrides and
kinetics of decomposition of NH_3 on Fe catalysts),
tr. by G.J.M. Fritschy. 17 p. 11 refs. MTWL:490.
(Text in Dutch)
Order from OTS or ETC \$0.80

61-17010

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1950,
v. 24, p. 311-320.

61-17010

- I. Ammonia-Decomposition
2. Iron catalysts
3. Nitrides
- I. Legenchenko, I.A.
- II. MTWL-490
- III. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

Office of Technical Services

Influence of Solvents on Strength of Acids, by
N. A. Izmailov. UNCL

RUSSIAN, per, Zhur Fiz Khim, Vol XXIV, No 3,
1950, pp 321-336.

~~DSIR~~
DSIR LIU RPS 1174

12. Os.Od.

Sci - Chem
Sep 59

95, 829

Determination of Zero Points of Solid Metals by
Measuring the Capacity of the Double Layer,
(Part II), by T. I. Borisova, B. V. Ershler.

RUSSIAN, no per, Zhur Fiz Khim, Vol XXIV, No 3,
1950. *pp 337-44.*

Navy Tr/NRL 307

RT-79

Scientific - Physics

15,804

The Photoelectrochemical Process and
Mechanism for the Evolution of Oxygen on
a Pt-Electrode, by V. I. Ginzburg,
V. I. Veselovskiy.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIV,
1950, pp 366-378. 9093972

AEC Tr-5220

Sci - Phys, Chem
Sep 62

212, 690

Rate of Reduction of Iron Ores, by E. P. Tatievskaya,
G. I. Chafarov, V. K. Antonov

Full translation.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIV, No 4, 1950,
pp 385-393.

Brutcher Tr No 3074

61-17327

Jul 53 CTS/DEX 4

Scientific - Minerals/Metals Price \$8.60

3503

The Kinetics of the Absorption of Oxygen
by Water Under Dynamic Conditions, by
M. V. Tovbyn and A. D. Kozenko, 7 pp.

RUSSIAN, Zhur Fiz. Khim., Vol 24, No 4,
pp 403-407.

Sci Serv No 51/2898

Assoc Tech Serv Pj-645

ROSEN, P. P.
KUVSHINSKIY, E. V.
SEMENOVA, A. S.

Molecular Weights of Polystyrols Obtained Under
Pressures Up to 6,000 kg/cm²

Russian, Zhur Fiz Khim, Vol 24 9(1), 1950, pp 415 -
419.

Sci Mus Lib
51/2059