

Molecular Weight of Cellulose, by O. P.
Golova, 1 p.

RUSSIAN, bk, Trudy Pervoy i Vtoroy Konf po
Vysokomol Soedin, 1945, pp 29, 30.

Sci Trans Center
RT-2732

Scientific - Chemistry

[dex only]

29, 223

Investigations in Oceanography for Fishery
Purposes, 300 pp.
RUSSIAN, mono, Trudy PIRRO, Vol 16, 1964.
Dept of Interior
Fish and Wildlife Service
BCF, Bureau of Foreign Fisheries

USSR
Econ
Dec 67

346,814

Selection and Study of Carrots Hybrids,
by N. K. Litvinova,
RUSSIAN, per, Trudy Plodov. Inst. Im.
I. V. Michurina, No 12, 1961, pp 65-71.
NLL RTS 3562
(On Loan or Purchase)

Sci-Agri
Apr 67

324,048

Material for a Quantitative Study of the Bottom
Fauna of the Barents and White Seas, by
L. A. Zenkewitsch.

RUSSIAN, per, Trudy Plov Morsk. Nauk Inst, Vol II,
No 4, 1927, XXXI pp 1-64.

FWS

Sci

Jan 64

Soils of Altai-Sayan Region, by B. F. Petrov,
9 p.

RUSSIAN, per, Trudy Pochvennyy Inst Ak Nauk SSSR,
1952, Vol XXXV, pp 27-31. 9076393

SIA 59-14995

OTS-60-51167

PL-480

108,191

Sci
Feb 60
Vol 2, No 12

Makovskii, M. V.

STUDY OF FIELD MOISTURE CAPACITY OF PEAT SOILS OF THE BSSR WHEN IRRIGATED BY SPRINKLING (Issledovanie Polevoi Vлагоemkosti Torfyanykh Pochv BSSR pri Orosheanii Ikh Dozhdevaniem). 1963, 13p. 7 refs. PL-480 Agr.
Order from OTS \$0.50

63-11019

Trans. of ~~Belaruskii Navukova-Dasledchy Instytut Mellyaratsyi i Vodnai Haspadarki~~ Trudy (USSR) 1958, v. 8, p. 142-154.

DESCRIPTORS: *Soils, *Peat, *Moisture, Potential theory, Irrigation systems, Sprinklers, Measurement, Tests.

(Agriculture--Plant Cultivation, TT, v. 10, no. 3)

63-11019

I. Makovskii, M. V.
II. PL-480 Agr (63-11019)
III. National Science Foundation, Washington, D. C.

63-11078

Office of Technical Services

63-11078

Gerasimov, G. P.
HUMUS-CARBONATE SOILS OF THE SOCHI DISTRICT
AND THEIR TRANSITION TO BROWN FOREST SOILS
(Peregnolno-Karbonatnye Pochvy Sochinskogo Raiona i
Perekhod Ikh v Burye Lesnye Pochvy). 1963, 10p.
10 refs. PL-480 Agr.
Order from OTS \$0.50

- I. Title: Sochi
- I. Gerasimov, G. P.
- II. PL-480 Agr (63-11078)
- III. National Science Foundation, Washington, D. C.

63-11078

Trans. of [Akademiya Nauk SSSR]. Pochvennyi Institut.
Trudy, 1949, v. 30, p. 253-261.

DESCRIPTORS: *Organic materials, Carbonates, *Soils,
*Soil mechanics, Forestry, Humidity, Climatology.

721819

(Agriculture--Plant Cultivation, TT, v. 10, no. 3)

Office of Technical Services

Characteristics of the Soil Cover of Baraba, by
B. F. Petrov, 131 pp.

RUSSIAN, per, Trudy Pochvennogo Inst imeni V. V.
Dokuchayeva, Ak Nauk SSSR, Vol XXXVI, 1952,
pp 11-105. 9076593

OTS 60-51167
FL-480

Sci - Geophysics
May 61
PST No. 198

154,013

Soils of the Southern Taiga of the Trans-Ural
Region, by E. N. Ivanova, 164 pp.

RUSSIAN, per, Trudy Pochvennogo Inst imeni
V. V. Dokuchayeva, Ak Nauk SSSR, Vol XLIII,
1954, pp 5-128. 9076592

OTS 60-51173
PL-480

Sci - Geophysics
May 61
PST No. 195

154,012

AUG 50

The Reactions of Anion Exchange, by I. P. Serdobal'skiy, 8 pp.

RUSSIAN, per, Trudy Pochvennogo Inst im V. V. Dokuchaeva, ~~Mal~~ Akad Nauk SSSR, No 7, 1955,
pp ~~117-118~~ 67-73.

SIA R-2146

Sci

Aug 58

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Boys and Girls at Work in the USSR,
by Alexei Antonov. 94 pp.
RUSSIAN, bk, Trud Podrostkov v SSSR,
Na Angliyskom Yazyke.
CIA FDD/ X-6204

Novosti Press agency Publishing House
USSR/*etc*
Apr 67

324,874
4

Solyanik-Krassa, K. V.
SOLUTION OF AN AXIALLY SYMMETRIC PROBLEM
IN SPHERICAL COORDINATES, tr. by Donald C. Rich
and George F. Hill. 20 Feb 62 [24]p. AOMC Trans.
nr 12-62.
Order from OTS or SLA \$2.60
62-23283

Trans. of [Politeknicheskii Institut] Leningrad. [Trudy]
(USSR) 1955, no. 178, p. 133-149.

DESCRIPTORS: *Bodies of revolution, *Axially
symmetric flow, Stresses, Load distribution, *Spheres,
Elasticity, Differential equations, Integrals, Special
functions.

(Mechanics, TT, v. 9, no. 12)

62-23283

I. Solyanik-Krassa, K. V.
II. AOMC Trans-12-62
III. Army Ordnance Missile
Command, Redstone
Arsenal, Ala.

Div. of Technical Services

61-13277

Pavlovskiy, M. A. and Makarov, B. N.
 INFLUENCE OF A DEEPENING OF THE ARABLE
 LAYER ON THE HYDROPHYSICAL PROPERTIES OF
 PEATY-PODZOLIC SOILS (Vliyanie Uglubleniya
 Pakhotnogo Sloya na Vodno-fizicheskiye Svoystva
 Derivno-podzolistykh Pochv) tr. by M. Slade. [1960]
 [22]p. (foreign text included) 13 refs. Trans. no. 4806
 Order from LC or SLA ml\$2.70, ph\$4.80 61-13277

Trans. of Akademiya Nauk SSSR. Pochvennyy Institut.
 Trudy, 1956, v. 49, p. 73-85.

The porosity and density of the soil increased con-
 siderably (chiefly in the 20- to 40-cm layer) in the
 first year after deepening of the arable layer. When
 the arable layer was deepened the water permeability
 of the soil increased perceptibly, especially after
 ameliorative ploughing to 45 cm. The differences in
 water permeability remained noticeable in the third
 year from deep ploughing. Deepening of the arable
 (Agriculture--Plant Cultivation, TT, v. 5, no. 4) (over)

1. Soils--Physical factors
2. Soils--Physical properties
- I. Pavlovskiy, M. A.
- II. Makarov, B. N.
- III. CSIRO Trans-4806
- IV. Commonwealth Scientific
 and Industrial Research
 Organization (Australia)

143,346

Office of Technical Services

layer by means of ameliorative ploughing improved the structure of peaty-podzolic soils: the content of water-retaining crumbs was 3 to 6% higher than after the usual ploughing. Depending on the arable horizon of lightly cultivated peaty medium-podzolic soil in the 0 to 60 cm layer. The content of total moisture increased sharply after ploughing to 45- and 60-cm depth. The increase in the water supply of the plants, in moisture capacity, pore content, and permeability to water upon deepening of the arable layer is due to the loosening and mixing of the stratum illuvial and peaty horizons. (See also 61-15225)

61-13277

PB-

Makarov, B. N. and Frenkel', E. Ya.
 GAS EXCHANGE BETWEEN SOIL AND ATMOSPHERE IN PEATY-PODZOLIC SOILS UNDER DIFFERENT CROPS, AND THE EFFECT OF A DEEPENING OF THE ARABLE LAYER ON THIS PROCESS (Gazooobmen Mezhdru Pochvoy i Atmosferoy na Razlichnykh Ugodyakh Chernovo-podzolistykh Pochv i Vliyaniye Uglubleniya Pakhotnogo Sloya na etot Protseas) tr. by M. Slade. [1960] [58]p. (foreign text included) 18 refs. Trans. no. 4807.
 Order from LC or SLA mi\$3.60, ph\$9.30 61-15225

Trans. of Akademiya Nauk SSSR. Pochvennyy Institut. Trudy, 1956, v. 49, p. 152-181.

Investigations in 1951-1953 revealed a correlation between the gas exchange between soil and atmosphere (soil respiration) and the nature of the vegetation, the content of live roots and dead plant residues, the content of microorganisms in the soil, the soil temperature (Agriculture--Plant Cultivation, TT, v. 5, no. 4) (over)

61-15225

1. Soils--Chemical properties
2. Plants--Biochemistry
1. Makarov, B. N.
11. Frenkel', E. Ya.
- III. CSIRO Trans-4806
- IV. Commonwealth Scientific and Industrial Research Organization (Australia)

143,332

Office of Technical Services

Microscopic Determination of Carbonates in Saline Soils,
by I. Feofarova.

RUSSIAN, per, Trudy Pochvennogo Instituta Imeni
Dokuchaeva,
Vol LIII, 1958, pp 75-88.

CSIRO Tr 4412

Sep 62

Kaganovskaya, S.M. 1937

The validity of estimating length and rate of growth
from sciaes from various sections of the sardine (Sardinops
melanosticta)

Biulleten PINRO, 12, Vladivostok: 115-123. In Russian.

Transl. by Anatole S. Loukashkin, June 1953, 16p., typescript.

Avail. on Loan - NMFS, Wash., D.C.

Original Article Checked...^{MR}

Kaganovskaya, S.M. 1938
Morphological characteristics of the iwassi-sardine
(Sardinops melanosticta Temm. et Schl.)
Biulleten PINRO, 14, Vladivostok: 45-54. In Russian.

Transl. by Anatole S. Loukashkin, Sep. 1953, 36p., typescript.

Avail. on Loan - NMFS, Wash., D.C.

Original Article Checked. *ME*

Mosentzova, T.N.

1939

The seasonal changes in the microplankton in Barents Sea
(Sezonnye izmeneniya mikroplanktona v Barentsevom more)
Trudy Polyarnogo nauchno-issledovatel'skogo instituta morskogo
rybnogo khoziaistva i okeanografii im. pochetnogo chlena
Akademii nauk SSSR professora N.M. Knipovicha (PINRO), 4,
Murmansk: 129-147. In Russian.

Transl. by Transl. Bur., Fgn. Lang. Div., Dept. of Sec. of
State of Canada, for FRBC Arctic Biological Station, Ste.
Anne de Bellevue, 1971, as Transl. Series No. 1832, 33p.,
typescript.

Avail. on Loan - NMFS, Wash., D.C.

Original Article Checked *MR*

Results of the Marking of Demersal Fishes of the
Barents Sea During the Period 1946-1955, by
K. G. Konstantinov.

RUSSIAN, per, Trudy Poliarcticheskogo Inst Nauchnoy Rbnogo
Obshch, No 10, 1957, pp 78-87.

HLL Ref: 5828.4 1959 (5,237)
(loan)

236, 110

Sci - Biol & Med Sci
Jul 63

Hydrological Investigations in the Kopytov Area,
by M. M. Adrov.

RUSSIAN, per, Trudy Poliararnue^o Inst Nauchnoy
Rbnogo Obshch, No 10, 1957, pp 198-211.

NLL Ref: 5828.4 1959 (5,239)
(loan)

Sci - Earth Sci & Astron
Jul 63

236,092

Distribution and Migration of the Capelin in the
Barents Sea During the Period 1945-1952.

RUSSIAN, per, Trudy Poliarzuego Inst
Nauchnoy Rbnogo Obshch, No 10, 1957, PP 212-229.

NLI Ref: 5828.4 1959 (5,234)
(loan)

Sci - ~~Earth Sci - & Astron~~
Biol + Med Sci
Jul 63

236,891

On the Migrations and Spawning the Barents Sea
Capelin in 1953 and 1954, by V. S. Prokhorov.

RUSSIAN, per, Trudy Paliarnogo Inst. Nauchnoy
Ibnogo Obshch, No 10, 1957, pp 230-243.

NLL Ref: 5828.4 1959 (5,235)
(loan)

Sci - Biol & Med Sci
Jul 63

236,112

TT-64-12743

Abramov, G. A., Kostyukov, A. A., and
Nordvik, L. V.
THE EFFECT OF ADDITIONS OF MAGNESIUM
FLUORIDE AND LITHIUM CRYOLITE ON THE ELEC-
TRICAL CONDUCTIVITY OF CRYOLITE-ALUMINA
MELTS. [1964] 6p
Order from ATS \$7.25 ATS-94R74R

Trans. of Politekh[nicheski] Inst[itut] Leningr[ad].
Tr[udy] (USSR) 1957, no. 188, p. 40-44.

I. Abramov, G. A.
II. Kostyukov, A. A.
III. Nordvik, L. V.
IV. ATS-94R74R
V. Associated Technical
Services, Inc.,
East Orange, N. J.

(Physics--Solid State, TT, v. 11, no. 12)

Office of Technical Services

TT-64-13739

Shevandin, E. M., Navrotskii, D. I., and
Reahetnikova, R. E.
FATIGUE TESTING OF WELDED JOINTS IN LOW
ALLOY AND LOW CARBON STEELS (Ustalostnye
Ispytaniya Svarnykh Soedinenii Nizkolegirovannoi i
Malouglerodistol Stali). Feb 64 [15p] ref RTS-2416.
Order from OTS, SLA, or ETC \$1.60 TT-64-13739

Trans. of Politekhn[icheski] In[stitut] Leningrad.
Trudy, 1958, no. 199, p. 64-74.

DESCRIPTORS: *Steel, *Welds, Fatigue (Mechanics).

(Metallurgy, TT, v. 11, no. 9)

- I. Shevandin, E. M.
- II. Navrotskii, D. I.
- III. Reahetnikova, R. E.
- IV. RTS-2416
- V. National Lending Library
for Science and
Technology, Boston Spa
(England)

Office of Technical Services

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THE PROGRESS OF THE FISHERY ON THE NORTHERN SLOPE
OF GOOSE BANK IN RELATION TO THE HYDROLOGICAL
CONDITIONS, BY A. A. ELIZAROV.

RUSSIAN, PER, TRUDY PINRO, VOL XI, 1959, PP 142-148.

DEPT OF INTERIOR
SH211 E82 NO 390

SCI - BIOLOGY

NOV 62

216,726

The Data on the Biology and Commercial Sealing of the
Jan-Mayen Greenland and Hooded Seals in the Western
Ice, by S. S. Surkov.

RUSSIAN, per, PIVRO, Vol 12, 1960, pp 88-105.

*Dept of Navy NOO Trans 538

May 71

Data on the Study of the White Whale Distribution in
the Northern Seas of the USSR, by S. Ye. Kleyenberg.
RUSSIAN, per, PINRO, Vol 12, 1960, pp 127-145.
*Dept of Navy NOO Trans 539

May 7k

The Characteristic of the Approach of the White Whales
Toward the Shores, by M. N. Tarasevich.

RUSSIAN, per, PINRO, Vol 12, 1960, ppp 146-153.

*Dept of Navy NOO Trans 540

May 71

The Winter-Spring Distribution of the White Whale in
the White Sea, by R. Sh. Khuzin.

RUSSIAN, per, PINRO, Vol 12, 1960, pp 154-157.

*Dept of Navy NOO Trans 541

May 71

Distribution of Cetaceans in Seas Surrounding the
Chukchi Peninsula, by I. P. Nikulin.

RUSSIAN, per, Trudy Finro, Vol 22, 1946, pp 255-257.

*Dept of Navy HOO tr 428

Sci/Mar Sci & Ocean
Sep

On the Distribution and Biology of the Greenland Hooded Seal, by R. Sh. Kuzin, 18 pp.
RUSSIAN, per. Trudy PINRO, Vol 15, 1963,
pp 251-261.
NAV/WOO-Tran-537-72

Apr 72

Plankton Distribution in the Area of George's
and Brown's Banks in 1962, by Ye. A. Pavshikov,
M. A. Gogoleva.
RUSSIAN, per, Trudy Finro, Vol 16, 1964, pp 25-48.
*Dept of Navy NCO tr 420

Sci/Ear Sci & Ocean
Sep 68

Seasonal Phenomena in the Plankton of the
Labrador Shelf, the Grand Bank and Flemish Cap
Off Newfoundland, by T. N. Semenova.
RUSSIAN, per, Trudy Finro, Vol 16, 1964, pp 48-77.
Dept of Navy RCO tr 421

Sci/Ear Sci & Ocean
Sep 68

Distribution of Euphausiids in Grand Banks Area
Off Newfoundland in Connection with the Dynamics
of Water Masses, by S. S. Drobysheva.

RUSSIAN, per, Trudy Pinro, Vol 16, 1964, pp 79-88.

*Dept of Navy HOO tr 422

Sci/Ear Sci & Ocean
Sep 68

The Conditions for the Formation of the Arctic-
Norwegian School of Cods From the 1959, 1960
and 1961 Generations in the First Year of Life,
by A. S. Baranenkov.
RUSSIAN, per, Trudy Pinro, Vol 16, 1964, pp 195-214.
*Dept of Navy HCO tr 423

Sci/BAH
Sep 68

On Some Regular Features of the Summer Migration
of the Cod in the Southern Part of the Barents
Sea, by K. G. Konstantinov and A. I. Mukhin.
RUSSIAN, per, Trudy PINRO, Vol 16, 1964, pp 227-
233.

Dept of Interior
Fish and Wildlife Service
BCF, Bureau of Foreign Fisheries

Sci-B and M
Nov 67

345,481

Effect of Screening on the Acoustic-Electric
Effect in Semiconductors With one Kind of Current
Carriers, by Ye. P. Pikatilov, B.V. Prepelina,

6 pp.

RUSSIAN, per, Trudy Po Fizike Poluprovodnikov,
Kishinevskiy Gosudarstvennyy Universitet, No 1,
1962, pp 15-18. PI00012666

FTD-TT-65-988

Sci/Electronics
Sep 66

309,346

The Use of Isotopes in the Investigation of
Flowering and Nectar Formation in Linden Trees,
by D. V. Girnik, 5 pp.
RUSSIAN, per, Trudy Po Fiziologii Rastenii,
Agrokhimii i Pochvovedeniyu, 1957, pp 143-147.
OTS 63-11008
PL-480

Sci - Agri
Jun 64

260,403

The Use of the Stable Nitrogen Isotope N^{15} in
Investigating the Role of Copper in Plant Assimilation
of Ammonia and Nitrate Nitrogen, by L. K. Ostrovakaya,
B. A. Geller, 9 pp.
RUSSIAN, per, Trudy Po Fiziologii Rastenii,
Agrokhimii i Pochvovedeniyu, 1957, pp 168-176.
OTS 63-11008
PL-480

Sci - M/M
Jun 64

260,8x404

Manteufel, B.P.

1938

Description of the changes occurring regularly in plankton of the Barents Sea (Kratkaya kharakteristika osnovnykh zakonomernostei v izmeneniyakh planktona Barentsova morya) Trudy Polyarnogo nauchno-issledovatel'skogo inatituta morskogo rybnogo khozyalstva i okeanografii (PINRO), 1: 134-148. In Russian.

Transl. by Transl. Bur., Fgn. Lang. Div., Dept. of Sec. of State of Canada, for FRHC Arctic Biological Station, Ste. Anne de Bellevue, P.Q., 1971, as Transl. Series No. 170, 34p., typescript.

Avail. on Loan - NMFS, Wash., D.C.

Original Article Checked *MR*

Surkov, S.S.

1957

Distribution and stocks of the harp seal in the
White Sea (Raspredelenie i zapasy lysuna v Belom more)
Poliarnyi nauchno-issledovatel'skii institut morskogo
rybnogo khozyaistva i okeanografii (PINRO), Murmansk,
59p. In Russian.

Transl. by Transl. Eur. Fgn. Lang. Div., Dept. of Sec. of
State of Canada for FRBC Arctic Unit, Montreal, P.Q.,
as FRBC Transl. Series No. 202, 56p., typescript.

Avail. on Loan - BCF, Wash., D.C.

Original Article Checked.....

Information on the Biology and Survival of
Salmon of the Kola Peninsula, by V. V. Azbelev.

RUSSIAN, per, Trudy Poliarnogo Nauch Issled
Inst Morskogo Rybnogo Khoziaistva i Okeanografii,
imeni N. M. Knipovich, No 12, 1960, pp 5-70.

412513

Dept of Interior
Q1301 C273 No 440

Sci-Biol

Sep 63

344,014

The oogenesis and Reproduction Cycle of the Coq,
by V. P. Sorokin.

RUSSIAN, per, Trudy PIRRO, Vol X, 1961, pp 125-144.

Dept of Interior
SB211 B82 No 359

191,513

Sci - Biol

Apr 62

Novikova, N.S. and V.I. Mikhalkovich 1963
observations on the feeding of cod and haddock in the
Barents Sea by observations lasting several days (Opyt
mnogosutochnnykh nablyudeniĭ za pitaniem treski i pikshi
Barentseva morya)
Aklimatizatsiia tikhookeanskikh lososaĭ v basseĭne Barentseva i
Belogo moreĭ, Material po biologii treski i morskikh
alekoptalushchikh Severa (A.P. Alekseev, editor), Trudy
Poliarnogo nauchno-issledovatel'skogo i proektnogo instituta
morskogo rybnogo khoziaĭstva i okeanografii im. N.M. Knipovicha
(PINRO), 15, Moscow, 279p.: 131-148. In Russian.

Transl. by Transl. Bur., For. Lang. Div., Dept. of Sec. of
State of Canada for FRBC Bioloical Sta., St. Andrews, N.B.,
as Transl. Series No. 1666, 46p., typescript.

Avail. or Loan - NMFS, Wash., D.C.

Original Article Checked 

Pavshits, e.A., and V.A. Logoleva 1964
Plankton distribution in the area of George's and Brown's
banks in 1962 (Raspredeleniye planktona v rayone bank
Izhorshes i Brauns v 1962 g.)
Trud. Poliarnogo nauchno-issledovatel'skogo instituta morskogo
rybno-okeanografii (PIIRO), 16, Moscow: 25-48.
In Russian.

Transl. by J. Bessers, 1969, for U.S. Naval Oceanographic
Office, Wash., D.C. as transl. no. 420. 32p., processed.
Another transl. by Transl. Bur., Egn. Lang. Div., Dept. of Sec.
of State of Canada, 1969, 43p., typescript. Avail. ERDC Arctic
Sci. Sta., Ste. Anne de Bellevue, Quebec, Canada as transl.
no. 1307.

Avail. on loan - OCS, Wash., D.C.

Original Avail. on loan *MX*

TT-63-20752

Baimakov, Yu. V. and Samusenko, S. P.
DETERMINATION OF TRANSFERENCE NUMBERS OF
IONS IN FUSED SALTS [Opređenje Chisel Porenosa
ionov v Rasplavlennykh Soliakh]. [1963] [43p] 23refs
Order from OTS, SLA, or ETC \$4.60 TT-63-20752

I. Title: Transport number
I. Baimakov, Yu. V.
II. Samusenko, S. P.
III. RT-777

Trans. of [Politehnicheskii Institut, Leningrad.
Trudy] (USSR) 1963, no. 1, p. 3-26.
Another trans. is available from SLA as RT-777, 42p.

DESCRIPTORS: *Fused materials, Ions, *Electrolysis,
Dissociation, Electrodes, Electrolytes, Lead com-
pounds, Potassium compounds, Chlorides.

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

Office of Technical Services

TT-63-20758

Baimakov, Yu. V. and Shelomov, V. I.
DETERMINATION OF THE TRANSPORT NUMBERS
OF THE IONS IN THE SYSTEM $AlCl_3-NaCl$
[Opređenje Chisel Perenosa Ionov v Sisteme
Khloristy Al'yumini-Khloristy Natrii]. [1963] [24p]
7refs
Order from OTS, SLA, or ETC \$2.60 TT-63-20758

I. Baimakov, Yu. V.
II. Shelomov, V. I.
III. RT-776

Trans. of [Politeknicheskii Institut, Leningrad,
Trudy] (USSR) 1938, no. 1, p. 38-48.

Another trans. is available from SLA as RT-776, 24p.

DESCRIPTORS: *Electrochemistry, *Fused materials,
*Salts, *Aluminum compounds, *Sodium compounds,
*Chlorides, *Electrolysis, Transport properties.

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

Office of Technical Services

Abramov, G. A.

DENSITY OF SYSTEMS OF FUSED FLUORIDES:
KF-NaF, K_3AlF_6 - Na_3AlF_6 , AND (K_3AlF_6 - Na_3AlF_6)-
 BaF_2 - Al_2O_3 [Plotnost' Rasplavlennykh Ptoristykh
Solei Sistem: KF-NaF, K_3AlF_6 - Na_3AlF_6 i (K_3AlF_6 -
 Na_3AlF_6)- BaF_2 - Al_2O_3]. [1963] [25p] 6refs
Order from OTS, SLA, or BTC \$2.60 TT-63-20753

Trans. of Politekhicheskii Institut, Leningrad.

Trudy (USSR) 1939, no. 1, p. 49-58.

Another trans. is available from SLA as RT-833, 18p.

DESCRIPTORS: *Fused materials, *Salts, *Cryolite,
Electrolysis, *Potassium compounds, *Sodium com-
pounds, *Aluminum compounds, *Fluorides, Density.

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

TT-63-20753

I. Abramov, G. A.
II. RT-833

Office of Technical Services

TT-64-16436

Baimakov, Yu. V. and Prishchepchik, P. A.
ELECTROCHEMICAL REACTIONS OF FORMING
MAGNESIUM AND CALCIUM CARBIDES. 20p (7 figs
omitted) 15reits
Order from OTS, SLA, or ETC \$1.60 TT-64-16436

I. Baimakov, Yu. V.
II. Prishchepchik, P. A.

Trans. of Politekhnicheskii Institut, Leningrad (Trudy)
(USSR) 1940, no. 4, p. 3-12.

(Chemistry--Physical, TT, v. 12, no. 4)

Office of Technical Services

TT-64-16426

Abramov, G. A. and Lozhkin, L. N.
THE INFLUENCE OF CURRENT DENSITY,
DISTANCE BETWEEN ELECTRODES AND
TEMPERATURE ON THE CURRENT EFFICIENCY
DURING THE ELECTROLYSIS OF ZINC CHLORIDE.
22p (9 figs omitted) Srefs
Order from GTS, SLA, or ETC \$2.60 TT-64-16426

I. Abramov, G. A.
II. Lozhkin, L. N.

Trans. of Politekhniceskii Institut Leningrad. Trudy
(USSR) 1940, no. 4, p. 36-46.

(Chemistry - Physical, TT: v. 12, no. 3)

Office of Technical Services

TT-63-20821

Abramov, G. A. and Emelyanov, N. A.
THE DEPENDENCE OF THE CURRENT EFFICIENCY
ON THE CURRENT DENSITY, THE DISTANCE
BETWEEN ELECTRODES, AND THE CONCENTRATION
OF $AlCl_3$ IN THE ELECTROLYSIS OF
FUSED MIXTURES OF SALTS OF $AlCl_3$, $NaCl$,
AND KCl [Zavisimost' Vykhoda po Toku ot Plotnosti Toka].
[1963] [15p] 6refs
Order from OTS, SLA, or ETC \$1.60 TT-63-20821

I. Abramov, G. A.
II. Emelyanov, N. A.
III. RT-1133

Trans. of [Politekh]cheskii Institut, Leningrad.
Trudy] (USSR) 1940, no. 4, p. 54-59.
Another trans is available from SLA as RT-1133, 15p.

DESCRIPTORS: *Electrolysis, *Fused materials,
*Electric currents, Electrodes, *Aluminum compounds,
*Chlorides, *Sodium compounds, *Potassium com-
pounds, Electrolytes, Electrochemistry.

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

Office of Technical Services

TT-64-14156

Zhurin, A. I.
CURRENT YIELD UNDER CONDITIONS OF THE
JOINT DISCHARGE OF TWO CATIONS ON THE
EXAMPLE OF THE ELECTROLYSIS OF $MgCl_2$ -
 $KCl-NaCl$ MIXTURES. [1963] 30p (figs omitted) 8refs
Order from OTS, SLA, or ETC \$2.60 TT-64-14156

I. Zhurin, A. I.
II. RT-2203

Trans. of [Politeknicheskii Institut] Leningrad.
[Trudy] (USSR) 1940, no. 4, p. 60-74.
Another trans. is available from SLA as RT-2203.

DESCRIPTORS: *Fused materials, Salts, *Magnesium
compounds, *Potassium compounds, *Sodium com-
pounds, *Chlorides, Electrolysis, Electric currents,
Electrochemistry.

(Chemistry--Physical, TT, v. 11, no. 10)

Office of Technical Services

Baimakov, Yu. V.
PRODUCTION OF SODIUM-POTASSIUM ALLOYS BY
ELECTROLYSIS OF FUSED CAUSTIC ALKALIES.
[1963] 33p (figs omitted) 5refs
Order from OTS or SLA \$3.60

63-18655

63-18655

1. Title: Caustic alkalies
1. Baimakov, Yu. V.

~~Trans.~~ of Politekhnicheskii Inst[inut] Leningrad.
Trudy (USSR) 1942, no. 1, p. 124-138.

DESCRIPTORS: Fused materials, *Alkalic metal alloys,
*Potassium alloys, *Sodium alloys, Eutectics,
Electrolysis, Production, Chemical compounds, Melting.

(Metallurgy, TT, v. 10, no. 10)

Office of Technical Services

Liquid Boiling With Heat Supply Through the
Wall, by D. J. Kelly, 23 pp.

RUSSIAN, per, Trudy Politekh Inst,
Vol LXXX, No 24, 1955.

SLA 60-13637

Sci
Vol 4, No VII
May 62

193,672

61-13165

Ovchinnikov, O. N.
THE INFLUENCE OF THE ENTRY VELOCITY OF
PROFILE ON THE PERFORMANCE OF A DIF-
FUSER. [1961] 27p. (10 figs. omitted) 3 refs.
[DSIR LLU] M 1841.

I. Ovchinnikov, O. N.
II. DSIR LLU M.1841

Order from OTS or SLA \$2.60 61-13165

Trans. of Politekhicheskii Institut, Leningrad.
Trudy (SER) 1955, no. 176, p. 175-188.

DESCRIPTORS: *Fluid flow, Mathematical analysis,
Velocity turbulence, *Diffusers, Tests.

The present paper expounds the results of S. M. Targ
for the case of axisymmetric flow with an arbitrary
velocity profile at entry, and it also includes the re-
sults of experiments on the performance of two dif-
fusers with convex and concave velocity profiles at
entry. The analysis indicates that from the point of
view of diffusion losses, it is better to have a convex
velocity profile at the entrance, while from the point
(Mechanics--Aerodynamics, TT, v. 6, no. 1) (over)

101665

Office of Technical Services

61-15906

Konstantinov, N. I.
COMPARATIVE INVESTIGATION OF THE FRIC-
TIONAL STRESS ON THE SURFACE OF A BODY
(Sravnitel'noye issledovaniye Napryazheniya Treniya
na Povertkhnosti Tela). Feb 61 [17]p. RTS-1500.
Order from LC or SLA ml\$2.40, ph\$3.30 61-15906

Trans. of Politehnicheskii [Institut], L[eningrad].
Trudy (USSR) 1955, no. 176, p. 201-213.

This paper describes preliminary results of tests on
comparative measurements of surface friction in a
turbulent boundary layer on an experimental plate
with various longitudinal pressure distributions.

(Aeromechanics, TT, v. 3, no. 9)

1. Surfaces--Friction
 2. Turbulent boundary layer--
Friction
- I. Konstantinov, N. I.
 - II. RTS-1500
 - III. Department of Scientific
and Industrial Research
(Gl. Brit.)

151986

Office of Technical Services

62-13164

Zamotorin, M. I.
SOLUBILITY OF COPPER AND MAGNESIUM IN
ALUMINIUM IN THE SOLID STATE AT DIFFERENT
TEMPERATURES, tr. by S. Klemantaski. 31 May 61
[13]p. 12 refs. FRI Trans. no. 157; [DSIR NLL]
M. 435.

Order from OTS or SLA \$1.60

62-13164

Trans. of Politekh[icheskii] Inst[itut] Leningrad.
Trudy (USSR) 1955, no. 180, p. 32-37.

DESCRIPTORS: Solid state physics, *Aluminum alloys,
*Magnesium alloys, *Copper alloys, *Solubility,
Fluidized solids, Atomic structure, Chemical analysis,
Chemical bonds, Chemical reactions, Phase studies,
*Transition temperature.

The chemical interaction between atoms of the solvent
and dissolved components is accompanied by geo-
metrical transformations of the volume of the solid
solution with the formation of spatial cusps. (Author)

- I. Title: Duralumin
- I. Zamotorin, M. I.
- II. FRI Trans-157
- III. DSIR NLL M. 4354
- IV. Fulmer Research Inst.,
Ltd. (Gt. Brit.)

(Metallurgy. TT, v. 7, no. 8)

Office of Technical Services

Zamotorin, M. I.
JOINT SOLUBILITY OF MAGNESIUM AND ZINC IN
ALUMINIUM IN THE SOLID STATE, tr. by
S. Klementaaki. 9 June 61 [12]p. 11 refs. FRI Trans.
no. 158; [DSIR NLL] M. 4352.
Order from OTS or SLA \$1.60

62-13163

Trans. of Politekh[n]icheski] Inst[itut] Leningrad.
Trudy (USSR) 1955, no. 180, p. 38-43.

DESCRIPTORS: Solid state physics, *Aluminum, *Zinc,
*Magnesium, *Solubility, Atomic structure, Fluidized
solids, Chemical reactions, Chemical analysis,
Chemical equilibrium.

The data obtained show that the solubility isotherms
are not in the form of smooth curves with a minimum,
as would follow from Hume-Rothery's ideas. On the
polythermal saturation curve and on solubility iso-
therms relative solubility maxima are found, which are
(Metallurgy. TT, v. 7, no. 8) (over)

62-13163

- I. Zamotorin, M. I.
- II. FRI Trans-158
- III. DSIR NLL M. 4352
- IV. Fulmer Research Inst.,
Ltd. (Gt. Brit.)

Office of Technical Services

Dobretsov, L. N.
ON THE PROBLEM OF THE THEORY OF SURFACE
IONIZATION (K Voprosu o Teorii Poverkhnostnoi
Ionizatsii) tr. by Sergey Shewchuck. Jan 62 [33]p.
(foreign text included) 7 refs.
Order from OTS or SLA \$3. 60 UCRL Trans-783

Trans. of Politeknicheskii Institut, Leningrad. (Trudy
(USSR) 1958, no. 194, p. 143-153.

DESCRIPTORS: *Electrodes, Surface properties,
*Ionization, Theory, Thermodynamics, Thermionic
effect, Atoms, Ions, Emissivity.

(Physics--Theoretical, TT, v. 9, no. 7)

62-33194

I. Dobretsov, L. N.
II. UCRL-Trans-783
III. Lawrence Radiation Lab.,
U. of California,
Berkeley

Office of Technical Services

Gonchar, V. N.
INFLUENCE OF COPPER ON THE AGEING OF AL-
LOYS OF ALUMINIUM WITH MAGNESIUM AND
ZINC, tr. by S. Klemantaski. 19 May 61 [26] p. 8 refs.
FRI Trans. no. 156; [DSIR NLL] M. 4341.
Order from OTS or SLA \$2.60

62-13158

Trans. of Politekh[nicheski] Inst[itut] Leningrad.
Trudy (USSR) 1959, no. 202 [p. 43ff].

DESCRIPTORS: *Aluminum alloys, Magnesium alloys,
*Zinc alloys, *Age factors, *Copper, Chemical analy-
sis, Mechanical properties, Heat treatment.

The greatest effect of ageing in the ternary system
aluminium -magnesium-zinc is observed in alloys
lying on the Al-T phase section. But in alloys lying on
the excess zinc or magnesium side of this section
ageing is developed to a lesser degree. This shows
(Metallurgy--Structural, TT, v. 7, no. 6) (over)

62-13158

- I. Gonchar, V. N.
- II. FRI Trans-156
- III. DSIR NLL M. 4341
- IV. Fulmer Research Inst.,
Ltd. (Gt. Britt.)

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The Methods of Study and the Utilization of
Ore Indicators in Prospecting for Concealed Ore
Bodies, by N. N. Nikiforov.

RUSSIAN, per, Tashkent. Politekhnikheskii
Institut. Trudy, No 6, 1959, pp 178-190.

MRC-C-11495

ITC 72-00022-081

Jan 73

Application of Karman's Method for Calculation of
Turbulent Boundary Layer Parameters in a Gas Flow
Past a Plate, by L. G. Loytsyanskiy, Yu. V. Lapin,

RUSSIAN, per, Trudy Politikhnicheskiy Inst, No 217,
pp 7-16.

*FTD-TT-62-1763

Sci - Phys
5 Dec 62

Temperature Stresses in a Thin Elastic Plate
with the Presence of a Source of Heat on the
Contour of the Plate, by V. K. Kul'bakh,
RUSSIAN, per, Trudy Politeknicheskoy Inst.
Seriya A, No 200, 1963, pp 49-61.

P100073967

FTD-INT-68-367

Sci-Phys

Mar 67

320,275

Effect of Unequilibrated Dissociation
on Flow Around Blunt-Nosed Bodies,
by Yu. P. Lun'kin, N. P. Shtengel', 7 pp.
RUSSIAN, per, Trudy Politekhnicheskiy Instit
Leningrad, No 130, 1964, pp 7-12. 9698664
FTD-TT-65-649

Sci-001
HRV 65

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Plankton Distribution in the Area of the Georges
Bank and the Browns Bank in 1962, by
Ye. A. Pavshikov, M. A. Gogoleva. 43 pp.
RUSSIAN, per, Trudy PINCO, Vol 16, 1964,
pp 25-48.

Dept of Interior
Bureau of Commercial Fisheries
Office of Foreign Fisheries
A-30-July 1969-No 113
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Sci-B&M
Nov 69

397,292

Seasonal Phenomena in the Plankton of the
Labrador Shelf, the Grand Bank off Newfound-
land and Flemish Cap, by T. N. Semenova, 44 pp.
RUSSIAN, per, Trudy PINRO, Vol 16, 1964,
pp 49-77.
NAV/NOO/Tran-421-69

Sci-Ear Sci
Dec 69

397,362

Distribution of Euphausiid in the Great Newfoundland Bank Area Depending on the Dynamics of Water Mass, by S. S. Drobysheva. 19 pp.

RUSSIAN, per, Trudy PINRO, Vol 16, 1964,

pp 79-88.

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A-30-July 1969-No 23

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Nov 69

397,252

Problem of Alloying Heat Resistant Nickel
Base Alloys, by V. G. Khoroshaylov, 11 pp.
RUSSIAN, per, Trudy Politeknicheskoy Instit
Leningrad, No 234, 1964, pp 89-95.

9698684

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Sci-Engr

Nov 65

291,477

The Conditions for the Formation of the Arctic-Norwegian School of Cods from the 1959, 1960 and 1961, Generations in the First Year of Life, by A. S. Baranenkov, N. S. Khokhlin.

RUSSIAN, per, Trudy PINRO, Vol 16, 1964, pp 195-214.

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Changeability on Ice Conditions of the Labrador
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RUSSIAN, per, Trudy FIERO, Vol 16, 1964,
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Convection Study in Layers of Polymerized Methyl-
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RUSSIAN, per. Turdy po Khim i Khim, Tekhnol.,
No 3, 1960, pp 422-428. P911020266
AEC BNL tr-75

Sci/Chemistry
Sep 66

309,370

Investigation of Concentration Dependence
of the Intensity of Aluminum and Zinc Lines
in Contact-pulse Sampling of the Al-Zn
Alloy Substance, by D. P. Milenina,
N. K. Rudnevskiy, et al. 6 pp.
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pp 8-11. 9700069
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May 66

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**New Capabilities of Spectral Analysis of Metals
and Alloys With the Use of Preliminary Batching
by Contact Spark Discharge, by K.V. Gudkova,**

K.I. Taganov, et al. 9 pp.

**RUSSIAN, per, Trudy Po Khimii i Khimicheskoy
Tekhnologii Gor'kiy, No 1, 1963, pp 26-30.**

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Sci/M&M

Aug 66

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Investigation of Characteristics of Inflow
of Al-Zn Alloy Material into an AC Arc
Discharge and Concentration Dependence of
the Intensity of Aluminium and Zinc Lines,
by E. S. Obukhova, N. K. Rudnevskiy. 9 pp.
RUSSIAN, per, Trudy Po Khimii i Khim.
Tekhnologii, No 1, 1963, pp 43-46. 9700182
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Sci/MGM
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Turbulent Boundary Layer in a Gas Flow With
Heat Transfer and a Prandtl Number Different
From Unity, by Yu. V. Lapin, 15 pp.

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1961, pp 27-36. 9683275

PTD-TT-63-284

Sci-Phys
Jun 63

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Power Machine Construction,

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No 221, pp 5-10, 103-109.

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On the Problem of the Nature of Phase Transformations
in Metals and Alloys, by N. M. Ivanova, T. A. Lebedev.

RUSSIAN, per, Trudy Politekhnicheskii Institut, 1962,
pp 108-114.

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Sci - Mat & Met

Aug 63

Speed Distribution of Liquid Metal in an Annular
Channel of Rectangular Section, by V. I. Meshburd,
13 pp.

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Seriya A, No 214, 1964, pp 43-53. F100367267
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Sci/Mech, Indus, Civil & Mar Engr
Jan 68 348, 324

Plotting the Performance Characteristics of
Radial-Axial Inward Flow Turbines,
by K. P. Dvoretzkiy
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No 264, 1966, pp 79-83.
*FTD-HT-23-518-68

Sci/Mechanical Engr
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Studying the Movement of a Liquid in a Jet Tube,
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RUSSIAN, per, Trudy. Leningrad. Politekhnikeskly
Institut. "Avtomatizatsiya i Tekhnologiya Mashin-
ostroyeniya, No 233, 1964, pp 77-84. 9700760
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Sci/Engr
Jun 66

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Solubility of Calcium Sulfate in Mixes of Salts,
Generally Occurring in Natural Waters, by A. I.
Morozova, G. N. Pirova, 16 p.

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Novocherkassk Nauchnyye, 1956, Vol XXVII, No 41,
pp 151-165.

SLA 59-17637

Sci
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Vol 2, No 10

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The Active Mass of a Zinc-Silver
Storage Battery, by M. P. Skalonow.
RUSSIAN, per Trudy, Politekhnicheskdy
Institut Novocherkassk, Vol 134, 1962,
pp 3-18
*FTD-MT-65-485

Sci-Elec
Oct 65

Effect of Ultrasonics on Some Properties
of the Nickel-nickel Hydroxide in
Alkaline Batteries, by L. A. Sukor,
M. P. Stalovoy.
Zhurnal, per. (Russ. Chemical Society
Izvestiya Academy of Sciences, Vol 154, 1952,
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* 57-157-43-415

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The Dynamics of the Production of Volatile
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Ser A. No 63, 1955, pp 65-81.

ATS-71M39R

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Sci

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Vol XLIV, 1954, pp 262-280.

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Sci - Geophys
Aug 62

211, 212

(FDD 21600)

A New Program for the Latitude Service and Its Trial
at Poltava, by Ye. P. Fedorov, 4 pp.

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Scientific - Geophysics, gravimetry, fluctuations in
latitude

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No 14, 1965, pp 51-71.
*FTD-HT-67-375

Sci - Elect & Elec
Engr
Mar 67

The Spotty Tundras of the Anadyr District,
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Scientific - Geophysics

Geographic -

62-15583

Glazunov, S. P.
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- I. Title: Pechora Territory
- II. Glazunov, S. P.
- III. ACIC LD-2
- IV. Astronomical Chart 1493
Information Center,
St. Louis, Mo.

Trans. of [Academy of Sciences] Polyarnaya Komissiya. Trudy 1962, v. 10.

DESCRIPTORS: Catalogs, Astronomy, Astronomical data, Geography, Luminometry, Geodesics, Geodetic astronomy, USSR.

Classification:

Office of Technical Services

Distribution of White Whales in the European-
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Urals; by E. D. Sosakina, 11 pp.

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Sci - Geophys

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SLA TT-64-19155

Sci/B&M
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SH 11
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Sci - Biol

The Herring With Low Vertebral Count (Clupea harengus pallasi Val.) of the Barents and Kara Seas, by V. K. Baipov, 12 pp.

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Morskogo Rybnogo Khoz i Okeanograf, No 1, 1938,
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OTS 60-51149
EL-480

Sci - Biol

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BSF 357