

Investigations in the Electric Pressure Oven. IV.
Alkali Peroxides Directly from Alkali Hydroxides
and Oxygen, by Franz Fischer, Hans Floetse, 11 pp.

GERMAN, per, Z Anorg Chem, Vol LXIV, 1912, pp 30-40.

S.L.A.

Scientific - Chemistry

24780

Concerning the Reduction of Silica, by H.
Wartenberg.

GERMAN, per, Zeitschrift fur Anorganische Chem,
Vol LXXIX, 1912, pp 71-75.

Dept of Int
US Bur of Mines
Central Exper Sta
Pitts., Pa. Tr 33

Sci - Chem

Jan 59

89, 910

On Bismuth - Iodine Compounds, by H. S. van Klooster,
16 pp.

German, per, Z Anorg Chem, Vol LXXXI, 1913,
pp 104-118.

ANC Tr-4213

Sci - Chem
19 Jan 61

137319

Silicon and its Position in the Thermo-Electric Series, by F. Fischer, R. Lepsius, E. Baerwind, 12 pp.

GERMAN, par, Z. Anorg Chem, Vol LXXXI, 1913, pp 243-256.

SIA 57-2319

Jul 58

69, 969

Comparison of the Sulphates of the Alkaline
Earths and Lead in the Temperature Concentration
Diagrams with Potassium Sulphate with Special
Reference to the Dimorphy of Anhydrite, Celes-
tite, Barytes and Anglesite, by W. Grahmann
GRHMAN, per, Zeit. Anorg. Chem. Vol 81, 1913,
pp 257-264.
MIL Ref: 5196 (1384)

Sci-Chemistry
Aug 68

362,201

Note on Charcoal Guide, by Th. Dieckmann, O. Rind,
5 p.

GERMAN, per, Zeit fur Anorg Chem, 1914, Vol LXXVI,
pp 301-304.

BLA 59-20863

Sci
Mar 60
Vol 3, No 1

119,856

On Acid Sodium Borates, by J. Ponowareff, 14 pp.

GERMAN, per, Z fuer ANGEW. Chem, Vol. LXXXIX, No 3/4,
5 Nov 1914, pp 383-392.

Dept of Commerce
Patent Office
Sci Lib (gift)

Sci - Chem
Jan 58

57,971

Cerium - Magnesium Alloys, by Rudolf Vogel, 26 pp.

GERMAN, per, Zeit. Anorg. Chem., Vol XII, 1915, pp 277-298.

ASC-UCRL-Tr-930(L)

Sci - Mat & Mat

Aug 63

543,411

Platinum-Iridium Alloys, by W. Geihler.

GERMAN, per, Z. Anorg Chem, Vol. LXX, ^{No 1911,}
pp 246-251, ₂ Nov 1917,

SLA 98-103

Sci

Aug 59

94, 209

63-10483

Balarew, D.
THERMAL DECOMPOSITION OF METAPHOSPHORIC
ACID. [1962] 8p. 7 refs.
Order from SLA \$1.10

63-10483

Trans. of Zeitschrift für Anorganische Chemie
(Germany) 1917, v. 102, p. 34-40.

DESCRIPTORS: *Phosphoric acid, Pyrolysis, Labora-
tory equipment

I. Balarew, D.

(Chemistry--Inorganic, TT, v. 10, no. 1)

Office of Technical Services

Stannic and Plumbic Acids Salts, by H. Zocher.

GERMAN, per, Z Anorg Chem, Vol CXII, 1920,
pp 1-66.

TIL Tr 4768

Sci - Chem
Jan 58

57,225

The Effect of Grain Boundaries on the
Electrical Characteristics of Solid
Crystals, by C. Tubandt,
GERMAN, per, Z. Anorg. Chemie, 115, 1921
pp. 105-126.
*NBS TT 70-57274

Sci/phys
Jul 70

Diffusion of Carbon in Iron, by I. Runge.
GERMAN, per, Z anorg Chem, No 115, 1921, pp 293-311.
*NBS TT 70-57498

Sci-Mat
Aug 70

On the Diffusion of C in Metals and Par-
ticularly Iron Polycrystals, by
G. Tammann.
GERMAN, per, Z. Anorg. Chem 122, 1922,
pp. 27-43.
*NES TT 70-57288

Sci/mater
Jul 70

The Absorption of Nitrogen by Calcium and its Alloys,
by ~~MAXIM~~ O. Ruff, H. Hartmann, **DECLASSIFIED**

GERMAN, por, ~~XXX~~ Z. anorg. Chem., Vol CXXI, 1922,
pp 167-177.

TPA3/TIB
T 4190

15,503

Scientific - Chemistry

The Reduction of Titanium Tetrachloride, by
O. Ruff, F. Neumann, 12 pp.

GERMAN, per, Z Anorg Chem, Vol CXXVIII, 1923,
pp 81-95.

SLA Tr 2104

Sci - Chemistry
Sep 57

53,016

Ruff, O. and Foerster, E.
[OPERATIONS] IN THE [RANGE] OF HIGH TEMPERA-
TURES. XVI. CALCIUM CARBIDE: ITS FORMATION
AND DECOMPOSITION. [1962] 34p. 16 refs.
Order from SLA \$3.60

62-20195

Trans. of Zeitschr[ift für] Anorg[anische] Chem[ie]
(Germany) 1923, v. 133, p. 321-347.

DESCRIPTORS: *Calcium compounds, Decomposition,
Fused materials, High temperature research, *Car-
bides, Preparation, Nitrogen, Hydrogen, Water vapor,
Carbon compounds, Monoxides, Vapor pressure,
*Thermochemistry.

The question of the existence of a second carbide,
possibly CaC_2 , is answered in the negative on the basis
of gas-analytical investigations. Using a high-purity
carbide which had been prepared by various methods
from calcium and carbon the dissociation pressure and
(Chemistry--Physical, TT, v. 9, no. 10) (over)

62-20195

- I. Ruff, O.
- II. Foerster, E.
- III. Title: Calcium...
- IV. Its...

Fused Electrolytes, Born's Lattice Forces, and
the Constitution of the Salts, by Wilhelm Biltz,
18 pp.

GERMAN, per, Z. anorg Chem, Vol (XXXIII), 1924,
pp 312-324.

S.L.A.

Scientific - Chemistry

OTS 68/May 55

23, 624

Equilibria Between Metals and Salts in the Melt, no 4.
Contribution to the theory. II, by Richard Lorenz,
8 pp.

Full translation.

GERMAN, per, Z. anorg. Chem., Vol CXXXVIII, 1924,
pp 285-290.

S.L.A.

Scientific - Minerals/metals

Jul 55

26, 949

Hermans, P. H.
THE CONSTITUTION OF BORIC ACIDS AND SOME
OF THEIR COMPOUNDS. [1961] [31]p. (6 tables
2 figs. omitted).
Order from SLA \$2.60

61-18882

Trans. of Zeitschrift für Anorg[anische] Chemie]
(Germany) 1924, v. 142, p. 83-114.

DESCRIPTORS: *Boric acids, *Boron compounds,
Hydroxides, Chemical analysis, Chemical reactions.

(Unannounced)

61-18882

I. Hermans, P. H.

Office of Technical Services

Conversion Rate Of Ammonium Nitrate by A.
Sievarts.

7 Anorg. Chem.
GERMAN, per, Vol CXLIV, 1925, pp 66-73.

CSIRO

Oct. 62

Density Measurements on Fused Chlorides, by Wilhelm
Klamm, 29 pp.

Full translation.

GERMAN, per, Z. anorg. Chem., Vol CLII, 1925,
pp 235-251.

S.L.A.

Scientific - Chemistry

Jul 55

26,883

On the Conditions for the Formation of the Aluminium
Borides by H. Funk.

GERMAN, per, Z. Anorg. Chem, Vol CXLII, 1925,
pp 269-279.

TPA3/TIB T 3905, P 22326T

EEur - Germany

The Oxide and Chloride of Rhenium, by L. Wohler.
GERMAN, per. Z. Anorg. Chem., No 149, 1925, pp 133-
138.

*NBS TT 70-57507

Sci-Mat
Aug 70

Tammann, G. and Veszi, G.
THE ELECTRICAL CONDUCTANCE OF SALTS IN
SINGLE CRYSTALS AND CRYSTALLITE CONGLOM-
ERATES. [1962] 43p. (figs. omitted) 16 refs.
Order from SLA \$3.60 62-18275

Trans. of Z[schreibf. für] Anorganische] Chemie
(Germany) 1926, v. 150 [no. 4] p. 355-380.

DESCRIPTORS: *Crystals, *Single crystals, Salts,
Electrical conductance.

(Physics--Solid State, TT, v. 9, no. 4)

62-18275

I. Tammann, G.
II. Veszi, G.

Office of Technical Services

Further Contributions to the knowledge of the
Conductivity of Fused Salts (II), by Wilhelm Klamt,
Wilhelm Blitz, 16 pp.

Full translation.

CLII.

GERMAN, per, Z. anorg. Chem., Vol CLII, 1926,
pp 225-234.

S.L.A.

Scientific - Chemistry

26,884
Jul 55

The Electrical Conductivity and Molecular State of
Fused Salts, by Wilhelm Hiltz, Wilhelm Klemm, 48 pp.

GERMAN, par, Z. Anorg Chem, Vol CLII, 1926,
pp 257-294.

U.L.A.

Scientific - M Chemistry

CTH/65 Feb 1955

21,740

Density and Molecular State of Fused Salts, by
Wilhelm Klemm, 31 pp.

Full translation.

GERMAN, per Z. anorg. Chem., Vol. CLII, 1926, pp 295-313.

S.L.A.

Scientific - Chemistry

26,882

Jul 55

A Method of Preparing Large Crystals,
by S. Kyropoulos.
~~SECRET~~, per, Z Anorg Chem, Vol CLIV,
1926, pp 308-313.
*AEC
EDC May 1, 1966

Sci-Eng/Chem
Mar 66

The Mobilization of Metal Surfaces by Diffusion,
by G. Grube.
GERMAN, per, Z. Anorg. Chem., No 154, 1926, pp 314-332.
•NBS TT 70-57420

Sci-Mat
Aug 70

The Beginning Temperature of Internal Diffusion in
Crystals, by G. Tammann.
GERMAN, per, Z. Anorg Chem., No 157, 1926, pp 321-325.
*NTIS TT 72-53057

Aug 72

Some Observations of Diffusion in Poly-
crystalline Salts, by C. Tubandt, 4 pp.
GERMAN, per, Z. Anorg, Chem. 166, 1927
pp. 27-30.
*NBS TT 70-57844

Sci/phys
Jun 70

Tammann, G. and Hönninger, J.
THE INTERNAL FRICTION OF MERCURY. [1922]
Sp. Abs. entitled "Frets."
Order from S.A. 51, 10. 62-10535

Trans. of [Zeitschrift für] Anorganische Chemie;
(Germany) 1927, v. 167, p. 230-236.

DESCRIPTORS: *Mercury, Internal friction, Capillary
tubes.

(Physics--Solid State, TT, v. 8, no. 9)

62-10535

I. Tammann, G.
H. Hönninger, J.

Office of Technical Services

Uranium Oxides: 1. Preparation and Analysis,
by W. Biltz, H. Muller

Full translation.

GERMAN, per, Z. Anorg Chem, Vol CLXIII, CLXIV,
1927, pp 258-263.

TPA3/TIB Tr No T-1087

Scientific - Minerals/Metals
Index Aeronautics
Jun 53 CTS/DEX

2309

Uranium Oxides (A Survey of the State Range Between
 UO_3 and UO_2), by W. Biltz, H. Muller

Full translation.

GERMAN, per, Z. Anorg Chem, Vol CLXIII, CLXIV,
1927, pp 294-296.

TPA3/TIB Tr No T-4089

Scientific - Minerals/Metals

Index Aeronautics

Jun 53

CTS/DEX

2310

62-12032

Leber, Ad.
THE SYSTEM ALUMINUM-THORIUM (Das System
Aluminium-Thorium). [1961].
Order from AC \$12.00

Trans. of Z[schrift] für Anorg[anische] Chemie.
(Germany) [1927] v. 166 [no. 1/3] p. 16-26.
Another trans. is available from SLA ml\$2.40,
ph\$1.30, as AEC-tr-3722 [1959] 12p.

DESCRIPTORS: *Aluminum, *Thorium, *Alloys,
Synthesis, Microstructure, Thermodynamics,
Crystals, Separation.

This paper covers the preparation of aluminum-
thorium alloys, analysis of the thorium alloys,
thermal investigation, microscopic structural investi-
gations, isolations of the crystals, a new method for
isolating crystals, etc. (AC abstract)
(Metallurgy--Light Metals, TT, v. 7, no. 3)

I. Leber, A.
H. Capelo, A., Hollywood,
Calif.

Office of Technical Services

Surface Charges in Metals During Diffusion.

by G. Grube,

GERMAN, per. Z. Anorg. Chem. No 168, 1928, pp 17-30.

*NBS TT 70-57422

Sci-Mat

Aug 70

Experiments on the Complete Chemical Reaction of
Beryllium, VI, by R. Fricke, P. Rohrer, 10 p.

GERMAN, per, Zeit. für Anorg. Chemie, 1936, Vol. 217,
No 1/2, pp 25-36.

SIA 59-20781

Sci
Mar 60
Vol 3, No 1

110,857

The Kinetics of the Absorption Process of Hydrogen
in Pd, Fe, and Ni, by G. Tammann, 22 pp.
GERMAN, par, Z. Anorg. Chem. 172, 1928, pp. 43-64
*NBS TT 70-57842

Sci/chem
June 70

62-10104

FERRIC ETHYL ATIE: PREPARATION AND PROP-
ERTIES. 4 Jan 56, 4p. 3 refs.
Order from SLA \$1.10

62-10104

Trans. of Z[eitschrift] für Anorg[anische] Chemie
(Germany) 1929, v. 180, p. 65-[68].

Portions of this report will not reproduce well.

DESCRIPTORS: Iron compounds, Ethyl radicals,
Synthesis, Oxides

(Unannounced)

Office of Technical Services

Surface Transport Studies Over Tungsten, by
W. Geiss.
GERMAN, per, Zeit Anorg Chem, Vol. 168, 1928,
pp 107-112.
*Nat Bur Stand TT 70-57808

Sci-Chem

Diffusion in Tightly-Bonded Crystals,
by C. Tubandt, 33 pp.
GERMAN, per, Z. Anorg. Chem. 177, 1928
pp. 253-285.
#NBS TT 70-57846

Sci/phys
Jun 70

Study of the Ag-Cu Eutectic Alloy, by
J. A. A. Leroux.
GERMAN, per, Z Anorg Chem, No 178, 1929, pp 257-
271.
*NBS TT 70-57505

Sci-Mat
Aug 70

The Fluorides of Group VIII of the Periodic Table,
by Otto Ruff, Ernst Ascher.

XXXXX

GERMAN, per, Zeitschrift für Anorganische Chemie,
Vol CLXXXII, 1929.

ABC Tr '77

13,001

OTS Oct 1949 (1/49)

Scientific - Man/Metals

~~SECRET~~

On the Properties of Some Metal Hydrides, Part II,
by A. Sieverts, A. Gotta

GERMAN, par, Z Anorg Chem, Vol CLXXVII, 1930,
p 155.

A.E.R.E. Barwell
11/3/5/364 OT/724

Scientific - Chemistry 8700
CTB/DEK

Study of Surface Phenomena on Metals During
Diffusion: The Diffusion of Mo and Fe in the
Solid State, by G. Grube.

GERMAN, per, Z. Anorg. Chem., No 188, 1930, pp 274-
289.

*NBS TT 70-57489

Sci-Mat
Aug 70

63-10592

Hantzsch, A. and Berger, K.
NITROSYL PERCHLORATE AND NITROSYL SURFACE
ALSO THEIR COLORED REDUCTION PRODUCTS.
14 June 60, 16p. 24 refs.
Order from SLA \$1.60

63-10592

Trans. of Zeitschrift für Anorganische
Chemie (Germany) 1930, v. 190, p. 321-336.

DESCRIPTORS: *Nitrogen compounds, *Perchlorates,
*Sulfates, Chemical properties, Molecular structure,
Reduction (Chemistry), Colors.

I. Hantzsch, A.
II. Berger, K.

(Chemistry--Inorganic, TT, v. 10, no. 2)

Office of Technical Services

Tammann, G.
THE RELATIONSHIP BETWEEN THE SOLUBILITY
OF RARE GASES IN LIQUIDS AND THE TEMPERA-
TURE. [1960] 5p. 10 refs.
Order from SLA ma\$1.80, ph\$1.80

61-10775

Trans. of Z[it]sch[ift für] Anorg[anische] Chem[ie]
(Germany) 1930, v. 194, p. 159-161.

(Unannounced)

61-10775

1. Rare gases--Solubility
1. Tammann, G.

151748

Office of Technical Services

Investigation of the System $\text{Na}_2\text{O} - \text{SiO}_2 - \text{ZrO}_2$,
by J. D'Ans, J. Loeffler, 38 pp.

GERMAN, per, Z. anorg. Chem, Vol CXCII, 1930,
pp 1-35.

ARC Tr 2068

Scientific - Chemistry

Mar 55 CTS/dax

22,283

Diffusion Studies in Solid W and Mo, by W. Jander.
GERMAN, per, Zeit Anorg Chem, Vol 191, 1930,
pp 171-180.
*Nat Bur Stand TT 70-57823

Sci-Chem
Jul 70

Investigation of the Behavior of Ag and
Ag-Cu Alloys During Annealing in Oxygen
and Air, by J. A. Leroux.

GERMAN, per, Z. Anorg. Chem, 179, 1930
pp. 205-231.

*NBS TT 70-57285

Sci/mater
Jul 70

Hardness of Metal Alloys at Various Temperatures,
by W. Schischekin, W. Agejewa, 3 p.

GERMAN, partial trans, per, Zeit. für Anorgan. Chemie,
1930, Vol. CCXIII, No. 3, pp 237-244.

SLA 59-20436

Sci
Mar 60
Vol 3, No 1

Reaction Rates Taking Place Inside Some Inorganic
Solids at High Temperatures, by W. Jander.
GERMAN, per, Zeit Anorg Chem, Vol 189, 1931,
pp 306-320.
*Nat Bur Stand TT 70-57824

Sci-Chem
Jul 70

Rosenheim, Arthur, Raibmann, Basia, and
Schendel, Gerhard.
INNER COMPLEX PYROCATECHOLATES OF TETRA-
VALENT ELEMENTS. [1961] 4p. 6 refs.
Order from SLA \$1.10 62-10080

Partial trans. (excerpts) of Z[eitschrift für]
Anorg[anische] Chem[ie] (Germany) 1931, v. 196,
p. 160-164 and 175-176.

DESCRIPTORS: Pyrocatechol, Complex compounds,
Silicon, Titanium, Zirconium, Thorium, Uranium

(Unannounced)

62-10080

- I. Rosenheim, A.
- II. Raibmann, B.
- III. Schendel, G.

Office of Technical Services

63-10593

Ruff, Otto and Staub, Lisbeth.
NITROGEN FLUORIDE AND THE CONDITIONS OF
ITS FORMATION. 29 Oct 58, 6p. 8 refs.
Order from SLA SL 10 63-10593

I. Ruff, O.
II. Staub, L.

Trans. of Z[eitschrift für] Anorg[anische] Chem[ie]
(Germany) 1931, v. 198, p. 32-38.
Another trans. is available from SLA as #921, 11p.

DESCRIPTORS: *Nitrogen compounds, Fluorides,
Synthesis (Chemistry), Electrolytes, Temperature,
*Ammonium compounds, *Electrolysis, Amines,
Electrochemistry.

In the electrolysis of ammonium fluoride-hydrofluoric
acid mixtures, nitrogen fluorides in various ratios are
formed, conditional above all on the ammonia con-
centration and the temperature of the electrolyte. The
quantity of NF_3 is always the largest; next to it appear
(Chemistry--Physical, TT, v. 10, no. 1) (over)

Office of Technical Services

62-14415

Ruff, Otto and Keim, Rudolf.
THE FLUORINATION OF CARBON COMPOUNDS
(BENZOL AND TETRACHLOROMETHANE WITH
IODINE-5-FLUORIDE, AS WELL AS TETRA-
CHLOROMETHANE WITH FLUORINE) (Fluorierung
von Verbindungen des Kohlenstoffs (Benzol und
Tetrachlormethan mit Jod-5-Fluorid, sowie
Tetrachlormethan mit Fluor)). [1962] [26]p. (foreign
text included) 24 refs.
Order from S.L.A. \$2.60

62-14415

Trans. of Zeitschrift für Anorganische Chemie
(Germany) 1931, v. 201, p. 245-258.

DESCRIPTORS: Carbon compounds, Fluorination,
Chlorides, Methanes, Iodine, Fluorides, Fluorine.

(Unannounced)

O. Ruff, O.
R. Keim, R.

Office of Technical Services

Studies of Lead Alloys, by E. Garre, A. Muller,
7 pp.

GERMAN, per, Z Anorg Chem, Vol CXCVIII, 1931,
pp 297-309.

SLA 59-15444

Sci - Minerals/Metals
Sep 99
Vol II, No 2

98,663

On the Properties of Some Metallic Hydrides; 3.
Titanium Hydride, by A. Sieverts, A. Gotta

GERMAN, per, Z Anorg Chem, Vol CLXII, 1931,
pp 384-386.

A.E.E.E. Harvell
11/3/5/365 OR/712

Scientific - Chemistry
CTS/DEK

8901

Ruff, O[tto], Menzel, W., and Neumann, W.
NOF AND NO₂F. [1962] 11p. (fig. omitted) 8 refs.
Order from SLA \$1.60 62-16481

Trans. of Zeitschrift für Anorg [anische] Chem[ie]
(Germany) 1932, v. 208, p. 293[-303].

DESCRIPTORS: *Nitrogen compounds, *Oxyfluorides,
Production, Purification, Chemical properties,
Physical properties, Stereochemistry.

(Chemistry--Inorganic, TT, v. 9, no. 1)

62-16481

I. Ruff, O.
II. Menzel, W.
III. Neumann, W.

Office of Technical Services

62-10550

Hüttig, Gustav F. and Möldner, Herbert.
ACTIVE OXIDES. LXIII. SPECIFIC HEATS OF
CRYSTALLIZED ZINC HYDROXIDES AND CALCU-
LATION OF THE AFFINITIES BETWEEN ZINC
OXIDE AND WATER. [1961] 13p. (2 figs. omitted)
22 refs.
Order from SLA \$1.60

62-10550

Trans. of Zeit[schrift] für Anorg[anische] Chem[ie]
(Germany) 1933, v. 211, p. 368-378.

DESCRIPTORS: *Specific heat, Crystallization, *Zinc
compounds, *Oxides, Water, Hydroxides.

- I. Hüttig, G. F.
- II. Möldner, H.
- III. Title: Specific . . .

Office of Technical Services

(Unannounced)

Oxidation of Phosphorus with Water at Elevated Pressures and Temperatures, by W. N. Ipatieff, Carl Freitag, 37 p.

GERMAN, per, Zeit Anorg Chem, 1933, Vol CCXV, No 3/4, pp 388-414.

SLA 60-10440

Sci
Apr 60
Vol XIX, No 3

112,071

Balz, Gunther and Mailander, Erich.
NITROSYL BOROFLUORIDE AND ITS REACTIONS
WITH ALKALI FLUORIDES [1961] 9p. 7 refs.
Order from SLA \$1.10 52-10101

Trans. of Z[eitschrift für] Anorg[anische] Chemie
(Germany) 1934, v. 217, p. 161-[168].

DESCRIPTORS: Alkali metals, Fluorides, Nitrogen
compounds, Oxyfluorides, Borides, Chemical reactions

(Unannounced)

52-10101

I. Balz, G.
II. Mailander, E.

Office of Technical Services

On the Cause of Large Grains in Irons,
by E. Scheil, 8 pp.
GERMAN, per, Z. Anorg. Chem. 211, 1935,
pp. 249-256.
*NBS TT 70-57835

Sci/mat
Jun 70

Solutions of Organic Acids in Hydrogen Fluoride, by
W. Klatt.

GERMAN, per, Z Anorg Chem, Vol CCXXII, 1935,
pp 289-302.

SLA 57-2900
RAE Farnborough Tr 654

Sci - Chemistry
Mar 58

59,261

On Metal Membranes, by N. V. Kultaschaff.
GERMAN, par, Zeit Anorg Chem, Vol 223, 1935,
pp 177-184.
*Nat Bur Stand TT 70-57815

Sci-Materials
Jul 70

Nikitin, B. A.
RADON HYDRATE. 8 Dec 61, 18p. 26 refs.
Order from SLA \$1.60 63-10117

Trans. of Zeitschrift für Anorganische Chemie
(Germany) 1936, v. 227, p. 81-93.

DESCRIPTORS: *Radon, Gases, *Hydrates, Dissocia-
tion, Heat of formation, Helium group gases, Complex
compounds.

(Nuclear Physics and Nuclear Chemistry, TT, v. 9,
no. 11)

63-10117

I. Nikitin, B. A.

Office of Technical Services

Huber, H.
CONCERNING AN ACID SODIUM POLYPHOSPHATE.
[1960] 7p. 11 refs.
Order from SLA mi\$1.80, ph\$1.80 61-10230

Trans. of Zeitschrift für Anorganische Chemie
(Germany) 1936, v. 230, Dec, p. 123-128.

148,487

(Unannounced)

61-10230

1. Sodium phosphates--
Properties
1. Huber, H.

Office of Technical Services

62-18686

Schriel, M.
ON THE ACTION OF BARIUM (METAL) ON BARIUM
OXIDE AT HIGH TEMPERATURES. Excerpts from
thesis, Technische Hochschule, Charlottenberg, Nov 35.
1952, 9p. (figs. tables refs. omitted).
Order from SLA \$1.10 62-18686

Trans. of Zeitschrift für Anorganische Chemie
(Germany) 1937, v. 234, 8 Apr, p. 313-326.

DESCRIPTORS: *Barium, *Barium compounds,
Oxides, Metals, High temperature research.

(Metallurgy--Light Metals, TT, v. 9, no. 10)

I. Schriel, M.
II. Technische Hochschule,
Charlottenburg (West
Germany)

Office of Technical Services

Leschewski, K. and Degenhard, W.
THE CHEMICAL CHANGES OF MOLTEN ALKALI
NITRATES AT TEMPERATURES BETWEEN 400 AND
600° C. [1960] 7p. 4 refs.
Order from SLA mi\$1.80, ph\$1.80

61-10764

Trans. of Zeitschrift [für] Anorganische Chemie
(Germany) 1938, v. 239, p. 17-26.

(Unannounced)

61-10764

- I. Alkali metal nitrates --
Temperature factors
I. Leschewski, K.
II. Degenhard, W.

101764

Office of Technical Services

The System Potassium Sulfate-Potassium Sulfide, by
Joseph Goubeau, Hans Kolb, Hans Krall, 16 p.

GERMAN, per, Zeitschrift fur Anorganische Chemie,
1938, Vol CCXXVI, pp 45-56.

SLA 59-17305

Sci
Jan 60
Vol 2, No 8

105,570

X-Ray Investigation of the System Co-G, by
D. Ennlqvist, A. Westgren.

GERMAN, per, Zeit Anorganische Chemie, Vol. CCXXXIX,
1938, pp 28-30.

*SLA/A-139

Sci - Chem
Jul 63

The Relationships of the Alkali Metals to
Each Other, by D. Bohm, W. Nienke

GETTICH, GER, Z Anorg Chem, Vol CCXVIII, 1917,
pp 69-87.

A.D.R.F. Farrell
11/3/5/820 00125

Scientific - Minerals/Metals
CIS/MLA

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SLA 60-10084

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The High Temperature Transformations of Ferrous
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SLA Tr 57-1150

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Scientific - Chemistry, solutions, oxygen, titanium

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[42]p. 57 refs.
Order from SLA \$4.60

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(Germany) 1941, v. 247, p. 65-95.

DESCRIPTORS: Synthesis, *Magnesian compounds,
*Silicates, *Gels, *Crystal structure, Chlorides,
Montmorillonite, *Mica, Heat treatment, Hydroxides.

(Earth Sciences--Mineralogy, TT, v. 10, no. 1)

63-10437

I. Strese, H.
II. Hofmann, U.

Office of Technical Services

62-10526

Jander, Wilhelm and Franke, Bruno.
THE FORMATION OF CALCIUM SILICATE HY-
DRATES FROM CALCIUM OXIDE AND SILICIC ACID
AT 300° AND 350° C AND HIGH PRESSURES (Die
Bildung von Calciumhydrosilikaten aus Calciumoxyd und
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[1961] [38]p. (foreign text included) 11 refs.
Order from SLA \$3.60

I. Jander, W.
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(East Germany) 1941, v. 247, p. 161-179.

DESCRIPTORS: *Calcium compounds, *Silicates, *Hy-
drates, *Oxides, *Silicic acids, Temperature,
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DIMENSIONS OF PRIMARY AND SECONDARY
PARTICLES OF SOME CRYSTALLINE FERRIC
HYDROXIDES. Communication 66 on the Field of
Active Solid Materials. [1961] 4p. 17 refs.
Order from SLA \$1.10 62-10358

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Chem[ie] (Germany) 1943, v. 251, p. 424-428.

DESCRIPTORS: *Iron compounds, *Hydroxides,
Particles, Crystals, Crystallization, Microanalysis,
Microstructure.

(Chemistry--Inorganic, TT, v. 7, no. 8)

OR-

62-10358

I. Fricke, R.
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III. Title: Field. . .

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63-10589

Glemser, Oskar and Sauer, Hubert.
TUNGSTEN OXIDES. 12 July 58, 14p. (figs. tables
omitted) 26 refs.
Order from SLA \$1.60

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DESCRIPTORS: *Tungsten compounds, Oxides,
Synthesis, Phase studies, Chemical reactions.

I. Glemser, O.
II. Sauer, H.

(Chemistry--Inorganic, TT, v. 10, no. 2)

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Kröger, C. and Behr, W.
PEROXIDE FORMATION IN POTASH LYE (KOH).
16 June 60, Sp. (figs. omitted) 10 refs.
Order from SLA \$1.10 63-10566

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DESCRIPTORS: *Peroxides, Oxidation, Hydroxides,
*Potassium compounds.

The peroxide compound resulting from the action of oxygen on potassium hydroxide is formed according to $2 \text{KOH} + 1/2 \text{O}_2 = \text{K}_2\text{O}_2 + \text{H}_2\text{O}$. The reaction was investigated along with the simultaneous formation of water; it begins at about 210° and attains a maximum with about 20 percent conversion at 470° .

(Chemistry--Inorganic, TT, v. 10, no. 2)

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DESCRIPTORS: *Carbon compounds, Fluorides,
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(Chemistry--Inorganic, TT, v. 9, no. 3)

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I. Rudorf, W.
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Their Reactions With Metals, by E. G. Bunzel,
E. J. Kohlmeier, 30 pp. UNCLASSIFIED

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GERMAN, per, Zeitschrift fuer anorganische Chemie,
Vol CCLIV, No 1, 2, Sep 1947, pp 1-30.

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AEC In-5044 9093452 39pp

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AEC UCRL-TRANS-10160

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Univalent Aluminates Compounds, by W. Flamm, 27 pp.

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GERMAN, per, Zeitschrift fur Anorganische
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Concerning Ultraphosphates. Part I. Some Salts
of the Extreme Anhydride-Stages of Phosphoric-
Acid, by Adolf Kroll, 35 pp.

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pp 387-418.

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Rüdorff, W., Hofman, U. and others.
INTERFERENCES ON GRAPHITE ANODES IN THE
ELECTROLYTIC PRODUCTION OF FLUORINE.
[1961] [25]p. 20 refs.
Order from SLA \$2.60

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I. Rüdorff, W.
II. Hofman, U.

Trans. of Zeit[schrift] für Anorg[anische] Chemie
(East Germany) 1948, v. 256, p. 125-144.

DESCRIPTORS: *Fluorine, Production, Electrolysis,
Electrolytes, Electrodes, *Electrochemistry,
*Graphite, Anodes, Interference, Electrical effects.

In the electrolysis of KHF_2 with graphite and carbon
anodes, interferences occur which can be traced to
the reaction of the fluorine with the anode materials.
These are ageing phenomena and the anode effect.
The ageing phenomenon has its cause in the formation
of carbon monofluoride $(\text{CF})_x$, catalyzed by HF . This
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of Inorganic Mixtures by Means of Solvent/
Solvent Extraction IV., by W. Fischer,
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GERMAN, per, Z. fuer Anorgan Chemie,
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INTERFERENCES ON GRAPHITE ANODES IN THE
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II. Hofman, U.

Office of Technical Services