

Concerning the Reduction of Silica, by H.
Wartenberg.

GERMAN, per, Zeitschrift fur Anorganische Chem.,
Vol LXXIX, 1912, pp 71-76.

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

Sci - Chem

Jun 59

89, 910

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

German, per, Z Anorg Chem, Vol LXXX, 1913,
~~22~~ pp 104-112.

AEC Tr-4223

Sci - Chem
19 Jan 61

137,319

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

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

BIA 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
GERMAN, per, Zeit. Anorg. Chem. Vol 81, 1913,
pp 257-264.
NLI Ref: 5196 (1384)

Sci-Chemistry
Aug 68

362,201

Note on Chromous Oxide, by Th. Dieckmann, O. Hanf,
5 p.

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

BLA 59-20863

Sci
Mar 60
Vol 3, No 1

110,856

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

GERMAN, per, Z fuer ANORG Chem, Vol LXXIX, 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. XXII, 1915, pp 277-298.

ABC-0000-Pr-930(L)

Sci - Mat & Met

Aug 63

843,411

Platinum-Iridium Alloys, by W. Geibler.

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

SLA 58-103

Sci

Aug 59

94, 209

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

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

63-10483

I. Balarew, D.

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 Particularly Iron Polycrystals, by

G. Tammann.

GERMAN, per, Z. Anorg. Chem 122, 1922, pp. 27-43.

*NBS TT 70-57288

Sci/mater
Jul 70

The Absorption of Nitrogen by Calcium and its Alloys,
by ~~MAXIMILIAN~~ O. Ruff, H. Hartmann, UNCLASSIFIED

GERMAN, per, ~~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

62-20195

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

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

Trans. of Zeitschr[ift für] Anorg[anische] Chem[ie]
(Germany) 1923, v. 133, p. 321-337.

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 , 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)

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

GERMAN, per, Z. anorg Chem, Vol CXXXIII, 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] Chem[ie]
(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.
Sieverts.

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

CSIRO

Oct. 62

Density Measurements on Fused Chlorides, by Wilhelm Klemm, 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 Rhodium, by L. Wohlar.
GERMAN, per. Z. Anorg. Chem., No 149, 1925, pp 133-
138.

*NBS TT 70-57507

Sci-Mat
Aug 70

Colloidal Rhodium, by A. Gutbier, Edith Leutheusse
12 pp.

GERMAN, per, Z Anorgan und Allgem Chem, Vol CXLIX,
1925, pp 181-190.

AEC UCRL-Trans-614(L)

Sci - Chem
Jul 61

157,434

Tammann, G. and Veszi, G.
THE ELECTRICAL CONDUCTANCE OF SALTS IN
SINGLE CRYSTALS AND CRYSTALLITE CONGLOM-
ERATES. [1962] 40p. (figs. omitted) 16 refs.
Order from SLA \$3.60

62-18275

Trans. of Zeitschrift 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 (1), by Wilhelm Klemm,
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 Biltz, Wilhelm Klemm, 48 pp.

GERMAN, per, Z. Anorg Chem, Vol CLII, 1926,
pp 267-294.

S.L.A.

Scientific - M Chemistry

CTB/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-Ehy/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 Polycrystalline 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 Hinnüber, J.
THE INTERNAL FRICTION OF MERCURY. [1962]
8p. (fig. omitted) 7 refs.
Order from SFA \$1.10 62-16535

Trans. of Z[eitschrift für] Anorg[anische] Chem[ie]
(Germany) 1927, v. 167, p. 230-236.

DESCRIPTORS: *Mercury, Internal friction, Capillary
tubes.

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

62-16535

I. Tammann, G.
II. Hinnüber, 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/TID Tr No T-4087

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

ALL AEC/NCRL-43

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
Aluminum-Thorium). [1961].
Order from AC \$12. C3

Trans. of Zeitschrift für Anorganische Chemie
(Germany) [1927] v. 166 [no. 1/3] p. 16-26.
Another trans. is available from SLA ml\$2. 40,
ph\$3. 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 Complex Chemical Behavior of
Beryllium, VI, by R. Fricke, F. Robke, 10 p.

GERMAN, par, Zeit. Anorg. Chemie, 1923, Vol CLXX,
No 1/2, pp 25-36.

SIA 59-20764

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, per, Z. Anorg. Chem. 172, 1928, pp. 43-64
*NBS TT 70-57842

Sci/chem
June 70

62-10104

FERRIC ETHYLATE: PREPARATION AND PROPERTIES. 4 Jan 56, 4p. 3 refs.
Order from SLA \$1.10

62-10104

Trans. of Zeitschrift für Anorganische 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.

XXXX

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

AEC 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, per, Z Anorg Chem, Vol CLXXXVII, 1930,
p 155.

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

Scientific - Chemistry 8900
CTS/DEX

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

Hantsch, 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

I. Hantsch, A.
II. Berger, K.

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.

(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 in: \$1.80, ph \$1.80

61-10775

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

(Unannounced)

61-10775

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

151743

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 CXCI, 1930,
pp 1-35.

ARC Tr 2068

Scientific - Chemistry

Mar 55 CTS/DEX

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. Schischokin, W. Agejewa, 3 p.

GERMAN, partial trans, per, Zeit für Anorgan Chemie,
1930, Vol X CXCIIX, 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

62-10080

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 Zeitschrift 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)

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

Office of Technical Services

Ruff, Otto and Staub, Lisbeth.
NITROGEN FLUORIDE AND THE CONDITIONS OF
ITS FORMATION. 29 Oct 58, 6p. 8 refs.
Order from SLA 51. 10 63-10593

Trans. of Zeitschrift für Anorganische Chemie
(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, Amides,
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)

63-10593

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

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 SLA \$2.60 62-14415

I. Ruff, O.
II. Keim, R.

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

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

(Unannounced)

Office of Technical Services

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

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

SLA 59-15444

Sci - Minerals/Metals

Sep 59

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 CLXIX, 1931,
pp 384-386.

A.E.R.Z. Harwell
11/3/5/365 OT/712

Scientific - Chemistry
CTS/DEX

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] Chemie
(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. 258-378.

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 CCKV,
No 3/4, pp 388-414.

SLA 60-10440

Sci
Apr 60
Vol III, No 3

112,071

62-10101

Balz, Günther and Mailander, Erich.
NITROSYL BOROFUORIDE AND ITS REACTIONS
WITH ALKALI FLUORIDES. [1961] 9p. 7 refs.
Order from SLA \$1. 10 62-10101

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)

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.

JKA 57-2900
RAE Farnborough Tr 654

Sci - Chemistry
Mar 58

59,261

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

Sci-Materials
Jul 70

63-10117

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)

I. Nikitin, B. A.

Office of Technical Services

61-10230

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

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

Office of Technical Services

(Unannounced)

62-18686

Schriel, M.
ON THE ACTION OF BARIUM (METAL) ON BARIUM
OXIDE AT HIGH TEMPERATURES. Excerpts from
thesis, Technische Hochschule, Charlottenburg, 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 460 AND
600° C. [1960] 7p. 4 refs.
Order from SLA ml\$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.

61-10764

Office of Technical Services

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

GERMAN, per, Zeitschrift für Anorganische Chemie,
1938, Vol CCXXXVI, pp 45-55.

SLA 59-17305

Sci
Jan 60
Vol 2, No 8

105,570

X-Ray Investigation of the System Co-S, by
D. Lundqvist, A. Westgren.

GERMAN, per, Zeit Anorganische Chemie, Vol CCXXXIX,
1938, pp 35-39.

*SLA/A-139

Sci - Chem
Jul 63

The Relationships of the Alkali Metals to
Each Other, by E. Bohm, W. Klemm

GERMAN, per, Z Anorg Chem, Vol CCXIII, 1939,
pp 69-85.

A.E.R.E. Farwell
11/3/5/220 42 450

Scientific - Minerals/Metals
CIS/DEX

8186

The Alloys of Gallium with Gold, by Friedrich
Wiebke, Erich Hesse, 7 p.

GERMAN, per, ^hZeit fur Anorgan Chemie, 1939,
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SLA 60-10084

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1940, pp 133-148.

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The High Temperature Transformations of Ferrous
Sulfide Mixed Crystals, by H. Haraldsen, 48 pp.

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SLA Tr 57-1150

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TPA3/TIB Tr No 3967

Scientific - Chemistry, solutions, oxygen, titanium

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TWO DIMENSIONAL REGULAR STRUCTURES. [1962]
[42]p. 57 refs.
Order from SLA \$4. 60

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

Trans. of Zeitschrift für Anorganische Chemie
(Germany) 1941, v. 247, p. 65-95.

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

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

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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 Calciumhydroxysilikaten aus Calciumoxyd und
Kieselsäure bei 300° und 350° und hohen Drucken).
[1961] [38]p. (foreign text included) 11 refs.
Order from SLA \$3.60

62-10526

I. Jander, W.
II. Franke, B.

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

DESCRIPTORS: *Calcium compounds, *Silicates, *Hy-
drates, *Oxides, *Silicic acids, Temperature,
Pressure.

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G. F. Huttig.
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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

Trans. of Z[eitschrift für] Anorg[anische]
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)

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I. Fricke, R.
II. Weltbrecht, G.
III. Title: Field. . .

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omitted) 26 refs.
Order from SLA \$1.60 63-10589

Trans. of Zeitschrift für Anorganische Chemie
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DESCRIPTORS: *Tungsten compounds, Oxides,
Synthesis, Phase studies, Chemical reactions.

(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

I. Kröger, C.
II. Behr, W.

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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,
X-ray diffraction analysis, Molecular structure,
Chemical bonds. *Graphite, Oxides.

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I. Rudorf, W.
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(Chemistry--Inorganic, TT, v. 9, no. 3)

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Their Reactions With Metals, by E. G. Bunzel,
E. J. Ehlmeier, 30 pp. UNCLASSIFIED

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Vol CCLIV, No 1, 2, Sep 1947, pp 1-30.

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NASA TT F-13,149

AEC In.-5044 9093452 39pp

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SLA 59-10240

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AEC UCRL-TRANS-10160

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S.L.A. Tr No 319/1955

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The Decomposition Rate of Calcium Carbonate
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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.

GERMAN, per; Z. Anorg. Chem., Vol LXXVI, 1912,
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Rüddorff, 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

I. Rüddorff, W.
II. Hofman, U.

62-10726

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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Preparative Extraction of Pure Hafnium
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Solvent Extraction IV., by W. Fischer,
W. Chalybaeus, M. Zumbusch.

GERMAN, per, Z. fuer Anorgan Chemie,
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INTERFERENCES ON GRAPHITE ANODES IN THE
ELECTROLYTIC PRODUCTION OF FLUORINE.
[1961] [25]p. 20 refs.
Order from SLA \$2.60

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Trans. of Zeit[schrift] für Anorg[anische] Chemie
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DESCRIPTORS: *Fluorine, Production, Electrolysis,
Electrolytes, Electrodes, *Electrochemistry,
*Graphite, Anodes, Interference, Electrical effects.

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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
(Chemistry--Physical, TT, v. 7, no. 9) (over)

I. Rüddorff, W.
II. Hofman, U.

Office of Technical Services

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Jander, Gerhart and Wendt, Hildegard.
FUNDAMENTALS OF A CHEMISTRY IN ABSOLUTE
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Order from SLA \$2.60 63-10559

I. Jander, G.
II. Wendt, H.

Trans. of Z[eitschrift für] Anorg[anische] Chem[ie]
(East Germany) 1948, v. 257, p. 26-40.

DESCRIPTORS: Chemistry, *Nitric acid, *Solvents,
Solvates, Chemical properties, Complex compounds,
Electrical conductance.

(Chemistry--Physical, TT, v. 9, no. 10)

Office of Technical Services