

The Growth Substance Effect and Mutagenicity of 5-Bromouracil in *Proteus Mirabilis*, by A. Wacker, H. Bohme, 8 pp.

GERMAN, per, Z. fuer Naturforschung, Vol XIVb, No 11, 1959, pp 703-706.

NIH 4-18-61

Sci - Med
Jul 61

158, 331

Deoxyribonucleic-acid Molecules in
Protein Mixed Films, by A. Kleinschmidt.
GERMAN, per, Z Naturforsch, Vol (B)14,
1959, pp 707-779,
NIH 5-37-65

Sci/B&M
Jul 65

283,657

Optomotor Reactions to the Movement of
Periodic Light Patterns, by Dezso Varju, 25 pp.

GERMAN, per, Z fuer Naturforschung, Vol XIVb,
No 11, 1959; pp 724-735.

Navy Tr 3214/APL T306

Sci. - Phys

Sep 62

211,279

Recent Results of Measurements of Absorption,
Fluorescence and Degree of Fluorescence
Polarization in the Acridine Orange Cation, a
Further Contribution to the Problem of Meta-
chromasia in this Vital Dye, by V. Zanker,
M. Held, H. Rammensee, 14 pp.

GERMAN, per, Z. Naturforschung, Vol XIVb, [✓]
No 12, 1959, pp 789-801.

NIH 3-65-62

198, 615

Sci - Med
Jun 62

On radiographic Measurement of the Deformation
Band of Single Dislocations, by U. Bonse,
E. Kappler, F. J. Simon, 7 pp.

GERMAN, per, Zeitschrift fuer Naturforschung,
Vol XIVa, No 12, 1959, pp 1079-1080.

SLA 60-16866

Sci
Vol IV, No 8
2 Jun 62

198.004

Optokinetic Effectiveness of Moving Periodic
Patterns (From Measurement Taken on the Beetle
Chlorophanus Viridis), by Bernhard Hassenstein.

CHERMAN, per, Zeitschrift für Naturforschung,
Vol CXLVI, No 10, 1959, pp 659-674.

Navy Tr 3438/APL 309

Sci - Biol & Med
Aug 63

238,300

Transmission Characteristics in the Evaluation
System for the Visual Perception of Motion,
by Werner Reichardt, Deazo Varju.

GERMAN, per, Zeitschrift für Naturforschung,
Vol XLVI, No 10, 1979, pp 674-689.

Navy Tr 3439/APL 310

Sci - Phys
Aug 63

238,301

Cooperative Phenomena and Diffusion of a
Plasma Across a Magnetic Field, by

L. Biermann

GERMAN, per, Zeitschrift fuer Naturforschung.

Ausgabe A, Vol 15, 1960, pp 10-12

NTC 71-15268-201

mar 72

The Observability of Superthermal Electric Field
Fluctuation in Plasmas by Means of Spectroscopic
Measurements, by H. Wulff.

GERMAN, per, Z fuer Naturforschung, Vol XVa, No 1, 13,
1960,

Sci - Phys

May 60

Co-Operative Phenomena and Diffusion of
a Plasma Perpendicular to a Magnetic
Field, Part II, by D. Pfirsch, L.
Biermann.

GERMAN, per, Z. fuer Naturforschung,
Vol XVa, No 1, 1960, pp 14-18.

CSIRO

Sci - Phys
Mar 62

189,288

Albert, Ludwig and Jaenicks, Walther.
CONCERNING THE NEEDLE GROWTH WITH THE
OXIDATION OF COPPER [Über das Nadelwachstum bei
der Oxydation von Kupfer, II]. Pt. 2 on Whisker-Growth
during the Oxidation of Copper. [1963] 32p (figs
formulae refs omitted)
Available on loan from SLA

TT-63-20247

Trans. in manuscript of Zeitschrift für Naturforschung
(West Germany) 1960, v. 15a, p. 59-65.

DESCRIPTORS: *Copper, Oxidation, *Single crystals,
*Whiskers (Crystallography), *Crystal growth

See also 63-18831

(Physics--Solid State, TT, v. 11, no. 1)

TT-63-20247

I. Albert, L.
II. Jaenicks, W.
III. Title: On...

Office of Technical Services

On the Possibility of the Directed Introduction of
Deuterium and Tritium in Nuclear Fusion Experiments,
by E. W. Becker, R. Klingelhofer, P. Lohse, 5 pp.

GERMAN, per, Z Naturforsch, Vol XVa, 1960, pp 64-65.
9093619

AEC Tr-4791

Sci - Nuc Phys
Dec 61

177, 406

Bio Lab T-529-1

R-8679-D

11 Sept. 67

Eigenschaften einer infektiösen Nucleinsäure-Fraktion
aus Hühner-embryonen die mit Encephalitis-Virus
infiziert wurden

By: WECKER, Eberhard

From: Zeit. Naturfor. 156, 1960:71-78

(8 pp)

German - est for wds:

Please translate and type 1 camera ready copy.

Please make cover as sample attached. Document can be
cut. T-529-1

Detection of Individual B Particles With
Germanium and Silicon Surface Diodes,
by H. D. Engler.

GERMAN, per, Z. fuer Naturforschung,
Vol XVa, No 1, 1960, pp 82-84.

CSIRO

Sci - Chem

191, 747

Apr 62

Opposition of Galba Truncatula to Sodium-
pentachlorophenolate, by K. Enig and D.
Diwel

GERMAN, per, Zeit. fur Naturforsch, Vol 166,
1960, pp 134-151.

NLL Ref: 5828.4F (12723)

Sci-Agriculture
July 68

360,854

S-935/63

The Activation Energy for the Transverse
Slippage of Split Spiral Dislocations, by
Helmut Wolf, *378*

GERMAN, per, Zeitschrift fuer Naturforschung,
Vol XVa, No 3, 1960, pp 130-193.

2
*JPRS/SF-2868
(Special)

Sci - M/M
Oct 63

Oscillation of a Plasma Cylinder in an Axial
Magnetic Field, II, by Klaus Kopyar.

GERMAN, per, Zeitschrift für Naturforschung,
Vol 15a, 1960, pp 220-226.

Dept of Navy/APL/JHU T-2053.

Sci-Physics

Dec 67

346,595

Concerning the Temperature Dependence of the
Absorption Edge in CdS-Crystals, by
Heinz Radelt, 7 pp.

GERMAN, par, Z. fuer Naturforschung, Vol XVa,
No 3, 1960, pp 269-270. 9676324

FED-TT-62-129

Sci - Chem, Phys

3 May 62

194,101

Inactivation of Lactic Dehydrogenase with Slow
Protons, by Heinz Kuhn, 16 pp.

GERMAN, par, Z. Naturforsch, Vol 15, 1960,
pp 277-284.

P911388567

AEC ORNL-Tr-1760

Sci-Chemistry
Dec 67

346,172

On the Excitation and Luminescence Mechanism of Inert Gases and Inert Gas Mixtures During Bombardment with Fast Electrodes, by Wolfgang Friedl.

GERMAN, per, Zeit fur Naturforschung,

Vol 15a, 1960, pp 398-404.

Dept of Navy NOL-803TT

Sci-Phys

Jan 69

373,532

63-18817

Dachauk, W. D. and Pfeifferkorn, G.
STRUCTURE OF COPPER OXIDE WHISKERS AND
DETERMINATION OF THEIR GROWTH IN LENGTH.
[1968] [14p] (Sign refs omitted)
Order from SLA \$1.60 63-18817

I. Dachauk, W. D.
II. Pfeifferkorn, G.

Thema. of Zeitschrift für Naturforschung (West
Germany) 1968, v. 13(a) p. 412-417.

DESCRIPTORS: *Copper compounds, Oxides, *Whisk-
ers (Crystallography), Crystal structure, Determina-
tion, *Single crystals, Corrosion, *Metallic crystals,
Crystal growth

By using silver and HCl copper oxide whiskers were
grown between 200° and 300°C. that were measurable
with the light microscope. They form CuO single
crystals along [110] at the boundaries of the whiskers.
six-sided prisms frequently appeared. The growth in
length proceeded linearly (i. e. $\propto \sqrt{t}$) till inhibition.
(Physics--Solid State, TT, v. 10, no. 11) (over)

Office of Technical Services

Types of Motion in the Linear Pinch Effect and
Runaway Electrons, by E. Fuenfer, G. Lehner,
H. Tuzek, 19 pp.

GERMAN, per, Z fuer Naturforschung, Vol XVa, 1960,
pp 566-574. 9095567

AEC NP Tr-814

Sci - Phys
Mar 62

186,520

The Diffusion of Xe^{133} , Rn^{222} and I^{131} in
Thorium Oxide, by H. J. Matske,
R. Lindner.

GERMAN, per, Z. Naturforsch., Vol XVa, 1960,
pp 647, 648. 9091766

AEC Tr-5178

Sci - Chem
Sep 62

312,708

Negative Electrical Conductivities, by J. Schneider,
19 p.

GERMAN, per, Zeitschrift fuer Naturforschung, Vol
XV a No 5/6, 1960, pp 484-489.

SLA TT 66-10888

Sci-Phys
Jul 66

304,487

S-935/63

The Temperature and Velocity Relationship of the
Solidification of Cubic-Face-Centered Metal
Monocrystals, by Rolf Berner, 3100.

GERMAN, per, Zeitschrift fuer Naturforschung,
Vol XVa, No 3, 1960, pp 639-706.

2
*JPRS/SF-2368
(Special)

Sci - M/M
Oct 63

Reversal of Jet Separation in Over-
expanded Gas Streams, by K. Bier.
GERMAN, per, Zeit fur Naturforsh, Vol
15A, 1960, pp. 714-23.
NLL Ref: 9091.9F (CA Trans 191)

Sci-Mech
July 69

377,403

Jet Sepazation Technique, by E. W.
Becker, R. Schutte.
GERMAN, per, Zeit fur Naturforsh, Vol
15A, 1960, pp. 714-23.
NLL Ref: 9091.9F (CA Trans 192)

Sci-Mech
July 69

387,402

Non-Linear Elasticity Theory of Straight Dis-
locations, by H. Pfeleiderer, A. Seeger, et al.
GERMAN, per, Zeits. fur Naturforschung, Vol 15a
1960, pp 758-772. P911067267
AEC AERE-tr-1061

Sci/Materials
Mar 67

318,578

62-16286

I. Koch, G.

Koch, Gebhard.
ON THE DISPARATE INFECTIVITY OF ISOLATED
RIBONUCLEIC ACID AND COMPLETE POLIOVIRUS
IN TISSUE CULTURES (Zur Unterscheidlichen
Infektiosität von isolierter Ribonucleinsäure und
intaktem Poliovirus in der Gewebekultur). [1962]
17p. 14 refs.

Order from SLA \$1.60

62-16286

Trans. of Zeitschrift für Naturforsch[ung] (West
Germany) 1960, v. 15b, no. 10, p. 656-661.

DESCRIPTORS: *Nucleic acids, *Polioomyelitis
virus, Culture media, Tissue culture, Tissues
(Biology), *Genetics.

(Biological Sciences--Microbiology, TT, v. 8, no. 9)

Office of Technical Services

Investigations on the Hemagglutinating Noninfectious
Particles of the Influenza Viruses. First Report:
The Production of "Incomplete Forms" in the Virus
of Classic Chicken Plague (von Magnus Phenomenon),
by T. Rott, W. Schafer.

GERMAN, per, Z Naturforschung, No 15b, pp 691-693,
1960.

NIE 9-6-62

Sci - Med

Dec 62

218,860

A. Saupe

The Elastic Constants of the Nematic Phase of
Azoxyanisole.

GERMAN, per, Zeitschrift fuer Naturforschung.

Ausgabe A, Vol 15, 1960, pp 815-822

NTC 72-60553-20L

Oct 72

Mass Spectrometric Examination of
Photoionization of Hydrogen, by E. Schoenheit.

GERMAN, per, Zeitschrift fuer Naturforschung,
15a, 1960, pp 841, 842.

ERDL Ft Belvoir
T-1302

Sci - Phys

Jun 61

155, 243

Investigation of Thermal Relaxation in Nozzle Flows
by Analysis of the Gas Kinetic Velocity Distribution,
by O. Hagena, W. Henkes, 14 pp.
GERMAN, per. Z fuer Naturforschung, Vol XVa, 1960,
pp 851-858. 9275952
AEC-TRG-Int Ser-358

Amer. Meteor. Soc.

T-6-213

Sci-Nucl Sci
Jun 64

260,950

Investigation of Electron Density in a
Linear Pinch by Means of 8.7 mm. Waves, by
H. Hermansdorfer, 11 pp.

GERMAN, per, Z. fuer Naturforschung, Vol XVa,
No 11, 1960, pp 979-983. 9079623

AEC NP-Tr-669

Sci
Aug 61

164, 883

Sodium 22 in the Meteorite Breitscheid,
by Else Vilcek, H. Wankel, 9 pp.

GERMAN, per. Zeitschrift für Naturforschung.
Vol XVI, pp 1004-1007, Nov 1960. 9081707

Royer and Roger

HEC 5-4777
170.384

Sci - Chem

Oct 61

Single and Plural Scattering of Charged Particles,
by E. Kell, E. Zeitler, et al, 15 pp.
GERMAN, per, Z fuer Naturforschung, Vol XVa, 1960,
pp 1031-1038. 9224364
AEC-UCRL-Tr-1036

Sci-Nucl Sci
Aug 64

265,123

Seeger, A. and Buck, O.
METHODS FOR THE EXPERIMENTAL DETERMINA-
TION OF HIGH-ORDER ELASTIC CONSTANTS.

[1961] 19p.

Order from ATS \$23.95

ATS-31N51G

Trans. of Z[eitschrift für] Naturforsch[ung]
(West Germany) 1960, v. 15a, no. 12, p. 1056-1067.

DESCRIPTORS: *Elasticity, Determination.

ATS-910-63

61-22658

- I. Seeger, A.
- II. Buck, O.
- III. ATS-31N51G
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

175350

Diffusion of Radon in Oxides After Recoil Doping,
by R. Lindner, H. J. Matzke, 9 pp.

GERMAN, per, Z Naturforschung, Vol. XVa, 1960,
pp 1082-1086. 9093451

ANC Tr-5058

Sci - Chem
May 62

196,756

Comparison Between the Oveberg, Maximal Gradient
and Three-Point Methods for the Evaluation of Curves
of the Ultracentrifuge Obtained With Philpot-
Svensson Optical System, by M. Gehstia, L. Hubner.

GERMAN, per, Z fuer Naturforschung, Vol IVb, 1960,
pp 351-364.

NIH 5-12-63

Sci - Math

Aug 63

341,402

SWELLING OF COLLAGEN FIBRILS, BY H. GANSLER, 3 PP.

GERMAN, PRE, Z. NATURFORSCHUNG, VOL XVb, NO 6,
1960, P 414.

NIH 6-8-62

SCI - MED

208,746

AU G 62

Catalase Content of Virus-Infected Tissue,
by Olaf Klammerth, 3 pp.

GERMAN, per, Z. Naturforsch., Vol XVB, No 7,
1960, pp 448-449.

HTH 3-10-62

199, 759

Sci - Med

Jun 62

Do Stretched Si-O-Si Bonds Exist? by
F. Liebau.

GERMAN, per, Zeit fur Naturforschung,
Vol 15 B, No 7, 1960, pp 468-469.

NTC 69-10883-07B

Sci-Chem
May 69

382,515

Investigations of Rapid ATP Reactions in Aqueous
Solution by Means of Relaxation Spectrometry, by
H. Diebler, 13 pp.
GERMAN, per, Zeit Naturforschung, Vol XVb, 1960,
pp 554-560.
NIH 2-21-64

Sci - Biol & Med
Apr 64

253,754

Investigations on the Hemagglutinating Noninfectious
Particles of the Influenza Viruses. First Report:
The Production of "Incomplete Forms" in the Virus
of Classic Chicken Plague (von Nagels Phosphat),
by T. Rott, W. Schafer.

GERMAN, per, 2 Naturforschung, No 15b, pp 691-693,
1960.

NIH 9-6-62

Sci - Med

Examination of Electron Microscope
Images of Sections of Healthy and Diseased
Dentine, by H. J. Hoehling.

GERMAN, per, Z. fur Naturforschung, Vol XVb,
No 11, 1960.

NZDIA

Sci
Dec 62

Biogenesis of Isoflavones. ~~III~~, by H. Grisebach,
G. Brandner.

GERMAN, per, Zeitschrift fuer Naturforschung,
No 1, 1961, pp 2-5.

CSIRO/No 6057

Sci-Biol
May 63

232,114

62-18708

Seeman, H. J., Schmidt, G., and Stavenow, F.
INVESTIGATIONS ON QUANTITATIVE X-RAY FLUO-
RESCENT ANALYSIS. [1962] [16]p. 4 refs.
Order from SLA \$1.60 62-18708

I. Seeman, H. J.
II. Schmidt, G.
III. Stavenow, F.

Trans. of Zeitschrift für Naturforsch[ung] (West
Germany) 1961, v. 16a [no. 1] p. 25-30.

DESCRIPTORS: *X-rays, *Fluorescence, Analysis,
Excitation, Equations, Iron, Nickel, Alloys, Scintilla-
tion counters, Bremsstrahlung, Continuous spectrum,
*Quantitative analysis.

The fluorescence intensity formed with excitation from
a customary X-ray tube was calculated for a binary
system and compared with experimentally determined
values. It showed a very good agreement. Based on
these results and under simplifying assumptions, a
linear system of equations was formulated which permits
(Metallurgy, TT, v. 9, no. 10) (over)

Office of Technical Services

The Potassium Content of Chondrites, Achondrites,
and Siderites, by H. Wanke, pp 62-74.

GERMAN, per, Z Naturforsch, Vol XVIa, Jan 1961,
pp 127-131.

AEC AFCL-TR-60-411

Sc1
Sep 61

166,200

Groth, R.
ON INFRARED DETECTORS BASED ON PHOSPHORS.
[1961] 9p. 5 refs.
Order from SLA \$1.10

61-20826

Trans. of Zeitschrift für Naturforschung (West
Germany) 1961, v. 16a, no. 2, p. 169-172.

DESCRIPTORS: *Infrared detectors, Design, *Infrared
phosphors, Excitation, Detectors, Phosphors.

An infrared detector is proposed which is based on the
stimulation of infrared-sensitive phosphors. The prin-
ciple of such a detector is explained and experimental
results are described which were obtained with an
SrS-Ce-Sm phosphor, by means of which a sensitivity
of 6×10^{-11} watt was obtained for wave lengths of the
order of μ . (Author)
(Physica--Optics, TT, v. 7, no. 2)

61-20826

1. Groth, R.

Office of Technical Services

Triple Isomerism in Ir¹⁹⁴, by K. F. Alexander,
H. F. Brinckmann, 3 pp.

GERMAN, per, Z fuer Naturforschung, Vol XVia, 1961,
p 210. 9079915

AFC Tr-4648

164,902

Sci
Aug 61

The Statistical Distribution of Electro-Negative
Gases with High Field Strength, by W. Lagler.
GERMAN, per, Zeit Naturforschung, Vol 16a, 1961,
pp 253-261.
C.E. Trans 5308

Sci-
June 70

Properties of Vaporised InSb and InAs Films, by
K. G. Gunther, H. Freller, 7 pp.
GERMAN, per, Zeit fuer Naturforschung, Vol XVIa,
No 3, 1961, pp 279-283.
A.C.S.I.L. Tr 1448

Sci - Chem
Apr 64

253,304

The Statistics of Electron Discharges in Electronegative Gases at High Field Strengths and With Large Gas Amplification, by W. Legler. GERMAN, per, Zeitschrift für Naturforschung, Vol 16a, 1961, pp 253-261.
CEGB-5308

June 71

The Sense Organ of Equilibrium of Meal Beetles
(Tenebrio Molitor) and Yellow-Fever Mosquitoes,
by Ulrich Baseler, 6 pp.

GRUNN, per, Zeitschrift für Naturforschung,
Vol XVIIb, No 4, 1961, pp 284-287.

NIN 7-40-63

Sci - Biol & Med
Sep 63

344,298

Properties of Evaporated InSb and InAs
Films, by K. G. Guenther, H. Freller.
GERMAN, per, Zeitschrift fuer Naturforschung,
Vol 16a, 1961, pp 279-83.
SEA TT-66-11032

332 224

Sci
Jul 67

Investigation of Atomic Vacancies in Cu, and Au
by Means of Electric Resistance, by Wolfgang
Schuele, Alfred Seeger, Falko Hamsteiner, Dieter
Schumacher, Kenneth King, 5 pp.
GERMAN, per, Zeitschrift für Naturforschung,
Vol 16a, 1961, pp 323-325. P911189267
AEC ANL Tr-465

327,869

Sci - Nuclear Science
Jun 67

The Thermoelectric Power of Metal Films, by
E. Justi, M. Kohler, et al.

GERMAN, per, Zeitschrift fuer Naturforschung,
~~XXXXX~~ No 6A, 1961, pp 456-459.

*AEC

Sci - Phys

May 63

TT-64-10905

Harten, H. U.
SURFACE CONDUCTIVITY AND SURFACE RECOM-
BINATION AT THE SILICON-ELECTROLYTE INTER-
FACE. [1964] 15p (3 refs omitted) 14refs
Order from SLA \$1.60 TT-64-10905

1. Harten, H. U.

Trans. of Zeitschrift für Naturforschung (West
Germany) 1961, v. 16a [no. 5] p. 459-466.

(Chemistry--Physical, TT, v. 11, no. 12)

Office of Technical Services

Determination of Temperature and Velocity
of a Plasma Stream in a Plasma Burner, by
B. Ahlborn.

GERMAN, per, Z. Naturforsch, Vol XVIIa,
1965, pp 466-474.

NASA TT F-10,286

Sci-Phys

Dec 66

U. S. GOVERNMENT USE ONLY

314,942

The Measurement of Extremely Short Dissociation
Times of Organic Ions With the Field Ionization
Mass Spectrometer, by H. D. Beckey, 16 pp.

GERMAN, per, Z Naturforschg., Vol XVIa, 1961,
pp 505-510. 9023615

AEC UCR. Tx-710

Sci - Phys
Dec 61

177, 455

Extraction of Uranium, Plutonium, Ruthenium, and
Zirconium With Tri-n-octylamine, by Von Werner
Knoch, 4 pp.

GERMAN, per, Z Naturforsch, Vol XVII, 1961, pp 525-527
9093524

AEC Tr-5197

Sci - Min/Metals
Jul 62

204, 691

Determining the Kr ⁸⁵ Content of the Air, by
O. ~~Griess~~ Griesser, A. Sittkus, 5 pp.

GERMAN, per, Zeitschrift fuer Naturforschung,
Vol 16 XVIa, No 6, 1961, 4 pp.

CIA/FDD X-4941

Sci - Nuclear Phys

Jul 62

202,055

R-777-H-A

GERMAN, per, Z. fuer Naturforschung, Vol XVIa,
No 6, 1961, pp 539-547.

*JPRS for Picatinny Arsenal

Sci -

6 Nov 61

R-777-H-B

GERMAN, per, Z. fuer Naturforschung, Vol XVIa,
No 6, 1961, pp 548-562.

*JPRS for Picatinny Arsenal

Sci

6 Nov 61

Separation of isotopes in a circular column, by
H. J. Lorenz, in G. Roller, 16 pp.

GERMAN, Z. Naturforschung, Vol XVIIa,
No 6, 1961, pp 569-577. 9092290

ASC Tr 4775

Sci - Chem, Phys
Nov 61

172, 4/8

Angular Distribution of Hydrogen and Argon Ions
from a High Frequency Source, by H. Lob and S.
Peyerimhoff.

GERMAN, par, Z. Naturforschg., Vol 16a, 1961,
pp 621-624.

NTIC Trans. No. 1815

Sci/ Electronics

Jan 68

345,913

Hydromagnetic Instabilities of the Tubular Pinch
Effect, by G. Lehner,
GERMAN, per, Z. fuer Naturforschung, Vol. XVIIa,
No 7, 1961, pp 700-711,
NASA TT F-9038

Sci-Phys

Aug 64

U.S. GOVERNMENT ONLY

265,661

63-12886

Schneider, Jürgen and Rüuber, Armin.
THE PARAMAGNETIC RESONANCE OF DONORS IN
ZINC OXIDE (Paramagnetische Resonanz von Donatoren
in Zinkoxyd) tr. by C. H. Amberg. 1963, 6p. 8 refs.
NRCC Technical trans. 1061.
Order from NRCC \$0.50

NRCC C-4308

Trans. of Zeitschrift für Naturforschung (West
Germany) 1961, v. 16a, p. 712-714.

DESCRIPTORS: *Metal crystals, Powders, *Zinc com-
pounds, *Oxides, Impurities, *Paramagnetic resonance,
Spectroscopy.

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

- I. Title: Donor impurities
- I. Schneider, J.
- II. Rüuber, A.
- III. NRCC TT-1061
- IV. NRCC C-4308
- V. National Research
Council of Canada

Office of Technical Services

62-14440

Fleischmann, H.
**THERMAL CONDUCTIVITY AND ELECTRICAL
CONDUCTIVITY OF SEMICONDUCTOR OF THE
FORM (A¹-B^{IV}-C^{IV})₂DX₂**. Dissertation, Marburg,
1961. [1962] 34p. 36 refs.
Order from SLA \$3.60

62-14440

Trans. of Zeitschrift für Naturforsch[un]g (West
Germany) 1961, v. 16a [no. 8] p. 765-780.

DESCRIPTORS: *Semiconductors, Electrical conduct-
ance, Thermal conductivity, Thermoelectricity,
Zone melting, Silver, Lead, Antimony, Tellurium,
Solids, Liquids.

(Physics--Solid State, TT, v. 8, no. 2)

I. Fleischmann, H.

Office of Technical Services

Winkler, H.
THE NUCLEAR MAGNETIC RELAXATION TIME OF
WATER SORBED BY ALUMINUM OXIDE. [1962]
15p.

Order from ATS \$22.60

ATS-24P59G

Trans. of Zeitschrift für Naturforschung (West
Germany) 1961, v. 16a, p. 780-790.

DESCRIPTORS: *Aluminum compounds, Oxides, *Mag-
netic properties, *Relaxation time.

ATS-911-GJ

(Chemistry--Inorganic, TT, v. 8, no. 5)

62-17139

- I. Winkler, H.
- II. ATS-24P59G
- III. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

A. Saupe

Methods of Determining the Degree of Order of
Nematic Crystalline Liquid Layers. The Degree
of Order of Azoxyanisole.

GERMAN, per, Zeitschrift fuer Naturforschung.
Ausgabe A, Vol 16, 1961, pp 816-824

NTC 72-60554-20L

Oct 72

The Diffusion of Uniformly Distributed Rare
Cases from Solid Bodies, by H. Matak, R. Linder,
10 pp.

GERMAN, par, Z. Naturforschung, Vol XVIa,
1961, pp 845-849. 9093979

AEC Tr-5256

Sci - Phys
Sep 62

212,701

Self-Diffusion in Mo, by W. Danneberg,
et al, 4 pp.
GERMAN, per, Z. Naturforschg. 162, 1961
pp. 854-857.

*CFSTI TT 70-58099

AVAILABLE FROM NBS ONLY

S&C/chem
Apr 70

Investigations of Balmer Spectra in the Presence of
a High-Frequency Discharge, by H. Schluter, 24 pp.

GERMAN, per, Z fuer Naturforschung, Vol XVIa, 1961,
pp 972-984. 9089588
6

AEC NP Tr-886

Sci - Phys
Aug 62

207,507

Measurement of Excitation States of the Nitrogen
Molecule by Photodionization, by F. J. Comes,
J. Lessmann, 9 pp.

✓ R XVII
GERMAN, per, Z. fur Naturforschung, ~~16~~: 1038-1042,
1961. 9677018

Amer Meteorol Soc
T-6-173

Sci - Phys
Nov 62

216, 853

Diffusion of Tri- and Quadrivalent Fission Product
Ions in UO_2 , by F. Schmitz, R. Lindner, 5 pp.

GERMAN, per, Z Naturforschung, Vol XVIa, 1961,
pp 1096-1097. 9089769

AEC Tr-5171

Sci - Chem, Phys
Aug 62

207,506

Studies on Stone Meteorites With Extremely
High Noble Gas Content, I. The ~~XX~~ Pantar
Chondrite, by H. König, K. Keil, et al,
19 pp.

GERMAN, per, Z. fuer Naturforschung,
Vol XVIa, 1961, pp 1124-1130. 9066988

AEC Tr-5295

Sci - Astronomy
Oct 62

215,537
~~215,537~~

Calculation of the β Diffusion of Radioactive
Cases. Part I, by H. Gans, 9 pp.

GERMAN, per, Z. Naturforsch, Vol XVIIa, 1961,
pp 1130-1135. 9808271

AEC-21-5520

HTS-110626

ATS-896-GJ

~~823,713~~

224,215

Sci - Phys

6 Mar 63

Analysis of Several Nuclear Magnetic
Resonance Spectra of the Type A2B2,
by B. Dischler, G. Englert. 24p.
GERMAN, per, Zeitschrift fuer Naturforschung,
Vol 16a 1961, pp 1180-1191.
TC-1031

Sci-Chem
Aug 66

303,869

The Diffusion of Kr^{85} in ThO_2 , by Hans Joachim Matzke,
9 pp.

GERMAN, per, Z Naturforschg, Vol XVIa, 1961, pp 1255-1257.
9089632

AEC Tr-5192

Sci - Chem
Aug 62

208,439

Kopitzki, Conrad and Stier, Hans-Erhart.
AVERAGE VELOCITY OF PARTICLES EMITTED IN
THE CATHODIC SPUTTERING OF METALS. 6 June 62.
5p. 3 refs.

Order from SLA \$1.10

63-10120

Trans. of [Zeitschrift] für Naturforschung (West
Germany) 1961, v. 16, p. 1257-1259.

DESCRIPTORS: Metals, Particles, *Ion bombardment,
Velocity, *Secondary emission, Cathodes.

(Physics--Electronics, TT, v. 10, no. 1)

63-10120

1. Title: Sputtering

1. Kopitzki, C.

II. Stier, H.-E.

Office of Technical Services

The Formation and Quasi-Stationary State of a Powerful
Torioidal Pinch Discharge in Hydrogen, by U.
Grossmann-Doerth, 55 pp.

GERMAN, per, Zeit Naturforschung, Vol XVIIa, No 12,
1961, pp 1290-1312. 9208801

ABC-EP-Pr-940

Sci - Nucl Sci

Jul 63

235,682

Pressure Gradient Occurring During Gaseous Diffusion,
by L. Waldmann, K. H. Schmitt,

GERMAN, per, Z Naturforsch, Vol XX XVIIa, 1961,
pp 1343-1354.

ABC Tr-5063

Sci - Phys
Jun 62
List 69

197,820

The Diffusion of Uranium-233 in Uranium, by
Roland Lindner, Franz Schmitz, 15 pp.

GERMAN, per, Zeit Naturforsch, Vol XVIa, 1961,
pp 1373-1376.

ARC-Tr-5311

ATS-895-GJ

Sci - Chem

Jun 63

232,412

Collisions of Slow Negative Ions with Charge
Transfer, by K. Kraus.

GERMAN, per, Zeit. fur Naturforsch., Vol 16a,
1961, pp. 1385-1387.

NLL Ref: 9021.7 (28)

sci-phys
sept 69

391,047

Collisions of Slow Negative Ions with Charge
Transfer, by K. Kraus, W. Muller-Daysing.
GERMAN, per, Zeitschrift fur Naturforschung,
Vol 16A, 1961, pp 1385-1387.
Tr No 28, Nov 1968
AIR/AFCRL/68-0580

Sci-Phys
Feb 69

373,724

The Diffusion of Uranium-233 in Uranium Oxide,
by Roland Lindner, Franz Schmitz.

GERMAN, per, ~~Zeit fur Naturforschung~~, Vol XVIa,
1961, pp 1373-1378. 9203644

AEC/Tr 5511

Sci - Phys

Mar 63

Increasing the Separation of Isotopes
by the Separating Nozzle Method by
the Addition of Light Gases, by E. W.
Becker.

GERMAN, Zeit. fur Naturforsch., Vol
16A, 1961, p. 1393.

NLL Ref: 9091.9F (CA Trans 193)

Sci-~~Files~~

387,423

Chem

Studies on the Propagation of the Virus of
Classical Fowl Plague, by C. Scholtissek,
R. Rott, 10 pp.

GERMAN, per, Z fuer Naturforsch, Vol XVI B,
No 2, 1961, pp 109-115.

NIE 9-1-61

178, 811

Sci - Med

Jan 62

Distribution of Radiocerium in Liver Cells and
the Influence of Diethylenetriaminopentacetic Acid,
by A. Catsch, H. Immel-Teller, D. Schindewolf-
Jordan, 8 pp.

GERMAN, per, Z fuer Naturforschung, Vol XVIb, No 3,
1961, p 191. 9093629

AEC 11-4794

Sci - Med
Dec 61

111, 408

The Sense Organ of Equilibrium of Meal Beetles
(Tenebrio Molitor) and Yellow-Fever Mosquitoes,
by Ulrich Baseler, 6 pp.

GERMAN, per, Zeitschrift fur Naturforschung,
Vol XVIb, No 4, 1961, pp 264-267.

NIH 7-40-63

Sci - Biol & Med
Sep 63

STUDIES CONCERNING THE HEMAGGLUTININATIVE NON-
INFECTIOUS PARTICLES OF THE INFLUENZA VIRUSES. II.
COMPARATIVE STUDIES OF THE PHYSICO-CHEMICAL AND
BIOLOGICAL CHARACTERISTICS OF THE PARTICLES,
BY R. ROTT, W. SCHAFER, 18 PP.

GERMAN, PER, Z FÜR NATURFORSCH, VOL XVI B, NO 5,
1961, PP 310-321, 1961,

NIH 6-22-62

SCI - MED
CHEM
AUG 62

208,760

The Linear Energy Transfer in the Hit Theory,
by W. Dittrich.
GERMAN, per, Z fuer Naturforschung, Vol XVIIb,
No 6, 1961, pp 398-402.
*AEFE-Harwell

Sci-Phys
apr 65

Cleavage of the Si-N Bond By Lewis-Acid Boron
Compounds, by Heinrich Noth, 7 pp.

GERMAN, per, Z fuer Naturforschung, Vol ~~XXVIII~~
XVIIb, 1961, pp 618-620.

SLA 63-10611

Sci

Aug 63

341,479

The Intracellular Formation of Bacterial DNA, by
A. Kleinschmidt, D. Lang.

GERMAN, per, Zeitschrift fur Naturforschung,
Vol XVIIb, No II, 1961, pp 730-739.

RIH ~~XXXXX~~ 10-15-62

Sci - Med TT-66-12514
Dec 62 218,890

62-14644

Bauer, Richard,
MAGNESIUM-ALKYL-BORON HYDRIDE AND ITS RE-
ACTION BEHAVIOUR, II. [1962] 6p. 6 refs.
Order from SLA \$1.10 62-14644

I. Bauer, R.

Trans. of Zeitschrift für Naturforschung (West Ger-
many) 1961, v. 16b [no. 12] p. 839-840.

DESCRIPTORS: *Magnesium compounds, *Alkyl radi-
cals, *Boron compounds, *Hydrides, Ethyl radicals,
Diboranes, *Chemical reactions, *Reaction kinetics.

The preparation of magnesium hydride from diethyl
magnesium and diborane proceeds by way of magnesium-
alkyl-boron hydride as intermediate product. New ex-
perimental results are communicated. (Author)

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

Office of Technical Services

Constitution of the Vanadium Minerals Hewettite and
Meta-Hewettite, by A. Weiss.
GERMAN, per Zeitschrift für Naturforschung, Vol. 16b,
No. 12, 1961, pp 342-343
CSIRO/No.7670

Sci -
Sep 67

339-796

Crystal Swelling and Zeolitic Absorption of
Calcium Monopropyl Phosphate, by K. Hartl, A. Weiss.
GERMAN, rev, Zeitschrift für Naturforschung, Vol. 18a,
No. 12, 1961, pp ~~8~~-845-853,
CSIRO/No. 1773

Sci -

July 1967

334-493

Intracrystalline Swelling and Interlayer Inclusion
Compounds of Calcium-Mono-Methyl and Calcium-Mono-
Ethyl Phosphoric Acid Esters, by A Weiss.
GERMAN, per, Zeitschrift fuer Naturforschung (Ausgabe
B), vol. 17, no. 1, 1962, pp. 11-14.
NTC 711191-07D

August 71