

Cyanine Dyes. VIII. Synthesis of Alkoxy Derivatives of Quaternary Benzoquinaldinium Salts and Their Transformations, by G. T. Pilyugin, E. P. Opanasenko, N. A. Tsvetkova, 3 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXVII, No 4, 1957, pp 1018-1020.

Consultants Bureau

Sci - Chem
Aug 58

69, 206

Studies of Synthetic Dyestuffs. XXV. The Synthesis
of Isomeric N-Arylquinaldine Salts and Their
Conversion into Cyanine Dyestuffs, by G. T. Pilyugin,
E. P. Opanasenko, 5 pp.

RUSSIAN, per, Zhur Obshch Khim., Vol XXXII, No 5.
1962. pp 1398-1403.

CB

Sci

233,536

Mar 63

Cyanine Dyes. VII. Cyclization of Secondary Aromatic Amines with Vinyl Ethers into Arylquinaldinium Derivatives, by G. T. Pilyugin, E. P. Oparasenko, 3 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXVII, No 4, 1957, pp 1015-1017.

Consultants Bureau

Sci - Chem
Aug 58

69, 205

Mechanised Methods of Surfacing With Aluminium Bronze
Compared, by V. V. Podgayetskiy, S. A. Opanasenko,
9 pp.

RUSSIAN, per, Avtomat Svarka, No 8, 1960, pp 66.

BWRA

165, 252

Sci

Aug 61

Modification of the Structure of Desoxyribonucleic⁶⁹
Acid in Microorganisms, by Z. Opara-Kubinska.
POLISH, per. Postepy Biochem, Vol 7, No 2, 1961,
pp 289-298.
ATS PJ-5486

Z. Opara-Kubinska
Sci-B&M
June 70

Opara-Kubinska, Z.
MODIFICATION OF THE STRUCTURE OF
DESOXYRIBONUCLEIC ACID IN MICROORGANISMS
[1961] 9p.

Order from ATS \$17.20

ATS-85N56P

Trans. of Postepy Biochem[ia] (Poland) 1961, v. 7,
no. 2, p. 289-298.

DESCRIPTORS: *Nucleic acids, *Microorganisms,
Molecular structure.

(Biological Sciences--Biochemistry, TT, v. 7, no. 5)

62-12394

- I. Opara-Kubinska, Z.
- II. ATS-85N56P
- III. Associated Technical
Services, Inc.,
East Orange, N. J.

197111

Office of Technical Services

**The Abeyaratne and Alga Chemical Projects, by M. Proden,
I. Operation, et al, 6 pp.**

REKSIAN, np, Leningradskaya gazeta, 1953, 28 Nov, pp 1, 2.

ZIPAS 23679

**USIA
Econ
Jan 64**

246, 885

The X Universe and Life, by A. Oparin, 8pp.
FOR OFFICIAL USE ONLY

RUSSIAN, per, Aviatsiya i Kosmonavtika, No 10, 1962.
9683307

FTD-ST-62-10

Sci

Acad.
~~Sci~~ 63

342,965

Oparin, A. and Rogowin, S.
A STUDY OF THE NATURE OF COTTON PIG-
MENTS. [1961] 5p. 16 refs.
Order from SLA mi\$1.80, ph\$1.80 61-14047

Trans. of Melhand Textilberichte (Germany) 1930,
v. 11, p. 944-946.

61-14047

1. Pigments--Chemical
analysis
 2. Cotton--Chemical analysis
- I. Oparin, A.
 - II. Rogowin, S.

Office of Technical Services

(Unannounced)

Extent of Life in the Universe, by A. E. Oparin,
V. G. Fesenkov, 5 pp.

RUSSIAN, bk, Life in the Universe, Chapter VIII,
Moscow, 1956.

CIA/FDD X-4107

Sci - Space Res
Feb 60

107,766

18
The Origin and Evolution of Monism, by A. I. Oparin,
7 pp.
BIOLOGICAL, part, Private, No 4, 1964, pp 29-32.
JPRS 20991

Sci-Med & Med
Enc 66

378,063

The Inhibitory Activity of Invertase and Maltase in
Certain Species of Yeast of the Saccharomycetes
Family, by Oparin, A. I. et al.
RUSSIAN, per, Biochim, Vol. 10, No. 5, pp. 5711-73,
1958.
REF ID: A66555

1958.
Sci/11/58
Mar 68

273,777

Effect of nutritive media on the growth and
composition of Yeasts and their enzymatic
activity, by A. I. Gurev, et al.
RUSSIAN, per, Dokl Akad Nauk SSSR, Vol 99,
No 4, 1954, pp 593-596.
WH 5-22-65

Sci- 4101 5 1903 Sci
May 65

278, 3/2

Activity of ~~XX~~ Ribonuclease Included Into
Conserve Drops, by ~~K. B. Serebrovskaya~~, pp
4 pp. A.I. OPARIN

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXII, No 4,
1958, pp 661-664

Amer Inst of Biol Sci

Sci - Biol

Apr 79

86,202

Scientific Progress in China, by A. I. Oparin.

RUSSIAN, per, Priroda, Vol XLI, No 3, Mar 1952,
pp 91-94. 410 P933

USDA Trans-~~XXXX~~

USSR

Economic - Agriculture, progress
Scientific - Biology, progress

482

The Effect of Desoxyribonucleic Acid on the
Tryptic Hydrolysis of Proteins, by A. I. O-
parin, G. A. Deborin and V. Z. Baranova, 4
pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXVI, No
2, 1957, pp 270-272.

Consultants Bureau

Sci - Chem

73, 660

Aug 58

The Origin of Life, by A. I. Oparin,
UNCLASSIFIED

RUSSIAN, per, Nauk & i Zhizn, Vol. XXI, No 4,
Apr 1954, pp 25-27.

USDA

Scientific - Biology

Dec: 1954 CTS

20,257

USSR/ Sci

C

About Chemical Nature of Some Unstable Substances of
Green Leaf of Plant, by A. I. Oparin (FDD PA 41/49751),
RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXV, No 4, 1949.

AEC Tr 33

The Universe and Life, by A. I. Oparin.

RUSSIAN, per, Priroda, Vol VII, 1961.

NRC/C-3847

Sci

Jan 63

LIFE IN THE UNIVERSE, BY A. I. OPARIN, 10 PP

RUSSIAN, PER, PRIGODA, NO 2, 1963, PP 14-21

JPRS 21126

SCI-MISC
SEP 63

343,684

What Science Tells Us About the Origin of Life
by A. A. Szent-Gyorgyi, D.D.
New York, N.Y., Random House, Inc. 1963, Aug 1964,
p. 1-1.
1964 1964

SECRET

3
278,179

Discovery of Invertase in *Saccharomyces Globosus*
249 With the Aid of Ultrasonic Waves, by A. I.
Oparin, N. S. Gal'man, Ex I. F. El'piner.

RUSSIAN, *Izvestiya Akademii Nauk SSSR*, Vol XCVII, No 2,
Jul 1954, pp 293-295. CIA 9018813

USDA

Sci - Med

May 58

64,361

(NY-6503)

Is There Life On Other Planets?, by A. I.
Oparin, 11 pp.

RUSSIAN, np, Turkmenskaya Iskra, 2 Jul 1961,
p 3.

JPRS 10034

Sci - Space Res
Sep 61

167, 1794

The Action of a Surface Active Substance on
the Enzyme System Which Oxidizes Malic Acid in
Cytoplasmic Membranes of Micrococcus lysodeikticus,
by N. S. Gal'man, I. G. Zhukova, A. I. Oparin,
4 pp .

RUSSIAN, per, Biokhimiya, Vol XXIV, No 6, 1959,
pp 1074-1078.

Consultants Bureau

Sci

Jul 60

120,351

FILM PRODUCTION PROCESSES TO BE DEVELOPED ON THE
BASIS OF THE LATEST ACHIEVEMENTS IN SCIENCE AND
TECHNOLOGY. OPARIN, 9 PP.

RUSSIAN, PER, IZ AK NAUK SSSR, SERIYAL, NO 1,
1961, PP 50-51.

REPRODUCED
FROM THE ORIGINAL

NO 1, 1961

NO 1, 1961

Life: It's Origin, Nature and Development, by
A. I. Oparin.

RUSSIAN, mon, Zhizn Ye Prirod, Proiskhozhdenie i
Razvitie, Moscow, 1960, 191 pp.

~~Oliver and Boyd, Ltd~~

Mar 62

Synthesizing Action of Micrococcus lysodeikticus
Polynucleotidphosphorylase in Solution and in
Coacervate Systems, by A. I. ~~Op~~ Oparin, K. B.
Serebrovskaya, 6 pp.

RUSSIAN, per, Biokhim, Vol XXVI, No 3, 1961,
pp 499-504.

CB

Sci
Apr 62

104,580

A Study of the Activity of Ribonuclease in the
Presence of Gum Arabic by A. I. Oparin, K. D.
Serebrovskaya, M. S. Bardinakaya, 3 pp

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXV, No 1, 1958,
pp 1312-1313

Amor Inst of Biol Sci

Sci - Biology, Chem

Feb 79

80,964

Activity of the Enzymes of the Di- and
Tricarboxylic Acid Cycle as a Function of
the Protoplast Structure of Micrococcus
Lysodeikticus, by A. I. Oparin, N. S.
Gel'man, I. G. Zhukova, M. A. Lukyanova.
8 pp.

RUSSIAN, per, Biokhim, Vol XXIII, No 6, 1958,
pp 909-916.

Consultants Bureau

Sci - Biol, Chem
Jul 59

91, 293

S-4318

(DC-1936)

The Contemporary Status of the Problem of the
Origin of Life, by A. I. Oparin, 20 pp.

RUSSIAN, bimo per, Uspekhi Sov Biol, Vol XLIV,
No 2(5), Moscow, Sep/Oct 1958, pp 158-172.

US JPRS/DC-L-468

Sci - Biology

66,890

Incorporation of Labeled Glycine and Increase in Protein
Nitrogen Content as Functions of Structure of Bacterial
Protoplasts, by A. I. Oparin, N. S. Gelman, I. G.
Zhukova, 4 pp.

RUSSIAN, bino per, Biokhim, Vol XXII, No 1, 2,
Jan-Apr 1957, pp 399-405.

Consultants Bureau

Sci - Chemistry
Apr 58

61,691

Uncl. - 1

The Universe and Life, by A. I. Uspenskiy.
20 pp.

RUSSIAN. Priroda. No 7, 1961, pp 5-18.

11281 10232

Sci - Sp Research
Dec 61

100, 3 7-

Oxidation of L-Malic Acid and of Reduced
Diphosphopyridine Nucleotide in the Cytoplasmic
Membrane of *Micrococcus lysodeikticus*, by N. S.
Gel'man, I. G. Zhukova, A. I. Oparin, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXXIII, No 5,
1960, pp 1209-1212.

AIBS

Sci

Apr 61

153, 075

The Cytochrome System in the Cytoplasmic Mem=
branes of Micrococcus Lysodeikticus, by H. S.
Gel'man, M. A. Lukoyanova, A. I. Oparin, ~~115 pp~~ 4 pp.

RUSSIAN, per, Biokhim, Vol XXV, No 3, 1960,
pp ~~468-480~~
482 - 487.

JB

Sci-
Feb 61

140, 747

Effect of Desoxyribonuclease on Oxidation of
Malic Acid by *Micrococcus Lyodisfilius* Lyates,
by N. S. Gel'man, I. G. Zhukova, A. I. Ogorin,
3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXVI, No 1,
1959, pp 196, 199.

Amer Inst of Biol Sci

Sci

Jan 60

105,622

Problems of Technical Biochemistry in the Field
of Food Industry, by A. I. Oparin, 6 pp.

RUSSIAN, per, Bikhim, Vol XXIV, No 5, 1959, pp
pp 769-776.

Consultants Bureau

Sci

Pub 50

117,699

EXTRATERRESTRIAL LIFE BY A. I. OPARIN, 7 PP

RUSSIAN, PER, LITERATURE ON SPACE SCIENCE, SERIYA
DIAL, VOL XXVIII, NO 1, 1963, PP 3-8.

JPRS 18318

SCI - DIAL & NED SCI
JPRS 63

228,113

Oparin, A. [I.] and Pesenkov, V.

LIFE IN THE UNIVERSE, tr. by D. Myshne. 1961, 1v.
Order from Twayne Publishers Inc., New York \$4.50

Trans. of unidentified Russian mono., n.p., n.d.

DESCRIPTORS: *Animals, *Plants, *Planets, Galaxies.

(Biological Sciences---General, TT, v. 9, no. 1)

63-12124

- I. Oparin, A. I.
- II. Pesenkov, V.
- III. Twayne Publishers, Inc.,
New York

Office of Technical Services

(YDD 27763)

Influence² of Change in the Structure of Bacterial
Protoplasts on Respiration and Inclusion of Labeled
Glycine, by A. I. Oparin, N. S. Gal'man, I. G. Zhukov,
8 pp.

RUSSIAN, thrice-no per, Dok Ak Nauk SSSR, Vol CV,
No 5, Moscow, 1955, pp 1036-1039.

CIA/YDD U-8542

✓
USSR

38,996

Sci - Chemistry, Biochemical; Biology

Aug 56 CWS/DEX

Coacervate System Including RNA and Chloroplasts.
by E. B. Serebrovskaya, A. I. Oparin, 9 pp.

RUSSIAN, part, Dok Ak Nauk SSSR, Vol. CXXV,
No 6, 1968, pp 1536-1545.

AMES

Sci

Sci 61

167, 433

Effect of Deoxycholate on Oxidation of Reduced
Diphosphopyridine Nucleotide, L-Malic Acid,
and L-Lactic Acid in Cytoplasmic Membrane of
Micrococcus lysodeikticus, by N. S.
Gel'man, I. G. Zhukova, A. I. Oparin, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXV,
No 1, 1960, pp 200-203.

AINS

Sci.

167, 372

Jul 61

(FID 20785)

The Tasks of the Biological Science, Depts of the Academy of Sciences, SSSR, in the Light of the 19th Congress of the KPSS and the Brilliant Ideas in the New Work of I. V. Stalin, "Economic Problems of Socialism in the USSR," by A. I. Oparin, 44 pp.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Ser Biol, No 2, Moscow, Mar/Apr 1953, pp 14-33.

CIA/FID/U-5831

USSR

Sci - Biology development of biology and allied sciences in USSR

APR 54 CTS

12,512

The Chemical Origin of Life, by A. I. Oparin. 48
RUSSIAN, bk, 1964.
C. C. Thomas Publishers

Sci - B & MS
May 66

301,210

Contemporary Data about Ways of Origin of
Life, by A. I. Gparin, 26 pp.

RUSSIAN, Col of Art, Vostokovskiy Zhurnal
vo Voennoy. Doklady na Sovetskoye
Kongressi po Kosmologii Astronomicheskogo
Soyaza AN SSSR, 1963, pp 4-21.

P1000j5063-9

FTD-MT-64-R33

Sci-BNM

Feb 68

350,530

A. I. GPARIN

General Conclusions, by A. I. Oparin,
V. G. Posenkov, & pp.

RUSSIAN, Col of Art, Voskhodnaya Zhizn'
vo Vostochnoy. Doklady na Sovetskoye Komissii
po Kosmologii Astronomicheskogo Soveta An SSSR,
1963, pp 94-96.

P100030068-7

FTD-MT-64-233.

A. I. Oparin

Sci-Atmospheric Sci

Feb 68

350,585

Quantitative Relationships in the Models of
Expanded Reproduction, by D. Oparin, 6 p.

RUSSIAN, per, Voprosy Ekonomiki -- Problems of
Economics, No 11, 1959, pp 145-152.

International Arts and
Sci Press
Problems of Economics
Vol II, No 10

UENR - Econ
Apr 60

111, 734

On the Question of the Relation Between Respiration
and the Synthetic Processes in the Higher Plants,
by Oparin, Gelman, 10 pp. UNCLASSIFIED

Full translation.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol LXXXV,
1952, pp 1357-1360.

Scientific - Chemistry

AEC Tr 2047

SLA-R-1173
Jun 53 CTS/DEX

3074

Multi-sector Economic Accounts, by
D. I. Oparin.

RUSSIAN, bk, 84 pp.

Pergamon Press

Jan 64

The Lithium, Sodium Bromide, Nitrate Ternary
Reciprocal System, by A. F. Oparina, N. S.
Dombrovskaya, 3 pp.

RUSSIAN, per, Zhur Neorgan Khim, No 10, 1961,
pp 2364-2370.

Cleaver-Hume Press

Sci

Oct 62

213,235

Reciprocal System of Thiocyanates and Chlorides
of Sodium and Potassium, by A. F. Oparina,
15 pp, N. S. Demorovskaya.

RUSSIAN, per, Zhur Neorgan Khim, Vol III,
No 2, 1958, pp 413-424.

AEC Tr-4450

PL-480

Sci

May 62

PST 372

195,280

Sci-Chem

C

The Synthesis of 2,3,5,6-Tetramethylpyridine, by N. P.
Oparina, 5 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XIX, no 7, Jul 1949.

CIA/INT, X-301

Also:
AMC F-TS-6972-RE, 4pp
c May CTS

See etc

Method for Obtaining VNI NP-255 High Temperature
Lubricants, by Ye. M. Gvarina, L. F. Sentyurikina,
et al

Russian patent, No 131453, application 6640 34/53,
28-Apr 60, 2 pp.

FTD-TT-61-465

Sci-AMPub's
Jan 63

210,000

The Decreasing of the Thermal Stability of Silicone
Fluids by Means of Ultrasonics and Antioxidation
Additions, by A. S. Yermilov, Ye. M. Oparina, 7 pp.

UNCL

RUSSIAN; bk, Trudy Smazochnyye Materialy. Prikladn k
Nim i Parafinu, Vol 7, 1958, pp 409-414. 9660791

NTIC MEL-327/V

Sci - Fuels

149,692

Apr 61

Telecom 41790

(FDD 26416)

International Student Paper To Start This Year
(Finland), by Pauli Opa, 5 pp.

FINNISH, wk np, Kansainvaliainen Ylioppiläislehti
Penkaisec jo Tana Vuonna, No 31, Helsinki, 30 Sep
1955.

CIA/FDD/U-7775

HEMX

NEur - Finland

Soc

31,818

OTHER

(JP-1001)

Improvement of Squirrel-Cage Induction Motors of
Three-Phase Construction, by Ighel Ghicchi, 13 pp

ROMANIAN, per, 4 Electrotehnica, Vol VII, No 2,
Bucharest, 1959, pp 298-302.

JPRS 2555

EGAL - Romania

Econ.

May 60

116,272

AN IMPORTANT CONDITIONS FOR UPLIFTING LIVING
STANDARDS OF THE SOVIET PEOPLE, BY L. OPATSKIY,
15 PP.

RUSSIAN, PER, VOPROSY EKONOMIKI, NO 11,
1962, PP 56-65.

JPRS 17704

USSR
SOC, ECON
FEB 63

223,912

XXXXXXXXXX

Enrichment of B¹⁰ Isotope by Chemical Exchange.
by Istvan Kias, Istvan Opauski, 7 pp.

HUNGARIAN, per, Magyar Kemia Polyoirat,
RSE Vol LXIV, 1958, pp 7, 8. 920075

ANC-tr-5383

Sci - Chem

Dec 62

2195-2

Investigation of the Separation of Boron Isotopes,
by I. Kras, I. Opauszky, L. Matus, 5 pp.
~~Pollard~~
HUNGARIAN, per, Rocznik Chemii, Vol XXXIV, 1960,
pp 385-389. 9093723

ABC Tr-4827

Sci - Chem.
Dec 61

177.422

Data on the ~~Separation~~ Separation of Boron Isotopes, by
Istvan Kiss, Istvan Opauszky, 12 pp.

HUNGARIAN, per, Magyar Tudomanyos Akad. Kospont
Fiz. Kutato Intezetnek Kozlomenyei, Vol VII, 1959
pp 391-398. 9069450

AEC-tr-5384

217, 895

Sci - Chem
Dec 62

Third Group. Industrial Plants, by R. G. Opando. 470.

UNKNOWN, First Section. Chapter X. Oleaginous
Plants, pp 387-467, op 12, Ed 3, v 3.

SIA 3357

Sci - Chem

Aug 58

70,658

Cinema (Ramp). Part of Book: Third Group, Industrial
Plants, BY R. G. Opazo, 6 pp.

UNKNOWN, Second Section, Chapter 11, Textile Plants,
pp 485-593.

SIA 3356

Sci - Chem

Aug 56

70,659

J. A.
Improvements in Cameras, by Op de Beeck, 13 pp.

FRENCH, Belgian Patent No 514,432.

Dept of Commerce
Patent Office
Sci Lib (Gift)

Sci - Eng
Jul 57

49,330

Planning and Design of an "Observation Ward" for
Post-Operative Cases, by H. W. Opderbecke, 6 pp.

GERMAN, per, bk, Planung und Gestaltung einer
"Wachstation" fuer Frischoperierte.

CSIR Tr No 226

215, 926

Sci - Med
Ingr

Oct 62

The Problem of Strengthening High-Pressure
Vessels, by M. G. Gonikberg, D. S. Tsiklis,
A. A. Opekunov, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXIX, No 1,
1959, pp 88-90.

Amer Inst of Phys
Sov Phys-Doklady
Vol IV, No 6

Sci

Jul 60

120,680

The Hot-Workability of Steels in the
Temperature Range Around 1000°C, by
P. Opel, S. Wagner.
GERMANY, per, Arch Eisenh., Vol 55,
Dec 1964, pp 1133-1144.
L152 4232

P. Opel

EN-GER
Sci/TECH
Dry GS

274,251

62-12498

Opel, P.
THE EFFECT OF ALUMINIUM CONTENT AND OF
WORKING CONDITIONS ON THE HOT-WORKING
PROPERTIES OF HEAVY FORGINGS. Jan 62.
Order from BISI £3 15s BISI-2511

Trans. of Paper presented at the Conference on
Heavy Forging, Terni, Sep 61.

DISCRIPTORS: *Aluminum, Forge presses,
*Forging.

- I. Opel, P.
- II. BISI-2511
- III. British Iron and Steel
Industry Translation
Service (Gt. Brit.)

197114

(Metallurgy, IT, v. 7, no. 6)

Office of Technical Services

The Effect of Aluminium Content and of Working
Conditions on the Hot-Working Properties of Heavy
Forging, by P. Opel.

GERMAN, Paper Presented at the Conference on Heavy
Forging, Terni, Sep 1961.

BISI 2511

Sci - Engr

Mar 62

list 121

186, 924

Determination of Defect Size in Forgings by
an Ultrasonic Technique, by P. Opel, G. Ivens.

EMMERMAN, per, Archiv Eisenhüttenwesen, Vol. XXXIII,
No 5, 1962, pp 311-316.

HB 5655

Sci-Min/Met
Jun 63

220,007

Influence of Al Content and Forging Conditions on Hot
Workability of Heavy Forgings, by P. Opel.

GERMAN, Paper Presented at the Conference on Heavy
Forging, Terni, Sep 1961.

*BISI 2511

Sci

11 Dec 61

11st 116

A Large Deposit in Carbonate Reservoirs in the
Zyzba Field and the Prospects of Discovery of
Similar Fields in Kuban, by V. E. Opal, et al.,
6 pp.

RUSSIAN, par, Geologiya Nefti, Vol II, No 30
1958, pp 55-59.

The Review of
Russian Geology
533 Harden Street.
Columbia, S. C.

Sci . Geophys
Nov 58

77, 126

Use of the Chromatography Method on Filter Paper for
Study of Phosphorus Compounds, by Ya. Open'ska-
Bliant, 11 pp.

RUSSIAN, per, Biokhimiya, Vol XVIII, No 6, 1953,
pp 748-752. CIA D 151180

SLAR-75
NIN

Scientific - Chemistry

22,186

OTS 66/Mar 1955

Study of the Mixing Efficiency of a Basic-Iron
Mixer, by E. Eickworth, H. J. Kopineck, G. Gifler.

GERMAN, per, Stahl u Eisen, Vol LXXVI, No 16,
1956, pp 1024-1032.

HB 4048

Sci - Engr

Dec 59

104,358

Reproduction in Production of Information, by
Name Code: 177. GOVERNMENT OF THE GULF
CINEL, par, Singaporean Navy, No 12, 17 Mar 1964,
97.
JPLS CND: 115

EE-Czechoslovakia
Econ
Jan 64

109,476

Continuous Hydrochlorination of Acetylene
Over Aluminum Oxide, by K. V. Topchieva,
A. M. Rambaeva, G. Opits, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXVII,
No 6, 1957, pp 1010 -

Consultants Bureau

Sci - Chem

Oct 58

74, 373

The Oxygen Supply of the Brain and the Mechanism
of Deficiency Effects, by E. Opitz, M. Schneider,
122 pp.

GERMAN, per, Ergeb Physiol Biol Chem u Exptl
Pharmakol, Vol XLVI, 1950, pp 126-260.

SLA Tr 57-576

WIN 10-23 57-576-11

Sci - Biology

Sep 57

52,792

Directing, Controlling, Storing, Computing: Steps
in the Development of Drive Mechanisms Towards
Automation of Rolling Mills, by E. Opitz.

GERMAN, per, Stahl und Eisen, 14 Apr 1960,
pp 503-507.

BISI 1717

135,575

Sci - Engr

Jan 61.

Examples of Electronic Control and Regulation
Equipment for Drives on Rolling Mills in Germany,
by H. Opitz.

GERMAN, per, Stahl u Eisen. Vol LXXIII, No 18,
1953, pp 1141-1148.

ASLIB-GB43

Sci.

Aug 58

71,457

OPITZ, H.
JANSEN, H.

Archiv Eishuttenwesen, vol. 11, pp. 385-391,
15 figs., 2 tables, 4700 words; 1938.

Drilling tests on plain carbon steels.

Brutcher, Trans. Order No. 585, \$4.70

Effect of Vibrations on Wear and Service Life of
Turning Tools, by H. Opitz, E. Salje.

GERMAN, per, Industrie-Anzeiger, Vol LXXVI,
No 45, 1954, pp 690-697.

CSIRO 5212

Sci. - Engr

191, 681

Apr 62

Effect of Oxide Inclusions on the Machinability of
Cr-Ni Steel With Carbide-Tipped Turning Tools,
by H. Opitz, M. Gappisch.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXXIII,
Dec 1962, pp 841-851.

BIET 3152

235,718

Sol - M/M
Jul 63

Effect of Material and Machining Conditions on Flank
and Clearance Face Wear, by H. Opitz, G. Weber.

GERMAN, per, Industrie-Anzeiger, Vol XXXIV, Sep 1953.
pp 906-914.

DISI 2208

Sci - Engr

Feb 62

list 117

182,635

Millination of Machine Tools, by H. Fohs,
H. Gpitz.

CHINA, per, Werkstattstechnik, Vol 49,

No 5, 1959, pp 7-490

GR/05/1603644

H. Gpitz.

Bot -

JUL 67

335,021

(SF-1856/3)

Some Problems of Economic Cooperation Between the
German Democratic Republic and the Socialist Sister
Countries, by Kurt Opitz, 13 pp.

GERMAN, per, Einheit, Vol XVI, No 4, 1961, pp 588-600.

JPRS 4892

EUR- E. Germany

167,688

Econ

Sep 61

Superconduction and Resistance of Thin Indium
Layers With Lattice Perturbations and Additions
of Foreign Metals, by Wolfgang Opitz, 25 pp.

GERMAN, per, Z fuer Physik, Vol CXLI, No 3, 1955,
pp 263-276.

SIA 59-10905

Sci - Minerals/Metals

Sep 59

Vol II, No 2

98,687

The Degree of Freedom of a Report in a Foundation,
by E. R. Gendron.
Gendron, E. R. Freedom and Substitution, Vol LV,
No 1, 1964, pp 25-44.
NASA TT P-607

Ref - Report
May 64
U.S. GOVERNMENT ONLY

100,631