

S/024/60/000/03/026/028
E194/E455

The 13th All-Union Scientific Technical Session on Gas-Turbine
Manufacture

"Results of Experimental Work of the All-Union Thermo-
Technical Institute on the Gas Turbine at the Shatsk
Underground Gasification Station of Podzemgaz" by
G.G.Ol'khovskiy. "Start-up and Adjustment Experience
with Gas-Turbine Type GT-600-1.5 of the Neva Works,
Leningrad and some results obtained on it in the Central
Boiler Turbine Institute Investigations" by
V.G.Tyryshkin of the Central Boiler Turbine Institute.
~~"Adjustment and Operating Experience with Gas Turbines of
the Neva Works Leningrad" by L.A.Dorfman of the Neva
Engineering Works.~~ "The Production of Fuel for Traction
and Stationary Gas-Turbines" by V.Nikolayev of the
All-Union Scientific Research Institute of the Oil
Industry. "An Experimental Investigation of Problems of
the Combustion of Natural Gas in Gas-Turbine Combustion
Chambers" by V.A.Khristich of the Kiyev Polytechnical
Institute. "An Investigation of the Possibilities of
Developing Combustion Chambers for Marine Gas-Turbines
using Models" by S.L.Briskin of the Central Scientific

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S/024/60/000/03/026/028
E194/E455

The 13th All-Union Scientific Technical Session on Gas-Turbine
Manufacture

Research Institute imeni A.N.Krylov. "Investigation
of Low-Frequency Pulsation in Gas-Turbine Combustion
Chambers" by O.V.Dubrovskiy of the Neva Engineering Works. ✓
The decisions of the Sessions indicated the main trends
in scientific research and experimental work for the
period 1960 to 1965.

Card 3/3

ANDREYEV, Pavel Alekseyevich; STRAKHOVICH, K.I., prof., retsenzent;
KOTOV, A.P., kand. tekhn. nauk, retsenzent; TYRYSHKIN, V.G.,
nauchnyy red.; VASIL'YEVA, N.N., red.; TSAL, R.K., tekhn. red.

[Rotary screw compressors] Vintovye kompressornye mashiny.
Leningrad, Gos. soizuznoe izd-vo sudostroit. promyshl., 1961.
250 p. (MIRA 15:3)
(Compressors--Design and construction)

BORISOV, V.P., inzh.; TYRYSHKIN, V.G., kand. tekhn. nauk

Gas turbine manufacture in Italy. Energomashinstroenie 7
no.2:44-48 F '61. (MIRA 16:7)

(Italy--Gas turbines--Design and construction)

ABRAMOVICH, S.F., doktor tekhn.nauk, prof.; SAMSONOV, Yu.M., kand.tekhn.nauk;
TISENKO, H.G., kand.tekhn.nauk; TYRYSHKIN, V.G., kand.tekhn.nauk;
KOSTOVETSKIY, D.L., inzh.

Review of the "Study of the elements of steam turbine, gas
turbines, and axial compressors" of the Leningrad Metallurgical
Plant (studies, no.6). Energomashinostroenie 7 no.5:44-46
My '61. (MIFA 14:8)

(Steam turbines)
(Gas turbines)
(Compressors)

TYRYSHKIN, V. G., kand. tekhn. nauk; SHIRKOV, B. A., inzh.

Effect of leakage through the radial gaps between the rotor
and the gate mechanism on the efficiency of a turbine stage.
Energomashinostroenie 8 no.12:26-29 D '62.

(MIRA 16:1)

(Gas turbines)

DUBOVSKIY, I.Ye., kand.tekhn.nauk; TYRYSHKIN, V.G., kand.tekhn.nauk;
PONARSKIY, L.I., inzh.

Meeting of several branches of industry on diesel construction.
Energomashinostroenie 9 no.8:38-39 Ag '63. (MIRA 16:8)
(Diesel engines)

SELEZNEV, K.F., doktor tekhn. nauk, red.; TARANEN, A.I., inzh.,
red.; TYRYSHKIN, V.G., kand. tekhn. nauk, red.

[Thermal condition of the rotors and cylinders of steam
and gas turbines] Teplovoe sostoianie rotorov i tsilind-
rov parovykh i gazovykh turbin. Moskva, Mashinostroenie,
1964. 282 p. (MIRA 17:11)

(Candidate of technical sciences): SAZDANOV, Iu. V.

TITLE: Field conference on power machine building 14

SOURCE: energomashinostroyeniye, no. 12, 1964, 48-49

TOPIC: electric engineering conference, electric power engineering

Resolutions of the conference

... in 1963
 were noted. Examples of past successes of individual plants and regions
 were noted. The superiority of domestic turbines over foreign turbines
 in specific output, power and dimensions is noted. Plans for the future
 in the output of existing as well as the construction of new types of
 power equipment are briefly outlined. Areas in the industry in need of
 special attention such as quality control in boiler plants, vibration,
 ... equipment for the
 ...

stainless steels in steam turbine manufacturing are noted.

ASOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: EE

NO REF SOV: 000

OTHER: 000

JPEB

Card 2/2

I. 21922-66 EWT(m)/ETC(m)-6/T/EWP(f) WW/WE

ACC NR: AP6014623

SOURCE CODE: UR/0114/65/000/004/0001/0005

AUTHOR: Kovalevskiy, M. M. (Engineer); Proskuryakov, G. V. (Engineer); Revzin, B. S. (Engineer); Grochukhin, Ye. M. (Engineer); Sorokin, G. N. (Candidate of technical sciences); Tyryshkin, V. G. (Candidate of technical sciences)

ORG: none

69
68
8

TITLE: Results of the gas turbine heat tests at the GT-6-750 TM: liquid fuel plant

SOURCE: Energomashinostroyeniye, no. 4, 1965, 1-5

TOPIC TAGS: gas turbine, thermometer, resistance thermometer, tachometer, wattmeter, monometer, turbine compressor

ABSTRACT: The article presents the results obtained in the final stage of thermotechnical testing of the 6 megawatt gas turbine installation in the plant. A schematic diagram of the measuring set-up and instrumentation is shown: it consisted essentially of a mercury thermometer, a resistance thermometer, a manometer, a standard manometer, a tachometer and a laboratory wattmeter. At a temperature of 760°C before the high-pressure stage and with 6 MW output at 6200 rpm, the efficiencies were 86.5% for the high-pressure stage (89.5% design value) and 91.6% for the low-pressure stage (90.5% design value). All the equations are shown for calculating power losses, heat balance and efficiencies. The compressor was also tested at the same time. The results are presented in the form of curves. These show the overall perfor-

Card 1/2

UDC: 621.438.001.41

L 21922-66

ACC NR: AP6014623

mance characteristics, namely the temperature and compression ratio as functions of output power under optimum conditions of the high-pressure stage operation, also the output power as a function of speed at various fuel rates. The results are compared with those of previous preliminary tests and original design values. The analysis of test data provide a clue for possible improvements of the gas turbine performance. / Orig. art. has: 5 figures, 9 formulas and 1 table. [JPRS]

SUB CODE: 21 / SUBM DATE: none / ORIG REF: 001

Card 2/2 ast

ANTONOVICH, A.V., inzh.; TRIFSIK, M.I., inzh.; TYRISHKIN, V.G., kand. tekhn.
nauk

Study of the variable temperature conditions of the hull
components of the GT-25-700-1 gas turbine system.
Energomashinostroenie 11 no.10:28-31 0 '65.

(MIRA 18:11)

ANTONOVICH, A.V., inzh.; TRIFSIK, M.I., inzh.; TYRYCHKIN, V.G., kand.
tekin. nauk

Study of the operating temperature modes of the prototype of a GT-
25-700 gas turbine. Teploenergetika 12 no.5:20-26 My '65. (MIRA 18:5)

1. Tsentral'nyy kotloturbinnyy institut.

RATNER, F.Z.; TYRYSHKIN, V.G.

Types and basic parameters of gas-turbine units. Standartizatsiia
29 no.2:25-27 F '65. (MIRA 18:4)

ACC NR: AP7004516

SOURCE CODE: UR/0114/66/000/010/0001/0006

OGLOBLIN, G. A., (Doctor of technical sciences) TYRYSHKIN, V. G., (Candidate of technical sciences)

"Paths in the Development of Gas-Driven Power Turbines"

Moscow, Energomashinostroyeniye, No. 10, Oct 66, pp 1-6

Abstract: The authors discuss recent developments in design and construction of gas turbines as a primary industrial power source. It is pointed out that the Soviet Union is lagging behind other countries in this field although studies by a number of organizations as well as analysis of foreign experience has shown practical possibilities of considerable savings by introduction of gas turbine units in Soviet power plants. The following are listed as the most rational directions which should be taken for utilization of gas turbines in power engineering in the Soviet Union in the immediate future (1970-1975): 1. auxiliary equipment for peak electrical loads in power systems; 2. operation as continuous-duty low and medium power units in isolated power systems or remote regions (including mobile or floating power stations); 3. carrying base loads in various types of combination steam-gas systems; 4. use as stand-by emergency units and auxiliary power stations. Prompt attention should be given to construction and

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UDC: 621.438.71(0.47.1)

0936

1918

ACC NR: AP7004516

perfection of gas turbine power units with a base power of 25-100 thousand kw based on simple thermal systems with high reliability, excellent operational properties and relatively low cost in production and utilization. These installations should be made with regard to optimum use in combination steam-gas systems. In addition to systems with high-pressure steam generators, proper attention should be given to simpler systems which may be operated on more plentiful types of fuel with discharge of the gas into the firebox of the power boiler, installation of waste-heat boilers or feed water preheaters, etc. Instigation of a technical program for development of power turbine construction should be based on acceleration of research along the following lines: 1. an increase in initial temperatures by using new grades of stainless alloys and efficient systems for cooling the main components of gas turbines; 2. introduction of higher compression ratios and rates of air flow; 3. improvement in the reliability and durability of the basic elements and components in the gas turbine unit; 4. using heavier types of liquid fuel. A successful solution of these problems will provide the groundwork for wider application of gas turbine installations in power engineering resulting in considerable savings. Orig. art.

has: 8 figures. [JPRS: 39,568]

ORG: none

TOPIC TAGS: gas turbine, electric power engineering, turbine cooling
SUB CODE: 10 / SUBM DATE: none / ORIG REF: 003 / OTH REF: 003
Card 2/2

TYRYSHKIN, M.A., inzh.

Transmitter of the speed of air flow with a sensitive element,
deflector and transformer angle converter. Izv.vys.ucheb.
zav.; gor. zhur. 6 no. 12:181-189 '63. (MIRA 17:5)

1. Tomskiy ordena Trudovogo Krasnogo Znameni politekhnicheskii
institut imeni S.M.Kirova. Rekomendovana sektsiyey avtomatizatsii
ventilyatornykh vodootlivnykh i kompressornykh ustanovok konferentsii
po avtomatizatsii.

TYRYSHKIN, M.A., inzh.

Study of the permeance of air gaps and reactive moments of an
angular displacement transformer. Elektrichestvo no.8:84-87 '65.
(MIRA 18:9)

1. Tomskiy politekhnicheskii institut imeni Kirova.

TYRYSHKINA, L.P., inzh.

Making tanks of O9G2DT steel by the envelope method. Svar.
proizv. no.6:35-36 Je '62. (MIRA 15:6)

1. Kuybyshevskiy zavod rulonnykh i montazhnykh zagotovok.
(Tanks--Welding) (Steel--Welding)

38265

S/135/62/000/006/012/014
A106/A106

18.1150

AUTHOR: Tyryshkina, L. P., Engineer

TITLE: Production of O9Г2ДТ (O9G2DT) steel containers by folding

PERIODICAL: Svarochnoye proizvodstvo, no. 6, 1962, 35 - 37

TEXT: To test the foldability and weldability of O9Г2ДТ steel, two containers of 5,000 m³ capacity and one gas reservoir of 20,000 m³ capacity were manufactured by automatic submerged-arc welding on an electromagnetic unit, and subsequent folding into a roll. Horizontal and vertical joints were produced by two-sided welding. The reservoir shells were welded on a two-storey unit designed by the Institute of Electric Welding imeni Ye. O. Paton. The external sides were welded on storey I and the internal sides on storey II. The O9G2DT steel was found to be suitable for the purpose. Its high mechanical properties will reduce metal consumption in reservoir building. Composition and mechanical properties are given. There are 3 tables and 1 figure.

ASSOCIATION: Kuybyshevskiy zavod rulonnykh i montazhnykh zagotovok (The Kuybyshev Plant of Roll and Assembly Blanks)

Card 1/2

Production of...

S/135/62/000/006/012/014
A006/A106

Table 1.

thick- ness in mm	mechanical properties			chemical composition						
	B in kg/mm ²	T in kg/mm ²	δ in %	C	Si	Mn	S	P	Cr	Ni
5	51	38	31	0.1	0.56	143	0.027	0.016	0.05	0.06
6	50	35	31.5	0.1	0.58	139	0.024	0.08	0.07	0.06
7	54	41	30	0.1	0.59	163	0.033	0.022	0.07	0.06
8	51	38	29	0.1	0.56	143	0.027	0.016	0.06	0.06
10	50	35	30	0.1	0.59	148	0.035	0.017	0.08	0.09

Card 2/2

TYRYSHKINA, V., starshiy kinotekhnicheskiy inspektor (Irkutsk).

Use of 600 meter reels for 16 mm. motion-picture films. Kinomekhanik no.11:
33 N '53. (MIRA 6:11)

(Motion picture projection--Supplies)

TYRTYSHNIKOV, I.M.; GARMASH, V. Ya.

Aldolase and transaminase activity of the blood serum and electro-
kymographic indices in myocardial infarction. Vrach. delo no.1:
20-25 Ja'64 (MIRA 17:3)

1. Kafedra gospital'noy terapii (zav. - prof. M.N.Tumanovskiy)
Voronezhskogo meditsinskogo instituta.

POTEMKIN, P.S.; SHUMILIN, A.A.; KURDIANI, G.P.; KHAZARADZE, M.I.;
TYRTYSHNYY, A.Ye.

Firing Dankov dolomites in rotary kilns. Ogneupory 28 no.9:
389-392 '63. (MIRA 16:10)

1. Vsesoyuznyy institut ogneuporov (for Potemkin, Shumilin).
2. Rustavskiy metallurgicheskiy zavod (for Kurdiani, Khazaradze).
3. Dankovskiy dolomitovyy kombinat (for Tyrtysnyy).

ACCESSION NR: AR4040825

S/0058/64/000/005/D063/D063

SOURCE: Ref. zh. Fizika, Abs. 5D486

AUTHOR: Ty*rziu, M. P.

TITLE: Certain optical properties of the compound Ga sub 2 Se in films

CITED SOURCE: Uch. zap. Kishinevsk. un-t, v. 63, 1963, 50-54

TOPIC TAGS: optical property, film, selenium compound, gallium subselenide, gallium compound

TRANSLATION: Films of Ga₂Se are obtained by the deposition of the components on heated glass plates. In samples thinner than 0.7 μ there is observed a dependence of the coefficient of absorption on the layer thickness. The width of the forbidden band is 2.35 ev at room temperature. From the spectrum of reflection is determined the index of refraction, equal to 2.7 at $\lambda > 0.72\mu$; the dielectric constant $\epsilon = 7.3$.

SUB CODE: IC, OP

ENCL: 00

Card 1/1

TYRZIU, V.G.; TYRZIU, M.P.

Some optical properties of thin films of the system $Ge-Si$.
Trudy po fiz. poluprov. no.1:92-96 '62.

Some optical properties of thin films of the compound Ge_2Se_3 .
97-104 (Mina no:11)

TYRZIU, V.G.; TYRZIU, M.P.

Some optical properties of thin films of the system $Ge-As_2S_3$.
Trudy po fiz. poluprov. no.1:92-96 '62.

Some optical properties of thin films of the compound Ge_2Se_3 .
97-104 (Mina 10:11)

KOT, M.V.; SIMASHKEVICH, A.V.; TYRZIU, V.G.; TSURKAN, A.Ye.

Electric, optical, and photoelectric properties of thin films
of the system ZnTe - CdTe. Trudy po fiz. poluprov. no.1:121-
130 '62. (MIRA 16:11)

KOT, M.V.; SIMASHKEVICH, A.V.; TYRZIU, V.G.

Electric, optical, and photoelectric properties of thin films
of the system ZnSe - CdSe. Trudy po fiz. poluprov. no.1:110-
120 '62. (MIRA 16:11)

30635
S/081/61/000/020/011/089
B144/B101

9.4160

AUTHORS: Kot, M. V., Tyrziu, V. G.

TITLE: Some optical properties of zinc telluride in thin layers

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 20, 1961, 34, abstract
20B234 (Uch. zap. Kishinevsk. un-t, v. 55, 1960, 15-19)

TEXT: It has been established that the optical properties of thin ZnTe layers are dependent on the thickness of the layer only up to thicknesses of the order of 0.8μ . The longwave limit of ZnTe self-absorption determined by the curve of the spectral dependence of the optical density is within the limits of $5700 - 6100 \text{ \AA}$; this is consistent with the forbidden-band width, $2.18 - 2.08 \text{ ev}$. [Abstracter's note: Complete translation.]

Card 1/1

x

KOT, M.V.; TYRZIU, V.G.

Optical properties of thin films of cadmium selenide, zinc selenide, and zinc telluride behind the main long-wave absorption edge. Uch. zap. Kish. un. 49:92-100 '61. (MIRA 15:7)
(Cadmium selenide--Optical properties)
(Zinc selenide--Optical properties)
(Zinc telluride--Optical properties)

SIMASHKEVICH, A.V.; KOT, M.V.; TYRZIU, V.G.

Some photoelectric properties of thin layers of cadmium and zinc selenides. Izv. vys. ucheb. zav.; fiz. no.4:52-58 '59.

(MIRA 13:3)

1. Kishinevskiy gosuniversitet.

(Cadmium selenide--Electric properties)

(Zinc selenide--Electric properties)

(Photoconductivity)

KOT, M.V.; TYRZIU, V.G.

Some optical properties of thin layers of cadmium and zinc
selenides. Izv. vys. ucheb. zav.; fiz. no.4:13-18 '59.
(MIRA 13:3)

1. Kishinevskiy gosuniversitet.

(Cadmium selenide--Optical properties)

(Zinc selenide--Optical properties)

38517
S/181/62/004/006/024/051
B10A/B112

24.7700

AUTHORS:

Kot, M. V., Tyrziu, V. G., Simashkevich, A. V.,
Maronchuk, Yu. Ye., and Mshonskiy, V. A.

TITLE:

The dependence of the activation energy on the molar
composition in thin layers of some A^{II}B^{VI}-A^{III}B^{VI} systems

PERIODICAL:

Fizika tverdogo tela, v. 4, no. 6, 1962, 1535 - 1541

TEXT: Thin layers of the systems ZnSe-CdSe, ZnTe-CdTe, ZnSe-HgSe,
CdSe-HgSe, and CdTe-HgTe were prepared by Vekshinskiy's method. The
layers were sputtered onto cold and heated glass and mica backings and
subsequently annealed in vacuo or air. The layers sputtered onto
cold backings revealed an inhomogeneous structure. The activation
energy was determined from the temperature dependence of electrical
conductivity, and from the spectral dependence of photo-conductivity
at room temperature. Under certain temperature conditions, layers could
be obtained having continuously variable composition. The optical
activation energy of the systems ZnTe-CdTe, ZnSe-HgSe, and CdTe-HgTe
Card 1/2

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SUBMITTED:

universitet

ations
CdSe from
from 2.1 to 1.4 eV;
from 1.4 to less than

33669

S/058/61/000/012/026/083
A058/A101

26.1421

AUTHORS:

Kot, M. V., Tyrziu, V. G.

TITLE:

Some optical properties of thin zinc telluride films

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 12, 1961, 198, abstract 12V301
("Uch. zap. Kishinevsk. un-t", 1960, no. 55, 15-19)

TEXT:

The absorption and reflection spectra of polycrystalline ZnTe films
prepared by the Vekshinskiy method and by evaporation from bulk
investigated at 20°C

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L 10052-63

EWI(I)/EWP(q)/EWI(m)/BDS/EEC(u)-2--APFIC/ASD/ESD-3--P4-4--IUF(C)/WH

ACCESSION NR: AR3000302

G/0000/00/000/00/0000/0000

66

SOURCE: RZh. Fizika, Abs. 4E486

AUTHOR: Tyrziu, V. G.; Tyrziu, M. P.

TITLE: Some optical properties of the compound Ga sub 2 Se sub 3 in thin layers 21

CITED SOURCE: Tr. po fiz. poluprovodnikov. Kishinevsk. un-t, vyp. 1, 1962, 97-104

TOPIC TAGS: Ga2Se3, thin layers, optical properties

TRANSLATION: Layers of Ga sub 2 Se sub 2 were obtained in vacuum by separate condensation from Ga and Se vapor on glass substrates heated to 110--150°C, corresponding to the optimal conditions for the development of such a compound. At higher temperatures the Ga sub 2 Se sub 2 thin layers disintegrated and partially converted into Ga Se. Thin layers of Ga sub 2 Se sub 3 subjected to prolonged storage in air are quite stable. It has been established that the coefficient of adsorption depends on the thickness of the layer and decreases monotonically with increasing thickness up to 0.6 μm; with further increases of

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L 10052-63

ACCESSION NR: AR3000382

the thickness, the coefficient of adsorption remains practically constant. The value of the refractive index decreases monotonically with increasing wave length. In the region of wave lengths larger than 0.75 μ , the refractive index changes insignificantly and is equal to 2.0, corresponding to a refractive constant 1.4. Yu. Ukhanev

DATE ACQ: 14May63 ENCL: 00 SUB CODE: PH

cs/ja

Card 2/2

EWT(1)/BDS/EEC(b)-2--AFFTC/ASD/ESD-3--IJP(C)/GO

L 10039-63

ACCESSION NR: AR3000357

S/0058/63/000/004/DO88/DO88

SOURCE: RZh. Fizika, Abs. 4D615

59

AUTHOR: Tyrziu, V. G.; Tyrziu, M. P.

TITLE: Some optical properties of thin layers of the Ge-Se system

CITED SOURCE: Tr. po fiz. poluprovodnikov. Kishinevsk. un-t, vyp. 1, 1962, 92-96

TOPIC TAGS: semiconductor layers, Ge-Se system, optical properties

TRANSLATION: It is shown that by using the Vekshinsky method and sputtering on hot glass substrates (temperature between 80 and 150°C) it is possible to obtain in the Ge-Se system simultaneously all three compounds, Ge sub 2 Se, Ge-Se and Ge sub 3 Se sub 2, which are clearly delineated. The red boundary of the optical absorption at room temperature for thin layers of Ge-Se is 1.0 microns for Ge sub 2 Se sub 2 and 1.35 microns for Ge sub 3 Se sub 2, which corresponds to the refractive index values of 1.0 and 1.35 respectively in good agreement with the data obtained in the literature for bulk crystals. In the Ge sub 2 Se compound

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ACCESSION NR: AR3000357

thin layers of yellow color with red boundary of intrinsic absorption at room temperature, $\lambda_{\text{sub } k} = 0.55$ micron, which corresponds to a value of ΔE of 2.25 eV at this temperature. It has also been found that compounds of the system Te-Se are apparently weakly soluble in each other.

DATE ACQ: 14May63

ENCL: 00

SUB CODE: PH

CS/ja
Card 2/2

KOT, M.V.; TYRZIH, V.G. [Tirziu, V.G.]; SIMASHKEVICH, A.V.; MARONCHUK, Yu.Ye.;
MSHENSKIY, V.A.

Dependence of activation energy on the molar composition for some
 $A_{II}^{I}B_{VI} - A_{II}^{II}B_{VI}$ systems in thin layers. Fiz. tver. tela 4 no.6:
1535-1541 Je '62. (MIRA 16:5)

1. Kishinevskiy gosudarstvennyy universitet.
(Semiconductors) (Solutions, Solid)

L 10052-63

ENT(1)/ENF(q)/ENT(m)/BDG/EEC(b)-2--AFFTC/ASD/ESD-3--Pq-l--IJP(C)/WR

ACCESSION NR: AR3000382

S/0058/63/000/004/E073/E073

66

SOURCE: RZh. Fizika, Abs. 4E486

AUTHOR: Tyrziu, V. G.; Tyrziu, M. P.

TITLE: Some optical properties of the compound Ga sub 2 Se sub 3 in thin layers 21

CITED SOURCE: Tr. po fiz. poluprovodnikov. Kishinevsk. un-t, vyp. 1, 1962, 97-104

TOPIC TAGS: Ga2Se3, thin layers, optical properties

TRANSLATION: Layers of Ga sub 2 Se sub 2 were obtained in vacuum by separate condensation from Ga and Se vapor on glass substrates heated to 110--150°C, corresponding to the optimal conditions for the development of such a compound. At higher temperatures the Ga sub 2 Sa sub 3 in thin layers disintegrates and is partially converted into Ga Se. Thin layers of Ga sub 2 Se 3 subjected to prolonged storage in air are quite stable. It has been established that the efficiency of absorption depends on the thickness of the layer and increases monotonically with increasing the thickness of the layer. With further increase of

Card 1/2

L 10052-63

ACCESSION NR: AR3000382

0

the thickness, the coefficient of adsorption remains practically constant. The value of the refractive index decreases monotonically with increasing wave length. In the region of wave lengths larger than 0.78 μ m, the refractive index changes insignificantly and is equal to 1.4, corresponding to a refractive constant 1.4. Yu. Ukrainov

DATE ACQ: 14May63 ENCL: 00 SUB CODE: PH

ca/ja

Card 2/2

L 10055-63

EWI(1)/BDS/EEC(b)-2-AFFTC/ASD/ESD-3-LJP(C)
ACCESSION NR: AR3000302 8/0050/63/000/004/E074/E074

59

SOURCE: RZh. Fizika, Abs. 4E488

AUTHOR: Kot, M. V.; Simashkevich A. V.; Tyrziu, V. G.

TITLE: Electrical, optical, and photoelectric properties of thin layers of the ZnSe-CdSe system ²¹

CITED SOURCE: Tr. po fiz. poluprovodnikov. Kishinevsk. un-t, vyp. 1, 1962, 110-120

TOPIC TAGS: Thin layers, ZnSe-CdSe system, electrical and optical properties, photoelectric properties

TRANSLATION: An investigation was made of the electric conductivity, photoconductivity, and optical properties of layers of the ZnSe-CdSe system, obtained by simultaneous evaporation of ZnSe and CdSe on glass and quartz substrates heated to 260° C, as functions of the percentage composition of the components. The specific conductivity decreases monotonically, and the

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ACCESSION NR: AR3000384

activation energy, calculated from the temperature dependence of the conductivity and from the long-wave absorption boundary and the photoconductivity increases with increasing ZnSe content in the system. A study of the optical properties has shown that for each composition there is its own transmission boundary which shifts toward the longer wavelengths with increasing CuSe in the system. Simultaneously, an increase takes place in the refractive index. All the layers obtained had noticeable photoconductivity, which increased after the layers were annealed in air. On the basis of the obtained results, the authors cannot make an unequivocal conclusion whether the layers obtained constitute a series of solid solutions or mechanical mixtures. P. Konorov.

DATE ACQ: 14May63 ENCL: 00 SUB CODE: PH

cs/ ja
Card 2/2

EMF(1)/BDS/EEC(b)-2--AFFTC/ASD/ESD-3--LJP(C)/GO

L 10039-63

ACCESSION NR: AR3000357

S/0058/63/000/004/D088/D088

59

SOURCE: RZh. Fizika, Abs. 4D615

AUTHOR: Tyrziu, V. G.; Tyrziu, M. P.

TITLE: Some optical properties of thin layers of the Ge-Se system

CITED SOURCE: Tr. po fiz. poluprovodnikov. Kishinevsk. un-t, vyp. 1, 1962, 92-96

TOPIC TAGS: semiconductor layers, Ge-Se system, optical properties

TRANSLATION: It is shown that by using the Vekshinskiy method and sputtering on hot glass substrates (temperature between 80 and 150°C) it is possible to obtain in the Ge-Se system simultaneously all three compounds, Ga sub 2 Se, Ge-Se, and Ga sub 2, SE sub 3, which are clearly delineated. The red boundary of the intrinsic absorption at room temperature for thin layers of Ge-Se is 0.61 microns, and for Ga sub 2 Se sub 3, it is 0.67 microns, which corresponds to forbidden-zone widths of 2.03 and 1.65 ev respectively, in good agreement with the data contained in the literature for bulky objects. In the Ga sub 2 Se compound in

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L 10039-63

ACCESSION NR: AR3000357

thin layers of yellow color with red boundary of intrinsic absorption at room temperature, $\lambda_{\text{sub } k=0.55}$ micron, which corresponds to a value of ΔE of 2.25 eV at this temperature. It has also been found that compounds of the system Ga-Se are apparently weakly soluble in each other.

DATE ACQ: 14 May 63

ENCL: 00

SUB CODE: PH

CS/ ja
Card 2/2

L 10053-63

EST(1)/BDS/EEC(b)-2--AFFTC/ASD/ESD-3--IJP(C)

ACCESSION NR: AR3000379

S/0058/63/000/004/EC67/EC67

60

SOURCE: RZh. Fizika, Abs. 4E451

AUTHOR: Kot, M. V.; Simashkevich, A. V.; Tyrziu, V. G.; Tsurkan, A. Ye.

TITLE: Electric, optical, and photoelectric properties of thin layers of the ZnTe-CdTe system ²¹

CITED SOURCE: Tr. po fiz. poluprovodnikov. Kishinevsk. un-t, vyp. 1, 1962, 121-130

TOPIC TAGS: ZnTe-CdTe system, thin layers, electric properties, optical properties, photoelectric properties

TRANSLATION: In order to obtain a system with prescribed properties, a study was made of the ZnTe-CdTe system. The specimens were obtained by separate or by combined evaporation of binary components on heated substrates with subsequent heating until a homogeneous solid solution was obtained, as monitored by the appearance of only one long-wave absorption edge. The volt-ampere characteristics

Card 1/2

L 10053-63

ACCESSION NR: AR3000379

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are linear; the specific electric conductivity σ in vacuum varies monotonically with the concentration of ZnTe from a value 6.18×10^{-7} (for pure CdTe) to 5.54×10^{-5} ohm⁻¹ cm⁻¹ (for pure ZnTe); the logarithm of the electric conductivity depends linearly on the inverse temperature; in air σ drops by one or two orders of magnitude, and is restored in vacuum; the conductivity is of the p-type. The optical properties were investigated in air at room temperature. The reflection coefficient, the position of the absorption edge, and the photosensitivity spectrum vary depending on the relative concentration within certain limits for pure compounds, as well as the electric conductivity. The width of the forbidden zone and the thermal activation energy vary linearly with the relative concentration, and an intrinsic conductivity appears. L. Gudymenko

DATE ACQ: 14May63

ENCL: 00 SUB CODE: PH

cs/ja
Card 2/2

TNRZAK BRÉTICIAV

FOMORSKI, Leon; TYS, Jan

Transition reactions of nucleons in interactions of nuclei
with heavy ions. Ph.D. *Postępy fizyki* 15 no.6:651-670 '84.

1. Institute of Nuclear Physics in Krakow (for Fomorski).
2. Institute of Nuclear Research in Warsaw of the Polish
Academy of Sciences (for Tys).

FLEROV, G.N.; VOLKOV, V.V.; POMORSKIY, L.; TYS, Ya.

Production of N^{17} nuclei by irradiation of some elements with heavy ions. Zhur. eksp. i teor. fiz. 41 no.5:1365-1369 N '61.
(MIRA 14:12)

1. Ob'yedinennyy institut yadernykh issledovaniy. 2. Sotrudnik Tsentral yadernykh issledovaniy v Krakove, Pol'sha (for Pomorskiy).
3. Sotrudnik Instituta yadernykh issledovaniy v Varshave, Pol'sha (for Tys).

(Nitrogen--Isotopes)
(Ion beams)

S/056/62/043/003/021/063
B102/B104

AUTHORS: Volkov, V. V., Pomorskiy, L., Tys, Ya., Flerov, G. N.

TITLE: $2n$ and $3n$ transfer reaction in the bombardment of Al, Cu and Ta by N^{15} and N^{14} ions

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v.43, no. 3(9), 1962, 865-872

TEXT: The authors studied the transfer of two and three neutrons from the target nuclei (Al, Cu, Ta) to the bombarding ions. The experiments were carried out at the cyclotron of the Laboratoriya yadernykh reaktsii OIYaI (Laboratory of Nuclear Reactions of the OIYaI) which was set in pulsed operation. The bombardment period was 30 sec, since the N^{17} half-life is 4.15 sec. The ion energies were between ~50 and 140 Mev. The time dependence of the N^{17} neutron activity and the dependence of the N^{17} yield on the energy of the bombarding ions was measured with an apparatus described in detail in ZhETF, 41, 1365, 1961. The results obtained for the reaction cross sections were compared with those of transfer reactions of one neutron from the bombarding particle to the target (ZhETF; 33, 595, 1957;

Card 1/2

2n and 3n transfer reaction in...

S/056/62/043/003/021/063
B102/B104

Phys. Rev. 119, 1331, 1960). The cross sections were found to increase when changing over Al to Cu and to Ta. The same sequence was observed for the Q-value of the reaction and for the height of the Coulomb barrier in the c.m.s. The fact that the 2n cross section is higher than the 3n cross section by about one order of magnitude is attributed to a reduction in probability. There are 8 figures and 1 table.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: April 23, 1962

Card 2/2

VOLKOV, V.V.; POMORSKIY, L.; TYS, Ya.; PLEKOV, G.N.; SARANTSEVA,
V.R., tekhn. red.

[Transfer reactions of 2n and 3n by irradiation of Al, Cu,
and Ta with N^{15} and N^{14} ions] Reaktsii peredachi 2n i 3n pri
obluchenii Al, Cu, Ta ionami N^{15} i N^{14} . Dubna, Ob"edinennyi
in-t iadernykh issl., 1962. 17 p. (MIRA 15:6)

1. Institut yadernoy fiziki, Krakov, Pol'sha (for Pomorskiy).
2. Institut yadernykh issledovaniy, Varshava, Pol'sha (for Tys).
(Nuclear reactions) (Neutrons) (Ions)

POMORSKI, Leon; TYS, Jan

Nucleon transition reaction in actions of nuclei with heavy ions.
Pt.B. Postepy fizyki 16 no.1:69-83 '65.

1. Institute of Nuclear Physics, Krakow (for Pomorski) 2. Nuclear
Research Institute, Warsaw of the Polish Academy of Sciences (for
Tys).

34655

S/056/62/042/002/050/055
B108/B138

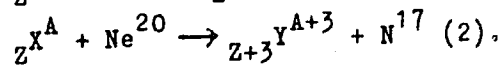
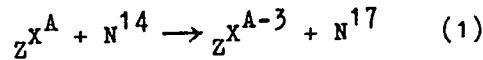
24.6500

AUTHORS: Volkov, V. V., Pomorskiy, L., Tys, Ya., Flerov, G. N.

TITLE: Observation of capture of three neutrons and stripping of three protons in the interaction of N¹⁴ and Ne²⁰ ions with C, Al, Cu, and Ta nuclei

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42, no. 2, 1962, 635-637

TEXT: The authors studied nucleon transfer processes which occur in the interaction of heavy ions with nuclei without formation of a compound nucleus. The experiments are based on recording the lagging neutron activity of the N¹⁷ nuclei. Bombarding a target with N¹⁴ or Ne²⁰ ions may lead to the reactions



However, the departure of free nucleons is not impossible. C, Al, Cu, and Ta targets were exposed to an ion beam of several microamperes. A detailed Card 1/3

Observation of capture of three ...

S/056/62/042/002/050/055
B108/B138

description of the experimental arrangement is given in ZhETF, 41, 1365, 1961 (G. N. Flerov et al.). The background caused by ions scattered from the cyclotron dees has to be considered only in the case of very low energies. Fig. 2 shows the yield in N^{17} (a), and the effective reaction cross section (b) for N^{14} ions. Results for Ne^{20} are qualitatively the same. The good agreement of the experimental values with data from publications (Ref. 11, see below) indicates that the observed reactions are nucleon transfer processes as described by Eqs. (1) and (2). There are 3 figures and 13 references: 3 Soviet and 10 non-Soviet. The four most recent references to English-language publications read as follows: J. A. McIntyre et al. Phys. Rev., 119, 1331, 1960; K. S. Toth. Phys. Rev., 121, 1190, 1961; Ref. 11: R. Kaufmann, R. Wolfgang, Phys. Rev. Lett., 3, 232, 1957; Phys. Rev., 121, 192, 1961; L. C. Northcliffe. Phys. Rev., 120, 1744, 1960. ✓

ASSOCIATION: Ob'yedinenny institut yadernykh issledovaniy (Joint Institute of Nuclear Research). Institut yadernoy fiziki, Krakov, Pol'sha (Institute of Nuclear Physics, Cracow, Poland) (L. Pomorskiy). Institut yadernykh issledovaniy, Varshava, Pol'sha, (Institute of Nuclear Research, Warsaw, Poland) (Ya. Tys)

Card 2/3

Observation of capture of three ...

8/056/62/042/002/050/055
B108/B138

SUBMITTED: December 9, 1961

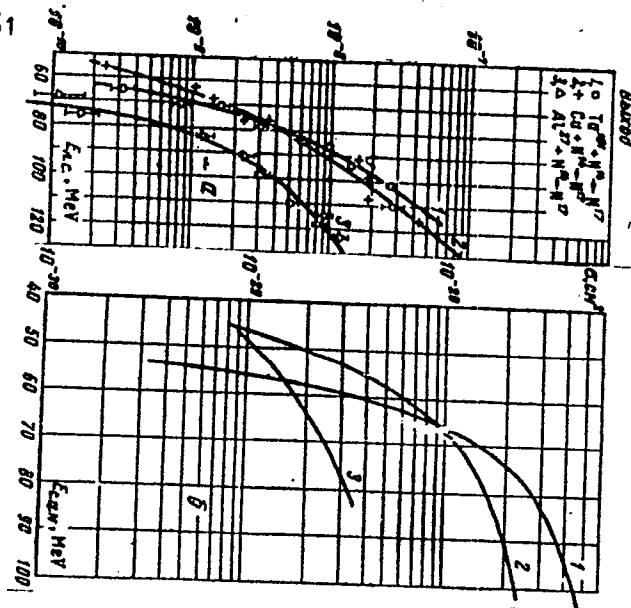


Fig. 2

Card 3/3

VOLKOV, V.V.; POMORSKIY, L.; TYS, Ya. [Tys, J.]; VIL'CHINSKIY, Ya.
[Wilczynski, J.]

Two-neutron transfer reaction in the bombardment of Zr^{90, 92, 94}
isotopes by N¹⁵ ions. Zhur. eksp. i teor. fiz. 45 no.4:897-
903 0 '63. (MIRA 16:11)

1. Ob"yedinennyy institut yadernykh issledovaniy. 2. Sotrudnik
Instituta yadernoy fiziki, Krakov, Pol'sha (for Pomorskiy). 3.
Sotrudnik instituta yadernykh issledovaniy, Varshava, Pol'sha
(for Tys). 4. Sotrudnik Yagellonskogo universiteta, Krakov,
Pol'sha (for Vil'chinskiy).

VOLKOV, V.V.; POMORSKIY, L.; TYS, Ya.; FLEROV, G.N.

Transfer reactions of $2n$ and $3n$ by bombardment of Al, Cu, and Ta
with N^{15} and N^{14} ions. Zhur. eksp. i teor. fiz. 43 no.3:865-872 '62.
(MIRA 15:10)

1. Ob'yedinennyy institut yadernykh issledovaniy.
(Nuclear reactions) (~~Collisions~~ (Nuclear physics)) (Ions)

VOLKOV, V.V.; POMORSKIY, L.; TYS, Ya.; FLEROV, G.N.

Observation of a reaction involving the pickup of three neutrons and another involving the stripping of three protons in the interaction of N^{14} and Ne^{20} ions and C, Al, Cu, and Ta nuclei. Zhur. eksp. i teor. fiz. 42 no.2:635-637 F '62. (MIRA 15:2)

1. O^oyedinennyy institut yadernykh issledovaniy. 2. Institut yadernoy fiziki, Krakov, Pol'sha (for Pomorskiy). 3. Institut yadernykh issledovaniy, Varshava, Pol'sha (for Tys).
(Nuclear reactions)(Protons)(Neutrons)

11 B

CA

Polarographic detection of hemoglobin-bound oxygen. W. Tysarowski (Akad. Med., Warsaw, Poland). *Med. Doświadczalna i Mikrobiol.* 3, 121-40(1931); cf. *C.A.* 40, 3197f. — $K_3Fe(CN)_6$ (I) removes the chemically bound O of oxyhemoglobin (HbO₂). By using a polarograph with Ag electrodes, the O is detected owing to the increase in the polarographic waves of 0.1 M KCl soln. of cryst. HbO₂ and hemolyzed blood after addn. of 1 drop of 10% I. I has no effect on whole blood; blood serum and plasma decrease the effect of I on hemolyzed blood. I by itself does not change

the pattern of 0.1 M KCl. The effect lasts 40 min. at room temp. and in open polarographic cells. I. Z. Roberts

GALASINSKI, W.; WOLOSOWICZ, Nina; TYSAROWSKI, W.

Purification and properties of catalase from *Mycobacterium smegmatis*.
Acta biochim. polon. 9 no.3:199-204 '62.

1. Department of Physiological Chemistry, Medical School, Bialystok.
(MYCOBACTERIUM - chemistry) (CATALASE - chemistry)

TYSAROWSKI, Wieslaw; prof. dr. med.; MACHURIN, Jerzy E.

Respiration of yeast foam in the presence of largactil, atabrine
and 3-amino-1,2,4-triazole. Acta Pol. pharm. 21 no.4:401-407 '64.

1. Z Zakladu Biochemii Wydzialu Farmaceutycznego Akademii Medyc-
nej w Warszawie (Kierownik: prof. dr. W. Tysarowski).

"APPROVED FOR RELEASE: 08/31/2001

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APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757720010-1"

TYSAROWSKI, W.

Tysarowski, W. The complex ion from iron and ethylenediaminetetraacetic acid as an electrontransporting catalyst in biological model experiments. In English. p. 201.

Vol. 3, No. 6, 1955

Warszawa, Poland

MATEMATYKA

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 10 Oct. 56

TYSAROWSKI, W.; KWIEK, S.; MIGDALSKA, B.

Behavior of hemoproteins in the presence of acid-fast bacilli. II. Effect of oxy- and methemoglobin on respiration of Mycobacterium phlei and Mycobacterium tuberculosis strain C. Acta microb. polon 5 no.1-2:65-68 1956.

1. Z Zakladu Biochemii i Mikrobiologii Instytutu Gruźlicy w Warszawie.

(HEMOGLOBIN, effects;

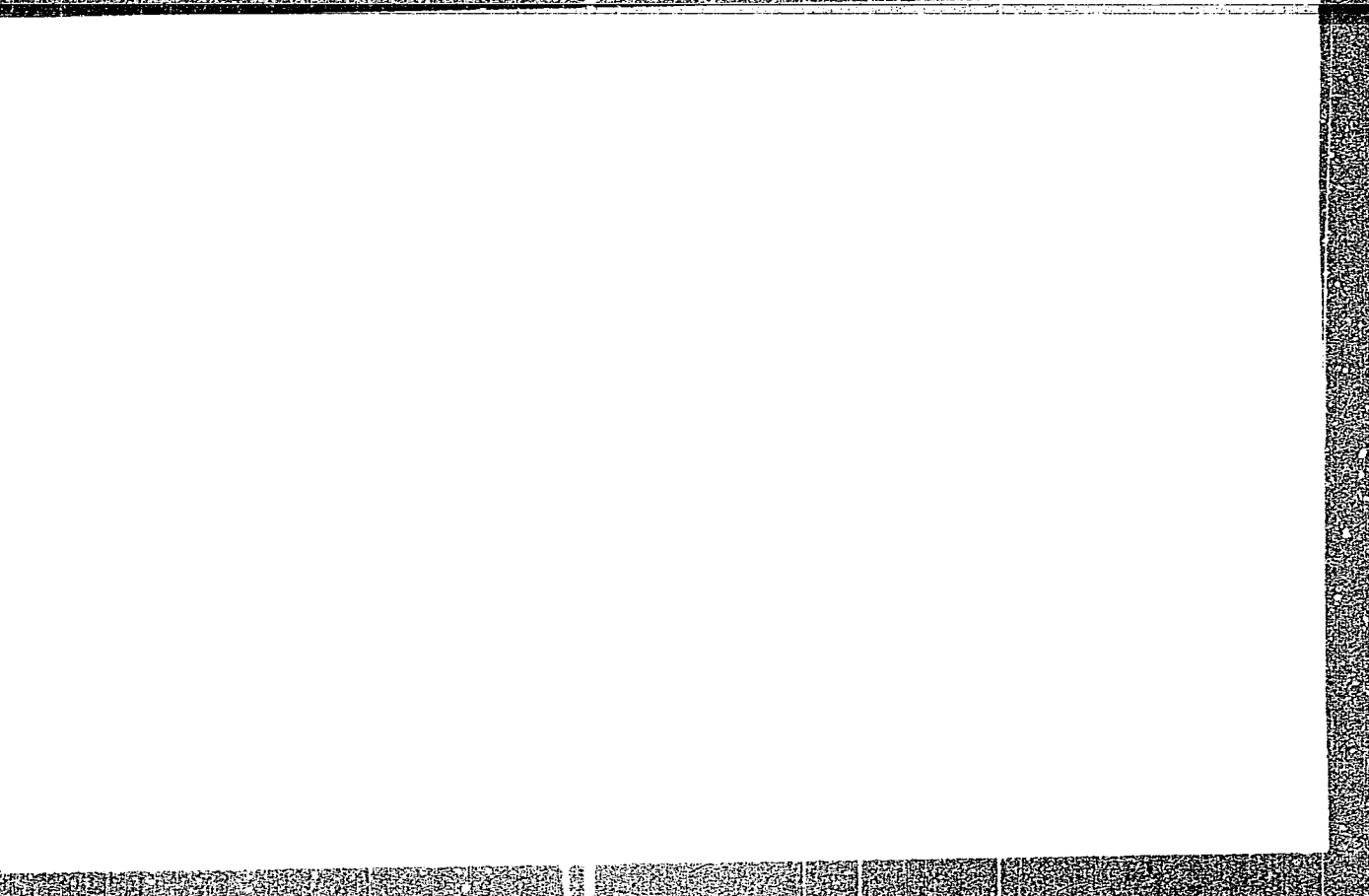
oxy- & methemoglobin on M. phlei & M. tuberc. resp. (Pol))

(MYCOBACTERIUM, effect of drugs on,
phlei, oxy- & methemoglobin (Pol))

(MYCOBACTERIUM TUBERCULOSIS, effect of drugs on,
oxy- & methemoglobin (Pol))

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757720010-1



APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757720010-1"

TYSAROWSKI, W.; KWIEK, S.

Behavior of hemoproteins in the presence of acid-fast bacilli.
III. Reduction of methemoglobin by suspensions of Mycobacterium
tuberculosis. Acta microb. polon 5 no.1-2:69-71 1956.

1. Z Zakladu Biochemii i Mikrobiologii Instytutu Gruźlicy w
Warszawie.

(MYCOBACTERIUM TUBERCULOSIS,

methemoglobin reduction by M. tuberc. suspension (Pol))

(HEMOGLOBIN,

same)

[Faint, illegible text, possibly a signature or stamp]

TYSAROWSKI, W.; ROSZKOWSKI, J.

Reactions of ascorbic acid and oxygen in the presence of oxyhemoglobin and methemoglobin. Acta physiol. polon. 3 Suppl. 3: 252-253 1952.
(CML 24:1)

1. Of the Institute of Physiological Chemistry (Head--Prof. J. Heller, M. D.) of Warsaw Medical Academy.

FYSAROWSKI, W.; MICHALSKI, M.; KLECZOWSKA, H.

Polarographic method of determination of oxygen in oxyhemoglobin.
Polski tygod. lek. 7 no. 45:1453-1461 10 Nov 1952. (CMLL 24:1)

1. Of the Department of Biochemistry of the Institute of Tuberculosis
(Director--Prof. Janina Misiewicz, M.D.)

TYSAROWSKI, W.;MICHAISKI, M.;KLECZKOWSKA, M.

Polarographic method of determination of oxygen combined with hemoglobin and of blood oxygen capacity. Acta physiol. polon. 3 Suppl. 3: 253-254 1952. (GIML 24:1)

1. Of the Department of Biochemistry (Head--Bagdasarian, M.D.) of the Institute of Tuberculosis in Warsaw.

the main pathway in acid-
fast bacilli

A. ARROYO

TYSAROWSKI, Wieslaw; KWIEK, Stanislaw

Determination of reduction properties of biological systems with the aid of the complex of iron with ethylene diaminetetraacetic acid. Acta biochim. polon. 3 no.1:55-68 1956.

1. Z Zakladu Chemii Fizjologicznej A.M. w Warszawie. Kierownik: Prof. dr. J. Heller z Instytutu Gruzlicy. Dyrektor: prof. dr. J. Misiewicz.

(ACETIC ACID, derivatives,

edathamil, determ. of reduction properties of various biol. systems, with iron. (Pol))

(IRON,

determ. of reduction properties of various biol. systems, with edathamil. (Pol))

(OXIDATION-REDUCTION,

reduction properties of various biol. systems, determ. with edathamil with iron. (Pol))

Method of manufacture of hydroxide of the organic compound
from the mixture of ...
001.12

GRYMINSKI, Janusz; MALESZEWSKI, Stanislaw; TYSAROWSKI, Wieslaw

Effect of BCG resistance on the inclusion of methionine-S-35
into proteins of guinea pig organs in experimental tuberculosis.
Gruzlica 32 no.1:23-30 Ja'64

1. Z Oddzialu I (Kierownik: doc. dr. P.Krakowka) i z Pracowni
Izotopowej (Kierownik: doc.dr. W.Tysarowski) Instytutu Gruzlicy.

*

TYSAROWSKI, Wieslaw; KWIEK, Stanislaw; MIGDALSKA, Barbara

The behavior of heomproteins in the presence of acid resistant bacteria. I. Reduction of methemoglobin in clutures of Tubercle bacilli. Gruzlica 23 no.1:13-20 Jan '55.

1. Z Zakladu Biochemii. Kierownik: prof.dr G. Bagdasarian i Zakladu Mikrobiologii Kierownik: doc.dr M. Buraszewska. Instytutu Gruzlicy, Dyrektor: prof.dr J. Misiewicz. Warszawa, Plocka 26.

(MYCOBACTERIUM TUBERCULOSIS, culture
methamoglobin reduction to hemoglobin)

(HEMOGLOBIN

methemoglobin reduction in M. tuberc.culture

TYSABOWSKI, W.

Polarographic determination of oxyhemoglobin. *Med. dosw.*
mikrob., Warsz. 3 no.2:121-140 1951. (CINL 21:1)

1. of the Department of Biochemistry of the Institute of
Tuberculosis, and of the Institute of Physiological
Chemistry of Warsaw Medical Academy.

TYSAROWSKI, W.; KWIEK, S.

Role of iron in the metabolism of tubercle bacilli. Polski tygod.
lek. 10 no.10:317-318 7 Mar 55.

1. Instytut Gruźlicy Warszawa, ul. Płocka 26.
(MYCOBACTERIUM TUBERCULOSIS, metabolism,
iron, role)
(IRON, metabolism,
in M. tuberc.)

TYSAROWSKI, Wieslaw; MASZCZYK, Zinajda

Oxygen consumption by liver slices of guinea pigs in the presence of isonicotinic acid hydrazid. Gruslica, 23 no.6:377-380 June '55.

i. Z Zakladu Biochemii Instytutu Gruslicy. Kierownik: prof. dr. G. Bagadasarian. Dyrektor: prof. dr J. Misiewicz. W-wa. Ploca 26.

(NICOTINIC ACID ISOMERS, effects

isoniazid on oxygen consumption by liver slices in guinea pigs)

(METABOLISM

oxygen consumption by liver slices, eff. of isoniazid in guinea pigs)

(LIVER, metabolism

oxygen consumption, eff. of isoniazid in guinea pigs)

TYSAROWSKI, W.

Appearance and metabolism of principal neurchormones in the light
of general amino acid metabolism. . Acta physiol. polon. 10 no.3:
439-458 May-June 59.

1. Z Zakladu Izotopowego Instytutu Gruźlicy Dyrektor: prof. dr
T. Kielniowski.

(AMINO ACIDS, metab.) (NERVOUS SYSTEM, physiol.)
(HORMONES, metab.)

TYSAROWSKI, WIESLAW

TYSAROWSKI, Wieslaw

Effect of a complex of iron with ethylenediaminetetra-acetic acid on respiration of *Mycobacterium phlei*. Acta physiol. polon 5 no.4:597-598 1954.

1. Z Zakladu Chemii Fizjologicznej Akademii Medycznej w Warszawie.
Kierownik: prof. dr J.Heller,

(ACETIC ACID, derivatives,
ethylenediaminetetra-acetic acid complex with iron, eff.
on *Mycobact. phlei*)

(MYCOBACTERIUM,
phlei, eff. of ethylenediaminetetra-acetic acid complex
with iron on resp.)

(IRON, effects,
on *Mycobact. phlei* resp., with ethylenediaminetetra-
acetic acid)

TY SAROWSKI, Wieslaw; KWIMK, Stanislaw

Respiration of Mycobacterium tuberculosis. Gruzlica 22 no.3:
213-224 Mr '54.

1. Z Zakladu Biochemii i Zakladu Mikrobiologii Instytutu Gruzlicy.
Dyr.: prof. dr J.Misiewicz.
(MYCOBACTERIUM TUBERCULOSIS, metabolism,
*resp.

ca

113

Polarographic determination of oxygen in oxyhemoglobin
Wiesław Tyżkowski (Univ., Warsaw, Poland). *Roczniki Chem.* 25, 254 (1951). - The O₂ is removed from oxyhemoglobin (I) by K₂ ferricyanide (II). With a silver electrode and 0.1 N KCl as the electrolyte the polarographic curves of I contg. soln. are detd. by starting at -0.100 v. The difference between the values of a soln. contg. II and free of

II is a measure of the O₂ content of I. The effect of II is immediate and lasts 30 min. The liberated O₂ dissolves in KCl and can be removed with Na₂SO₃, ascorbic acid, or N₂ gas. Human, horse, and beef blood, washed horse red cells and cryst. oxyhemoglobin were tested. I. Z. Roberts

1952

TYSE, P.P.

Metallurgical Abst.
June 1954
Electrometallurgy and Electrochemistry

*Electrolysis of Salts of Copper and Bismuth. M. T. Kozlovsky and P. P. Tsyb (*Zhur. Priklad. Khim.*, 1950, 23, (11), 1203-1222).—(In Russian). K. and Ta. have investigated the dependence of the potential of a Hg cathode in the electrolysis of soln. of salts of Cu and Bi, on the concentration of the metal in the amalgam, at various c.d. and temp.; the dependence of the potential of the anode in the electrolytic decomn. of the resulting amalgam was also studied. The effect of the electrolyte compn. and the rate of agitation were examined only in the case of Cu. Cu and Bi can be quant. recovered from their amalgams by anodic oxidation. Explanations for the observed results are suggested, including changes in the viscosity of the amalgam, and the related changes in the true surface of stirred amalgams.

—G. V. E. T.

11-11-64

L 38207-66 EWT(m)

ACC NR: AP6022034

SOURCE CODE: UR/0120/66/000/003/0209/0210

AUTHOR: Zhetbayev, A. K.; Kaipov, D. K.; Smirin, L. N.; Tyshchenko, A. P.

ORG: Institute of Nuclear Physics, AN KazSSR, Alma-Ata (Institut yadernoy fiziki AN KazSSR)

TITLE: Cell for electrodeposition of radioactive isotopes

SOURCE: Pribory i tekhnika eksperimenta, no. 3, 1966, 209-210

TOPIC TAGS: electrodeposition, isotopes, radioactive isotope

ABSTRACT: A better design of an electrolytic cell (as compared to those described by A. Mastachi, Nucl. Instr. and Meth., 1964, v. 26, no. 2, 219 and I. S. Stephen, ibid., p. 269) is suggested. U-tube 1 (see Fig. 1) houses Pt anode 2 and terminates with stainless-steel cathode 3; solenoid 4 produces a pulsating magnetic field for stirring the electrolyte. The radioactive isotope is deposited on substrate 5. The cell was used for preparing Mossbauer Co⁵⁷ sources; electrolyte composition and other data are reported. Fig. 1. Electrodeposition cell

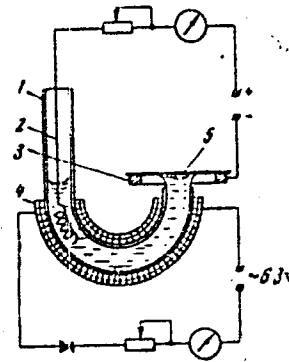


Fig. 1. Electrodeposition cell [03]

SUB CODE: 23, 09 / SUBM DATE: 20Apr65 / OTH REF: 003/ ATD PRESS: 5044

Card 1/1 ell

UDC: 621.039.554

TYSCHENKO, E., prepodavatel' istorii Kommunisticheskoy partii Sovetskogo
Soyuza

How we conduct political science classes. Prof.-tekh. obr. 19
no.9:21 S '62. (MIRA 15:10)

1. Tekhnicheskoye uchilishche No. 3, Novosibirsk.

(Political science—Study and teaching)

TYSHCHENKO, V. P.

Development of the system of giant nerve fibers in the metamorphosis of Lepidoptera. Ent. oboz. 41 no.4:796-815 '62.
(MIRA 16:1)

1. Kafedra entomologii Leningradskogo gosudarstvennogo universiteta, Leningrad.

(Lepidoptera) (Nervous system—Insects)

TYSEROVA, M.

SCHREIBER, V.; TYSEROVA, M.

Effect of light on the sex activity of frogs. Biol.listy 30 no.4:
255-258 15 Mr '49. (CMLL 19:2)

1. Of the Department for General Physiology (Head -- Prof. F.Karasek, M.D.) of the Physiological Institute of Medical Faculty, Charles University (Head -- Prof. V.Laufberger, M.D.), of the Third Internal Clinic (Head -- Prof. J.Charvat, M.D.) and of Central Endocrinological Institute (Head -- Docent K.Silink, M.D.)

TYSEYTLIN, Yu.A., kand.tekhn.nauk

Some problems in planning mine compressor stations. Izv. vys. ucheb.
zav.; gor. zhur. no.9:148-156 '59. (MIRA 14:6)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy
institut imeni Artema. Rekomendovana kafedroy gornoy mekhaniki.
(Compressors)

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AUTHORS: Goryshin, N. I.; Tyshchenko, G. F.

ORG: none

TITLE: The significance of the correlation and absolute duration of day and night for photoperiodic reactivity of insects

SOURCE: AN SSSR. Doklady, v. 171, no. 3, 1966, 754-757

TOPIC TAGS: animal physiology, light biologic effect, insect, *ENTOMOLOGY*

ABSTRACT: Experiments were performed to study the photoperiodic effectiveness of various light-dark cycles and the variation in the critical photoperiod. Two types of *Acronycta rumicis* L. were studied for photoperiodic reactivity to light-dark cycles from 14 to 35 hours at 20°. The critical dark period (with 50% of the insects in diapause) for the Belgorod and Sukhumi types were 7 hours and 8 hours 25 minutes, respectively, \pm 20 minutes, while 16 hours was the minimum cycle duration at which reactivity results from the interaction of light and dark of definite duration rather than from a correlation between light and dark. Test data deny the existence of a special adaptability of the photoperiodic reactivity mechanism to cicadian rhythms and support the theory of C. Pittendrigh, S. D. Beck, and V. P. Tyshchenko on the mechanism of photoperiodic regulation. This paper was presented by Academician B. Ye. Bykhovskiy on 11 April 1966. Orig. art. has: 3 graphs.

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8 no.6:7-9 Je '58. (MIRA 11:6)

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TYSNCHENKO, V.P.

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TYSUCHENKO, V.P.

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