L 10214-63
ACCESSION NR: AP3000051

2

sup 3+ in a crystalline surrounding, and its dependence on the direction of propagation and the polarization is determined. It is shown that the most convenient objects for experimental verification of the effect are hydrated copper salts with trigonal symmetry. The effect of temperature and external magnetic field is determined. The possibility of detecting the effect in liquids is considered. The strong absorption of ultrasound by crystals of copper salts, together with its anisotropy, also makes it possible to propose an ultrasonic-vibration analyzer which is the analog of the Nicol prism for light waves. Orig. art. has: 12 formulas and 1 table.

ASSOCIATION: Akademiya nauk moldavskoy SSSR (Academy of sciences, Moldavian SSR)

SUBMITTED: 09Nov62 DATE ACQ: 12Jun63 ENCL: 00

SUB CODE: PH NR REF SOV: 006 OTHER: 001

Card 2/2

ABLOV, A.V., akademik; BERSUKER, I.B.; GOL'DANSKIY, V.I.

Interpretation of the resonance absorption of γ-quanta by some complex iron compounds with allowance for the covalence of bonds and induction effects. Dokl. AN SSSR 152 no.6: 1391-1394 O '63. (MIRA 16:11)

1. Institut khimii AN Moldavskoy SSR i Institut khimicheskoy fiziki AN SSSR. 2. Chlen-korrespondent AN SSSR (for Gol'danskiy).

ABLOV, A. V.; BERSUKER, I. B.; GOL'DANSKIY, V. I.

"Mossbauer spectra of iron complexes with thiosemicarbazone of diacetyloxime and their interpretation."

report presented at 8th Intl Conf, Coordination Chemistry, Vienna, 7-11 Sep 64.

BERSUKER, I. B.,

"Internal assymetry and hindered motion in complex compounds".

report submitted for the Symposium on the Structure and Properties of Coordination Compounds - Bratislava, Czechoslovakia, 2-4 Sep 64

ACCESSION NR: AP4013501

S/0181/64/006/002/0436/0439

AUTHOR: Bersuker, I. B.

TITLE: The "inversion" absorption of sound by single crystals of hydrated copper salts in a magnetic field

SOURCE: Fizika tverdogo tela, v. 6, no. 2, 1964, 436-439

TOPIC TAGS: inversion absorption, hydrated copper salt, magnetic field, spin inversion level, resonance absorption, electron paramagnetic resonance, inversion splitting

ABSTRACT: The author has examined possible resonance absorption of ultrasonic and hypersonic waves by hydrated copper salts of trigonal symmetry in connection with transitions between inversion levels of the system in a magnetic field. This study is a continuation of his previous work in this area (ZhETF, 43, 1315, 1962; 44, 1577, 1963). He obtains wave functions of spin-inversion levels of the octahedral complex of Cu^{2+} ions in a magnetic field, the frequency and probability of transitions between these levels when affected by acoustical disturbance, and the absorption coefficient of sound in the crystal. This latter does not depend

Card 1/2

ACCESSION NR: AP4013501

on the strength of the magnetic field or on the absorbing frequency, but is determined by the value of inversion splitting in a zero field and by differences in dependence on propagation direction and on wave polarization for different transitions. The author suggests two methods of detecting this effect of absorption: by direct measurement of the absorption coefficient and by partial saturation of the lines of electron paramagnetic resonance. It is shown that at the temperature of liquid helium, a crystal containing 10^{19} absorbing centers at a frequency of 10^9 cycles can absorb no more than 10-100 microwatts of power. Orig. art. has: 1 figure, 1 table, and 7 formulas.

ASSOCIATION: Akademiya nauk MSSR, Kishinev (Academy of Sciences Moldavian SSR)

SUBMITTED: 31Jul63 DATE ACQ: 03Mar64 ENCL: 00

SUB CODE: PH NO REF SOV: 004 OTHER: 000

Card 2/2

L 12642-65 EWT(1)/EWT(m)/EWP(j)/EEC(t)/EWP(t)/EWP(b) [illegible]

ACCESSION NR: AP4041925 [illegible]

[illegible]

TOPIC TAGS: hyperfine structure, electron [illegible]

ABSTRACT: The results of an earlier paper by one of the authors [illegible] ZNETF [illegible] 41 [illegible] and the inversion spin[illegible] [illegible] estimate several details of the [illegible] [illegible] the hyperfine structure [illegible]

Card 1/3

ACCESSION NR AP4044125

trum of Cu^{2+} complexes. The hyperfine interaction

with the results, because the direction of the external static magnetic field was chosen along one of the fourfold axes of the octahedron, for which the spectrum has the largest

instrument with

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205020019-2"

BERSUKER, I.B.

Hypothesis to explain the trans-effect. Zhur.neorg.khim. 9 no.1:36-41 Ja '64. (MIRA 17:2)

1. Institut khimii AN Moldavskoy SSR.

BERSUKER, I.B., kand.fiz.-matem.nauk (Kishinev)

Problems of quantum chemistry. Priroda 53 no.3:112-113 '64.
(MIRA 17:4)

BERSUKER I.B.; BUDNIKOV, S.S.; VEKHTER, B.G.; CHINIK, B.I.

Hyperfine structure in paramagnetic resonance spectra of copper compounds with inversion splitting. Fiz. tver. tela 6 no.9: 2583-2589 S '64. (MIRA 17:11)

1. Institut khimii AN Moldavskoy SSR, Kishinev.

BERSUKER, I.B.

Inner asymmetry and retarded motion in complex compounds. Teoret. i eksper. khim. 1 no.1:5-10 Ja-F '65. (MIRA 18:7)

1. Institut khimii AN Moldavskoy SSR, Kishinev.

L 5263-66 EWT(1) IJP(c)

ACC NR: AP5026410 SOURCE CODE: UR/0386/65/002/006/0286/0287

AUTHOR: Bersuker, I. B.; Kovarskiy, V. A.

ORG: Institute of Applied Physics, Academy of Sciences, MoldSSR (Institut prikladnoy fiziki Akademii nauk Moldavskoy SSR)

TITLE: On the possibility of an optical shift of the Mossbauer-spectrum lines

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 2, no. 6, 1965, 286-287

TOPIC TAGS: Mossbauer effect, nuclear resonance, resonance absorption, line shift, optic pumping

ABSTRACT: The authors propose to use the Mossbauer spectra (MS) of γ-resonance nuclear absorption to investigate the excited states of the electron shell and to determine certain kinetic parameters of the system by measuring the change induced by sufficiently strong light in the spectrum of a source or an absorber of γ quanta in the optical excitation band. This can be done if the lifetime of the optically-excited state is much longer than the lifetime of the excited state of the nucleus, and the concentration of the Mossbauer centers affected by the optical excitation is comparable with or larger than the concentration of the centers not excited by

Card 1/2

L 5263-66
ACC NR: AP5026410

9

the light. These conditions are realized in a very large number of real systems. Of particular interest for the determination of the parameters of laser systems are cases in which optical population inversion can be realized. The displacement of the MS lines in the optical shift is determined by the same formula as the chemical shift. Additional important information can be obtained from the dependence of the intensity ratio of the shifted and fundamental MS lines on the illumination power. This dependence and the kinetic equation yield, for example, the probability of nonradiative transition between the electronic states. The authors are grateful to V. I. Gol'danskiy, Yu. Ye. Perlin, and Ye. F. Makarov for valuable discussion. [02]

44,55 44,55 44,55

SUB CODE: NP, OP/ SUBM DATE: 24Jul65/ ORIG REF: 001/ ATD PRESS: 4138

PC

Card 2/2

Veksler, B. S.

TITLE: On the mechanism of spin-lattice relaxation in systems ---
splitting

ening, relaxation ---

ABSTRACT: This is a continuation of earlier papers (ZhETF v. 43, 1315, 1962, FTT
and others) in which a theory was developed for inversion split-

Card

L 52784-65

ACCESSION NR: AP5010740

NR REF SOV: 009 OTHER: 003

Card 2/2

IJP(c) GG

property, [illegible]

ABSTRACT: The authors consider [illegible] and thermal conductivity of crystals containing complexes of [illegible] (and v. G. 258[illegible]), inversion splitting, similar to those investigated by them [illegible] (and earlier papers). A transition-metal complex of the type M^{++}_n is considered [illegible] high symmetry, in which the inversion

Card 1/2

ACCESSION NR: AP5012703

BERSUKER, I.B.

Determination of molecular orbital parameters from nuclear γ-resonance absorption spectra. Teoret. i eksper. khim. 1 no. 5:675-678 S-O '65 (MIRA 19:1)

1. Institut khimii AN Moldavskoy SSR, Kishinev. Submitted June 30, 1965.

BERSUKER, I.B.; GOL'DANSKIY, V.I.; MAKAROV, Ye.F.

Distribution of an electron cloud in tin tetrahalides from the data of chemical shifts of Mössbauer spectra and nuclear quadrupole resonance spectra. Teoret. i eksper. khim. I no. 5:678-680 S-O '65 (MIRA 19:1)

1. Institut khimicheskoy fiziki AN SSSR, Moskva. Submitted June 30, 1965.

L 5334-66 EWT(1)/EWT(m) DIAAP/IJP(c)

ACCESSION NR: AP5021136 UR/0056/65/049/002/0699/0706

44,55 44,55 44,55

AUTHORS: Bersuker, I. B.; Gol'danskiy, V. I.; Makarov, Ye. F.

TITLE: Analysis of the variation of the Sn^{119} nuclear charge radius based on its Mossbauer spectra

19

21,44,55

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 2, 1965, 699-706

52

46

TOPIC TAGS: tin, tin compound, Mossbauer spectrum, crystal lattice structure

B

ABSTRACT: The authors present a more complete treatment of the distribution of the electron shells in compounds of tin, and its influence on the electron density at the nucleus. A general formula is derived for the dependence of the chemical shift on the parameters of the molecular orbitals in these compounds. From estimates of these parameters for the tetrahalogenides of tin it is concluded that the percentage change in the charge radius ($\Delta R/R$) of the excited nucleus is negative, in contrast with the previously obtained data by

Card 1/2

0901 1144

L 5334-66

ACCESSION NR: AP5021136

6

others. This confirms a suggestion previously made by two of the authors (Goldanskiy and Makarov, Phys. Letters v. 14, 111, 1965). The estimated upper limit of $\Delta R/R$, is 1.6×10^{-4}. A more detailed analysis of the formula for the chemical shift will be necessary in the case of tin compounds with more complex structures than tetrahedral. Orig. art. has: 1 figure and 24 formulas.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics, Academy of Sciences, SSSR); Institut khimii Akademii na k Moldavskoy SSR (Institute of Chemistry, Academy of Sciences, Moldavian SSR)

SUBMITTED: 24Mar65 ENCL: 00 SUB CODE: SS

NR REF SOV: 005 OTHER: 010

Card 2/2

L 33153-66 EWT(m)/EWP(j)/EWP(t)/ETI IJP(c) JD/RM

ACC NR: AM6016179 SOURCE CODE: UR/0058/65/000/011/D014/D014

53
B

AUTHOR: Bakhshiyan, L. B.; Vekhter, V. G.

TITLE: Microwave "inversion" spectrum of complexes of transition metals 27

SOURCE: Ref. zh. Fizika, Abs. 11D101

REF SOURCE: Tr. Komis. po spektroskopii. AN SSSR, t. 3, vyp. 1, 1964, 520-528

TOPIC TAGS: complex molecule, transition element, microwave spectroscopy, molecular physics, METAL

ABSTRACT: The possible microwave spectrum of certain octahedral (type MA_6) and tetrahedral (type MA_4) complexes of transition metals, due to the transition between the inversion levels investigated earlier, is considered. For octahedral aqueous complexes of Ti^{3+}, Cu^{2+}, Fe^{2+}, and Mn^{3+} and tetrahedral VCl_4 the authors have calculated the number of lines of magnetic dipole transitions, their relative intensity, and their approximate position, which depends on the temperature in the presence of a crystalline environment. Estimates are made of the widths of the levels and it is shown that at low temperatures the latter are quite narrow. Conditions are indicated under which, as is assumed, observation of the effect is possible. [Translation of abstract]

SUB CODE: 20

LS

Card 1/1

BERSUKER, I.B.

Impossibility of a new type of isomerism based on the internal fonfiguration asymmetry of complex compounds. Zhur. fiz. khim. 35 no.2:471-472 F '61. (MIRA 16:7)

1. Moldavskiy filial AN SSSR, Institut khimii.
(Complex compounds) (Isomerism)

BERSUKOV G.P.

KHELIMSKIY, M.A., prof.; NEFEDOV, V.I., dots.; BERSUKOV, G.P., assistent

Fat embolism in intraosseal fixation of bone fractures. Khirurgiia 33 no.10:143-147 O '57. (MIRA 11:2)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. M.A. Khelimskiy) Khabarovskogo meditsinskogo instituta (dir. - dotsent S.K.Nechepayev)

(FRACTURES, surg.
intraossal fixation, compl., fat embolism (Rus))
(EMBOLISM
fat, incidence in intraossal fixation of bone fract. (Rus))

BERTA, F.

"Some data on the planting of the "noble" poplar in the forestry of Pusztavacs." p. 144.

AZ ERDO. (Orszagos Erdeszeti Egyesulet). Budapest, Hungary, Vol. 11, No. 6, June 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959.
Uncla.

CZECHOSLOVAKIA

STEINHÜBEL, Gejza and BERTA, Frantisek; Mlynany Arboretum of the Slovak Academy of Sciences, Czechoslovak Academy of Sciences, Mlynany.

"Annual Changes in Production of Assimilates in Evergreens."

Bratislava, Biologia, Vol 18, No 7, 1963; pp 498-503.

Abstract [German article]: Authors analyzed sugar and starch content of Ilex aquifolium L and Laurocerasus officinalis L. at weekly intervals throughout the year, correlating results with sunshine and temperature fluctuations. The highest total sugar content occurs in winter, with peak in February; higher in Laurocerasus than in Ilex. One graph; 1 Czech, 1 Soviet and 12 German references.

1/1

SIMACIK, Frantisek, inz.; BERTA, Frantisek, promovany chemik

Effect of water soaking of Scotch pine (Pinus silvestris L.) seed. Les cas 10 no.8:733-744 Ag'64

1. Slovak Academy of Sciences, Arboretum, Mlynany.

L 37049-66

ACC NR: AP6027020 SOURCE CODE: CZ/0049/65/000/008/0600/0609

AUTHOR: Chira, Eugen (Engineer; Candidate of sciences; Slepcany); Berta, Frantisek (Graduate chemist; Slepcany)

ORG: Mlynany Arboretum, SAV (Arboretum Mlynany SAV)

TITLE: One of the reasons for the impossibility of hybridization of the genus Pinus

SOURCE: Biologia, no. 8, 1965, 600-609

TOPIC TAGS: carbohydrate, plant chemistry, plant reproduction

ABSTRACT: The sugar and starch content of pollen changes from year to year. The total sugar content of the pollen of individual pines varied between 6.60 and 16.34%. The following sugars were found: Rhamnose, maltose, saccharose, galactose, glucose, sorbose, fructose and Xy (X= an unknown sugar). In the nucellus of the pine the following sugars were identified: maltose, saccharose, glucose, sorbose, fructose, Xy, galactose, ribose, rhamnose, and X (X = 5 different unknown sugars). Systematically related kinds of pines have similar sugar content . Germination tests showed that some of the sugars at a concentration of 0.01% or above inhibit or stimulate the germination process of the pollen. This is considered to inhibit hybridization of pines. Ori . art. has: 3 figures and 3 tables. [JPRS]

SUB CODE: 06 / SUBM DATE: 15Feb65 / OFIG REF: 006 / OTH REF: 006 / ATD REF: 001

Card 1/1 LS

HUNGARY

BERTA, Gyula; GACS, Gyula; TIGYI, Andras; Institute of Physiology of the Medical University (Orvostudomanyi Egyetem Elettani Intezete), Pecs.

"Determination of Serum Insulin Concentration by Means of Rat Epididymal Fat Tissue."

Budapest, Kiserletes Orvostudomany, Vol 14, No 5, Oct 62, pp 545-548.

Abstract: [Authors' Hungarian summary] The rat epididymal fat tissue test for the quantitative determination of insulin was investigated. It was found that the normal insulin value of fasting humans is 0.10-0.30 microunits per ml, while in dogs it is 0.05-0.15 microunits per ml. The rates of glucose metabolism were also investigated and it was found that maximal glucose uptake is reached in the first hour. [16 references, predominantly Western.]

1/1

BODNAR, I.; SZIRMAI, E.:; NEMETI, S.; BERTA, I.; SZUCS, G.; ARVAY, S.

Evaluation of our analgesic procedures in labor pain. Magy noorv. lap. 15 no. 11:324-327 Nov 1952. (CIML 23:5)

1. Doctors. 2. Obstetric and Gynecological Clinic (Director -- Prof. Dr. Sandor Arvay), Debrecen Medical University.

BERTA, Imre, okleveles kozgazdasz

Certain questions relating to the technical preparation and transaction of mining investments. Bany lap 97 no. 2:110-114 F '64.

1. Nehezipari Miniszterium Banyaszati Muszaki Foosztalya.

L 64101-65

SOURCE: Meyer radiologiya, no. 5, 1964, 285-288

Card 2/2

L 64086-65 EWT(m)/EWA(h)

Title: Solid substance dosimeters

Szilvezetenek (Kossuth Lajos University of Debrecen, Institute of Applied Physics);

Card 1/2

BERTA, I. Dr.

RUZICSKA, Gyula, Dr.; BERTA, Istvan, Dr.

Considerations in preoperative roentgen therapy of collum carcinoma. Orv. hetil. 98 no.40:1097-1100 6 Oct 57.

1. Debreceni Orvostudomanyi Egyetem Szuleszeti es Nogyogyaszati Klinikajanak (igazgato: Arvay Sandor dr. egyet tanar) koslemenye.
(CERVIX NEOPLASMS, ther.
radiother., preop., technics (Hun))
(RADIOTHERAPY, in various dis.
cancer of cervix, preop. ther., technics (Hun))

BERTA, Istvan, dr.; FELSZERFALVI, Janos

On the problem of radiation protection in short distance curiethe in gynecology. Magy.noorv.lap. 21 no.1:20-23 Ja '60.

1. A Debreceni Orvostudomanyi Egyetem Szuleszeti es Nogyogyaszati klinikajanak (igazgato: Arvay Sandor dr. egyetemi tanar) es a Kossuth Lajos Tudomanyegyetem Alkalmazott Fizikai Intezetenek (igazgato: Orban Gyorgy dr. egyetemi tanar) kozlemenye.
(RADIUM ther)
(GYNECOLOGY radiother)
(RADIATION PROTECTION)

BERTA, I.; FELSERFALVI, Ya. [Felserfalvi, J.]

Radiation protection in curietherapy of diseases of the female genitalia. Med.rad. no.10:38-39 '61. (MIRA 14:10)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. Sh. Arvai) Debretsenskogo meditsinskogo instituta i Instituta prikladnoy fiziki (zav. - prof. G. Orban) Debretsenskogo universiteta imeni Koshuta (Vengriya).
(RADIUM--THERAPEUTIC USE) (GENERATIVE ORGANS, FEMALE--RADIOGRAPHY) (RADIATION PROTECTION)

ORBAN, Gyorgy, dr.; PATKO, Jozsef; BERTA, Istvan, dr.

The x-ray photochemical method for gradual dosimetry. Magy. radiol. 14 no.3:162-168 Je '62.

1. A Debreceni Kossuth Lajos Tudomanyegyetem Alkalmazott Fizikai Intezetenek (igazgato: Orban Gyorgy dr. egyetemi tanar) es a Debreceni Orvostudomanyi Egyetem Szuleszeti es Nogyogyaszati klinikajanak (igazgato: Arvay Sandor dr. egyetemi tanar) kozlemenye.

(RADIOMETRY)

SURANYI, Sandor, dr.; BERTA, Istvan, dr.

On the newer results of x-ray examinations in female genital tuberculosis. Magy noorv. lap. 25 no.1:20-25 Ja '62.

1. A Debreceni Orvostudomanyi Egyetem Szuleszeti es Nogyogyaszati Klinikajanak [redacted] (Igazgato: Arvay Sandor dr. egyetemi tanar)

(UTERUS dis)
(TUBERCULOSIS, FEMALE GENITAL radiography)
(HYSTEROSALPINGOGRAPHY)

ORBAN, Gyorgy, dr.; PATKO, Jozsef; BERTA, Istvan, dr.

The x-ray photochemical method for gradual dosimetry. Magy. radiol. 14 no.3:162-168 Je '62.

1. A Debreceni Kossuth Lajos Tudomanyegyetem Alkalmazott Fizikai Intezetenek (igazgato: Orban Gyorgy dr. egyetemi tanar) es a Debreceni Orvostudomanyi Egyetem Szuleszeti es Nogyogyaszati klinikajanak (igazgato: Arvay Sandor dr. egyetemi tanar) kozlemenye.

(RADIOMETRY)

BERTA, Jan

The moorland in the valley of Monok Creek near Kosice. Biologia 15 no.2:3-16 '60. (BEAI 9:5)

1. Biologicky ustav Slovenskej akademie vied, Oddelenie geobotaniky a systematiky rastlin, Bratislava.
(SLOVAKIA--MOORS AND HEATHS)

BERTA, Jan, prom.biol.

Contribution to the ecology and distribution of Aldrovanda vesiculosa L. Biologia 16 no.8:561-573 '61.

1. Biologicky ustav Slovenskej akademie vied, Oddelenie geobotaniky a systematiky rastlin, Bratislava, Sienkiewiczova 1.

(FRESH-WATER FLORA)

BERTA, K.; FEKETE, T.

Giants of electrotechnique; past and future of electrotechnique, the Five-Year Plan of the Soviet Union. p. 206.

Vol. 115, no. 4, Apr. 1956
TERMESZET ES TARSADALOM
Budapest, Hungary

Source: East European Accession List. Library of Congress
Vol. 5, No. 8, August 1956

BERTA, Istvan

Labor safety and the railways. Munka 15 no.1:12-13 Ja '65.

1. Chief Inspector of Labor Safety of the Trade Union of Railroad Workers, Budapest.

HUNGARY

KELEMEN, Janos, Dr, JONA, Gabor, Dr, BERTA, Istvan, Dr; Medical University of Debrecen, Radiological Clinic (deputy director: JONA, Gabor, Dr) (Debreceni Orvostudomanyi Egyetem, Rontgenklinika).

"Experiences Related to the Risks and Side Effects Involved in the Intralymphatic Injection of Superfluid Iodine-Oil Contrast, on the Basis of 86 Cases."

Budapest, Orvosi Hetilap, Vol 107, No 46, 13 Nov 66, pages 2166-2171.

Abstract: [Authors' Hungarian summary] On the basis of 86 observed cases, the complications and side effects which may arise from oil-contrast lymphography are discussed. The technique of finding the lymphatic vessels is accompanied by a transient discoloration of the patients' skin (86 cases). Local inflammation (1 case), suppuration, pain in the extremity (24 cases), lymphatic vessel rupture (1 case) can be avoided by using correct technique. Injection of the contrast into the vein by error did not occur among the cases reported. The possibility exists that tumor cells will be spread further by the method. In one patient, metastasis in the Virchow's lymph node was observed following lymphography although a causal relationship could not be proven. Fever, chills were encountered in 5 cases, X-ray findings indicative of oil-microembolism in 6 cases, X-rays indicative of bronchopneumonia which corrected itself without treatment in 2 cases. The problems of prevention of lymphographic complications and those of the indications for such examination

BERTA L. L'influence des preparations antianemiques du foie sur la production des anticorps Effect of the liver extracts on antibody formation Paediatria Danubiana, Budapest (Hungary) 1947, 2/2-3 (106-113) Tables 2

SO: Medical Microbiology and Hygiene, Section IV, Vol. I, #1-6

BERTA, L. 1948

"Ring-Like Inhibition in Bacterium Strains Caused by Disinfectants."

Orvosok Lapja, Budapest, 1948, 89(72)
Abst: Exc. Med. IV. Vol. 11, No. 9, p. 900

C. a. BARTA L.
1951

Immunology

The effect of ultrasonic waves on influenza virus. László Barta, Brandbet Molnár, and Károly Garay (Univ. Budapest, Hung.). *Kísérletes Orvostudomány* 2, 357-60(1950).—Expts. proved that a treatment with ultrasonic waves with a frequency of 275,000 cycles/sec. for 100 min. increased the hemagglutinating power of PR8 influenza A virus. The virus itself was not affected by this treatment, and its infective power and antigen properties remained intact.
I. F.

PORSZASZ,J.; SUCH,Gy.; MADARASZ,I.; BERTA,M.; GIBISZER-PORSZASZ,Katalin.

Possibility of summation in the vasomotor and respiratory centre, electrophysiological investigations on the vagal nerve in the cat. Acta physiol. hung. 17 no.1:23-34 '60.

1. Institute of Physiology, Medical University, Szeged.
(VAGUS NERVE physiol.)
(VASOMOTOR SYSTEM physiol.)
(RESPIRATION physiol.)

Bertalan, Gy.; Csuros, Z.;Grossmann, M.

Rheologic investigations of macromolecular substances. V. Determination of the secondary transformation point by means of the Hoppler consistometer. In German. p.113

PERIODICA POLYTECHNICA. CHEMICAL ENGINEERING. (Budapesti Muszaki Egyetem) Budapest, Hungary. Vol.3, no.2, 1959

Monthly List of East European Accessions. (EEAI) LC, Vol.8, no.11 November 1959
Uncl.

BERTALAN, Gy

Distr: 4E2c(j)

Rheological investigations of macromolecular substances. VI. The distribution of internal strains in hard PVC-blocks. Z. Csuros, M. Gara, and Gy. Bertalan (Tech. Univ., Budapest, Hung.). *Periodica Polytech.* 3, 255-65 (1959); cf. *CA* 54, 6258a, 12049f.—Internal strains in poly(vinyl chloride) (I) were inversely proportional to the 2nd-order transition temps. The distribution of strains in blocks of I, made by pressing calendered sheets, was detd. by taking samples from different parts of the blocks.

C. M. Langkammerer

CAK

dependence of the interac

viscosity by using an Bunia viscosimeter

Goldstein (CA 45, 2257a) and Csuros, et al.

Tudomanyos Akad. Kem. Tudomanyok

tables give outstanding

CSUROS, Zoltan, prof.,dr. (Budapest); GARA, Miklos (Budapest); Bertalan, Gyorgy (Budapest)

Rheologic investigations of macromolecular substances. VI. Investigations of the distribution of the inner tensions on hard PVC blocks. Periodica polytechn chem 3 no.4:255-265 '59. (EEAI 9:6)

1. Institut fur Organisch-Chemische Technologie der Technischen Universitat, Budapest.
(Macromolecular compounds)
(Chloroethylene)
(Polymers and polymerization)

CSUROS, Zoltan, akademikus (Budapest); GARA, Miklos, a kemiai tudomanyok kandidatusa (Budapest); BERTALAN, Gyorgy (Budapest); JUHASZ, Kalman (Budapest)

Rheologic investigation of macromolecular substances. VI. Investigation of the distribution of the inner pressure in a block of hard PVC. Kem tud kozl MTA 13 no.2:129-138 '60. (EEAI 9:8)

1. Muszaki Egyetem, Szerves Kemiai Technologiai Intezet, Budapest.
(Macromolecular compounds)
(Chloroethylene)
(Polymers and polymerization)

CSUROS, Zoltan, prof. (Budapest); GARA, M. (Budapest); BERTALAN, Gy. (Budapest)

Rheologic investigations of macromolecular substances. VII. Effect of temperature on PVC liquid systems. Periodica polytechn chem 4 no.1: 9-32 '60. (EEAI 9:12)

1. Institut fur Organisch-Chemische Technologie der Technischen Universitat, Budapest.
(Rheology) (Liquids) (Systems (Chemistry))
(Macromolecular compounds)
(Chloroethylene)
(Polymers and polymerization)

CSUROS, Zoltan; GARA, Miklos; BERTALAN, Gyorgy

Rheological examination of macromolecular substances. V. Determination of a second-degree transformation point by the Hoppler's consistometer. Magy kem folyoir 66 no.5:174-178 My '60.

1. Budapesti Muszaki Egyetem Szerves Kemiai Technologiai Tanszeke.

CSUROS, Zoltan, r.tag (Budapest); GARA, Miklos, a kemiai tudomanyok kandidatusa(Budapest); BERTALAN, Gyorgy(Budapest)

Effect of temperature on PVC-liquid systems. Kem tud kozl MTA 15 no.2:135-156 '61.

1. Muszaki Egyetem, Szerves Kemiai Technologiai Tanszek, Budapest.

(Temperature) (Chloroethylene)
(Polymers and polymerization) (Liquids)
(Systems(Chemistry))

BERTALAN, Istvan

Far away from the earth. Repules 14 no.10:17 O '61.

BERTALAN, Istvan

Far away from the earth. (To be contd). Repules 14 no.8: 17 Ag '61.

BERTALAN, Istvan

Far away from the earth. (To be contd.) Repules 14 no.1:17 S '61.

BERTALAN, Istvan

Eight-hundred jumps. Repules 16 no.2:8 F '63.

BERTALAN, Istvan

Short interview with a fighter plane pilot. Repules 16 no.8:5 Ag '63.

BERTALAN, Janos

Concentration and economic achievements of the bakery industry.
Stat szemle 40 no.7:699-708 Jl '62.

1. Fovarosi Tanacs Tervosztalyanak foeloadoja.

BURAY, Z., dr.; BERTALAN, K., inz.

Testing the hardness, the tendency of welds to cracking, and the hardness of the medium-hard aluminum-magnesium-zinc alloys. Zavarivanje 6 no.6:122-131 Je '63.

BERTALAN, K.

BERTALAN, K. Additional information on the caves in Bakony. p.55.

Vol. 4, no. 1, 1955
FOLDRAJZI ERTESITO
GEOGRAPHY & GEOLOGY
Budapest, Hungary

So: East Europeon AAccessions, Vol. 5, no. 5, May 1956

BERTALAN, Koloman, inz.

Computing the heat in the generating convective air recuperators of cupolas. Ljevarstvo 11 no.4:80-86 '62.

BERTALAN, Koloman, inz. [translator]

Construction of machine parts with regard to welding. Zavarivanje 6 no.9:202-206 S '63.

BERTALAN, P

Industrial high-frequency heating. P. 105 RADIOCHNIKA Budapest Vol. 6, no. 5, May 1956

SOURCE: East European Accessions List (EEAL) Library of Congress Vol. 5, no. 8, August 1956

HUNGARY

DOBIAS, Gyorgy, KIRALY, Laszlo, BERTALAN, Terez; Fourth District Council City Hospital (IV. Keruleti Tanacs Varosi Korhaza), Heim Pal Children's Hospital (Heim Pal Gyermekkorhaz) and Arpad Hospital (Arpad Korhaz), Budapest.

"The Evaluation of the Thrombocytopenia Reaction in Experimental Animals."

Budapest, Kiserletes Orvostudomany, Vol XV, No 4, Aug 1963, pages 410-416.

Abstract: [Authors' Hungarian summary] The conditions for bringing about the thrombocytopenia test, as described by Storck-Hoigné, have been investigated by the authors on rabbits, guinea pigs and rats. The results provide orientation as to the sensitivity and specificity of the reaction among various species of animals. The results indicate that this reaction is more suitable for following the development of hypersensitivity in experimental animals than previously used methods. 20 Western, 4 Eastern European references.

1/1

CERVENKA, J.; BERTAN, J.; SUTORISOVA-STOLZOVA, M.

A small epidemic of typhus developing from a case of Brill-Zinsser's disease in a louse-infested environment. Cesk.epidem. mikrob.imun. 9 no.3:148-155 Ap '60.

1. Hygienicko-epidemiologicky odbor poverenictva zdravotnictva v Bratislave. Krajska hygienicko-epidemiologicka stanica v Banskej Bystrici. Krajska hygienicko-epidemiologicka stanica v Bratislave.
(TYPHUS epidemiol.)

BERTAPELE, D.

SURNAME (in caps); Given Names

(2)

Country: Yugoslavia

Academic Degrees: [not given]

Affiliation: Veterinary Station (Veterinarska stanica), Imotski

Source: Belgrade, Veterinarski glasnik, No 6, 1961, pp 529-531.

Data: "Field Ruminotomy in Nontraumatic Indigestion Just Before Calving."

Authors:

BESTAL, V.
BERTAPELE, D.

BERTAPELLE, Andro, ing.

The Ljubija Mines; problems of production processes and prospects. Rud met zbor no.2:217-238 '61.

1. Rudnik zeljezne rude Ljubija.

RAINIENE, A.; BERTASIUS, M.

Serial carotid angiography in neurosurgical practice.
Sveik. Apsaug. no.3:43-46 '64.

1. Lietuvos respublikines Kauno klinines ligonines rentgeno skyrius (skyriaus vedeja - R. Bandzaitiene) ir neurochirurgijos skyrius (skyriaus vedejas - B. Piktys). Vyr. gydytojas - doc. P. Jasinskas.

RAINIENE, A.; BERTASIUS, M.

Serial carotid angiography in neurosurgical practice. Sveik. apsaug. 9 no.3:43-46 Mr'64

1. Respublikanes Kaumo klinines ligonines rentgeno skyrius (skyriaus vedėja R. Bandzaitiene) ir neurochirurgijos skyrius (skyriaus vedejas - B. Piktys; vyr. gydytojas - doc. P. Jasinskas).

BERTAYMER, N.

"A study of the Intensity of Restoration of the Proteins of the Central Nervous System." Cand Biol Sci, Chair of Bio-chemistry, Kiev State U imeni T. G. Shevchenko Min Higher Education USSR, Kiev 1954. (KL, No 8, Feb 55)

SO: Sum. No. 631, 26 Aug 55 - Survey of Scientific and Technical Dissertation Defended at USSR Higher Educational Institutions. (14)

L 23027-65 EWT(1)/EPA(s)-2/EWT(m)/EPF(n)-2/EPR/T-2/EWP(t)/EPA(bb)-2/EWP(b)

Pc-4/Pf-4 [illegible]

[illegible]

[illegible]

[illegible]

Card 1/5

L 2-027-65

ACCESSION NR: AP4049568

Card 2/5

V

RUMANIA / Pharmacology, Toxicology, Narcotics.

Abs Jour : Ref Zhur - Biol., No 20, 1958, No 94120

Authors : Corneanu, Maria; Berteanu, Harry; Muller-Bartel, Rodica.

Inst : Not given

Title : The Study of Unspecific Pharmacodynamics of Medinal

Orig Pub : Fiziol. norm. si patol., 1956, 3, No. 2, 279-282.

Abstract : It was established in tests on dogs that medinal (I) in non-soporific doses has an unspecific effect, expressed in decreased acetylcholine reaction of the nervous centers, while in stranger doses medinal also possesses a specific somniferous effect. I does not change the secretion of adrenalin by the substantia medullaris of the

Card 1/2

RUMANIA / Pharmacology, Toxicology, Narcotics. V

Abs Jour : Ref Zhur - Biol., No 20, 1958, No 94120

suprarenals, caused by acetylcholine or potassium. I acts very weakly on the effectors. According to the data of the authors, I should be regarded as a soporific drug with a predominantly central effect. -- E. M. Sheynbaum.

Card 2/2

ZONENSHAYN, L.P.; BERTEL'S-USPENSKAYA, I.A.; SAFRONOV, V.S.; NEYMAN, V.B.; GENDLER, V.Ye.; CHURIKOV, V.S.; YEREMIN, N.I.; KOGAN, B.S.; YAKOVLEVA, M.N.; LANGE, O.K.; KABANOV, G.K.; KUZNETSOVA, K.I.; SINITSYNA, I.N.; SMIRNOVA, T.N.; VENKATACHALAPATI, V.; MASLAKOVA, N.I.; BELOUSOVA, Z.D.; YAKUBOVSKAYA, T.A.; YURINA, A.L.; RYBAKOVA, N.O.; MOROZOVA, V.G.; BARASH, M.S.; FONAREV, V.I.; NIKONOV, A.A.

Activity of the Geological Sections of the Moscow Naturalists' Society. Biul. MOIP. Otd. geol. 39 no.6:127-151 N-D '64. (MIRA 18:3)

BERTENEV, G.M.; GALIL-OGLY, F.A.

[redacted]

Dynamic fatigue and the mechanism fo the destruction of rubber in multiple deformations. Dokl. AN SSSR 100 no.3:477-480 Ja '55. (MIRA 8:3)

1. Predstavleno akademikom V.A.Karginym.
(Rubber)

L 13114-66 EWT(m)/EWP(t)/EWP(k)/EWA(b)/EWA(c) IJP(c) JD/HW/JG

ACC NR: AP6000853 SOURCE CODE: UR/0181/65/007/012/3558/3561

AUTHORS: Blokhin, S. M.; Vaynshteyn, E. Ye.; Bertenev, V. M.

ORG: Institute of Inorganic Chemistry AN SSSR SO, Novosibirsk (Institut neorganicheskoy khimii AN SSSR SO)

TITLE: X-ray spectral investigation of the valent state of samarium in the metal and in the monosulfide

SOURCE: Fizika tverdogo tela, v. 7, no. 12, 1965, 3558-3561

TOPIC TAGS: samarium, samarium compound, x ray absorption spectrum, rare earth element, conduction band

ABSTRACT: In connection with the peculiarities of the electronic structure of the samarium atom, the authors experimentally investigated the x-ray L_{III} absorption spectrum of this element in the metal and in the monosulfide. A thin metallic samarium layer approximately 10 μ thick was deposited on an aluminum foil in vacuum; this deposit was then sputtered with aluminum in vacuum. An absorber prepared in this manner was stable in air and had the proper surface density. The L_{III} absorption edge was obtained with a spectrometer (URS-1I) with a quartz

Card 1/2

L 13114-66

ACC NR: AP6000853

crystal bent in the (1340) plane at a radius of 1,000 mm. The results show that in both substances the rare-earth element atoms are present simultaneously in the divalent and in the trivalent states. In the monosulfide, the concentration of the trivalent ions increases with increasing temperature, and this increase is attributed, in accordance with various published data, to thermal excitation of the 4f electrons in the conduction band. Authors thank V. P. Zhuze and his co-workers for interest in the work and for supplying the samarium monosulfide. Orig. art. has: 3 figures.

SUB CODE: 20/ SUBM DATE: 10Jun65/ ORIG REF: 008/ OTH REF: 008

Card 2/2 HW

BERTENEV, G.M.

USSR/Atomic and Molecular Physics - Physics of High Molecular Substances, D-9

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34544

Author: Bertenev, G. M.

Institution: None

Title: On the Molecular Nature of Friction of Rubber

Original Periodical: Kolloid. zh., 1955, 17, No 6, 439-451

Abstract: None

1 of 1

BERTENYI, Anna

Experiences on the use of corneal lenses. Szemeszet 93 no.3: 130-133 Sept 56.

1. A Budapesti Orvostud. Egyetem II. Szemklin. (Igaz. Monay, Tibor egyetemi tanar, az orvostud. kandidatusa) kozl.
(EYEGLASSES
corneal contact lenses, indic. & evaluation (Hun))

BERTENYI, Anna, dr.; KAMOCSAY, Dezso, dr.; GREGUSS, Pal, dr., ifj.

Ultrasonic treatment of vitreal opacities. Orv. hetil. 103 no.40: 1887-1889 7 O '62.

1. Budapesti Orvostudomanyi Egyetem, II. Szemeszeti Klinika es I. Noi Klinika.

(ULTRASONIC THERAPY) (VITREOUS BODY)

BERTENYI, Anna

On the tolerance of contact and floating lenses in high altitudes. Szemeszet 99 no.2:21-22 Je '62.

1. A Budapesti Orvostudomanyi Egyetem II. sz Szemklinikajanak kozlemenye (Igazgato: Nonay Tibor egyetemi tanar, as orvostudomanyok kandidatusa).
(ALTITUDE) (CONTACT LENSES)

BERTENYI, E.

STROBOSCOPE.

p 7 (RADIOTECHNIKA) BUDAPEST, HUNGARY VOL. 7 NO 1 MAR 1957

SO: MONTHLY INDEX OF EAST EUROPEAN ACESSIONS (AEEI) VOL. 6 NO 11 NOVEMBER 1957

OERIU, S.; MOGA, V.; BERTESCU, L; BENSCH, H.; CRACEA, M.; TEODORESCU, O.

Research in obtaining products with tuberculostatic action. Note II: Correlations between the chemical and physiochemical properties, structure, and biological properties of some products obtained from coniferous resins. Studii cerc chim 7 no.4:531-548 '59. (EEAI 9:7)

1. Collectivul de chimioterapie al Academiei R.P.R., Bucuresti. 2. Membru correspondent al Academiei R.P.R. (for Oeriu)
(Gums and resins) (Coniferae) (Tuberculosis)
(Bactericidal action) (Therapeutics)

OERIU, S., acad.; MOGA, V.; BERTESCU, L.; BENESCH, H.; CRACEA, M.; TEODORESCU, O.

Obtainment of tuberculostatic products. Note II. Correlations between the chemical and physicochemical properties, the biological structure and properties of certain products obtained from the resins of Coniferae. Rev chimie 6 no.1:159-174 '61.

1. Collectif de chimiotherapie de l'Academie de la R.P.R., Bucarest.
2. Membre correspondant de l'academie de la R.P.R. (for Oeriu)

LUDANY, Gyorgy, dr.; VAJDA, Gyula, dr.; BERTHA, Ilona, dr.

Bradykinin and leukocytic phagocytosis. (Preliminary report). Orv. hetil. 105 no.43:2026-2027 O 25 '64.

1. Budapesti Orvostudomanyi Egyetem, II Sebeszeti Klinika, (igazgato: Mester Endre dr.) Physiologiai Laboratorium es budapesti MAV -korhaz, Laboratorium (foorvos: Goreczky Laszlo dr.).

ALBERT, Anna; BARTA, Gyorgy, dr., a muszaki tudomanyok doktora; BERTHA, Istvan; KURALI, Ferencne; SULOKY, Istvan

Secular variations of geomagnetic elements in Hungary. Geofiz kozl 11 no.1/4:4-27 '62.

1. Lorand Eotvos Hungarian State Institute of Geophysics.
2. Editorial board member, "Geofizikai Kozlemenyek" (for Barta).

BERTHA, R.

Bertha, R. Correct method for maintaining lamps. p.301.

Vol. 10, no. 9, Sept. 1955 ELEKTROTECHNIK Praha, Czechoslovakia

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 2
February, 1956

L 60297-65 EWT(d)/EWT(1)/EPF(c)/EEC(k)-2/EPW(m)-2/m/EWP(t)/EWP(b)

Card 1/2

Card 2/3