"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREBIZOV, M.D.

13

Influence of Method of Notch Preparation on Impact Strength. (In Russian.) M. D. Derebizov and G. I. Nazarova. *Factory Laboratory* (U.S.S.R.), v. 13, June 1947, p. 764-766.

Results of a comparison of different methods are presented in several tables. Factors of importance were found to be: whether the notch was prepared before or after heat treating, and whether it was made by cutting or grinding. Differences as high as 3 kg./cm.² were found.

METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERKBIZOVA, Yu.I.

Shortcomings in maintaining the official map of the U.S.S.R. in the Central Cartographic-Geodetic Collection. Geod.i kart. no.6: 47-50 Ag '56. (MLRA 9:11)

(Maps)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

LAZERKO, G.A.; DERECHENIE, I.I.

Reactions involving the formation of ammines of cadmium tartrate and cadmium acetate. Zhur. neorg. khim. 5 no. 12:2764-2769 D '60. (MIRA 13:12)

1. Belorusskiy gosudarstvennyy universitet imeni V.I. Lenina Khimicheskiy fakul'tet.
(Cadmium compounds)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERECHINSKAYA, Sh. L.;

DERECHINSKAYA, Sh. L.; and YERMAKOVA, Ye. Ya.

Tests on the Application of Serum, Purified According to the Method of the Central Institute of Epidemiology and Medicine (sic) in the Treatment of Diphtheria

Pediatriya, No. 2, (March/Apr), 1948 pp 24-29
1948 Letopis" Zhurnal'nykh Statey, No. 15, item 12,772

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERECHINSKAYA, SH. L.

USSR/Medicine - Serum Sickness, Pathology
Medicine - Prophylaxis, Effects

Sep/Oct 48

"Age Characteristics of the Course of Serum Sickness and Its Prophylaxis," Sh. L. Derechinskaya, G. S. Voskresenskaya, Ye. Ya. Yermakova, Infectious Diseases Sector, Inst of Pediatrics, Acad Med Sci USSR at Base Hosp imeni Rusakov, 6½ pp

"Pediatriya" No 5

Reports observations made during several years at Institute. Tabulates and discusses results. Concludes that purified serum, TsIEM (Cen Inst of

[redacted]

34/49T56

USSR/Medicine - Serum Sickness, Pathology (Contd)

Sep/Oct 48

Experimental Med) preparation, used for prophylaxis of serum sickness has advantage over natural serum. It lowers degree of anaphylactic reaction.

[redacted]

34/49T56

also 1948 Letopis' Zhurnal'nykh Statey #41, item 36,419

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERECHINSKAYA, Sh. L.

DOBROKHOTOVA, A.I.; DERECHINSKAYA, Sh.L.

Use of antibiotics for infectious diseases. in pediatric practice. Antibiotiki 2 no.5:23-28 S-O '57. (MIRA 10:12)

1. Institut pediatrii AMN SSSR.
(COMMUNICABLE DISEASES, in inf. & child, antibiotic ther. (Rus))
(ANTIBIOTICS, ther. use, commun. dis. in child. (Rus))

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DOBROKHOTOVA, A.I., zasluzhennyy deyatel' nauki, prof.; DERECHINSKAYA, Sh.L., kand.med.nauk

Results of measles control. Sov.zdrav. 16 no.12:28-34 D '57. (MIRA 11:1)

1. Chlen-korrespondent AMN SSSR (for Dobrokhotova)
(MEASLES, prevention and control, in Russia (Rus))

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREKHINSKAYA, Sh. L.

DOBROKHOTOVA, A.I., zasluzhennyy deyatel' nauki, prof.; DERECHINSKAYA, Sh.L., kand.med.nauk (Moskva)

Use of antibiotics in infectious diseases in children. Sov.med. 21 no.11:32-38 N '57. (MIRA 11:3)

1. Chlen-korrespondent AMN SSSR (for Dobrokhotova).
(COMMUNICABLE DISEASES, in inf. and child ther., antibiotics)
(ANTIBIOTICS, ther. use commun. dis. in child.)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERECHINSKAYA, Sh.L.

Dynamics of the intracutaneous test (Dick's test in connection with the course of scarlet fever when treated by new methods. Zhur. mikrobiol. epid. i immun 28 no.2:33-38 F '57 (MLRA 10:4)

1. Iz Instituta pediatrii AMN SSSR.
(SCARLET FEVER, immunol.
Dick test in various stages)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

SUKHAREVA, M.Ye.; DERECHINSKAYA, Sh.L.; RITOVA, V.V.

Problem of recurrent phases of virus influenza in children [with summary in English]. Pediatriia 36 no.12:43-48 D '58. (MIRA 12:1)

1. Iz infektsionnogo otdela kafedry pediatrii (zav. - deystvitel'nyy chlen AMN SSSR prof. G.N. Speranskiy) TSentral'nogo instituta usovershenstvovaniya vrachey, infektsionnogo otdela Instituta pediatrii AMN SSSR (zav. - chlen-korrespondent AMN SSSR prof. A.I. Dobrokhotova [deceased]), Instituta virusologii AMN SSSR na base Detskoy klinicheskoy bol'nitsy No.2 im. K.V. Rusakova (glavnyy vrach - zasluzhennyy vrach RSFSR V.A. Krushkov).

(INFLUENZA, in inf. & child
recur. phases (Rus))

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERECHINSKAYA, Sh.L.; MIKHAYLOVA, Z.M.

Treatment of scarlatina in children with chronic tonsillitis [with summary in English]. Pediatriia 36 no.2:16-23 F '59. (MIRA 12:4)

1. Iz otdela ostrykh detskikh infektsiy (zav. - chlen-korrespondent AMN SSSR prof. A.I. Dobrokhotova [deceased]) Instituta pediatrii AMN SSSR (dir. - chlen-korrespondent AMN SSSR prof. O.D. Sokolova-Ponomareva) na baze 2-y detskoy klinicheskoy bol'nitsy imeni I.V. Rusakova (glavnyy vrach - zasluzhennyy vrach RSFSR dots. V.A. Kruzhkov).

(SCARLET FEVER, ther.
in child. with chronic tonsillitis (Rus))
(TONSILLITIS, compl.
scarlet fever ther. in child. with chronic tonsillitis (Rus))

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERECHINSKAYA, Sharlotta L'vovna; LAGUTINA, Ye.V., red.

[Health of the nursing infant] Zdorov'e grudnogo rebenka. Moskva, Izd-vo "Znanie," 1964. 30 p. (Narodnyi universitet kul'tury, Fakul'tet zdorov'ia, no.10) (MIRA 17:6)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREGHINSKIY, I. I., Physician

"All-Russian Antituberculosis League and Its Legacy." Sub 27 May 47, Moscow Medical Inst, Ministry of Health RSFSR

Dissertations presented for degrees in science and engineering in Moscow in 1947

SO: Sum No. 457, 18 Apr 55

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

9.2000

78149
SOV/108-15-3-12/17

AUTHOR: Derechinskiy, L. R.

TITLE: Letter to the Editor

PERIODICAL: Radiotekhnika, 1960, Vol 15, Nr 3, pp 65-66 (USSR)

ABSTRACT: The author of the Letter to the Editor analyzes a paper by A. P. Belousov entitled, "Increase in the Precision of a Certain Result Given in Scientific Literature," published in Radiotekhnika, 1956, Vol 2, Nr 4. The original paper discusses calculation of a certain input transformer diagram. The author of the Letter highly criticizes the paper and points out a number of apparently gross errors in the original equations, their discussion, and conclusions drawn. There are 3 Soviet references.

Card 1/1

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERECKI, Juliusz; GEISLER, Jan; JANKOVIC, Dobrila; JAWOROWSKI, Zbigniew

Rapid method for the determination of caesium - 137 in water and urine. Nukleonika 8 no.1:69-74 '63.

1. Centre of Radiation Protection and Radiobiology, Warsaw (for Derecki). 2. Institute of Nuclear Research, Department of Health Protection, Warsaw 9 (for Geisler and Jaworowski). 3. Boris Kidric Institute, Beograd (for Jankovic).

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

ACCESSION NR: AP4009219 P/0046/63/008/011/0783/0785

AUTHOR: Derecki, Juliusz; Geisler, Jan; Jaworowski, Zbigniew

TITLE: An improved method for determination of cesium-137 in rain water

SOURCE: Nukleonika, v. 8, no. 11, 1963, 783-785

TOPIC TAGS: determination of cesium-137, water, urine, detection limit, ammonium molybdophosphate mat, personal contamination, background pulse

ABSTRACT: The paper proposes a modification of the method published in Nukleonika (8, 69, 1963) for determining cesium-137 in water and urine, where the detection limit was found to be 22 and 51 picocuries, respectively, on the basis of ion exchange on ammonium molybdophosphate mats, especially convenient for routine measurements of personal contaminations. This modification, permitting detection of approximately one picocurie in water, consists in changing the size of the mats and not using asbestos. The table of "percentage of Cs-137 from 200 ml water samples spiked with 0.005 microcuries" shows the average recovery as 99.29 ± 0.32. The detection limit was approximately 1 picocurie of cesium-137 when

Card 1/2

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ACCESSION NR: AP4009219

the background pulses were 0.5 c.p.m. and the counting efficiency 25.3%.

"We are indebted to Profession E. Kowalski, in whose Department the work was carried out, for his constant guidance and encouragement. Our thanks are due to Eng. T. Radoszewski for his kind help in counting procedure."

Original has a diagram of the "filtration funnel" and 2 tables.

ASSOCIATION: Center of Radiation Protection and Radiobiology, Warsaw; and Institute of Nuclear Research, Department of Health Protection, Warsaw-Swierk

SUBMITTED: 09Sep63 DATE ACQ: 03Feb64 ENCL: 00

SUB CODE: LS, NP NO REF SOV: 000 OTHER: 003

Card 2/2

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERECKI, Juliusz

A simple method of detecting cesium-137 in tissues. Pol. przegl. radiol. 28 no.6:575-580 N-D '64.

1. Z Osrodka Ochrony Radiologicznej i Radiobiologii (Kierownik naukowy: prof. dr. med. E. Kowalski).

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

OBARA, Tadeusz, dr.; DERECKI, Juliusz; FORGALSKI, Wieslaw; TOTH, Zbigniew

Studies on the use of radioactive iron (Fe59) in clinical diagnosis of various hematologic syndromes. Pol. przegl. radiol. 28 no.6:587-593 N-D '64.

1. Z Osrodka Ochrony Radiologicznej i Radiobiologii w Warszawie (Kierownik: dr. T. Obara).

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERECSKEY, Zoltan

Syria from the point of view of domestic engineering.
Epuletgepeszet 11 no.6:217-219 D '62.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

RUMANIA

DERECKI, Iuliusz [Affiliation not shown], (Peoples Republic of Poland)

"Effect of DOCA and ACTH on Retention and Elimination of Cesium-137 in Mice"

Bucharest, Revista Sanitara Militara, Vol 16, Special No., 1965; pp 451-453

Abstract: Study in 3 groups of 10 mice each, receiving cesium-137 (as chloride), then either DOCA or ACTH: while the corticosteroid seemed to accelerate elimination of the radioisotope, ACTH tended rather to have the opposite effect. 4 graphs.

1/1

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

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(1)

POLAND

BURAKOWSKI, T., CIEPLINSKI, J., and DERECKI, Jan. Radiological Protection and Radiobiology Center (Ośrodek Ochrony Radiologicznej i Radiobiologii). Dr. T. Obara, Head.

"Studies on the Removal of Caesium-137 from Meat"

Lublin, Medycyna Weterynaryjna, Vol 22, No 3, 1966, pp 133-136.

Abstract: Studies on the removal of caesium-137 from contaminated meat are described. It was found that tap water works almost as effectively as distilled water. Among organic chemicals, which are more effective than inorganic chemicals, best results were obtained with citric acid and sodium salicylate. The most practical way of decontamination was found to consist in steeping contaminated meat in tap water for several hours.
Contains 4 Figures and 8 references (1 Polish and 7 Western).

1/1

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

LASLO, Ya. [Laszlo, I.]; PETER, M.; FILEP,D. [Filip. D.]; ABRAKHAM, Sh. [Abraham, A.]; BALINT, Ye. [Balint,E.]; DOMOKOSH, L. [Domocos, L.]; KASA,L. [Qasa, L.]; DERDI,P.; BEDE, Sh. [Bede,S.]

Experimental studies on epidemic hepatitis. Vop. virus. 8 no.2: 221-224 Mr-Ap'63 (MIRA 16:12)

1. Kafedra mikrobiologii i inframikrobiologii Mediko-farmatsevticheskogo instituta Tyrgu-Muresh, Rumyniya.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

MEREDZHIIAN, A.

Endotracheal anesthesia in children. Khirurgiia, Sofia 10 no.11:1001-1010 1957..

1. Institut za spetsializatsiia i usuvurshenstvuvane na lekarite - sofiia klinika po bolinchna khirurgiia Direktor: prof. K. Staianov.
(ANESTHESIA, ENDOTRACHEAL,
in pediatrics (Bul))

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREDZHIAN, A.

Surgical removal in a case of needle in the lung. Khirurgiia, Sofia 10 no.12:1120-1122 1957.

1. (Iz Klinikata po bolnichna khirurgiia pri ISUL)
(LUNG, for. bodies,
needle, surg. extraction (Bul))

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

STOIANOV,K.,prof.; KHUSTINOV,G.; DEREDZHIAN,A.

Anesthesia and reanimation in thoracic surgery. Khirurgiia Sofia 13 no.2-3:111-114 '60.

1. Iz Katedrata po bolnichna khirurgiia pri ISUL.
(THORAX surg.)
(RESUSCITATION)
(ANESTHESIA)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREDZHIAN, A.

Acute respiratory insufficiency and its control. Khirurgiia, Sofia, 13 no.2-3:144-147 '60.

1. Iz Katedrata po bolnichna khrurgiia pri ISUL.
(ASPHYXIA ther.)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

VOURC'H, G., prof.(Paris); DEREDZHIAN, A.

Endobronchial anesthesia in pulmonary surgery. Khirurgiia, Sofiia 13 no.5:447-453 '60.

1. Medikokhirurgichen tsentur "Fosh", Parish.
(LUNGS surg)
(ANESTHESIA INTRATRACHEAL)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREDZHIAN, A.

Certain factors in the reanimation in postoperative acute renal insufficiency. Khirurgiia, Sofia 13 no.12:1056-1059 '60.

1. Institut za spetsializatsiia i usuvurshenstvuvane na lekarite, Sofia. Katedra po bolnichna khirurgiia. Zav. katedrata: prof. K.Stoianov.

(RESUSCITATION)
(SURGERY OPERATION compl)
(ACUTE RENAL FAILURE)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREDZHIAN, A.

Choledochotomy and papillectomy in calculi of the choledochus associated with cancer of the duodenal papilla. Khirurgiia, Sofia 14 no.7:638-640 '61.

1. Katedra po bolnichna khirurgiia pri ISUL.

(CHOLELITHIASIS compl) (DUODENUM neopl)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

KRUSTINOV, K., prof.; ARNAUDOV, D., dots.; DEREDZHIAN, A.

Resuscitation of a child in clinical death by means of successful resection of the aortic isthmus. Khirurgiia (Sofia) 14 no.12:1113-1117 '61.

1. Iz Klinikata po bolnichna khirurgiia pri Institut za spetsializatsiia i usuvurshenstvuvane na lekarite.

(AORTA surg) (RESUSCITATION)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREDZHIAN, A.

Successful management of the condition of prolonged clinical death following electric shock in unusual non-operative environment. Khirurgiia (Sofia) 14 no.10:915-923 '61.

1. Institut za spetsializatsiia i usuvurshenstvuvane na lekarite, Sofiia Katedra po bolnichna khirurgiia Zav. katedrata: prof. K. Stoianov.

(RESUSCITATION) (ELECTRICITY)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREDZHIAN, A.

On the problem of surgical therapy of "Leriche's syndrome". Khirurgiia 15 no.7:601-607 '62.

1. Institut za spetsializatsiia i usuvurshenstvuvane na lekarite - Sofiia. Katedra po bolnichna khirurgiia. Zav. katedrata: prof. K. Stoianov.

(LERICHE'S SYNDROME)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

KRUSTINOV, G., prof.; MARINOVA, L.; DEREDZHIAN, A.

Resection of aneurysm of the abdominal aorta. Khirurgiia 15 no.8:769-771 '62.

1. Iz Klinikata po bolnichna khirurgiia pri ISUL [Institut za spetsializatsiia i usuvurshenstvuvane na lekarite].
(AORTIC ANEURYSM)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

PASKOV, D., prof.; STOIANOV, K., prof.; SAEV, S.; DEREDZHIAN, A.; KRUSTEVA, E.; TENEV, K.; MINCHEVA, M.

Anti-curare effects of nivalin. Khirurgiia 15 no.9/10:885-890 '62.

(GALANTHAMINE) (CURAREFORM ANTAGONISTS)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

GOSPODINOV, G.; DEREDZHIAN, A.

Roentgeno-clinical characteristics of Leriche's syndrome. Khirurgiia 15 no.9/10:951-954 '62.

1. Iz katedrite po rentgenologiia i radiologiia i po bolnichna khirurgiia pri ISUL [Institut za spetsializatsiia i usuvurshenstvuvane na lekarite].
(LERICHE'S SYNDROME)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREDZHIAN, A.; SAEV, St.; KRUSTEVA, E.; TENEV, K.; ABADZHIEV, P.; FICHEV, N.

Our methods of anesthesia and reanimation in newborn infants. Khirurgiia 15 no.11:991-993 '62.

1. Iz Katedrite po bolnichna khirurgiia pri VMI [Vissh meditsinski institut] - Sofiia i ISUL [Institut za spetsializatsiia i usuvurshenstvuvane na lekarite].

(ANESTHESIA INTRATRACHEAL)
(ANESTHESIA GENERAL)
(INFANT NEWBORN DISEASES)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

ARNAUDOV, D., dots.; DEREDZHIAN, A.

On the problem of the surgical treatment of pyopneumothorax in infants. Khirurgiia (Sofiia) 16 no.5:423-430 '63.

1. Institut za spetsializatsiia i usuvurshenstvuvane na lekarite - Sofiia katedra po bolnichna khirurgiia. Rukovoditel na katedrata; prof. K. Stoianov.
(PNEUMOTHORAX) (SUPPURATION) (SURGERY, OPERATIVE)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

STOIANOV, K., prof.; DERDZHIAN, A.; DIMITROV, L.; PETSEVA, O.; MOMCHILOV, M.

Our experiences with surgery in old age. Khirurgiia 17 no.2:174-175 '64.

1. Iz Katedrata po bolnichna khirurgiia pri ISUL [Institut za spetsiializatsiia i usuvurshenstvuvane na lekarite].

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREDZHIAN, A.

Resection and alloplasty of the abdominal aorta in aneurysm. Khirurgiia (Sofiia) 18 no.3:362-366 '65.

1. Institut za spetsializatsiia i usuvurshenstvuvane na lekarite, Sofiia, Katedra po bolnichna khirurgiia (ruko-voditel: prof. K. Stoianov).

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERDZHONOV, Tr., kandidat na selskostopanskite nauki.

Correct ensilage of green fodder. Nauka i tekh mladezh 14 no.7: 31 Jl '62.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

TKACHENKO, B.S.; DEREGA, E.V. (g.Kupyanks, Khar'kovskoy oblasti)

Assistance from the medical school to public health organs as one of the forms of relating teaching to daily life. Fel'd. i akush. 26 no. 1:54-56 Ja '61. (MIRA 14:2)
(PUBLIC HEALTH)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREGIN, B. V.

Deregin, B. V. and Zakhavayeva, N. N. "The study of the properities of the conduct of the thin polymer layers of vinyleasters and their solutions on matellic surfaces," In the symposium: Investigations in the field of complex-molecular compounds, Moscow-Leningrad, p. 223-37, - Bibliog: 7 items

SO: U-5241, 17 December 1953, (Letopis'Zhurnal 'nykh Statey, No. 26, 1949)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREGOWSKA, Krystyna

Joining of glass elements of electronic tubes with the help of low melting glaze. Przegl elektroniki 3 no.3:133 Mr '62

1. Przemyslowy Instytut Elektroniki, Warszawa.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREKH, P.A.; KUTSEVALOV, V.V.

Improving an enlarged deasphalting unit. Nefteper. i neftekhiim. no. 11:7-10 '63. (MIRA 17:5)

1. Volgogradskiy neftepererabatyvayushchiy zavod i Volgogradskiy nauchno-issledovatel'skiy institut nefti i gaza.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERELIEV, Liubomir, n. sutrudnik

Notes on some problems in teaching stereometry in the 10th class.
Mat i fiz Bulg 5 no.6:24-32 N-D '62.

1. PI pri Bulgarskata akademiia na naukite.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREN, G.

USSR/Physical Chemistry, Kinetics, Combustion, Explosions, Topochemistry, Catalysis. B-9

Abs Jour : Ref Zhur - Khimiya, No 7, 1957, 22434.

Author : G. Deren, G. Gaber, S. Mrovets.
Inst : Not given
Title : Connection between catalytic activity and electric conductivity of catalyzers mixture $ZnO-Cr_2O_3$.

Orig Pub : Byul. Polskoy AN, 1956, Otd III, 4, No 2, 103-107.

Abstract : Catalytic activity (CA) (i.-e. quantity of CH_3CHO formed by dehydrogenation of $C_2H_5O_4$ in a 20% mixture with water) and electro conductivity (σ) of the following substances are studied: $4ZnO + Cr_2O_3$; $3ZnO + Cr_2O_3$; $2ZnO + Cr_2O_3$; $ZnO + Cr_2O_3$; $ZnO + 2Cr_2O_3$; $ZnO + 3Cr_2O_3$; $ZnO + 4Cr_2O_3$; ZnO and Cr_2O_3 at 250-550°. In case of catalyzers with high contents of ZnO σ grows during the reaction process as on electronic semiconductors (RZhKhim. 1956, 28534). In case of catalyzers more rich in Cr_2O_3 σ falls in the process of reaction at temperatures $< 450°$; at temperature $> 450°$ σ falls at the beginning and then grows, as it was observed for holed semiconductors. (RZhKhim., 1956, 39075). For ZnO, $3ZnO + Cr_2O_3$ and $4ZnO + Cr_2O_3$,

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

USSR/Physical Chemistry, Kinetics, Combustion, Explosions, Topochemistry, Catalysis. B-9

Abs Jour : Ref Zhur - Khimiya, No 7, 1957, 22434.

CA and σ grow with the increase in temperature, attain their maximum at 350° and then fall. For $2ZnO + Cr_2O_3$, $ZnO + Cr_2O_3$, $ZnO + 3Cr_2O_3$, $ZnO + 4Cr_2O_3$ and Cr_2O_3 - CA and σ grow with the increase in temperature, attains maximum at 350°.and then drop but σ falls uninterruptedly with the increase in temperature. For $ZnO + Cr_2O_3$ CA and σ grow with the increase in temperature, attain their maximum at 400°, then pass through their minimum at 450°, and then grow again. In all cases there exists a linear relation between CA and $\Delta \lg \sigma$ (i.e. variations of the value of $\lg \sigma$).

Card 2/2 -144-

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

BELYANSKIY, Adam; DEREN', Georgiy; GABER, Georgiy

Electric conductivity of semiconductor catalysts. Probl. kin. i kat. 10:37-49 '60. (MIRA 14:5)

1. Gorno-metallurgicheskaya akademiya, Krakov.
(Semiconductors) (Catalysts)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

L 16915-65 EWG(j)/EWT(m)/EPF(c)/EPF(n)-2/EPR/EWP(j)/EWP(t)/EWP(b) Po-4/Pr-4/Pad/Ps-4/Pu-4 IJP(c) JD/HW/JG/RM

ACCESSION NR: AP4047837 S/0195/64/005/005/0849/0860

AUTHOR: Belyanskii, A.; Doren', G.; Vol'ter, M.

TITLE: Investigation into the properties of pure and lithium- or iron-alloyed nickel oxide, obtained by the decomposition of nitrates

SOURCE: Kinetika i kataliz, v. 5, no. 5, 1964, 849-860

TOPIC TAGS: catalyst property, surface phenomenon, nickel oxide lattice, lithium diffusion, iron diffusion, nickel oxide conductivity

ABSTRACT: A brief review is given of a fairly large number of papers, mostly published in recent years, dealing with the study of the effect which the alloying of nickel oxide has on its adsorption and catalytic properties. Included in this review are also former studies by the present authors which provide a more complete description of methodology than the rather brief statement in the article under consideration. The authors do state, however, that the technique used makes it possible to follow the penetration of lithium oxide into the lattice of the product of the decomposition of the basic nickel carbonate, depending on such factors as the duration and temperature of calcination of the sample, as well as the quantity of lithium oxide employed. The purpose of the present article was to expand pre-

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ACCESSION NR: AP4047837

viously initiated investigations into the physicochemical properties of pure and alloyed nickel oxide, and also to generalize certain formerly advanced conclusions. By calcining nickel nitrate at temperatures of 500 - 1100C, nickel oxide samples were prepared: both pure and alloyed with lithium (0.17 - 5.5 at.%) and iron (0.1 - 3.0 at.%). The content of excess oxygen in these samples was determined both immediately after air calcination and after vacuum desorption of the oxygen at 400C. The authors thus established the quantity of desorbed oxygen present on the surface or in the near-surface layer, and the quantity of intracrystalline excess oxygen. On the basis of the results obtained it was possible to form an effective idea of the lithium diffusion into the nickel oxide lattice. The article also presents the results of investigations into the electrical conductivity of the samples, both in air and in a vacuum. Orig. art. has: 3 tables, 8 figures and 3 equations.

ASSOCIATION: Laboratoriya poverkhnostny*kh yavleniy, Institut fizicheskoy khimii Pol'skoy Akademii Nauk, Cracow, Poland (Surface Phenomena Laboratory, Institute of Physical Chemistry of the Polish Academy of Sciences)

SUBMITTED: 06May63 ENCL: 00 SUB CODE: NM, IC

NO REF SOV: 002 OTHER: 012

Card 2/2

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREN, Jerzy

POLON

The problems of reactions in the solid state. Jerzy Deren and Jerzy Haber (Akad. Górn.-Hutnicza, Cracow, Poland). *Wiadomości Chem.* 8, 433-87(1954).—A comprehensive review of crystal defects, classification, mechanism, and kinetics of solid reactions. 46 references. A. S.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREN, J.

DEREN, J; AND OTHERS

Studying the isotopic exchange of bromine atoms between crystalline Hg_2Br_2 and gaseous bromine by using radioactibe indexes, p. 63. (ROCZNIKI CHEMII, Warszawa, Vol. 28, no. 4, 1954.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, Jan.1955, Uncl.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREN, J.

Electric conductivity of sintered Fe_2O_3-ZnO mixtures. A. Bielański and J. Deren (Acad. Mining and Metallurgy, Krakow, Poland). *Roczniki Chem.* 28, 154-5(1954)(English summary).—A stoichiometric mixt. of Fe_2O_3 and ZnO was sintered at temps. of 800 to 1200° and the elec. cond. was measured in the temp. range from 100 to 600°. Specimens sintered at 800° and overexhibited an initially rising cond. remaining nearly const. thereafter. Temp. and time of sintering affect the value of cond. and its dependance on temp. Further research is under way. Sylvia Nowinska

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DERN, J

POL

Isotopic exchange of bromine atoms between crystalline Hg_2Br_2 and gaseous bromine. J. Dern, J. Haber, A. Halpern, and A. Polnerek (Jagellonian Univ., Cracow). *Roczniki Chem.* 28, 673-9(1954)(English summary).—The extent of isotopic exchange of Br atoms between cryst. Hg_2Br_2 and gaseous Br was studied by use of radioactive tracers. Pptd. Hg_2Br_2 contg. radioactive Br concd. by the Szilard-Chalmers method was heated to various temps. up to 190° in an atm. of inactive gaseous Br for 1.5 hrs. 10-30% of radioactive Br passed from solid to gaseous phase. The isotopic exchange was not appreciably affected by temp.; this indicated that the exchange mainly occurred on the surface of the sample. Sylvia Newinska

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREŃ, J.

The electric conductivity and catalytic activity of zinc oxide-ferric oxide mixtures. A. Bielanski, J. Dereń, and J. Haber (School Mining Met., Krakow). Bull. Acad. Pol. Sci. Classe III, 3, No. 4, 221-7(1955); cf. C.A. 49, 11141c.

pressed between 2 ceramic plates upon which there were 2 Pt electrodes. The upper end of the quartz tube was connected to a glass bulb kept in an oil bath at 120°. An EtOH-H_2O mixt. was added dropwise to the bulb and permitted to evap. before addn. of another drop. The lower end of the quartz tube was connected to a vacuum pump through a water-cooled condenser and a freezing condenser. EtOH, H_2O, and AcH were found in the condensation products. The latter was detd. by use of hydroxylamine hydrochloride. Elec. cond. was measured by an alternating-current-bridge method [Lorenz and Klauer, C.A. 18, 3516). Before starting the reaction, the air pressure was reduced to about 1 mm. Hg. Upon introduction of the water-alc. mixt., the cond. increased sharply. The process was reversible on reintroduction of the initial ambient atm. No relation was found between initial cond. and catalytic activity. A plot of the reaction yield as a function of temp. followed very closely a plot of the differences between the log of the initial cond. and the log of the cond. at the temp. in question. A local max. was observed at 450° in both plots with a steady rise occurring above 550°. The highest reaction yields and also the highest log cond. differences were found with a 20% EtOH (by vol.) mixt. and a nonsintered catalyst. Catalytic activity decreased with increasing sintering temp.

Harry Letaw, Jr.

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27

Catalytic activity and electrical conductivity of $MgO-Cr_2O_3$-fixed catalysts. A. Bielanski, I. Deren, and T. Haber (School Mining Met., Krakow). *Bull. acad. polon. sci.* 3, 497-102(1955)(in English); *C.A.* 51, 5329.—The effect of the compn. of $MgO-Cr_2O_3$ catalysts on the yield of dehydrogenation of BtOH and on the cond. of the catalyst were reported. The log of the cond. (I) of a $MgO-Cr_2O_3$ catalyst (II) decreases at the start of the reaction at temps. between 350° and 500°; from 550 to 650° I decreases initially and then increases above the original value. Catalysts III contg. $4MgO.Cr_2O_3$, $8MgO.Cr_2O_3$, or $2MgO.Cr_2O_3$ showed a decrease in I at all temps. Catalysts (IV) contg. $MgO-2Cr_2O_3$, $MgO-3Cr_2O_3$, $MgO-4Cr_2O_3$, and Cr_2O_3 behaved like II. The changes in the behavior of Cr_2O_3-rich catalysts at 500° are related to a polymorphic change of the Cr_2O_3. The reaction yields with III were directly related to I; with II and IV the relation was more complicated.

R. H. Latimer

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DEREN, J.

DEREN, J.; RYS, R.

Investigation on electrodialytic isolation of strychnine from Strychnos seeds. Acta Poloniae pharm. 12 no.1:33-38 1955.

1. Z Instytutu Zootechniki. Centralne laboratorium, Krakow.
(STRYCHNINE, determination,
electrodialytic isolation from nux vomica)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREN, J.

Electrical conductivity of sintered $MgO-Cr_2O_3$ mixtures. A. Bielański and J. Deren (School Mining Met., Krakow, Poland). Roczniki Chem. 29, 1145-7(1955).—The elec. cond. of sintered $MgO-Cr_2O_3$ mixts. of varying compns. were measured in the temp. range 100-800°. Some of the samples were sintered at 800-1300° for 4 hrs. prior to the measurements. Plots of log K vs. $1/T$ for 5 unsintered compns. ($MgO + Cr_2O_3$, $MgO + 4Cr_2O_3$, and $4MgO + Cr_2O_3$) are given. Curves were different for the sintered and unsintered samples. The dependence of the cond., as measured at 600°, on the compn. of the sample for sintered and unsintered samples is reported. In the temp. range 700-800° an increase of the cond. of the mixts. was observed and attributed to a reaction between the oxides. This is particularly pronounced at the compn. of $MgO + Cr_2O_3$. M. R.

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DEREV J.

Relation between electric conductivity and catalytic activity of ZnO-Cr_2O_3 mixed catalysts. J. Deren, J. Haber, and S. Mazurec (*Bull. Acad. Polon. Sci.* III, 1955, 3, 107—111).—The amounts of ZnO and Cr_2O_3 in the catalyst were varied and measurements of conductivity and reaction yield in the dehydrogenation of EtOH were carried out over the temp. range of 250—350°. With ZnO-rich catalysts conductivity increased and with Cr_2O_3-rich catalysts (I) it decreased at lower temp.; at higher temp. it first decreased and then increased. In the case of I decrease in conductivity is accompanied by increase in reaction yield at 250—400°. The dependence of the two values is taken as linear. Above 450° the yield decreases.

R. J. MACRE.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREN, I.

Influence of the composition of $ZnO-Fe_2O_3$ and of $ZnO-Cr_2O_3$ mixed catalysts on their electrical conductivity and catalytic activity. A. Bielański, I. Deren, I. Haber, and S. Mrowec (Inst. Technol., Wrocław). Bull. acad. polon. sci. Classe III, 4, 533-6(1933) (in English).—The influence of the compn. of the catalysts $ZnO-Fe_2O_3$ and $ZnO-Cr_2O_3$ on the yield of the dehydrogenation of EtOH and on the cond. of the catalyst is reported. At const. catalyst compn. there is a linear dependence of the change in the abs. value of the log of the cond. on the reaction yield. The relation of the cond. and reaction yield to the compn. of the catalyst is more complex than in the case of the $MgO-Cr_2O_3$ system (cf. C.A. 49, 15410i). R. Holroyd

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREŃ, J.; HABER, J.; KROMEC, S.

Relation between the electric conductivity and catalytic activity of $ZnO-Cr_2O_3$ mixed catalysts. In English. p.107
BULLETIN. Varsovie
Vol. 5, no. 2, 1956

So. East European Accessions List Vol. 5, No. 9 September 1956

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREN, J.

Distr: 4E2c

19

Investigation of exchange reactions in a solid-vapor system by radioactive tracers. I. The system: solid Hg_2Br_2-gaseous Br_2. Jerzy Deren, Jerzy Haber, Aleksander Halpern, and Andrzej Połaczek (Akad. Górniczo-Hutnicza, Kraków, Poland). *Zeszyty Nauk. Akad. Górniczo-Hutniczej* No. 8, *Ceramika* No. 1, 13-18(1956)(English summary).—Radioactive Hg_2Br_2 contg. Br^{82} and Br^{82} was equilibrated with gaseous Br_2 at 20-190°. An exchange of 25 ± 5% of Br atoms was calcd. and found to be independent of temp. This indicated that mainly the surface of the sample was involved. J. Stecki

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POLAND/Physical Chemistry. Kinetics. Combustion. Explosions. Topochemistry. Catalysis. B

Abs Jour: Ref Zhur-Khim., No 5, 1959, 14690.

Author : Bielanski A., Deren J., Haber J., Nedoma J.
Inst :
Title : Study of the Electric Conductivity of Catalyzers Applied in the Obtaining of Acetone from Ethyl Alcohol.

Orig Pub: Przem. chem., 1956, 12, No 11, 642-647.

Abstract: The electrical conductivity of three types of multi-component catalyzers (C), applied in the obtaining of acetone from C_2H_5OH and which differ in their composition as well as in their preparation method, has been investigated. New and active C have been studied. The linear dependence between the logarithmic increment of the electric conductivity and the yield has

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POLAND/Physical Chemistry. Kinetics. Combustion. Explosions. Topochemistry. Catalysis. B

Abs Jour: Ref Zhur-Khim., No 5, 1959, 14690.

been established for active catalyzers. The reaction yield for active and inactive catalyzers is inversely proportional to the electric conductivity. -- From the authors' resume.

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREN, J.

~~Jerzy, D.~~

POLAND / Analytical Chemistry. Analysis of Inorganic Properties. E

Abs Jour: Ref Zhur-Khimiya, No 19, 1958, 64184

Author : Deren Jerzy, Haber Jerzy, Nodoma Jozer
Inst : Not given
Title : A Quick Method of Determining Calcium and Magnesium in Limestones and Dolomites by Means of Complex III.

Orig Pub: Chem. anal., 1957, 2, No 1, 3-10

Abstract: Describes the complex metrical method of determining Ca and Mg without preliminary separation from other elements. Into a 15 ml capacity beaker ~0.25 g samples are placed, wetted with

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

POLAND / Analytical Chemistry. Analysis of Inorganic Properties. E

Abs Jour: Ref Zhur-Khimiya, No 19, 1958, 64184

Abstract: water and treated with 15 ml HCl (1:1). In one hour the solution together with the sediment is transferred into a measured retort of 250 ml capacity and diluted up to a mark with water. For the determination of Ca, 20 ml of the solution obtained is withdrawn, 30 ml of water and 3 ml of a 20% solution of NaOH is added, and 0.01 M titrated with a solution of complex III in the presence of murexide. For the determination of the amount of Ca+Mg, 20 ml of the original solution is again withdrawn, 30 ml of water and 2 ml of a buffer solution (67.5 g NH_4Cl and 570 ml of concentrated NH_4OH in 1 ℓ of solution), titrated with a 0.01 M solution of complex III in the presence of eriochromium iron T. The

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

POLAND / Analytical Chemistry. Analysis of Inorganic Properties. E

Abs Jour: Ref Zhur-Khimiya, No 19, 1958, 64184

Abstract: Mg content is found by the difference of the results of the two titrations.

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

POLAND/Physical Chemistry. Kinetics. Combustion. Explosions. Topochemistry. Catalysis. B-9

Abs Jour: Ref Zhur-Khim., No 13, 1958, 42633.

Author : Bielanski A., Deren J., Haber J., Wilkowa T.
Inst : Polish Academy ~~of Sciences~~.
Title : The Electric Conductivity of NiO Catalyst in the Course of Ethyl Alcohol Dehydrogenation.

Orig Pub: Bull. Acad. polon. sci., 1957, Cl. 3, 5, No 2, 197-202, XVII.

Abstract: Determination of changes in electric conductivity σ, of a tablet of NiO (p-type semiconductor) during the occurence at its surface of a catalytic dehydrogenation of C_2H_5OH. A preliminary determination was made, in the air at 100-650°, of the temperature dependence of σ, which yielded for the width of

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

POLAND/Physical Chemistry. Kinetics. Combustion. Explosions. Topochemistry. Catalysis. E-9

Abs Jour: Ref Zhur-Khim., No 13, 1958, 42633.

the forbidden zone in NiO a value of 0.80 Ev Passing of C_2H_5OH vapor over the catalyst induces a drop of σ by several orders of magnitude. The following linear correlation has been ascertained: $|\Delta \lg \sigma| = A + B \cdot R$, where R is yield of acetaldehyde, A, B -- constants. The sign of σ change indicates the formation of donor-levels at NiO surface on adsorption of C H OH. On performance of the reaction at temperatures not below 350° the usual drop in σ is followed by a sudden increase of this value, brought about by reduction of NiO to the metal. Determinations of σ of NiO tablets having undergone a surface reduction, show

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

POLAND / Physical Chemistry. Kinetics. Combustion. Explosions. Topochemistry. Catalysis. B

Abs Jour: Ref Zhur-Khimiya, No 17, 1958, 56793.

Author : Bielanski A, Deren J., Haber J., Wilkowa T.
Inst : Not given.
Title : The Electric Conductivity and Catalytic Activity of MgO - CdO Mixed Catalyzers.

Orig Pub: Bull. Acad. Polon. sci., 1957, CL 3, 5, No 6, 673 - 678.

Abstract: The dehydrogenation of ethyl alcohol on a mixed catalyzer CdO - MgO (ratio 1:1.7 was investigated. Electric conductivity measurements were carried out at the same time, after an initial heating in air up to 500°C. The catalyzer does not develop any variations of the electric con-

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

POLAND / Physical Chemistry. Kinetics. Combustion. Explosions. Topochemistry. Catalysis. B

Abs Jour: Ref Zhur-Khimiya, No 17, 1958, 56793.

Abstract: ductivity with temperature in an interval of 100 - 500°C. The reaction yield and the variation of the conductivity logarithm ( ) under the action of the ethyl alcolhol vapor mixtures and the H_2O of the permanant composition, also, do not depend on the temperature in the interval of 200 - 300°C. According to the authors, the above facts are in full agreement with the viewpoint that, the quantity of current carriers in the catalyzer affect, before the start of reaction, the absorption equilibria established on its surface, as well as the reaction yield. The reduction of CdO and a subsequent evaporation of the metallic Cd take place at

Card 2/3

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREN, J.

A. Bielanski, J. Deren, and J. Haber.: "Electric Conductivity and Catalytic Activity of Semiconducting Oxide Catalysts," Nature, Vol. 179, No. 4561, London, 30 Mar 57. Published from the Department of Inorganic Chemistry, Academy of Mining & Metallurgy, Mickiewicza 30, Krakow.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

POLAND/Electricity - Semiconductors G-3

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 8557

Author : Bielanski A., Deren J.
Inst : Institute of Physical Chemistry, Polish Academy of Sciences, Krakow, Poland

Title : Changes in the Electric Conductivity of Semiconducting Oxides in the Course of Solid State Reaction

Orig Pub : Bull. Acad. polon. sci. Ser. sci. chim., geol. et geogr., 1958, 6, No 4, 239-243, XVIII

Abstract : An investigation was made of the change in the electric conductivity in the topochemical reactions of formations of spinels. The measurements were made on mixtures $ZnO-Fe_2O_3$, $MgO-Cr_2O_3$, and $ZnO-Cr_2O_3$. -- Author's resume.

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

POLAND/Electricity - Semiconductors G-3

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 6041

Author : ~~Doren J.,~~ Haber J., Wilkowa T.
Inst : Krakow, Poland
Title : An Investigation of the Electric Conductivity of Zinc Oxide

Orig Pub : Bull. Acad. polon. sci. Ser. sci. Chim., geol. et geogr., 1958, 6, No 4, 245-249, XIX

Abstract : A study was made of the electric conductivity (σ) of specimens of ZnO prepared in various manners, as functions of the temperature and gas atmosphere. Measurements of σ were carried out with the aid of a linear bridge and amplifier at 50 cycles per second. For the purpose of varification the σ of many specimens was measured by the Miller method at frequencies up to 160 kcs. It was established that when the specimens are heated to a temperature of 1000° C the frequency dependence of σ disappears.

If the measurements of σ at increased temperature follow directly the cooling of the specimen, then the curve in σ = f (1/T) at two straight-line sections with activation energy

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POLAND/Electricity - Semiconductors G-3

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 6041

of electric conductivity E = 1.83 to a temperature of approximately 425° C and E = 2.56 ev above approximately 425° C.

When the specimen was kept for one day in air at room temperature, the curve $\ln \sigma = f(1/T)$ had three straight-line sections: up to 250° C with $E \simeq 214$ ev, from 250 to 275°C with $E \simeq 0$, and above 275°C with E = 3.36 ev. When the specimen was kept in air for a week, the dependence of $\ln \sigma$ of 1/T was even more complicated.

When heated to 600°C in vacuum, the conductivity increases greatly and the curve of σ is almost parallel to the temperature axis. The oxygen decreases σ greatly, but not to the initial value. When sintering the specimens in air at a temperature above 1200°C, has the following activation energies: up to 400°C, E = 0.02 ev; above 400°C, E = 1.5 ev. -- Yu.N. Rufov

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

POLAND/Electricity - Semiconductors G-3

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 8555

Author : Deren J., Haber J.
Inst : Institute of Physical Chemistry, Polish Academy of Sciences, Krakow, Poland

Title : Chemisorption of Oxygen and Electric Conductivity of ZnO.

Orig Pub : Bull. Acad. polon. sci. Ser. sci. chim., geol. et geogr., 1958, 6, No 4, 251-256, XIX

Abstract : An explanation is proposed for the electric properties of ZnO. The properties of ZnO at temperatures below 700° C are due above all to electronic processes in the surface layers of the crystallites, on which chemisorption of oxygen takes place. The change in the equilibrium state of chemisoprtion, and also the processes that take place in the surface layer, namely the diffusion of the zinc ions and the superstructures that add on to the lattice, are the causes of the irreversible changes in the conductivity, observed in the temperature region from 20 to 450°C. -- Author's

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

J. DEREN

Distr: LE3c Z7

Type of semiconductor of α-Ag_2S resulting during the sulfurization of silver. J. Deren, J. Haber, S. Mrowec, and T. Werber (Acad. Krakow, Poland). *Naturwissenschaften* 45, 161(1958).—After the sulfurization of Ag by liquid S two zone boundaries Ag_2S/Ag and Ag_2S/S liquid can be observed. Both zones are n-type semiconductors. Excess S in the neighborhood of the phase boundary Ag_2S/S is present in form of atoms or mols. F. Schossberger

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Country : GDR
Category : Physical Chemistry - Kinetics. Combustion. Explosions. Topochemistry. Catalysis.
Abs. Jour : RZhKhim., No 13, 1959 45161

Author : Bielanski, A., Deren, J., Haber, J., and Polaczkowa, E.
Institut. : Not given
Title : Changes in Electric Conductivity Observed During the Conversion of a Mixture of Zinc and Chromium Oxides Into Spinel
Orig Pub. : Z anorg u allgem Chem, 79r, 30 5-6,(1958)

Abstract : The authors have studied the dependence of the logarithm of the electric conductivity (σ) of pressed mixtures of powdered ZnO and Cr_2O_3 (1 : 1 mol ratio) which have not been subjected to preliminary heat treatment on 1/T (T in °K). The conductivity-temperature characteristic obtained when the temperature is raised from 100 to 700° does not coincide with the corresponding characteristic obtained for the same temperature interval by lowering the temperature of the mixture from 700 to 100°. A preliminary sintering of the oxide mixtures at 500° produces a marked increase

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

Country : GDR

Category : Physical Chemistry - Kinetics. Combustion. Explosions. Topochemistry. Catalysis.

Abs. Jour : RZhKhim., No 13, 1959 45161

Author :

Institut. :

Title :

Orig Pub. :

Abstract : in σ and a lowering of the energy of activation of σ. An increase in the preliminary sintering temperature T_s has little effect on σ for $500 < T_s < 600°$, leads to a marked decrease in σ at $650 < T_s < 850°$, and has no effect on σ when the T_s is increased further from 800 to 1,100°; the energy of activation of σ remains practically unchanged when T_s is increased from 500 to 1,100°. The above results and the data obtained by the authors on the dependence of the σ of each of the two oxides and of their mixtures on the O_2 pressure at various temperatures, as well as x-ray and thermographic data and microscopic studies of the

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EAST GERMANY/Electricity - Semiconductors. G

Abs Jour : Ref Zhur Fizika, No 4, 1960, 9088

Author : Deren Jerzy, Haber Jerzy, Wilkova Teresa

Inst : Academy for Mining and Metallurgy, Krakow, Poland

Title : Investigation of Electric Conductivity of ZnO.

Orig Pub : Z. Phys., 1959, 155, No 4, 453-464

Abstract : In the temperature interval 100 -- 700° C, an investigation was made of the electric conductivity (σ) of ZnO in vacuum and in an air atmosphere. The measurements of σ were carried out on pressed tablets by the Miller method at frequencies up to 160 kcs. The samples were prepared by roasting at 600° C either $Zn(OH)_2$, or zinc oxalate. It is established that the preliminary sintering in air up to 1000° C does not change the temperature dependence of σ . As the sintering temperature

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EAST GERMANY/Electricity - Semiconductors. G

Abs Jour : Ref Zhur Fizika, No 4, 1960, 9088

increases above 1000° C, a sharp change is observed in the dependence $\sigma = \sigma$ (T). In this case the ln σ vs 1/T dependence is represented in the form of two lines with slopes corresponding to activation energies of 0.2 (up to 450° C) and 1.5 ev (>450° C). When the specimen is sintered below 1000° C, the temperature variation of σ has a complicated form, determined by the surrounding atmosphere and by the prior heat treatment. The results obtained are explained if it is assumed that the following is the mechanism of the decomposition of ZnO on the surface: $ZnO \rightleftarrows Zn + (1/2) O_2$. As a result of this, an excess of Zn is produced on the surface layer (up to 450° C). At temperatures above 450° C, this excess is distributed through diffusion uniformly over the entire volume. Upon adsorption of O_2, this excess Zn participates in the superstructure for the lattice. The enrichment of the surface is also

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EAST GERMANY/Electricity - Semiconductors. G

Abs Jour : Ref Zhur Fizika, No 4, 1960, 9088

due to the drawing of the Zn^{2+} ions by the field, these ions being produced in the layer next to the surface when the surface is charged by the adsorption of O_2. -- Yu.N. Rufov

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

POLAND/Electricity - Semiconductors. G

Abs Jour : Ref Zhur Fizika, No 4, 1960, 9091

Author : Deren J., Polaczkowa, E.
Inst : -
Title : Investigations of the Electronic Properties of Tungsten Trioxide. I. The Electric Conductivity of Tungsten Trioxide Within the 100° -- 700° C Temperature Range.

Orig Pub : Bull. Acad. polon. sci. Ser. sci. chim., geol. et georgr., 1959, 7, No 5, 313-320

Abstract : Investigations are made of the electric conductivity of WO_3 on the temperature in the interval 100 -- 700° C. It was found that in all the investigated intervals, the electric conductivity cannot be expressed by the equation $\sigma = \sigma 0 \exp (OB/T)$. There exists a limit (below 350° C) when as the temperature increases, σ reaches first a maximum, then a minimum, after which a further increase occurs. The investigation of many factors (composition

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of the atmosphere above the oxide, degree of sintering, etc.) on the nonlinear variation of the function log σ =1/T is investigated.

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREN, J.

Distr: 4E2c

Investigations of the electronic properties of tungsten trioxide. I. The electric conductivity of tungsten trioxide within the temperature range of 100-700°. J. Deren and E. Polaczkowa (Akad. Górniczo-Hutnicza, Kraków, Poland). *Bull. acad. polon. sci., Sér. sci., Chim., géol. et géograph.* 7, 313-20(1959)(in English); cf. *CA* 52, 15991*cf.*—The elec. cond., σ, of polycryst. WO_3 was detd. (cf. *loc. cit.*) at 100° to 700°, and interpreted in terms of log σ vs. $1/T$ curves, T being the abs. temp.—Within the range of 100 to 350°, nonsintered samples gave 2 different curves on heating and cooling with a max. and a min., resp., these being reproduced in the reverse order if the sample was left for 2 days and only that of cooling being reproduced if the sample was immediately subjected to the next expt. Within the range of 350 to 700°, the single curve consisted of 2 straight sections of activation energies, E, 2.5 and 1.88 e.v. After sintering at more than 1000°, heating and cooling curves showed min. at about 300° and straight-line sections from 100 to about 220° of E of 0.41 and 0.9 e.v., resp. These curves were notably altered by lowering the air pressure or adding H_2O, CO_2, or EtOH vapors. The pressure dependence was attributed to the displacement of the $WO_3 = W^{6+} + 6e + 1.5O_2$ equil. II. Current versus voltage characteristics of tungsten trioxide within the temperature range of 100-700°. *Ibid.* 321-5.—Current-voltage characteristics at 1 kc. frequency were linear for samples kept in air contg. water or at less than 0.1 mm. Hg air pressure; linear within 350-700° and nonlinear with an inflection point within the range of 100-350°, for samples sintered or kept at pressures of 0.1-1 mm. Hg.; and linear within the range of 350-700°, with hysteresis loops within the range of 225-350°, and nonlinear with inflection within the range of 100-225°, for nonsintered samples kept at 1 atm. air pressure or in air contg. CO_2 or EtOH. A similar pattern was obtained with d.c. The curve of dielec. const. against $1/T$ is given; it showed, in disagreement with Sawada (*J. Phys. Soc.* (Japan) 11, 1237(1956)), 3 sections corresponding to the ranges of 100-300, 300-500, and 500-700°, the last 2 being linear. Chemisorption is discussed. III. The influence of surface processes on the electric conductivity of WO_3. *Ibid.* 327-32.—The previous results can be interpreted by assuming that WO_3 is an n-type semiconductor at lower temps. and an intrinsic semiconductor at higher temps. Chemisorption and the equil. between WO_3, W, O, and W^{6+}, on grain surfaces, are discussed. I. Stecki

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DEREN, J.; POLACZKOWA, E.

Investigations on the electronic properties of tungsten trioxide. I. The electric conductivity of tungsten trioxide within the 100°-700 C temperature range. II. Current vs. voltage characteristics of tungsten trioxide within the 100°-700°C temperature range. III. The influence of surface processes on the electric conductivity of WO_3. Bul Ac Pol chim 7 no.5:313-332 '59. (EEAI 9:9)

1. Laboratory of Surface Phenomena (Cracow), Institute of Physical Chemistry, Polish Academy of Sciences and Department of Inorganic Chemistry, School of Mining and Metallurgy, Cracow. Presented by B.Kamienski.

(Tungsten oxides) (Electric conductivity)

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREŃ, J.

Distr: 4E3d

Electric conductivity and chemisorption on nickel oxide catalyst. A. Bielański, J. Deren, J. Haber, J. Słoczyński, and T. Wilkowa (Akad. Górniczo-Hutnicza, Kraków, Poland). *Bull. acad. pol. sci., sér. sci., Chim., géol. et géograph.* 7, 333-8(1959)(In English).—Elec. cond., σ, of NiO catalyst was measured before and after EtOH dehydrogenation effected in a vapor stream of 20% EtOH + 80% H_2O mixt. at 10 mm. Hg and at 125-325° (*CA* 51, 14393*d*). Curves of log σ increments *vs.* $1/T$, where T is abs. temp., are given and discussed. The effect of H or AcH on σ was examd. The lowering of σ in the course of the reaction is due to covering of the catalyst surface by AcH. J. Stecki

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1-BW(BW)
1-JOJ(NB)

1. Lab. of Surface Phenomena, Inst. Physical Chem.

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BIELANSKI, A.; DEREN, J.; HABER, J.; WILKOWA, T.

The electroconductivity of NiO catalysts in the course of dehydrogenation of aliphatic alcohols. Bul Ac Pol chim 7 no.5:339-343 '59. (EEAI 9:9)

1. Laboratory of Surface Phenomena, Institute of Physical Chemistry, Polish Academy of Sciences and Department of Inorganic Chemistry, School of Mining and Metallurgy, Cracow. Presented by B.Kamienski.
(Nickel oxides) (Catalysts) (Electric concuctivity)
(Methanol) (Dehydrogenation) (Ethyl alcohol)
(Isopropyl alcohol) (Butyl alcohol) (Acetone)

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1- BW (BW)
2- JAJ (NB) (May)

Mechanism of the catalytic dehydrogenation of alcohols on NiO. A. Bielański, J. Dereń, and J. Haber (Akad. Górniczo-Hutnicza, Kraków, Poland). *Bull. acad. polon. sci., Ser. sci., Chim., géol. et géograph.* 7, 345-50(1959)(in English).; cf. preceding abstr.—The mechanism of dehydrogenation is discussed in terms of the reported expts. Evidence is given to support the view that the desorption of the product, ketone or aldehyde, is the rate-controlling process. I. Stecki

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Deren, J.

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Akademiya nauk SSSR. Institut fizicheskoy khimii

Problemy kinetiki i kataliza. [t] 10: Fizika i fiziko-khimiya kataliza (Problems of Kinetics and Catalysis. [vol.] 10: Physics and Physico-Chemistry of Catalysis) Moscow, Izd-vo AN SSSR, 1960. 461 p. Errata slip inserted. 2,600 copies printed.

Eds.: S.Z. Roginskiy, Corresponding Member of the Academy of Sciences USSR, and O.V. Krylov, Candidate of Chemistry; Ed. of Publishing House: A.L. Bankvitser; Tech. Ed.: G.A. Astaf'yeva.

PURPOSE: This collection of articles is addressed to physicists and chemists and to the community of scientists in general interested in recent research on the physics and physical chemistry of catalysis.

COVERAGE: The articles in this collection were read at the conference on the Physics and Physical Chemistry of Catalysis organized by the Otdel khimicheskikh nauk AN SSSR (Section of Chemical Sciences, Academy of Sciences USSR) and by the Academic Council on the problem of "the scientific bases for the selection of catalysts." The Conference was held at the Institut fizicheskoy khimii AN SSSR (Institute of Physical Chemistry of the AS USSR) in Moscow, March 20-23, 1958. Of the great volume of material presented at the conference, only papers not published elsewhere were included in this collection.

Koutecký, J. [Czechoslovak Academy of Science, Institute of Physical Chemistry, Prague]. On the Theory of Chemisorption and of Surface States 34

Bielański, Adam, J. Deren, and J. Haber [Mining and Metallurgical Academy, Cracow]. Investigation of Electric Conductivity of Semiconductor Catalysts 37

Kogan, Sh. M., and V.B. Sandomirskiy [Department of Physics of Moscow State University, Institute of Physical Chemistry AS USSR]. Isotherms and Adsorption Heats in the Electron Theory of Chemical Adsorption 58

Vol'kenshteyn, F.F., and V.B. Sandomirskiy [Institute of Physical Chemistry AS USSR]. Effect of an External Electric Field on the Adsorptive Capacity of a Semiconductor 61

Kogan, Sh. M., and V.B. Sandomirskiy [Institute of Physical Chemistry AS USSR, Department of Physics of Moscow State University]. Measurement of Contact Potential of a Semiconductor as a Method of Detecting the Various Charge States of Particles Adsorbed on it 62

Popovskiy, V.V., and G.K. Boreskov [Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva, Moscow Chemical Technology Institute imeni D.I. Mendeleyev]. Catalytic Activity of the Metal Oxides of the 4th Period in Relation to the Oxidation Reaction of Hydrogen 67

Keyyer, N.P. [Institute of Physical Chemistry AS USSR]. Nature of the Heterogeneity of the Active Surface of Semiconductor Contacts 73

Chizhikova, G.I., and N.P. Keyyer [Institute of Physical Chemistry AS USSR]. Regularities in the Mechanism of Chemical Adsorption and Catalysis over Solid Solutions of Zinc Oxide 77

Kutseva, L.N., and N.P. Keyyer [Institute of Physical Chemistry AS USSR]. Investigation of Chemical Adsorption of Gases on Nickel Oxide and Its Solid Solutions 82

Korsunovskiy, G.A. Mechanism of Electron Exchange in the Photooxidation of Water Over Semiconductors 87

Yezikeyev, E.Kh. [Institute of Physical Chemistry AS USSR]. Study of the Surface Charge of Oxide Semiconductor Catalysts During Adsorption 88

Ivanovskiy, F.O., G.Ye. Brande, T.A. Semenova, and B.G. Lyudkovskaya [Gosudarstvennyy institut azotnoy promyshlennosti (State Institute of the Nitrogen Industry)]. Investigation of Zinc, Chromium, and Copper Oxide Base Catalyst for the Conversion of Carbon Monoxide 90

Rubinshteyn, A.M., V.A. Akimov, and A.A. Slinkin [Institute of Organic Chemistry of the AS USSR]. Roentgenographic and Magnetochemical Investigation of Simultaneously Precipated NiO - Al_2O_3 Catalysts 95

Goryunova, N.A. [Physicotechnical Institute of the AS USSR]. Type of Bond and Properties of Semiconductors of the Crystallochemical Group, Diamond - Zinc Blende - Wurtzite 96

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DEREŃ, J.

Distr: 4E3d

Electric conductivity of the NiO-catalyst during the oxidation of CO to CO_2. A. Bielański, J. Deren, J. Haber, and J. Słoczyński (Akad. Berg u. Hüttenwesen, Kraków, Poland). *Z. physik. Chem.* (Frankfurt) 24, 345-58(1960).—Alterations of the elec. cond. of the p-semiconducting NiO catalyst during the catalytic oxidn. of CO at 150-300° were examd. and the kinetics of the reaction were studied. The observed alterations of the cond. of the catalyst and the activation energy of the process depend on the compn. of the reacting CO/O_2 mixt. With an excess of O the reaction proceeds according to $CO_{gas} + {}^1/_2\, O_{2\,ads.} = CO_{2\,gas}$. At O deficiency a stepwise desorption of O and adsorption of CO occurred. The kinetics of the oxidn. can be expressed in terms of the Roginskii-Zel'dovich equation (*CA* 29, 7776[1]). Friedrich Epstein

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Deren, J.

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The change of electrical conductivity during the change of a mixture of magnesium oxide and chromium oxide into the spinel. A. Bielański, J. Deren, and Z. Barutowicz (Akad. Berg- u. Hüttenwesen, Krakow, Poland). *Z. anorg. u. allgem. Chem.* 355, 169-77(1960); cf. *CA* 52, 16111*d*. —The elec. cond. of Cr_2O_3 is detd. over the range 100-800°. The elec. cond. of 1:1 $MgO-Cr_2O_3$ mixts., some of which were sintered at temps. in the 500-1300° range, is detd. over the range 100-800°. The samples are also examd. by x-ray diffraction and by detn. of the "free MgO" (sol. in HCl) and of the Cr(VI) present. The results are explained by the following assumptions: up to 800° the effects are due to surface changes caused chiefly by oxidn. of Cr(III) to Cr(VI) (as $MgCrO_4$); from 800° to 1000° spinel ($MgCr_2O_4$) forms rapidly, possibly by decompn. of $MgCr_2O_4$, while oxidn. of Cr(III) proceeds more slowly (complicated decompn. mechanisms and recrystn. effects may be factors here); from 1000 to 1200° the causes of the peculiar effects observed in the 800-1000° range vanish; above 1200° only $MgCr_2O_4$ is present. Richard H. Jaquith

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DEREN, J.; HABER, J.; SLOCZYNSKI, J.

The role of oxygen in the changes of electric conductivity due to the chemisorption of hydrogen and organic reactants. Bul chim PAN 8 no.7:391-397 '60. (EEAI 10:9/10)

1. Laboratory of Surface Phenomena, Institute of Physical Chemistry, Polish Academy of Sciences and Department of Inorganic Chemistry, School of Mining and Metallurgy, Cracow. Presented by B. Kamienski.

(Oxygen) (Electric conductivity) (Hydrogen)
(Chemical reactions)

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREN, J.; HABER, J.; WILKOWA, T.

The influence of oxygen on the electric conductivity and catalytic activity of nickel oxide. Bul chim PAN 8 no.7:399-404 '60.
(EEAI 10:9/10)

1. Laboratory of Surface Phenomena, Institute of Physical Chemistry, Polish Academy of Sciences and Department of Inorganic Chemistry, School of Mining and Metallurgy, Cracow. Presented by B. Kamienski.

(Oxygen) (Electric conductivity) (Catalysis)
(Nickel oxide)

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREN, Jerzy; HABER, Jerzy; SLOCZYNSKI, Jerzy

The determination of soichiometric composition of NiO by the modified Bunsen-Rupp method. Chem anal 6 no.5:659-662 '61.

1. Department of Inorganic Chemistry, School of Mining and Metallurgy, Cracow and Laboratory of Surface Phenomena, Institute of Physical Chemistry, Polish Academy of Sciences, Cracow.

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREN, J.; HABER, J.; SLOCZYNSKI, J.

Influence of the mode of preparation of nickel oxide on its chemical and electric properties. Bul chim PAN 9 no.4:245-252 '61

1. Laboratory of Physicochemical Surface Phenomena, Institute of Physical Chemistry, Polish Academy of Sciences and Department of Inorganic Chemistry, School of Mining and Metallurgy, Cracow. Presented by B. Kamienski.

(Nickel oxides)

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREN, Jerzy; HABER, Jerzy; WILKOWA, Teresa

Investigation on the electric conductivity of zinc oxide.
Ceramika 32 no.4:103-123 '61.

1. Katedra Chemii Nieorganicznej Akademii Gorniczo-Hutniczej, Krakow.

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREN, Jerzy; FRYT, Ewa

Iodometric method of determination of excess zinc in zinc oxide. Chem anal 8 no.3:365-367 '63.

1. Department of Inorganic Chemistry, School of Mining and Metallurgy Laboratory of Surface Phenomena, Institute of Physical Chemistry, Polish Academy of Sciences, Krakow.

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

DEREN, J.; POLACZKOWA, E.

Investigations on the electronic properties of tungsten trioxide. Pt. 4. Bul chim PAN 12 no. 3:189-196 '64.

1. Department of Surface Phenomena, Institute of Physical Chemistry, Polish Academy of Sciences, Krakow, and Department of Inorganic Chemistry, School of Mining and Metallurgy, Krakow. Presented by B.Kamienski.

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