

ZASLAVSKIY, L.D., and YE. YE. SHIMAKOVSKAYA

Arteriografiia pri otmorozhenii u cheloveka. (Khirurgiia, 1945, no. 2, p. 30-33, 4 illus. on plate). Title tr.: Arteriography in frostbite of man.

Contains an account of the blood vessels based on X-ray arteriograms of the normal hand and foot, of such with second and third degree frostbite, and these with fourth degree frostbite.

Copy seen: DSG

SHIMALOV, V.T.

Unusual localisation of the nematode *Molinsus patens* Petrov,
1928 in the pancreas of the weasel (*Mustela nivalis* L.). Vestsi
AN BSSR. Ser. bial. nav. no.4:135 '62. (MIRA 17:8)

SHIMALOV, V.T.

Skrjabinogylus invasion in fur-bearing mammals of the family
Mustelidae in White Russia. Vestsi AN BSSR, Ser. biial. nav.
no.4:132-133 '63. (MIRA 17:8)

[Faint, illegible text]

of predatory mammals of White Russia in spreading some
infectious in man and domestic animals. Vestnik AN BSSR.
no. 1191 nov. no.1,120-123 '65. (MIRA 18:5)

SPILLOV, ... [Shymalov, V.K.]

Study of trematode fauna of predatory mammals of White Russia.

Vestsi AN BSSR Ser. bial. nav. no.3:135-137 '64

(MIRA 18:1)

SHIMALOV, V.T.

Cestodes of predatory mammals of White Russia. Dokl. AN BSSR
7 no.9:638-641 S '63. (MIRA 17:1)

1. Otdel zoologii i parazitologii AN BSSR. Predstavleno
akademikom AN BSSR R.S. Chebotarevym.

SHIMAN. A. M., Cand Biol Sci -- (diss) " Arteries of the
muscles of the ~~brachial~~^{gluteal} and the ~~postero-~~^{postero-} femoral group in
agr animals." Mos, 1958. 16 pp. (Min of Agr USSR. Mos Vet
Acad) 140 copies.

(KL, 12-58, 97)

ALAYEV, B.S.; MAN'KOVSKAYA, N.K.; SHIMAN, A.M.; BERLIKOVA, L.S., red.;
GOTLIB, E.M., tekhn.red.

[Manufacture of synthetic fatty acids] Proizvodstvo sinte-
ticheskikh zhirnykh kislot. Moskva, Pishchepromizdat, 1960.
122 p. (MIRA 13:7)

(Acids, Fatty)

VELIZAR'YEVA, N.I.; RAPOPORT, I.B.; MAN'KOVSKAYA, N.K.; BARSEGYAN, I.B.;
SHIMAN, A.M.; BABAYEV, V.I.; SUKHOTERIN, I.S.

Industrial experience in the oxidation of paraffins from sulfur-bearing crudes. Khim.i tekh.topl.i masel 5 no.7:11-16 JI '60.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke
nefti i gazov i polucheniyu iskusstvennogo zhidkogo topliva,
NII SZhIMS i Shebekinskiy kombinat sinteticheskikh zhirnykh kislot
i zhirnykh spirtov.

(Paraffins)

(Oxidation)

SOLKAN, I.

Republic conference on the control of tuberculosis. Zdrav.
to . 3 no.4:65-66 Apr '62. (MIRA 15:0)
(TUBERCULOSIS—PREVENTION)

SHIMAN, L.M.

Some elements of the microclimate of trenches. Trudy Bot. sada AN
URSR 4:137-147 '57. (MLRA 10:8)
(Kiev--Lemon) (Meteorology, Agricultural)

SHIMAN, L.M.

Brief physico-geographical description of the Botanical Garden
of the Academy of Sciences of the Ukrainian S.S.R. Trudy Bot.
sada AN URSS 5:70-87 '58. (MIRA 12:2)
(Kiev--Botanical Gardens)

BURACHINSKIY, O.M. [Burachyn'skiy, O.M.]; SHIMAN, L.M. [Shyman, L.M.]

Spring "feeding" of woody plants. Visnyk Bot.sada AN URSS no.1:
21-31 '59. (MIRA 13:8)
(Woody plants) (Plants, Motion of fluids in)

SHIMAN, L.M. [Shyman, L.M.]

Some features of the wind cycles in the Botanical Garden of the
Ukrainian Academy of Sciences. Trudy Bot.sada AN URSR 6:
122-129 '59. (MIRA 13:5)
(Kiev--Botanical gardens) (Winds)

1. SHIMAN, V. A.; P. S. SHELEST.

2. USSR (600)

4. Agriculture

7. "Krasnaia Zaria Collective Farm." Dost. sel'khoz, no. 3, 1952

9. Monthly List of Russian Accessions, Library of Congress, January, 1953. Unclassified.

SHIMAN, Ye. I.

Case of diabetes insipidus in a 5-year-old child following pituitary tuberculosis. Ped., akush. i gin. 20 no.4:12-14 '58. (MIRA 13:1)

1. Detskoye otdeleniye (zav. - G.A. Korniyenko) Poltavskoy oblasti
bol'nitsy (glavnyy vrach V.Kh. Shiray).
(DIABETES) (PITUITARY BODY--TUBERCULOSIS)

TYUDESH, F. [Tudos, F.]; SHIMANDI, L. [Simandi, L.]

Kinetics of inhibition of radical polymerization. Part 6:
Effect of p-xyloquinone on the initiated polymerization of
styrene. Vysokom.soed. 4 no.9:1425-1430 S '62. (MIRA 15:11)

1. Tsentral'nyy nauchno-issledovatel'skiy institut khimii
Akademii nauk Vengrii, Budapesht.
(Styrene polymers)
(Benzoquinone)

TYUDES, F. [Tudos, F.]; SHIMANDI, L. [Simandi, L.]; AZORI, M.

Kinetics of inhibition of radical polymerization. Part 7:
Effect of halogen-substituted quinones on the initiated
polymerization of styrene. Vysokom.soed. 4 no.9:1431-1444
S '62. (MIRA 15:11)

1. Tsentral'nyy nauchno-issledovatel'skiy institut khimii
Akademii nauk Vengrii, Budapesht.
(Styrene) (Polymerization) (Quinone)

L 07015-67 EWP(j) RM

ACC NR: AT7001012

SOURCE CODE: HU/2502/65/046/002/0137/0149

AUTHOR: Shimandi, L. (Dr.), and Nagy, Ferenc--Nad', F. (Dr.)

23
B+1

ORG: Central Research Institute for Chemistry at the Hungarian Academy of Sciences
(Original-language version not given) in Budapest

"Homogeneous Catalytic Activators of the H₂ Molecule. Part 4: Kinetics and Mechanism of the Homogeneous Hydrogenation of Cinnamic Acid Catalyzed by Pentacyanocobaltate(II)"

Budapest, Acta Chimica Academiae Scientiarum Hungaricae, Vol 46, No 2, 5 Dec 1965, pp 137-149.

Abstract: [English article; authors' English summary, modified] According to the mechanism proposed for the reaction of homogeneous hydrogenation of cinnamic acid catalyzed by pentacyanocobaltate(II), hydrogenation takes place via two-step hydrogen atom transfer with the intermediate formation of free radicals. The reaction sequence resembles the Rideal mechanism known from heterogeneous catalysis. Orig. art. has: 5 figures, 33 formulas and 4 tables. [JPRS: 33,906]

TOPIC TAGS: hydrogenation, chemical kinetics, free radical, organocobalt compound

SUB CODE: 07 / SUBM DATE: 20Mar65 / ORIG REF: 002 / OTH REF: 008

Card 1/1 vmb

0424 0010

L 07016-67 EWP(j) RM
ACC NR: AT7001011

SOURCE CODE: HU:2502/65/046/002/0101/0114

AUTHOR: Shimandi, L. (Dr.); and Nagy, Ferenc--Nad', F. (Dr.)

22
BT1

ORG: Central Research Institute for Chemistry at the Hungarian Academy of Sciences (Original-language version not given) in Budapest

"Homogeneous Catalytic Activators of the H₃ Molecule. Part 3: Kinetic and Polarographic Studies on the Reaction of the Pentacyanocobaltate(II) Ion with Molecular Hydrogen"

Budapest, Acta Chimica Academiae Scientiarum Hungaricae, Vol 46, No 2, 5 Dec 1965, pp 101-114.

Abstract: [English article; Part 2 of the series was published Ibid., Vol 38, 1963, p 373] The reaction of pentacyanocobaltates(II) with molecular hydrogen did not change the state of oxidation of the central ion. It led, instead, to the formation of a stabilized hydrogen atom. The apparent rate constants of the hydrogen-uptake reaction were calculated and a reaction mechanism was proposed on the basis of the kinetic and polarographic data presented.

Orig. art. has: 6 figures, 36 formulas and 27 tables. [JPRS: 33,906]

TOPIC TAGS: polarographic analysis, chemical kinetics, organocobalt compound

SUB CODE: 07 / SUBM DATE: 16Mar65 / ORIG REF: 001 / OTH REF: 013

POLENSKA, Ye.; URBANCHIK, R.; SHIMANE, Z.; KRAUS, P.

Use of the niacin test for the differential diagnosis of various
mycobacteria. Probl. tub. no.2:93-96 '62. (MIRA 15:2)

1. Iz Nauchno-issledovatel'skogo instituta tuberkuleza (dir. -
dotsent R. Krzhivink[R. Krivnik]), Praga.

(MYCOBACTERIUM TUBERCULOSIS) (NICOTINIC ACID)

SHIMANEK, V. [Simanek, V.]

Hydrogeochemical data from some areas of Vienna Basin. Prace
ust naft 18:47-48 '61.

SHIMANIS, I.M.

Mounted hydraulic drills used in improving spotty vineyards. Trakt.
i sel'khoz mash. 31 no.1:34-35 Ja '61. (MIRA 14:1)

1. Vserossiyskiy nauchno-issledovatel'skiy institut mekhanizatsii
i elektrifikatsii sel'skogo khozyaystva.
(Boring machinery) (Viticulture)

SHIMANIUK, Andrey Petrovich; FERREPECHIN, B.M., redaktor; SHITS, V.P.,
tekhnicheskii redaktor

[Reforestation in concentrated cut-over pine areas in the European
taiga zone of the U.S.S.R.] Vozobnovlenie lesa na kontsentrivovan-
nykh vyrubkakh v sosnovykh lesakh taizhnoi zony evropeiskoi chasti
SSSR. Moskva, Goslesbumizdat, 1956. 88 p. (MLRA 9:7)
(Reforestation) (Pine)

USSR/Farm Animals. Cattle. Q

Abs Jour: Ref Zhur-Biol., No 17, 1958, 78693.

Author : ~~Shiron, M. A.~~
Inst : Kuban Agricultural Institute.
Title : ~~Physiological and Biological~~ Features of Black-
Spotted Cattle of the Transvolga Region.

Orig Pub: Tr. Kubansk. s.-kh. in-ta, 1957, vyp. 3(31), 101-121.

Abstract: Fluctuations of body temperature, of pulse rate, quantity of respiratory movements, arterial and venous blood pressure, the blood picture in winter and summer, ~~and depending on~~ depending on the number of calvings, live weight, type of constitution, condition of beefiness, pro-

Card : 1/2

USSR/Farm Animals. Cattle.

Q

Abs Jour: Ref Zhur-Diol., No 17, 1958, 78693.

ductivity, sex and age were studied. --
A. D. Musin.

Card : 2/2

11

GAI AIEV, N.Z.; SHEMAN, M.I.

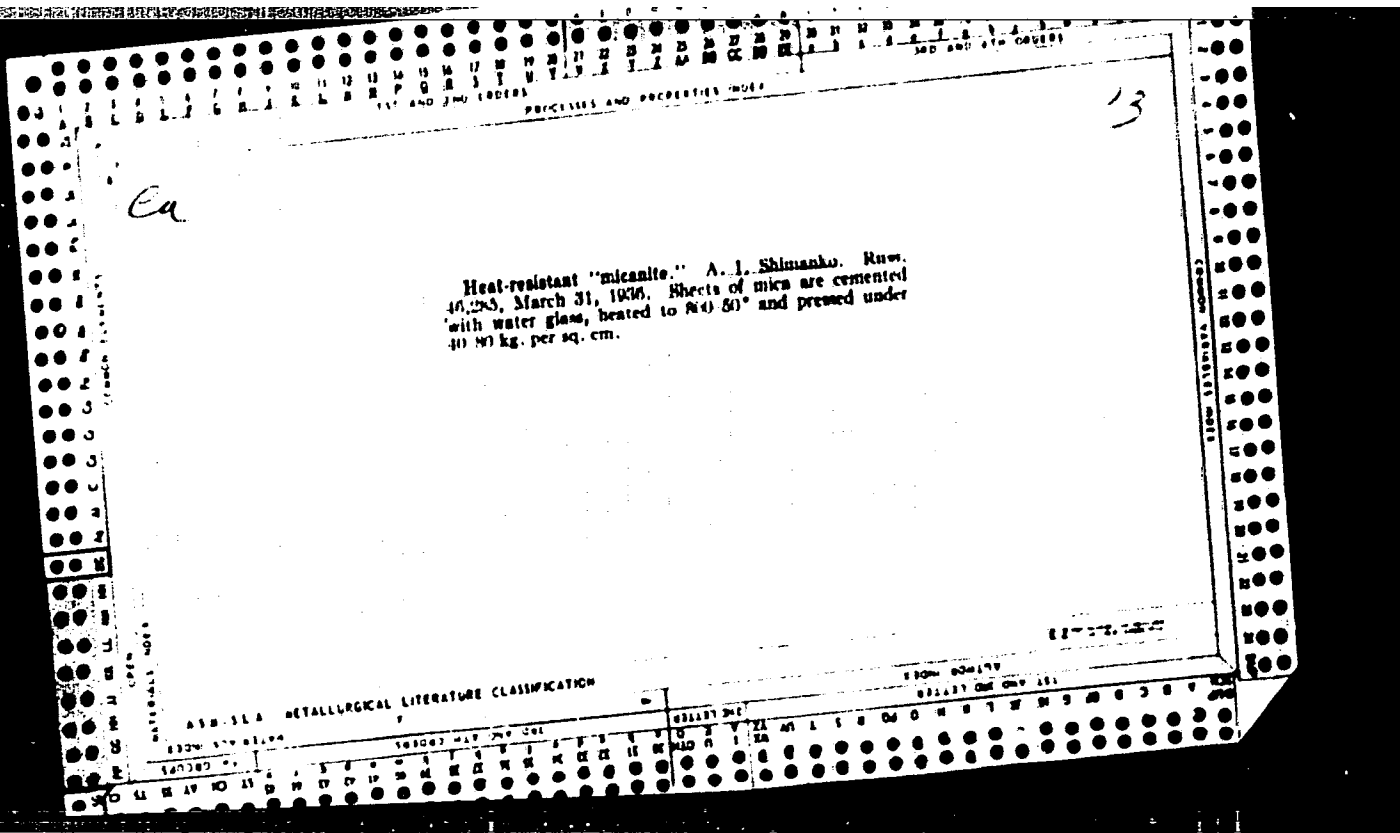
Influence of the extent of ground loosening on the ore yield under
caved rock. Zap. MGU 49 no.1:21-27 '64.

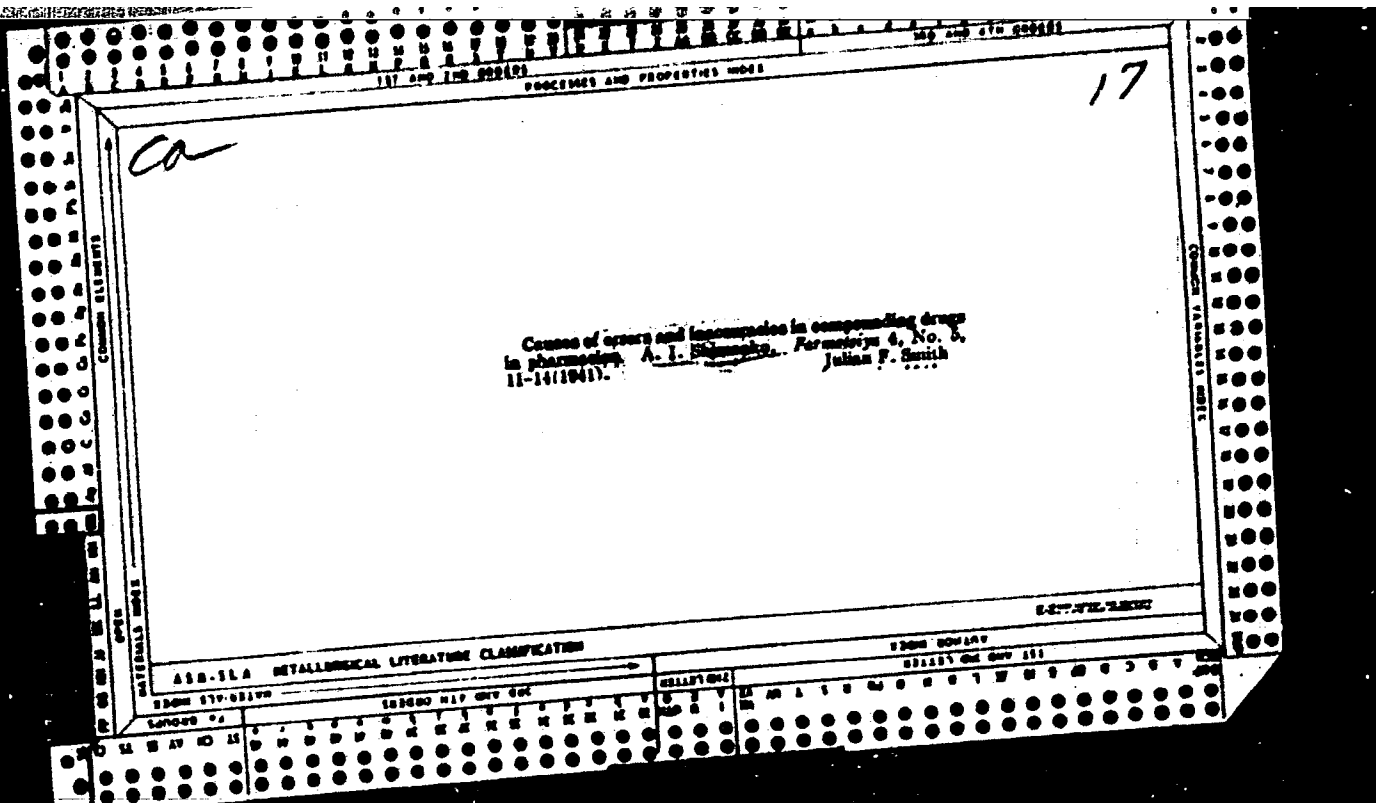
(MIRA 18:8)

MARCHENKO, A.A., kand. biol. nauk, otv. red.; SHIMAN, S.A., zam.
red.; NEOFITOVA, V.K., kand. biol. nauk, red.; MIKHALEV,
Ya.K., kand. sel'khoz. nauk, red.; VOROBIEV, P.S., red.;
TIMOSHCHUK, R.S., tekhn. red.

[More production from a hectare] Bol'she produktsii s
gektara zemli; sbornik nauchnykh rabot. Minsk, Gos.izd-
vo sel'khoz.lit-ry, 1963. 138 p. (MIRA 17:1)

1. Mogilevskaya oblastnaya sel'skokhozyaystvennaya opyt-
naya stantsiya. (Mogilev Province--Agriculture)





SHIMANKO, A. I.

Pharmacy

Innovations and rationalization in pharmacy. Apt. delo no. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, November, 1952.

UNCLASSIFIED

SHIMANKO, A.I., kandidat farmatsevticheskikh nauk.

Popular science films as a propaganda means in pharmacy. (MLRA 7:4)
Apt.delo 3 no.2:48-49 Mr-Ap '54.
(Pharmacy) (Moving pictures in education)

SHIMANKO, A.I.

Rationalization and inventions in pharmacy. Apt.delo 3 no.3:
40-42 My-Je '54. (MIRA 7:6)

1. Opyt Moskovskogo gorodskogo otdeleniya glavnogo aptechnogo upravleniya RSFSR.
(PHARMACY,
*in Russia, inventions & rationalization of technics)

SHIMANKO, A.I., kandidat farmatsevticheskikh nauk

Study of prescriptions in Moscow pharmacies. Apt.delo 4 no.2:16-
19 Mr-Ap '55. (MLRA 8:5)

1. Iz Nauchno-issledovatel'skoy aptechnoy stantsii (NIAS) Moskov-
skogo gorodskogo otdeleniya Glavnogo aptechnogo upravleniya RSFSR.
(PRESCRIPTIONS,
in Russia)

SHIMANKO, A.I., kandidat farmatsevticheskikh nauk; KATS, A.M., provizor

Mechanized process for preparing some drugs. Apt.delo 5 no.3:
46-48 My-Je '56. (MLRA 9:8)

1. Iz Nauchno-issledovatel'skoy aptechnoy stantsii (NIAS) Moskov-
skogo gorodskogo otdeleniya Glavnogo aptechnogo upravleniya RSFSR.
(DRUG INDUSTRY)

SHIMANKO, A.I., kandidat farmatsevticheskikh nauk; LOPATIN, P.V., provizor

Using the bactericidal action of ultraviolet rays in pharmacies.
Apt.delo 5 no.5:13-20 S-0 '56. (MLRA 9:11)

1. Iz Nauchno-issledovatel'skoy aptechnoy stantsii Moskovskogo gorod-
skogo aptechnogo upravleniya Glavnogo aptekoupravleniya RSFSR (dir.
Ye.P.Yarantseva)

(ULTRAVIOLET RAYS--PHYSIOLOGICAL EFFECT)
(PHARMACY)

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SHIMANKO, ALEKSANDR IL'ICH

Organizatsiya Farmatsevticheskogo Dela (Organization of a pharmacy,
by) A. I. Shimanko i A. K. Mel'nichenko. Moskva, Medgiz, 1957.
293 P. Illus., Diagr., Tables.
Bibliographical Footnotes.

SHIMANKO, A.I., kand.farmatsevticheskikh nauk

Incorrectly written prescriptions. Apt.delo 6 no.3:37-41 My-Je '57.
(PRESCRIPTION WRITING) (MIRA 11:1)

SHIMANKO, A.I., kand. farmatsevticheskikh nauk

Pharmaceutical terminology. Apt. delo 8 no. 2: 44-46 Mr-Ap
'59. (MIRA 12:5)

(PHARMACY--TERMINOLOGY)

SHIMANKO, A.I., kand.farmatsevticheskikh nauk; KATS, A.M., provizor

Mechanization of the process of preparing some medicinal compounds.
Report No.2. Apt.delo 8 no.5:51-53 S-0 '59. (MIRA 13:1)

1. Iz Nauchno-issledovatel'skoy aptechnoy stantsii (NIAS) Moskovskogo
gorodskogo otdeleniya Glavnogo aptechnogo upravleniya RSFSR.
(TABLETS (MEDICINE))

LOPATIN, P.V.; SHIMANKO, A.I.

Sterilization of distilled water by ultraviolet irradiation in
drugstores. Apt.delo 8 no.6:48-50 N-D '59. (MIRA 13:4)

1. Iz Nauchno-issledovatel'skoy aptechnoy stantsii (NIAS) Moskov-
skogo gorodskogo aptechnogo upravleniya (dir. Ye.P. Yarantseva).
(WATER, DISTILLED--STERILIZATION)

SHIMANKO, A.I., kand.farmatsevticheskikh nauk

For innovation and efficiency in pharmacy. Apt. delo 9 no. 5:52-
54 S-0 '60. (MIRA 13:10)

(PHARMACY)

SHIMANKO, Aleksandr Il'ich; MBL'NICHENKO, Afanasiy Kondrat'yevich;
GUBOCHKINA, I.K., red.; BUL'DYAYEV, H.A., tekhn.red.

[Organization of pharmaceutical service] Organizatsiia
farmatsevticheskogo dela. Izd.2., perer. i dop. Moskva,
Medgiz, 1961. 355 p. (MIRA 14:12)
(PHARMACY)

SHIMANKO, I. I.

The therapeutic use of ultraviolet rays Moskva, 1948. 21 p.

SHIANKO, Prof. I. I.

"Diagnosing Perivisceritis," Sov. Med., No. 10, 1948; "Review of Sh. D. Koshkovskiy's Book 'Mycotics and Irritants,'" Arkhiv Patol., 10, No. 4, 1948; "Review of A. P. Parfenov's Book 'Injuring a Person by Ultraviolet Radiation,'" Sov. Med., No. 1, 1949.

SHIMANKO, I. I.

[Physiotherapy of surgical cases and of the results of injuries] Fizioterapiia khirurgicheskikh zabolevanii i posledstviia travmaticheskikh povrezhdenii. Moskva, 1952. 254 p. (MLRA 6:5)

(Physical therapy) (Wounds)

SHIMANKO, I.I.

late results of surgery in stomach cancer; district hospital data.
Khirurgiya 33 no.2:37-39 F '57. (MLRA 10:6)

1. Iz Yegor'yevskoy gorodskoy bol'nitsy (glavnyy vrach I.D.
Finkel'berg).
(STOMACH NEOPLASMS, surg.
late results (Rus))

SHIMANKO, I.I., TORGOVITSKAYA, A.I.

Course of experimental fractures following stimulation of the area of the peripheral nerve with a d'Arsonval current. Vop.kur.fizioter. i lech. fiz.kul't. 23 no.3:239-241 My-Je '58 (MIRA 11:7)

1. Iz Instituta skoroy pomoshchi imeni N.V. Sklifosovskogo (dir. M.M. Tarasov).

(ELECTROTHERAPEUTICS)

(FRACTURES)

SHIMANKO, I.I. (Moskva, I-45, Bol'shoy Sergiyevskiy per., d.5, kv.18)

Late results of using a mechanical vascular suture in the
surgical treatment of aneurysms with end-to-end anastomosis.
Nov. khir. arkh. no.2:58-63 Mr-Ap '60. (MIRA 14:11)

1. Institut skoroy pomoshchi imeni Sklifosovskogo (zav.klinikoy -
prof. P.I.Androsov). (ANEURYSMS) (BLOOD VESSELS-SURGERY) (SUTURES)

OSTROVSKAYA, I.M.; SHIMANKO, I.I.

Cerebral angiography in fresh closed cerebrocranial trauma.
Khirurgiia 36 no.6:80-84 Je '60. (MIRA 13:12)
(BRAIN--WOUNDS AND INJURY)

SHIMANKO, I. I.; OSTROVSKAYA, I. M. (Moskva)

Emergency x-ray diagnosis of intracranial hematomas in closed
cerebrocranial injuries. Klin. med. no.9:34-37 '61.
(MIRA 15:6)

1. Iz III khirurgicheskoy kliniki (zav. - chlen-korrespondent
AMN SSSR zasluzhennyy deyatel' nauki prof. D. A. Arapov) Moskovskogo
nauchno-issledovatel'skogo instituta skoroy pomoshchi imeni N. V.
Sklifosovskogo (dir. - zasluzhennyy vrach UkrSSR M. M. Tarasov,
glavnyy khirurg - zasluzhennyy deyatel' nauki prof. B. A. Petrov)

(HEMATOMA) (BRAIN--RADIOGRAPHY)
(BRAIN--WOUNDS AND INJURIES)

PRONICHEV, N.I.; SHIMANKO, I.I.

Surgical treatment of traumatic subcutaneous ruptures of the popliteal
artery. Vest. khir. 92 no.3:144-146 Mr '64. (MIRA 17:12)

L 28827-66 EWT(m)

ACC NR: AP6018667

SOURCE CODE: UR/0241/65/010/012/0057/0063

AUTHOR: Shimanko, I. I.

51
B

ORG: Surgical Clinic /headed by Corresponding member AMN SSSR, Honored scientist, Professor D. A. Arapov/, Institute of Emergency Care in, Sklifosovskiy (Khirurgeskaya klinika Instituta skoroy pomoshchi)

TITLE: Effect of ionizing radiation on the results of auto- and homovenous transplants of arteries

SOURCE: Meditsinskaya radiologiya, v. 10, no. 12, 1965, 57-63

TOPIC TAGS: ionizing radiation, radiation biologic effect, dog, radiation sickness, x ray irradiation, tissue transplant, histology

ABSTRACT: Laparotomies were performed on irradiated and control dogs, and auto- and homovenous transplants were sutured to the bisected arteries by means of a mechanical vessel-suturing machine. Acute radiation sickness was induced in the animals by subjecting them to the action of x-rays in doses of 500 r. Angiographic and clinical data (animal behavior, temperature of the extremities, and the peripheral pulse rate) served as controls in the postsurgical period. Histological examinations of the autovenous transplants in the control animals revealed rapid arterialization of the transplants, gradual formation of connective tissue with numerous vasa vasorum. Histological examinations of the autotransplants in the irradiated animals disclosed the same modifications as in the control animals. Foci of hemosiderin deposits, however, in the zone of the anastomosis as well as in the external sections of the transplant and artery, were noted.

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UDC: 616.13-089.844-06:617-001.287-089,168-092.9

L 28827-66

ACC NR: AP6018667

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These formations can be explained as being due to the increased vulnerability of vascular walls of the irradiated animals with the result that hemorrhaging occurs in the source of the surgery, and hemosiderin is precipitated. Histological examinations of homovenous transplants and the arteries in control animals revealed considerable structural modifications of the grafts. Hemorrhagic foci and leucocyte infiltration were found in the zone of anastomosis accompanied by expressed edema of the walls of the transplant and the artery. Occlusion of the grafts occurred in many cases. The structural modifications in the graft indicated the adverse reaction of the recipient organism to heterogeneous tissue. Examinations of the homovenous transplants in the irradiated animals disclosed no obstructions in the grafts, the formation of connective tissue in the zone of anastomosis, and the endothelium of the artery completely covering the transplant. The reduced incompatibility of the recipient organism with the heterogeneous tissue is thought to be the result of whole-body X-ray irradiation. /JPRST

SUB CODE: 06 / SUBM DATE: 17Apr65 / ORIG REF: 024 / OTH REF: 001

Card 2/2 CC

SHIMANKO, I.I.; SIMONYAN, K.S., red.; KOKIN, N.M., tekhn. red.

[Physical therapy of surgical diseases and of the sequelae
of injuries]Fizioterapiia khirurgicheskikh zabolovani i po-
sledstviu travmy. Moskva, Medgiz, 1962. 263 p.

(MIRA 16:1)

(PHYSICAL THERAPY)

(TRAUMATISM)

(SURGERY)

SHIMANKO, M.S., inzh.

Construction of the Rasvumchorr railroad tunnel. Transp. stroi. 12
no.2:23-26 F '62. (MIRA 15:7)
(Tunnels)

SHIMANKO, N. A.

"Investigation of the absorption spectra of certain polycyclic hydrocarbons in the ultraviolet range of the spectrum." Acad Sci USSR. Inst of Petroleum. Moscow, 1956. (Dissertation for the Degree of Candidate in Chemical Sciences).

SO: Knizhnaya letopis', No. 16, 1956

S. H. IMANKO, N. A.

5(3): 11(4) PAPER I BOOK REPERTORY 07/2000

Abadziya and USSR, Institut نفت

Trudy, 6, 12 (Translations of the Petroleum Institute, USSR, Academy of Sciences, Vol. 12) Moscow, Izd-vo AN SSSR, 1958, 395 p. Printed 1,700 copies printed.

M. I. S. S. Serdyukov, Professor, Ed. of Publishing House K. O. (Mysenerov) Tech. Ed.: V. V. Dolobova.

PURPOSE: The book is intended for scientists, engineers, and technicians in the petroleum industry.

CONTENTS: This collection of articles describes the results of studies on the chemistry and technology of petroleum and is conducted in the laboratories of the Petroleum Institute of the USSR, USSR, in 1958 and 1957. A few articles on petrochemical synthesis and technology of petroleum are included in the collection of articles. A list of publications published by the Institute of the Institute in 1956 and 1957 and a list of dissertations for the Doctor's and Candidate's degrees presented in 1956 and 1957 at open sessions of the Academic Council of the Petroleum Institute, Academy of Sciences, USSR, are given.

K. D. Zakharenko, P. V. Korovin, I. A. Masayev, and V. I. Shchekin. Change in the Activity of Silica Gel in the Chromatographic Separation of Hydrocarbons 25

Galkin, G. B., M. N. Eshakov, Yu. S. Pokrovskaya, and M. A. Shchegolev. Study of the Absorption Spectra of Some Cyclohexyl and Cyclohexyl Methane Derivatives in the Near Ultraviolet Region Card 2/3 30

Serdjukov, S. S., B. Ye. Serdyukov, and B. E. Dardok. Investigation of the Chemical and Physical Properties of High-Molecular Weight Hydrocarbons and Their Oxygens in Petroleum 65

Serdjukov, S. S., B. Ye. Serdyukov, A. D. Litvinovich, and V. A. Shchegolev. Some Petrochemical Properties of Petroleum Asphaltenes and Tar Solutions. Part 1A. 76

Serdjukov, S. S., and Yu. I. Gurilash. Composition of the Tar Fraction of Malchukovo Petroleum. Part 15 85

Serdjukov, S. S., and Yu. I. Gurilash. Low-Temperature Transformations of High-Molecular Weight Aromatic Hydrocarbons of Malchukovo Petroleum. Part 16 88

Serdjukov, S. S., Yu. I. Gurilash. Chemical Nature of Saturated High-Molecular Weight Hydrocarbons of Malchukovo (Dereznik) Petroleum. Part 17 102

Serdjukov, S. S., and Yu. I. Gurilash. Chemical Nature of Saturated High-Molecular Weight Hydrocarbons of Malchukovo (Dereznik) Petroleum. Part 18 117

Serdjukov, S. S., and A. A. Khibrikhina. The Chemical Nature of High-Molecular Weight Aromatic Hydrocarbons of Malchukovo (Dereznik) Petroleum. Part 19 136

Serdjukov, S. S., I. A. Buzikina, and Yu. V. Kuznetsov. Investigation of the Chemical Nature of High-Molecular Weight Condensed Diphenyl Aromatic Compounds of Malchukovo Petroleum by the Catalytic Hydrogenation Method in the Presence of Raney Ni. Part 20 147

Serdjukov, S. S., Yu. V. Kuznetsov, and I. A. Buzikina. Hydrogenation of High-Molecular Weight Condensed Diphenyl Aromatic Compounds of Malchukovo Petroleum in the Presence of a Ni₂-RHS - Al₂O₃ Catalyst under Mild Conditions. Paper 21 156

Serdjukov, S. S., I. A. Buzikina, and Yu. V. Kuznetsov. Hydrogenation of Tar Isolated from Malchukovo Petroleum. Paper 22 168

Serdjukov, S. S., I. A. Buzikina, P. M. Galich, L. I. Putina, B. E. Serdyukov, and M. I. Korovin. Effect of the Depth of Solvent Cracking on the Composition and Properties of Heavy Residual Petroleum Fractions. Part 23 175

Serdjukov, S. S., Yu. I. Gurilash, P. M. Galich, L. I. Putina, B. E. Serdyukov, and M. I. Korovin. Effect of the Nature of the Raw Material and Oxidation Time on the Composition and Properties of Oxidized Bitumens. Article 24 186

5. 3100

67218

SOV/58-59-7-16560

Translation from: Referativnyy Zhurnal Fizika, 1959, Nr 7, p 271 (USSR)

AUTHORS: Gal'perin, G.D., Kusakov, M.M., Pokrovskaya, Ye.S., Shimanko, N.A.

TITLE: Study of the Absorption Spectra of Some Cyclohexyl and Cyclopentyl Derivatives of Benzene in the Near Ultraviolet Region

PERIODICAL: Tr. In-ta nefti. AS USSR, 1958, Vol 12, pp 38 - 64

ABSTRACT: The authors studied the absorption spectra of a number of cyclohexyl and cyclopentyl derivatives of benzene and its methylated homologs in a solution of isoctane in the 2,200 to 2,900 Å region. They demonstrated the possibility of determining the position of alicyclic substituents in the benzene ring. In some cases it is possible to identify isomers of identical structure with cyclohexyl, cyclopentyl, methyl, or both methyl and cyclic substituents. The advantages of the described method of studying structure, as compared with the chemical method, are its simplicity, the possibility of carrying out measurements in the liquid phase and at room temperature, and the small size of the sample required for analysis (hundredths of a gram).

Card 1/1

L. Dmitrenko

5(3)

AUTHORS:

Pokrovskaya, Ye. S., Shimanko, N. A.

SOV/20-123-1-29/56

TITLE:

On the Synthesis of Cyclopentyl- and Cyclohexyl Derivatives of Mesitylene (K voprosu o sinteze tsiklopentil- i tsiklo-geksilzameshchennykh mezitilenov)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 1, pp 109 - 112 (USSR)

ABSTRACT:

The introduction of the cyclopentyl and cyclohexyl group in the aromatic ring is mostly proceeding smoothly and with good yield by the interaction of cyclopentene and cyclohexene with aromatic hydrocarbons in the presence of anhydrous aluminum chloride (Ref 1). Aluminum chloride, however, in the case of some alkyl benzenes effects the isomerization of the initial aromatic hydrocarbon. In order to obtain the cyclopentyl mesitylene without isomerization of the initial product the authors have alkylated the mesitylene with cyclopentene in the presence of concentrated sulfuric acid. The reaction mixture was cooled down. The compound isolated from it had a

Card 1/3

On the Synthesis of Cyclopentyl- and Cyclohexyl Derivatives SOV/20-123-1-29/56
of Mesitylene

melting point of 100.5 - 101.5°(3 mm) and 266-267°(755 mm). Regarding its properties the obtained hydrocarbon differs from the trimethyl cyclopentyl benzene with a durol-type structure (obtained without sulfuric acid, Fig 1, I). The same applies to the absorption spectrum (Fig 1, IV). Its spectrum is similar to that of isodurool (Fig 2, I). This means that the isomerization does not occur during the condensation with sulfuric acid and that the hydrocarbon synthesized is a cyclopentyl-mesitylene (1,3,5-trimethyl-4-cyclopentyl benzene). In order to obtain the cyclohexyl mesitylene, mesitylene was alkylated with cyclohexene in the presence of anhydrous aluminum chloride under cooling with ice. The absorption spectrum of the reaction product was similar to that of durol. Even in spite of the ice-cooling the isomerization takes place. Synthesized was the 1,2,4-trimethyl-5-cyclohexyl benzene. With sulfuric acid and ice-cooling the 1,3,5-trimethyl-2-cyclohexyl benzene was formed. It differed from the cyclohexyl pseudo-cumol previously described. The melting points of the mentioned compounds

Card 2/3

On the Synthesis of Cyclopentyl- and Cyclohexyl Derivatives SOX/20-123-1-29/56
of Mesitylene

were determined by the thermographic method of N.I.
Lyashkevich. A.P. Bogomolova participated in this study.
There are 3 figures and 9 references, 5 of which are Soviet.

ASSOCIATION: Institut nefti Akademii nauk SSSR (Petroleum Institute
of the Academy of Sciences USSR)

PRESENTED: June 11, 1958, by A.V. Topchiyev, Academician

SUBMITTED: June 3, 1958

Card 3/3

SHIRAZ, A.P.

PHASE I BOOK EXPLOITATION

SOV/4606

Akademiya nauk SSSR. Institut nefiti

Khimiya nefiti (Petroleum Chemistry) Moscow, 1959. 311 p. (Its: Trudy, tom 13) Errata slip inserted. 2,000 copies printed.

Resp. Ed.: G.D. Gal'pern, Doctor of Chemical Sciences; Ed. of Publishing House: L.S. Povarov; Tech. Ed.: V.V. Volkova.

PURPOSE: This book is intended for organic and industrial chemists and specialists in petroleum technology.

COVERAGE: This issue of the Transactions of the Petroleum Institute of the Academy of Sciences USSR contains twenty-five articles which review original laboratory experiments conducted by personnel of the Otdel khimii i tekhnologii nefiti (Department of Chemistry and Petroleum Technology). Individual papers deal with studies of the composition and properties of petroleum and petroleum products, methods of their separation and synthesis, and physicochemical characteristics of standard petroleum compounds. The use of gaseous solutions to distinguish heavy raw-petroleum fractions from ozocerites, thermal processes of contact and catalytic refining and synthesizing, and theoretical problems

Card 1/6

Petroleum Chemistry

SOV/4606

in the pre-refining treatment of petroleum are also discussed. References accompany each article.

TABLE OF CONTENTS:

From the Editor	3
Pokrovskaya, Ye.S. Alkylation of Alkyl Benzenes With Some Olefins and Cyclopentenes	5
Gal'pern, G.D., M.M. Kusakov, and N.A. Shimanko. Investigation of the Absorption Spectra of Some Benzene Derivatives in the Near Ultraviolet Range	11
Pokrovskaya, Ye.S. Synthesis of Ethylindanes by the Alkylation of Indane With Ethyl Bromide	29
Musatov, K.A. Chromatographic Separation of Aromatic and Sulfurous Concentrates From Kerosene	33

Card 2/6

5.3300

~~5(3)~~

AUTHORS:

Shimanko, N. A., Pokrovskaya, Ye. S.

58165

SOV/20-129-6-32/69

TITLE:

On Some Polyalkylbenzenes and Polyalkylcyclopentylbenzenes

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 129, Nr 6, pp 1313 - 1316
(USSR)

ABSTRACT:

Polyalkylbenzenes (heptylxylenes) were synthesized by alkylation of the 3 isomeric xylenes with heptene under the effect of concentrated H_2SO_4 (Refs 1,2). The position of the side chains of the hydrocarbons mentioned in the title was determined according to the spectra in the ultraviolet range. In the above mentioned condensation, the ratio xylene : heptene : sulfuric acid was 3 : 1 : 1. The monoalkylate yield was 50-70% with regard to heptene. No higher substitution products were formed. The hydrocarbon $C_{15}H_{24}$ with a boiling point $97-98^{\circ}/4$ mm and a molecular weight of 203, 202 was separated in the condensation of o-xylene with heptene. Its properties as well as those of all compounds prepared in this connection are shown in table 1. A corresponding dimethylheptylbenzene was formed from m-xylene and heptene. Together with heptene, p-xylene yielded a hydrocarbon boiling

Card 1/3

68165

On Some Polyalkylbenzenes and Polyalkylcyclopentylbenzenes SOV/20-129-6-32/69

at 104°/6 mm with a molecular weight of 204, 205. The position of the substituents in the substances prepared was determined on the basis of their absorption spectra in the close ultraviolet range. The spectra of heptyl-c-xylene (A, Fig 1 : 1), heptyl-m-xylene (B, Fig 1 : 3), and heptyl-p-xylene (V, Fig 1 : 5) are typical of compounds of the pseudocumene type (Fig 2 : 1) because of their course. These structural types of the compounds A, B, and V are proved by the similarity of their absorption spectra with those of the following hydrocarbons: isooctyl-o-xylene (Fig 1 : 2, Ref 5), cyclohexyl-m-xylene (Fig 1 : 4), and cyclohexyl-p-xylene (Fig 1 : 6, Ref 3). The practically complete accordance of the frequency characteristics indicates that the heptyl group is branched in all 3 cases and connected with the benzene ring by a secondary carbon atom. Thus, it may be taken for granted that the substances synthesized are: 1,2-dimethyl-4-isoheptylbenzene, 1,3-dimethyl-4-isoheptylbenzene, and 1,4-dimethyl-2-isoheptylbenzene. It had been proved previously that, in the reaction of a trisubstituted benzene with side chains in 1,2,4-position with cyclopentene (under the effect of aluminum chloride), a benzene substituted in the position 1,2,4,5 is formed as a main product. No isomerization took place. This

Card 2/3

68165

On Some Polyalkylbenzenes and Polyalkylcyclopentylbenzenes SOV/20-129-6 32/69

assumption was checked by the authors by means of heptyl-p-xy-
lene and cyclopentene. The condensation of 89 g of heptyl-p-xy-
lene with 22.5 g of cyclopentene yielded 1,4-dimethyl-2-heptyl-5-
cyclopentylbenzene without isomerization. Its absorption spectrum
(Fig 3 : 1) resembles the spectrum of durene (Fig 2 : a) and of
cyclopentylpseudocumene (Fig 3 : 2, Ref 3) as regards exterior
and intensity. An analogous reaction was carried out between
tert.butyl-o-xylene and cyclopentene. Figure 4 : 1 shows the
absorption spectrum of the substance formed: 1,2-dimethyl-4-
tert.butyl-6-cyclopentylbenzene. There are 4 figures, 2 tables,
and 6 references, 6 of which are Soviet.

PRESENTED: June 18, 1959, by A. V. Topchayev, Academician

SUBMITTED: May 27, 1959

Card 3/3

GAL'PERN, G.D.; KUSAKOV, M.M.; SHIMANKO, N.A.

Study of the absorption spectra of some benzene derivatives in the
near ultraviolet. Trudy Inst.nefti 13 '59. (MIRA 13:12)
(Benzene--Spectra)

TERENT'YEVA, Ye.M.; SANIN, P.I.; STEPANTSEVA, T.G.; KUSAKOV, M.M.;
SHIMANKO, N.A.; SIDORENKO, V.I.

Synthesis and investigation of the ultraviolet absorption spectra
of hydrocarbons of the 1,1-diphenylethane series. Neftekhimiia
1 no.2:141-148 Mr-Ap '61. (MIRA 15:2)

1. Institut neftekhimicheskogo sinteza AN SSSR.
(Hydrocarbons-- Spectra)

S/048/62/026/010/005/013
B117/B186

AUTHORS: Kusakov, M. M., Shimanko, N. A., Shishkina, M. V.,
Zimina, K. I., and Siryuk, A. G.

TITLE: Ultraviolet absorption spectra of aromatics

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya,
v. 26, no. 10, 1962, 1249-1252

TEXT: This paper deals with the rules governing the effect of saturated substituting groups on the absorption spectra of a number of mono- and bicyclic aromatics. It has been found that, according to the number and position of substitutes, the absorption spectrum of alkyl benzenes is shifted towards the long-wave region, and the absorption intensity maxima are intensified. In the case of cycloalkyl benzenes (naphthene-aromatic hydrocarbons) with a similar spectrum this shift is related to the substitution of cyclopentyl groups for the alkyl groups. The structure of indanes (hydrindenes), which show absorption spectra and which absorb 2-3 times more strongly than benzene, can be determined by comparing their spectra with those of corresponding alkyl-substituted benzenes and simple homologs of indane. The ultraviolet spectra of tetrahydronaphthalenes

Card 1/2

Ultraviolet absorption spectra...

S/048/62/026/010/005/013
B117/B186

(tetralines) follow the same laws as alkyl benzenes, cycloalkyl benzenes, and indanes. Diphenyls and benzenes have different spectra. Most m- and p-substituted diphenyl homologs are characterized by strong absorption and by the absence of a fine structure in the bands. The spectra of ortho-substituted diphenyl are subject to considerable changes. Diphenyl alkanes and alkyl diphenyl alkanes: The absorption spectra of several diphenyl methanes are similar to those of benzene. The spectra of aromatics with condensed rings show a specific character. Naphthalene has an absorption spectrum covering the range 2100-3300 Å and is characteristic of all naphthalene homologs. As the absorption spectra characteristic of polycyclic aromatics are hardly affected by substituting groups these are suitable for analytical purposes. An atlas (M. M. Kusakov, N. A. Shimanko, M. V. Shishkina, Ul'travioletovyye spektry pogloshcheniya aromaticheskikh uglevodorodov (Ultraviolet absorption spectra of aromatics), Izd. AN SSSR, M., 1962) was compiled for the practical application of ultraviolet spectroscopy. The ultraviolet spectra of mono- and bicyclic aromatics, graphically represented on the same scale and in terms of $\epsilon = f(\lambda)$ or $\log \epsilon = f(\lambda)$, were partly recorded by the present authors and partly taken from publications (American Petroleum Institute Research Project 44, Ultraviolet Spectra Data, 1958).

Card 2/2

SHIMANKO, N.A.; POKROVSKAYA, Ye.S.; SIDORENKO, V.I.

Synthesis and ultraviolet absorption spectra of decylxylenes,
decylmesitylene, and cyclopentyldecyl-p-xylene. Neftekhimia 1
no.3:297-304 My-Je '61. (MIRA 16:11)

1. Institut neftekhimicheskogo sinteza AN SSSR.

SHIMANKO, N.A.; PETROV, A.I.A.

Ultraviolet absorption spectra of some C₃₂ phenyl-, naphthyl-
and dinaphthylalkanes. *Neftekhimia* 1 no.3:305-308 My-Je '61.
(MIRA 16:11)

1. Institut neftekhimicheskogo sinteza AN SSSR.

S/048/62/026/010/006/013
B117/B186

AUTHORS: Shimanko, N. A., Shishkina, M. V., Kusakov, M. M., and
Sidorenko, V. I.

TITLE: Absorption spectra of diphenyl alkane series of hydrocarbons in
the near ultraviolet

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya,
v. 26, no. 10, 1962, 1252-1256.

TEXT: Absorption spectra of isooctane solutions of several polycyclic
aromatic and naphthene-aromatic hydrocarbons, C_{14} - C_{32} , with isolated
benzene rings, were examined at room temperature using an "Uvispek"
spectrophotometer, the compounds being as synthesized by Ye. M. Terent'yeva
et al. (Neftekhimiya, 1, no. 2, 141 (1961)), M. G. Rudenko and Al. A.
Petrov (Zh. prikl. khimii. 34, 613 (1961)). All the spectra except that
of 1,1-diphenyl ethane were obtained for the first time (Figs. 1-4). It is
shown that the spectra of hydrocarbons belonging to the 1,1-diphenyl ethane
series can be well simulated by adding the absorption spectrum of mono-
substituted benzene to that of the corresponding polysubstituted benzene.

Card 1/6 2

Absorption spectra of diphenyl ...

S/048/62/026/010/006/013
B117/B186

The total curves so obtained, representing characteristic spectra of complex molecules, indicate the number and position of each absorption minimum and maximum. This method is proposed for the structural analysis of the components of bicyclic hydrocarbons. There are 4 figures.

Figs. 1-4. Absorption spectra in the near ultraviolet.

Legend to Fig. 1: (1) 1,1-diphenyl ethane; (2) 1,2-diphenyl propane; (a) isopropyl benzene; (3) 1,1-di-(4-isopropyl-phenyl)-hexane; (b) 1-methyl-4-isopropyl benzene.

Legend to Fig. 2: (4) 1,2-di-(paraxylyl)-propane; (a) 1,2,4-trimethyl benzene; (5) 1-phenyl-1-(paratolyl)-ethane; (6) 1-phenyl-1-(paraethyl-phenyl)-ethane; (c) isopropylbenzene + 1-methyl-4-isopropyl benzene.

Legend to Fig. 3: (7) 1-phenyl-1-(2,5-dimethyl-phenyl)-ethane; (8) 1-phenyl-1-(2,4,5-trimethyl-phenyl)-ethane; (9) 1-phenyl-1-(2,4,6-trimethyl-phenyl)-ethane; (a) isopropyl benzene + 1,2,4-trimethyl benzene; (10) 1-(paraxylyl)-2-hexyl-4-phenyl butane.

Card 2/6

S/048/62/026/010/007/013
B117/B186

AUTHORS: Kusakov, M. M., Pokrovskaya, Ye. S., Shishkina, M. V.,
Shimanko, N. A., and Prokof'yeva, Ye. A.

TITLE: Structural analysis of monocyclic hydrocarbons on the basis
of absorption spectra

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya,
v. 26, no. 10, 1962, 1257-1260

TEXT: Infrared and ultraviolet absorption spectra of newly synthesized benzene derivatives with alkyl substituents ($C_3 - C_{16}$) of different structures, including derivatives with penta- and hexacyclic rings, were examined. In order to follow and establish the course of the synthesis more precisely an attempt was made to determine the number and position of the substituting groups and to check the known characteristics of benzene derivatives showing different degrees of substitution. The conditions of synthesis and the physicochemical properties of the compounds under examination have already been described (G. D. Gal'pern, M. M. Kusakov, Ye. S. Pokrovskaya, N. A. Shimanko, Tr. In-ta nef'ti AN SSSR, 12, 38

Card 1/3

Structural analysis of monocyclic ...

S/048/62/026/010/007/013
B117/B186

(1958); Ye. S. Pokrovskaya, M. V. Shishkina, Dokl. AN SSSR, 125, 1269 (1959); Ye. S. Pokrovskaya, Uch. zap. MGU, Khimiya, 71 (1941); Tr. In-ta nefti AN SSSR, 13, 29 (1959); Ye. S. Pokrovskaya, N. A. Shimanko, Dokl. AN SSSR, 123, 109 (1958); N. A. Snimanko, Ye. S. Pokrovskaya, V. I. Sidorenko, Neftekhimiya, 1, no. 3, 297 (1961)). Conclusions: Cyclohexyl benzene, dicyclohexyl benzene, and dicyclopentyl benzene were found to be 1,4-substituted benzenes. Trisubstituted benzenes are substituted in 1,2,4-, 1,2,3-, and 1,3,5-position, these being: cetyl orthoxylene (1,2,4-); cyclopentyl orthoxylene (1,2,4-, 1,2,3-); decyl metaxylene, cyclohexyl metaxylene (1,2,3-, 1,2,4-, 1,3,5-); paraxylene derivatives (1,2,4-). The weak bands of the 1,2,3- and 1,3,5-substitutions, as observed in a few spectra of paraxylene derivatives, can be ascribed to the migration of one of the methyl groups. Tetrasubstituted benzenes (paraxylene and mesitylene derivatives) are substituted not only in 1,2,4,5-position but also in 1,2,3,4- and 1,2,3,5-position, which also indicates the migration of one of the methyl groups. The 1,2,3,4- and 1,2,3,5-isomers could not be differentiated in the ultraviolet spectra. Pentasubstituted benzene and pentamethyl benzene have similar spectra which display bands characteristic of aplanar deformation vibrations of the C-H bond. There are 3 figures.

Card 2/3

Structural analysis of monocyclic ...

S/048/62/026/010/007/013
B117/B186

ASSOCIATION: Institut neftekhimicheskogo sinteza Akademii nauk SSSR
(Institute of Petrochemical Synthesis of the Academy of
Sciences USSR)

Card 3/3

KUSAKOV, Mikhail Mikhaylovich; SHIMANKO, Nina Aleksandrovna; SHISHKINA, Margarita Vladimirovna; BAZHULIN, P.A., doktor fiziko-matem. nauk, otv. red.; LOSKUTOVA, I.P., red.; POLYAKOVA, T.V., tekhn. red.

[Ultraviolet absorption spectra of aromatic hydrocarbons]Ul'tra-fioletovye spektry pogloshchenia aromaticheskikh uglevodorodov. Moskva, Izd-vo Akad. nauk SSSR, 1963. 269 p. (MIRA 16:2)
(Hydrocarbons--Absorption spectra)

POKROVSKAYA, Ye.S.; SHIMANKO, N.A.

Hexadecylxylenes and heptadecylmesitylene. Neftekhimiia 2 no.5;
657-661 S-0 '62. (MIRA 16:1)

1. Institut neftekhimicheskogo sinteza AN SSSR.
(Xylene) (Mesitylene)

KUSAKOV, M.M.; SHIMANKO, N.A.; SHISHKINA, M.V.; ZIMINA, K.I.; SIRYUK, A.G.

Ultraviolet absorption spectra of aromatic hydrocarbons. Izv. AN SSSR.
Ser.fiz. 26 no.10:1249-1252 0 '62. (MIRA 15:10)
(Hydrocarbons—Spectra)

KUSAKOV, M.M.; PCKROVSKAYA, Ye.S.; SHISHKINA, M.V.; SHIMANKO, N.A.;
PROKOF'YEVA, Ye.A.

Study of the structure of monocyclic hydrocarbons based on absorption spectra. Izv. AN SSSR.Ser.fiz. 26 no.10:1257-1260 0 '62. (MIRA 15:10)

1. Institut neftkhimicheskogo sinteza AN SSSR.
(Hydrocarbons--Spectra)

SOURCE Ref. zh. Fizika, Abs. 3D254

AUTHOR Kisakov, M. M.; Niyazov, A. M.; Sidorenko, V. I.; Shimanko, N. A.

... spectra of naphthene-aromatic ketones

... AN SSSR, vyp. 1, 1964, 370-381

... spectra, naphthene ... the valence ... cycle ...

ACCESSION NR: AF5012257

... between the spectra of these ketones with 5- and 6-member cycles and to identify naphthene-aromatic ketones derived from naphtheneic acids. Three specified absorption regions were found in the ultraviolet absorption spectra: 3000-... The second region characterizes the number, posi-... and the... of the aromatic nucleus and its sub-... The latter region can be used for... corresponding with various

Card 1

RASOV, K.I., inzhener; SHIMANOV, K.I.

Training workers in safety techniques. Bezop.truda v prom. 1
no.7:8-9 J1 '57. (MIRA 10:7)
(Mining engineering--Safety measures)

SHIMANOV, K.I., inzh.; VODAKHOV, L.A., inzh.

Prevent exogenous fires in mines. Bezop. truda v prom. 5 no. 5:13-15
My '61. (MIRA 14:5)

1. Upravleniye Sverdlovskogo okruga Gosgortekhnadzora RSFSR.
(Mine fires)

SHIMANOV, N., mayor.

On a false path ("They live on the ground." "In flight." V. Arda-
matskii. Reviewed by N. Shimanov). Vest.Vozd.Fl. 34 no.10:89-90
0 '51. (MIRA 8:3)

(Russia--Air Force)(Air pilots)

SHIMANOV, N.

AID - P-121

Subject : USSR/Aeronautics
Card : 1/1
Author : Shimanov, N., Lt. Col.
Title : The Great Victory of the Soviet People
Periodical : Air Force Herald, 4, 8 - 13, Ap 1954
Abstract : This is a short narration of the turning point of the Soviet war with Hitlerite Germany, and of the victory which, according to the author, was won by the USSR in spite of the non-cooperation of the Western Allies. The article is full of slogans and propaganda.
Institution : None
Submitted : No date

SHIMANOV, N.

Subject : USSR/Miscellaneous AID P - 751
Card 1/1 Pub. 135 - 18/21
Author : Shimanov, N., Lt. Col.
Title : "Atomic Sociology" -- Ideology of Aggression and War
Periodical : Vest. vozd. flota, 10, 85-88, 0 1954
Abstract : This is a review of the book by Yepiskoposov, G. L.:
"Atomnaya sotsiologiya - Idealogicheskoye oruzhiye
Amerikanskogo imperializma" (Atomic Sociology - Ideologi-
cal Weapon of the American Imperialism), Gospolitizdat,
1953, 110 pages in which the author strongly attacks the
USA for her alleged atom bomb policy.
Institution : None
Submitted : No date

SHIMANOV, N.

V.I.Lenin and the Soviet armed forces. Voenn.znan. 37 no.4:3-5
Ap '61. (MIRA 14:4)

(Russia--Armed forces) (Lenin, Vladimir Il'ich, 1870-1924)

SHIMANOV, N., general-polkovnik aviatsii zapasa

Over Minsk, Bobruysk, Borisov. Kryl. rod. 15 no.7:10-11 JI '64.
(MIRA 18:1)

GOLOVANOV, N., zasluženavy master sporta; IVANOV, I., kapitan; MOISEYEV, V.;
SOBKOV, V.; SHIMANOV, N., general-polkovnik aviatsii zapasa

Facts, events, people. Kryl. rod. 15 no.11:26-27 N 164. (MIRA 18:3)

Ammonley, A. H.

1954, p. 1.

Research on the development of the Immunity of the Lungs of Domestic Birds, the Development During Ontogeny, and the Role of the Nervous System in the Pathogenesis of Experimental Tuberculosis in Chickens." Dr. Phil Sci, Moscow Scientific Inst, Moscow, 1954. (Izd. No. 1, Apr 55)

Dr. Sc. Ph. D., 1954 - Survey of Scientific and Technical Dissertations on the Pathogenesis of Tuberculosis in Chickens (14).

SHIMANOV, P., inzh.

← Educational films. Grazhd.av. 17 no.7:8 J1 '60. (MIRA 13:8)
(Motion pictures in aeronautics)

SHIMANOV, S.N.

Stability of the solution for a non-linear system of equations. Usp.mat.
(MLRA 6:12)

matk 8 no.6:155-157 N-D '53.

(Differential equations)

Mathematical Reviews
Vol. 14 No. 11
Dec. 1953
Analysis

Šimanov, S. N. On stability of solution of a nonlinear equation of the third order. *Akad. Nauk SSSR. Prikl. Mat. Meh.* 17, 369-372 (1953). (Russian)

Given the equation $x + f(x, y)z + bz + cx = 0$, where b, c are constants, the author proves the theorem: If $b, c > 0$, $f(x, y) > c/b$, $yf'_y < 0$ for all x, y , then the origin is asymptotically stable for the equivalent system

$$\dot{x} = y, \quad \dot{y} = z, \quad \dot{z} = -f(x, y)z - bx - cy.$$

S. Lefschetz (Princeton, N. J.).

USSR/Mathematics - Oscillations of quasilinear systems

FD-649

Card 1/1 : Pub. 85-4/20

Author : Shimanov, S. N. (sverdlovsk)

Title : Theory of oscillations of quasilinear systems

Periodical : Prikl. mat. i mekh., 18, 155-162, Mar/Apr 1954

Abstract : Considers the periodic oscillations of a nonautomatic quasilinear system for the case of nonanalytic characteristic of nonlinearity. Three references, all to I. G. Malkin (1949-1950).

Institution : --

Submitted : December 27, 1953

SHIMANOV S.N.

SUBJECT USSR/MATHEMATICS/Differential equations CARD 1/1 PG - 29
AUTHOR SHIMANOV S.N.
TITLE On a method for obtaining existence conditions for a periodic solution of non-linear systems.
PERIODICAL Priklad. Mat. Mech. 19, 225-228 (1955).
reviewed 5/1956

In the system

$$(1) \quad \dot{z} = Az + f(t, z, \mu)$$

the vector f is assumed to be analytic with respect to z and μ , and continuous and mod 2π periodic with respect to t . Furthermore let be $f(t, 0) \equiv 0$. According to Poincaré (1) has periodic solutions if the constant matrix A has no "critical" eigenvalues $\pm iN$ ($N=0,1,2,\dots$). The author assumes that A in (1) has k different critical eigenvalues with the multiplicities m_j ($j=1,\dots,k$). A necessary and sufficient condition is derived under which (1) possesses a periodic solution tending to $z \equiv 0$ for $\mu \rightarrow 0$. For this k equations must be satisfied between μ and k parameters which are to be conveniently introduced. The paper contains some misprints.

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