DAIDEEKOVA, E.A.; KURBANOVA, F.M.

.

Lithofacies characteristics of sediments in the producing formation of the lower Kura Valley in connection with their oil potential. Azerb. neft. khoz. 38 no.8:13-15 Ag '59. (MIRA 13:2) (Kura Valley--Petroleum geology)

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APPROVED FOR RELEASE: 07/12/2001





DAIDBEKOVA, E. A., DOC GEOL MINDER SCI, "PETROGRAPHY 42 OF THE FLYSCH FORMATION OF SOUTHEASTERN CAUCASUS." BAKU, 1961. (JOINT COUNCIL OF AZERBAYDZHAN INST OF PETROLEUM AND CHEM IMENI M. AZIZBEKOV AND INSTITUTES AND INSTITUTIONS OF ACAD SCI AZSSR FOR GEOL AND MINERAL SCIENCES). (KL-DV, 11-61, 212).

-58-



Hydrotroilite in deposits of the akchagyl stage in the Kura Lowland. Dokl. AN SSSR 137 no.3:678-680 Mr '61. (MIRA 14:2)

APPROVED FOR RELEASE: 07/12/2001



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"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000509520017-2

DAIEV Khr.

S/075/60/015/004/013/030/XX B020/B064

AUTHORS :	Yordanov,	N,	and	Daiyev,	Khr.

TITLE: Photometric Determination of Cerium by Means of o-Tolidine

PERIODICAL: Zhurnal analiticheskoy khimii, 1960, Vol. 15, No. 4. pp. 443 - 445

TEXT: The present paper describes a new, unpublished method for a more selective and accurate determination of tetravalent cerium with o-tolidine (3,3)-dimethyl benzidine); the qualitative reaction has been known since long, but has hitherto not been used for quantitative cerium determination. Cerium was separated from the disturbing components together with the rare earths in the form of oxalates. If there are no rare earths present in the precipitated. A 12 mg/ml La(NO₃)₃ solution was used in the experiments

Since the lanthanum nitrate available contained approximately 0.14% Ce. it was purified by the method of V. M. Klinayev and N. N. Senyavin (Ref. 12) The optical density of the solution was measured with a photoelectric

Card 1/3

APPROVED FOR RELEASE: 07/12/2001

Photometric Determination of Cerium by Means of o-Tolidine

S/075/60/015/004/013/030/XX B020/B064

colorimeter of the type $\oint \partial K - M$ (FEK-M) with a blue filter (permeability maximum at 410 mµ). Fig. 1 shows that the solutions follow the Beer law at concentrations up to $\partial \gamma' Ce/ml$. The molar extinction coefficient is approximately 9500. The reaction with o tolidine is 20 times as sensitive as with H_2O_2 . The coloring produced remained stable for several hours under the chosen conditions, and vanished only on the following day The yellow color remains unchanged for 20 minutes after the addition of the reagent; then it fades gradually (Fig. 2). A change of pH between 0 and 4 has no appreciable effect upon the sensitivity of the reagent When using 12 mg of $La(NO_3)_3$ as a collector, the coprecipitation of 10 - 200 γ' Ce proceeds quantitatively. Table 1 shows the reproducibility of the method, which is mainly due to the quantitative conversion of CeIII to CeIV, and

also the stability of the oxidation products of o tolidine The effect of Fe, Al, Mn, and Ti in amounts of Ce:Fe = 1:10,000, Ce:Al=1:3,000, Ce:Mn=1:350, and Ce:Ti=1:100 was studied for the purpose of using this method for cerium determination in minerals and rocks. Fig. 1 shows the calibration curve used to determine cerium by means of 0 tolidine The time dependence of the optical density is illustrated in Fig. 2 Table 2

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Photometric Determination of Cerium by Means of o-Tolidine

s/075/60/015/004/013/030/XX B020/B064

shows that under the above conditions, the coprecipitation of cerium proceeds practically quantitatively, that even in the presence of comparatively large iron and aluminum quantities, no soluble cerium oxalate complexes of these elements are formed, and that in the precipitation of both hydroxides and oxalates, no coprecipitation of manganese takes place in the presence of hydroxylamine hydrochloride. The fact that a number of elements is not coprecipitated with lanthanum oxalate, is also related to the separation of the latter in acid media. Thorium, yttrium, neodymium, praseodymium, ytterbium, terbium, and samarium have no disturbing effect. The method described was used to determine the cerium content in apatite, titanite, and monzonite (Table 3). There are 2 figures, 3 tables, and 12 references: 6 Soviet, 5 German, and 1 British

ASSOCIATION: Sofiyskiy gosudarstvennyy universitet (Bolgariya) (Sofiya State University (Bulgaria))

SUBMITTED: July 9, 1959

Card 3/3

APPROVED FOR RELEASE: 07/12/2001

IORDANOV, N.; DAIXEV, Khr.

Separation of small amounts of rare earth elements from minerals and rocks by chlorination with carbon tetrachloride. Zhur.anal.khim. 17 no.4:429-431 J1 '62. (MIRA 15:8)

1. Institute of General and Inorganic Chemistry, Bulgarian Academy of Sciences, Sofia. (Rare earths--Analysis) (Carbon tetrachloride)

ICEDANOV, N.; DAIYEV, Kh. [Daiev, Kh.]

The N, N, N', N' tetramethyl o-tolidine (Tetron) as reagent in determining small quantities of oxidants (Au (III), Ce (IV), ErO, etc.) Doklady BAN 16 no.1:69-72 '63.

1. Predstavleno chl.-korr. N. Penchevym.

APPROVED FOR RELEASE: 07/12/2001

10RDANOV, N.; DAIEV, Khr.

Distribution of verius, and amount of the c-varth elements in contain offusive, intrasive, and netamorphis rooks in conthern Bulgaria. Doklady BAN 17 ne.1:49-52 164

1. Fredstavleno chienen-konvespondentom N.¹. Senchergan.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000509520017-2"

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RUBIN, S.S.; DAILEVSKIY, A.F.; IL'CHENKO, V.A.; KARASYUK, I.M. Methods of studying the root systems of agricultural plants. Bot. zhur. 47 no.8:1176-1184 Ag '62. (MIRA 14 (MIRA 15:10) 1. Umanskiy sel'skokhozyaystvennyy institit imeni A.M. Gor'kogo.

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DAILIDONIEME, Jadvyga; KAWINGKIEME, L., red. [Tuberculosis, an infectious disease] Tuberkulioze uzkrociama liga. Vilnius, Valstybine politines ir mokslines lit-ros leid kla, 1963. 16 p. [In Lithuanian] (MIAM 17:7)

APPROVED FOR RELEASE: 07/12/2001

DAILIDONIENE, J.

Tuberculosis morbidity in the Republic according to fluorographic data. Sveik. apsaug. 9 no.3:36-39 Mr 164

1. Respublikinio tuberkuliozes dispanserio vyr. gydytoja.

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DAILIDONIENE, J.

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Tuberculosis morbidity in the Republic according to fluorographic data. Sveik. Apsaug. no.3:36-39 164.

1. Lietuvos respublikinio tuberkuliozes dispanserio vyr. gydytoja.

DAIMACA, Victor, prof.

(Mechanics, Celestial)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000509520017-2"

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DAIMACA, Victor, prof.

5.2

Data on celestial phenomena in February 1962. Gaz rat fiz 13 no.12: 663-664 D 161.





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DAIMACA, Victor, prof.

Celestial phenomena in October 1962. Gaz mat fiz 14 no.8:445-446 Ag '62.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000509520017-2"

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DAIMACA, Victor, prof.

Celestial phenomena in December 1963. Gaz mat fiz 15 no.10:552-559 0'63.



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Celestial phenomena in January 1964. Gaz mat fiz 15 no.11: 667-668 N 163.





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DAIMACA, Victor

Planetary phenomena ir August 1964. Gaz mat fiz 69 no. 7: 278 Jl 464.

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DAIN,	Β.	Ya .
DUTTIN	• •	1.4.

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PA 11/49T12

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Jul 48 USSR/Chemistry - Spectra, Absorption Chemistry - Iron, Ferric "Nature of the Ultraviolet Bands Adsorbing Tri-

valent Iron Ions," B. Ya. Dain, A. A. Kaohan, Inst Phys Chem imeni L. V. Pisarzhevskiy, Acad Soi USSR, 3월 pp

"Dok Ak Nauk SSSR" Vol IXI, No 3

Reports experiments. Results confirm view that spectrum band of Fe³⁺ ions is an "electron trans-fer spectrum." Submitted 24 Apr 48.

11/49**T1**2

CIA-RDP86-00513R000509520017-2



Chemical nature of the derivatives of molybdenum and tungsten blues. Dop.AN URSR no.5:33-38 '49. (MIRA 9:9)

1. Institut fizichnoi khimii imeni L.V.Pisarzhevs'kogo AN URSR Viddil fotokhimii.Predstaviv diysniy chlen AN URSR O.I.Brods'kiy. (Pigments)

APPROVED FOR RELEASE: 07/12/2001

"APPROVED FOR RELEASE: 0	07/12/2001	CIA-RDP86-00513R000509520017-2
DAIN, B. YA	- 1	PA 54/49T102
51/1497002	USSER/Frysics (Contd) Jul 49 nature. Aftereffect is not completely explained, but 14 connected with the observed catalytic effect. Submitted by Acad A. N. Terenin 3 May 49.	<pre>USER/Physics Jul 49 Lona Jul 49 Lona Jul 49 Lona Jul 49 Catalysis Jul 49 "Heterogeneous Phenomena in the Photoreduction Proc- A. A. Kachan, Inst of Physicocham imeni L. V. Plaarihevskiy, Acad Sci USSR, 3 3/4 pp "Dok Ak Mauk ESSR" Yol LXVII, No 1 Experiments citcd show that in the photoreduction influence of the valls of the container on the basic process is very great. and is of a clearly catalytic chingman</pre>
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APPROVED FOR RELEASE: 07/12/2001

L 10311-66 EWT(m) DIAAP	
ACC NR. AP5026404 80URCE CODE: UR/0386/65/002/006/0266/0269	
AUTHOR: Dalidchik, F. I.; Sayasov, Yu. S.	
ORG: Institute of Chemical Physics, Academy of Sciences SSSR (Institut khimicheskoy fiziki Akademii nauk SSSR)	
TITLE: Exchange effect in elastic scattering of polarized identical nuclei	
SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 2, no. 6, 1965, 266-269	
TOPIC TAGS: elastic scattering, proton polarization, Coulomb interaction	
ABSTRACT: In view of the increasing importance of experiments on the polarization of the products of direct nuclear reactions, for the purpose of explaining their con- crete mechanism of determining the spectroscopic characteristics of the nuclei, the authors analyze theoretically the elastic scattering of Coulomb-interacting polarized identical particles. It is shown that when a completely polarized beam is scattered by a completely polarized target interference takes place only when the polarizations of the beam and the target coincide. This is the quantum analog of a fact well known	
in optics, that there is no interference between two light rays which are polarized in mutually perpendicular planes. In the general case it follows from the analysis	
that the intensity of the oscillations of the exchange term depends essentially on the degree of polarization of the beam and of the target, as illustrated in Fig. 1 for the case of particles with spin $I = 1$. This can serve as a basis for a new meth- od of detecting polarization of slow charged particles. Since the procedure for ob-	
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taining polarized targets is being continuously perfected and there are now already twenty different methods for accomplishing this, the proposed method can find application in a large group of experiments, including measurement of polarization of slow protons and of nuclei of light and medium elements, which is of particular importance in connection with the ever increasing use of multiply-charged ions in nuclear physics. Orig. art. has: 1 figure and 4 formulas.

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According to the spin I = 1.

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DA IN,	в. Уа.	<u>210131</u>	exposure and at 610 millimicrons after 10 hrs of exposure. Visible light is capable of reducing the oxidized iron-chlorophyll complex as shown by other absorption on curves. The same effect is produced by light from a mercury quartz lamp, only much faster. Temp between 10 - 22 has no effect on photo reduction.	USSR/Chemistry = Chlorophyll 21 Sep 51 (Contd)	The iron-chlorophyll complex, preps of one means in both the oxidized and the reduced form, gives absorption curves with intensity peaks at 610 millicrons for the oxidized and 645 millimicrons for the reduced form. Upon exposure of the oxi- dized form to a 1,000 watt lamp, intensity peaks appeared at 640 - 650 millicrons after 4 hrs of 210731	"potochemical properties of the intervalue of the fight," M. S. Ashkinazi, B. Ya. Dain, Inst of Phys Chem imeni Pisarzhevskiy, Acad Sci USSR "Dok Ak Mauk SSSR" Vol LXXX, No 3, pp 385-388	USSR/Chemistry - Chlorophyll 21 Sep 51	

CIA-RDP86-00513R000509520017-2



APPROVED FOR RELEASE: 07/12/2001

	1.	ASHKINAZI, M. S.; GLIKMAN, G. S.; <u>DAYN, B. YA.</u>	•
	2.	USSR (600)	
	4.	Iron Salts	
	7.	Nature of the interaction of chlorophyll with iron salts, Ukr. khim. zhur., 17, no. 1, 1952.	
			E
9.	Мог	nthly List of Russian Accessions, Library of Congress, April 1953, Uncl.	
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DAIN, B.Ya. Same and the second

> Research of T.D. Grotthus in photochemistry and the theory of colors. (MLRA 7:3) Ukr.khim.zhur. 20 no.1:93-99 '54.

> 1. Institut fizicheskoy khimii im. L.V.Pisarshevskogo Akademii nauk USSR. (Grotthus, Theodor D., 1785-1822)

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CIA-RDP86-00513R000509520017-2



Card 1/1	- Physical chemistry Pub. 116 - 8/25	-
Authors :	Kostryukova, E. P., and Daun, B. Ya.	
Title :	Photochemical reduction of thionine	- * - - -
Periodical :	Ukr. khim. zhur. 21/1, 48-53, 1955	
Abstract ;	The photochemical reduction of a thiazine type dye (thionine), possess high light sensitivity in the visible zone of the spectrum was investigated during its reaction with ethyl alcohol, thiourea and gl It was found that the photochemical reduction reaction of the dye is unavoidably connected with the phototransfer of the hydrogen from th reducing agent to the molecule of the dye. The effect of temperature on the reduction process is explained. Seven references : 4 USSR and 3 USA (1925-1951). Tables; graphs; drawing.	ucose.
Abstract ; Institution:	The photochemical reduction of a thiazine type dye (thionine), posses high light sensitivity in the visible zone of the spectrum was investigated during its reaction with ethyl alcohol, thiourea and gl It was found that the photochemical reduction reaction of the dye is unavoidably connected with the phototransfer of the hydrogen from th reducing agent to the molecule of the dye. The effect of temperature on the reduction process is explained. Seven references : 4 USSR	ucose.

CIA-RDP86-00513R000509520017-2



USSR / Phy	ysical Chemistry, Molecules, Chemical Bond, B-4	
Abs Jour	: Ref Zhur - Khimiya, No 8, 1957, 25753	
Author Inst Title	 M.S. Ashkinazi, I.P. Gerasimova, B.Ya, Dain. Academy of Sciences of USSR Influence of Water on Absorption Spectrum and Photosensiti- vity of Iron Pheophorbide. 	
Orig Pub	: Dokl. AN SSSR, 1956, 108, No 4, 655-658	
Abstract	: The absorption spectra of oxidized pheophorbide a (I) in al- cohol, acetone, acetonitrile, chloroform (II), benzene and toluene in the range of 500 to 700 mm were photographed. It was shown in accordance with earlier found regularities (RZhKhim, 1956, 25216) that the spectrum of carefully dehy- drated I is characterized with the maximum absorption in ran- ge of 620 to 625 mm. After an addition of water (III), the spectrum changes sharply, the maximum at 620 to 625 mm di- sappears nearly completely and a band at 675 to 680 mm ap- pears simultaneously. The described effect is displayed in	
Card	: 1/2 - 13 -	

CIA-RDP86-00513R000509520017-2

. USSR / Physical Chemistry, Molecules, Chemical Bond, B-4 Abs Jour : Rof Zhur - Khimiya, No 8, 1957, 25753 Abstract : various solvents to different degrees depending on the miscibility of the solvent with III. The authors ascribe the absorption at 675 to 680 mu to associations consisting of III and I molecules; in the authors' opinion, the formation of associations of molecules of I connected with molecules of III is also possible. It is shown that the reduction of I (appearance of absorption maximum at 650 mu; see above note) under the action of visible light takes place considerably easier in presence of III, in which occasion the spectrum of oxidized I always appears after the inlet of air. The photosensitivity of I in presence of III proves, in the authors' opinion, the specific influence of III not only on the spectra, but also on the photo-chemical behavior of I. Card 1. inst , fizichester no im, L.V. Proviglenchago I wanth USST A Khes Rreas, akad. A N. Jereningen

APPROVED FOR RELEASE: 07/12/2001

SOV/21-58-11-16/28 AUTHORS: Butsko, S.S. and Dain, B.Ya. Photochemical Reaction of a-Chlorophyll Oxidation by Ferric TITLE: Chloride (Fotokhimicheskaya reaktsiya okisleniya khlorofilla a khlornym zhelezom) Dopovidi Akademii nauk Ukrains'koi RSR, 1958, Nr 11, PERIODICAL: pp 1221-1224 (USSR) ABSTRACT: The irradiation with light of 400 to 370 m wavelength of acetone solutions of the mixtures of a-chlorophyll with FeCl₃, with an excess of the latter, leads to the formation of a red-colored photoproduct. This product is stable under vacuum conditions and preserves its characteristic spectrum for a long time. However, its contact with the air results in a sharp change of the spectrum. The spectrum of the final product is characteristic for ferric porphyrins (the position of peaks at 640; 580; 510 and 420 m). The rate of photoreaction decreases with an increase in ferric salt concentration. A dark after-effect of the light is observed in This indicates the formation in the course the reaction. of the photochemical reaction of stable products which act as catalyzers during the subsequent process in darkness. Card 1/2The authors assume that the red photoproduct is a chlorophyll

APPROVED FOR RELEASE: 07/12/2001

	SOV/21-58-11-16/28	
Photochemical	Reaction of a-Chlorophyll Oxidation by Ferric Chloride	
	semi-oxidized in the 7 - 8 position of the IV ring. There are 2 graphs and 3 references, 2 of which are Soviet and 1 American.	
ASSOCIATION:	Institut fizicheskiy khimii imeni L.V. Pisarzhevskogo AN UkrSSR (Institute of Physical Chemistry imeni L.V. Pisar- zhevskiy of the AS UkrSSR)	
PRESENTED:	By Member of the AS UkrSSR, A.I. Brodskiy	••
SUBMITTED:	June 13, 1958	
Note:	Russian title and Russian names of individuals and institu- tions appearing in this article have been used in the trans- literation.	-
Card 2/2		



Spectrophotometric analysis of chlorophyll interactions with iron. Zhur.ob.khim. 28 no.9:2603-2611 S '58. (MIRA 11:11)

1. Institut fizicheskoy khimii AN USSR. (Iron) (Chlorophyll)

CIA-RDP86-00513R000509520017-2

DAIN, B. Va.

5(3) AUTHORS:

Glikman, T. S., Podlinyayeva, M. Ye., SOV/79-29-6-4/72 Dain, B. Ya.

- TITLE: Spectrophotometric Investigation of Reversible and Irreversible Conversions of Sulfophthalocyanine of Iron (III) in Aqueous Solution (Spektrofotometricheskoye issledovaniye obratimykh i neobratimykh prevrashcheniy sul'foftalotsianina zheleza (III) v vodnom rastvore)
- PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 6, pp 1785-1793 (USSR)
- ABSTRACT: The phthalocyanines belong to the small number of dyes which resemble, as to their structure, tha natural pigments of the porphyrin class. In that connection many scientists tried to use these compounds as model of these pigments (Ref 1) in order to investigate more thoroughly the compounds of this kind if they are not combined with proteins. In this regard the iron phthalocyanines were of special interest; they are closely related with the hemins the part of which in the biological redox processes is well-known. The sulfonated derivatives of these dyes which are readily soluble in water show a number of interesting peculiarities which are based

APPROVED FOR RELEASE: 07/12/2001

Spectrophotometric Investigation of Reversible and SOV/79-29-6-4/72 Irreversible Conversions of Sulfophthalocyanine of Iron (III) in Aqueous Solution

> on the fact, that they are capable of reversible and irreversible reactions in the dark and especially in the light. Since the solutions of the sulfonated derivatives of the iron-phthalocyanine are intensely colored the spectrophotometric method is most suitable for their investigation. In this paper the results of this spectrophotometric investigation of aqueous solutions of these compounds, and of the conversions taking place in them are described. It was found that the aqueous solutions of the ferri-sulfo-phthalocyanine (III) represent systems in the state of a hydrolytic equilibrium. The hydroxide of the ferri-phthalocyanine (III) which is formed on hydrolysis is unstable and decomposes slowly and yields ferro-sulfophthalocyanine (II) and the free hydroxyl. Exposure to light accelerates this process. The formation of free radicals on standing of the solutions of ferri-sulfo-phthalocyanine (III) which had been outgassed in the vacuum was confirmed by introduction of polymerization chains. The spontaneous decomposition of the hydroxide is the cause of the lalie behavior of the aqueous solutions

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APPROVED FOR RELEASE: 07/12/2001

Spectrophotometric Investigation of Reversible and SOV/79-29-6-4/72 Irreversible Conversions of Sulfophthalocyanine of Iron (III) in Aqueous Solution of sulfophthalocyanine of the trivalent iron and the cause of their slow decolorization in the air. There are 6 figures and 12 references, 3 of which are Soviet. ASSOCIATION: Institut fizicheskoy khimii Akademii nauk Ukrainskoy SSR (Institute of Physical Chemistry of the Academy of Sciences, Ukrainskaya SSR) SUEMITTED: May 12, 1958

APPROVED FOR RELEASE: 07/12/2001

report to be submitted for the Photosynthesis Symposium, 5th Intl. Congress of Blochemistry, Moscow, 10-16 Aug 1961.

KRYUKOV, A.I.; DAIN, B.Ya.

Photochemical reduction of ferric chloride in aromatic hydrocarbons. Dokl.AN SSSR 138 no.1:153-155 My-Je '61. (MIRA 14:4)

1. Institut fizicheskoy khimii im. L.V.Pisarzhevskogo AN USSR. Predstavleno akademikom A.N.Tereninym.

(Photochemistry) (Iron chloride)