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In the second second
                                        PAVLOVSKAYA, T.Ye.; PASYMSKIY, A.G.
                       Bffect of ionizing radiations on protein solutions in the presence
                       of air and in vacuum [with summary in English]. Biokhimite 22
                       no.1/2:266-273 Ja-F '57.
                                                                                  (MIRA 10:7)
                       1. Institut biokhimii im. A.N.Bakha Akademii neuk SSSR, Moskve.
                               (ROBWIGES RAYS, effects,
                                   on serum albumin solution in presence of air & in
                                   vacuum (Rns))
                               (SERUM ALBUMIN,
                                   eff. of x-rays on solution in presence of air & in
                                   vacuum (Rus))
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PASYNSKIY, A.G.; TONGUR, A.M.

化合理器的名称 网络医脊髓炎 医结核组织 医中心检查 医外部分子的 化合金

Periodic deformation of collagen in solutions of electrolytes and tanning agents [with summary in English]. Koll.zhur. 19 no.4:483-489 Jl-Ag '57. (MIRA 10:10)

1.Institut biokhimii AN SSSR im. A.N. Bakha, Moskva. (Collagen) (Tanning)

PASYNSKIY, A.G. (Moskva)

The theory of open systems and its importance in biochemistry. Usp.sovr.biol. 43 no.3:263-279 My-Je 157. (HIRA 10:7) (PHYSIOLOGICAL CHEMISTRY)

PARYESETY, A. G. and PAVLOVSLAYA, 1. s.

"Amino-Acida formation when Exposing Formaldenyde and Arrown shares Solutions to Ultraviolet Irrediction."

paper presented at the 4th Intl. Congress of Biochemistry, Vienna, 1-6 Sep 58.



APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001239

PASTNSKIY, A.G. Relationship between thermal and ultraviolet denaturation of proteins. Biofizika 3 no.6:736-737 '58. (MIRA 12:1) 1. Institut biokhimii im. A.N. Bakha AN SSSR, Noskva. (PROTRINS, heat & ultraviolet denaturation (Rus)) (ULTRAVIOLET RATS, eff. protein denaturation (Rus))



AUTHOR S :	Kaverzneva, Ye. L., Doctor of Chemical SOV/30-58-9-42/51 Sciences, Khurgin, Yu. I.
TITLE:	Biologically Active Polymer Compounds (Biologicheski aktivnyy polimery)All-Union Conference on Highly Molecular Compounds (Vsesoyuznaya konferentsiya po vysokomolekulyarnym soyedine- niyam).
PERIODICAL:	Vestnik Akademii nauk SSSR, 1958, Nr 9. pp. 111 - 113 (USSR)
ABSTRACT :	The X All Union Conference took place in Moscow from June 11th to 13th. About 400 representatives of scientific in- stitutions and colleges took part. In his opening-speech V.A.Kargin stressed the fact that, as there are structural analogies between natural and synthetic polymer compounds the task is set to bring about a controlled synthesis of models of biological objects. Further reports were delivered B.N.Tarusov, A.G.Pasynskiy on some peculiarities of biologica textures. G.M.Frank on the submicroscopic structure of some cell textur and muscle fibrils.
Card $1/4$.K.G. Ioffe gave particulars on the location of 18 amino-upids

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and all the second second second 12 Biologically Active Polymer Compounds. All Union Conference on Highly Molecular Compounds. SOV/30-,8-9-42 .1 in the tyrosine bearing peptide. - M.I.Plekhan on some peculiarities concerning peptides. _Ye.D.Kaverzneva, F.V.Shmakova on the extraction of carbohydrate bearing peptide from egg albumin and the determination of its amino-acid content. _ S.Ye.Bresler, S.Ya.Frenkel' consider the configuration of the individual globular protein to be metastable. V.A.Belitser recommends to distinguish denaturation from some other slight modifications of structure. V.I.Kasatochkin, R.A.Dulitskaya examined kinetics and thermodynamics of renaturation under pressure. M.B.Kalmakarova on the modification of structure of complex D.N.Shigorin, N.V.Mikhaylov examined the typical bands in infrared adsorption spectra. N.S.Andreyeva recommended a new classification of the kinds of polypeptide chains according to structure. M.I.Millionova, N.S.Andreyeva constructed a model of polymer Card 2/4

FOR REPAIRS IN A CONSTRUCT OF THE REPAIRS Biologically Active Polymer Compounds. All Union Conference on Highly Molecular Compounds. SOV/30-58-9-42/51 - A.L.Zaydes on characteristics of various collagens. - Yu.A.Vladimirov, S.V.Konev on the mechanism of energy migration of light quanta in protein. M.S.Volkova, A.G.Pasynskiy made use of the radiation method for molecular weight determination of protein. G.V.Samsonov, R.B.Ponomareva, L.V.Dmitrenko gave particulars on the chromatographic purity determination of protein. A.N.Belozerskiy spoke about the composition of nucleinic acids secreted by micro-organisms and plants. V.S.Diskina, V.S.Tongur, D.M.Spitkovskiy spoke about the production of desoxy nucleoproteids by means of serum albumin and a-Chymotrypsin. S.Ye.Bresler, Kh.H.Rubina on the part played by ribonucleic acid in the fermentative biosynthesis of protein. M.A. Prokof'yev and Z.A. Shabarova mention experimentally obtained data on the synthesis of derivatives of amino acids with nucleotides and nucleosides. Card 3/4

Biologically Active Polymer Compounds. All Union Conference on Highly Molecular Compounds.

SOV/30-58-9-42/51

CANARA STRUCTURE OF S

A.S. Spirin and L.P. Gavrilova reported on the results of investigations of ribonucleic acid of the tobacco mosaic virus. P.S. Vasil'yev spoke about the protein structures which are necessary for blood-transfusion. M.F. Shostakovskiy about how polyvinylpyrrolydone is obtained and how it is used as blood substitute. M.G. Brazhnikova dealt with the investigation of a large group of antibiotics of polypeptide type. The members of the conference stressed the necessity of the establishment of a special institute for protein research. It was recommended to promote the training of teams in the corresponding fields of science.

Card 4/4

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001234
 BUDNITSKAYA, Ye.V., BORISOVA, I.G., PASTNSKIY, A.G.
 Ghanges in the lipid metabolism of plants caused by ionising radiations (with summary in Bnglish). Biokhimiia 23 no.650849-855 B-D '58 (NIRA 11:12)
 1. Institut biokhimii imeni A.B. Bakha AW SSSR, Noskva. (LIPID METABOLISM) (PLANTS, EFFECT OF X RAIS ON)

持续任务等于出现

AUTHORS :	SOV/20-12c-1-38/63 Budnitskaya, Ye. V., Borisova, I. G., Pasynskiy, A. G.
fitle :	The Influence of Ionising Radiations on the Activity of Lipoxidase in Seedlings of Various Plant Species (Deystviye ioniziruyushchikh izlucheniy na aktivnost' lipoksidazy v prorostkakh rasteniy razlichnykh vidov)
PERIODICAL:	Doklady Akademii Nauk SSSR, 1958. Vol. 120. Nr 1, pp.140-143 (USSR)
ABSTRACT:	In earlier published papers (Refs 1, 7) the authors of this and other papers proved that lipoxidase is resistant against irradiation in vitro. In this paper the effect of x-ray irradiation in vivo on soy beans. peas, beans, (Phaseolus), wheat and maize is examined. The method of irradiation and examination of the mentioned activity is described. By means of the method described the dependence of lipoxitase activity in the leaves of seedlings of various plant species upon the dose of x-ray irradiation was determined. The activity in seedlings not irradiated was found to amount to 100 $\%$. Re- sults are shown in table 1. Herefrom it was possible to con-

30V/20-120-1-38/63 The Influence of Ionising Radiations on the Activity of Lipoxidase in Seedlings of Various Plant Species

> clude that the lipoxidase of various plant species does not react in the same way when irradiated. Thus the irradiation of corn seedlings with 1000 to 50 000 r leads already 2 - 4 hours after irradiation to a slight decrease of activity; later (after 24 to 48 hours) there is a sudden drop. On the other hand, the lipoxidase of wheat, beans and soy beans is being "activated" by the same dose within 24 hours after irradiation. Similar results are known in the case of other ferments (Refs 3 - 5, 7 - 12). In order to be able to explain the activation mechanism of the lipoxidase the authors studied the permeability change of the plant tissue in radiation. In this connection the fact was taken into account that the increase of permeability may be coupled with the increase of the effective ferment amount (Refs 3 - 6). The method employed in this case is described (Ref 15). Results are shown in table 2. It follows that the increase of lipoxidase activity in the experiments in vivo takes a course similar to that of the modification of the relative permeability of the tissue, Finally, the chemical changes of the free lipides in the leaves during irradiation were examined. From table 3 it may

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対象法で

30V/20-120-1-38/63 The Influence of Ionising Radiations on the Activity of Lipoxidase in Seedlings of Various Plant Species be seen that in the fraction of free lipides the irradiated bean leaves contain 6 times as many peroxides as the leaves which were not irradiated. Irradiation in vivo requires much smaller doses to show changes in the lipoxidase system than the experiment in vitro. The occurrence of an activation phase of the ferment system in the case of not very high doses and of incubation of short duration is typical of experiments in vivo. The change of the relative permeability of the seedling leaves (Table 2) shows that during the ionizing irradiation a disturbance of the inner cellular structure takes place, which facilitates a washing out of electrolytes into the outer milieu (zones). This probably explains the changes in lipoxidase activity. There are 3 tables and 23 references, 13 of which are Soviet. ASSOCIATION: Institut biokhimii im. A. N. Bakha Akademii nauk SSSR (Institute of Biochemistry imeni A. N. Bakh, AS USSR) Card 3/4

这些是我们的关系,我们们们的学生。""你们们的学生。"

SOV/20-120-1-38/63 The Influence of Ionising Radiations on the Activity of Lipoxidase in Seedlings of Various Plant Species PRESENTED: January 3, 1958, by A. I. Oparin, Member, Academy of Sciences, USSR SUBMITTED: January 2, 1958 1. Phospholipids--Chemical reaction 2. Seeds--Test methods 3. X-rays--Biochemical effects Card 4/4

PHASE I BOOK EXPLOITATION SOV/3659

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Pasynskiy, Anatoliy Germanovich

- Kolloidnaya khimiya (Colloidal Chemistry) Moscow, Gos. izd-vo "Vysshaya shkola," 1959. 264 p. 12,000 copies printed.
- Ed. (Title page): V.A. Kargin, Academician; Ed. (Inside book): A.B. Luk'yanov; Ed. of Publishing House: T.G. Lipkina; Tech. Ed.: S.S. Gorokhova.
- PURPOSE: This is a textbook for biology majors in universities and correspondence schools and may also be useful to scientific workers and engineers.
- COVERAGE: The book describes the general characteristics of colloidal systems including the molecular, kinetic, optical, and electrochemical properties of colloids and their stability and coagulation. It also describes the properties of solid polymers and explains the phenomena of surface tension and adsorption as well as the nature of emulsions, aerosols, gels, foams, and solutions of high-molecular substances. The author thanks Academician

Card 1/7

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Colloidal Chemistry	SOV/3659	
V.A. Kargin and P.A. Rebinder and Professor S.I are 22 references, all Soviet (including 5 transla		There
TABLE OF CONTENTS:		
Preface		
 Ch. 1. General Characteristics of Colloidal Systems Practical importance of colloidal systems Outline of the development of colloidal chemistry Nature of colloidal systems Methods of producing colloidal systems Principal types of colloidal systems Conclusions Problems Ch. 2. Molecular and Kinetic Properties of Colloids Brownian movement Diffusion Osmotic pressure 		3 4 7 8 14 20 23 27 28 29 29 30
Card 2/7		33







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VIROVETS, O.A.; PASYNSKIY, A.G.

建设计算机的时间,在在这些问题,我们就是这些正常的问题,在这些问题,

Effect of ionizing radiations on oxidative processes in tea and tobacco leaves. Biokhimiia 24 no.5:922-928 S-0 '59. (MIRA 13:2)

1. Institut biokhimii im. A.N. Bakha Akademii nauk SSSR, Moskva. (PLANTS, EFFECT OF I RAYS ON) (OXIDATION, PHYSIOLOGICAL) (TEA) (TOBACCO CURING)

KOMAROVA, L.V.; PASYNSKIY, A.G.

NEW CONTRACTOR OF THE PARTY OF

Aggregation of protein molecules in reversible denaturation. Ukr.biokhim.zhur. 31 no.1:5-11 '59. (MIRA 12:6)

1. Yaroslav Medical Institute, A.N.Bakh Institute of Biochemistry, Noscow.

(PROTEINS)

17 (3,10) AUTHORS:	Virovets, O. A., Pasynskiy, A. G. SOV/20-128-2-52/59
TITLE:	Effect of Ionizing Radiation on Oxidation Processes in Leaves of Tea and Tobacco Plants
PERIODICAL:	Doklady Akademii nauk 335R, 1959, Vol 128, Nr 2, pp 407-410 (USSR)
AB3TRACT:	The oxidation processes of the tannins and polyphenol substances, as well as the glucosides, are of high importance in the fermentation of tea and tobacco, and greatly determine the quality of the end product. In a usual fermentation, the said processes are a consequence of the effect of various oxidation ferments (of the polyphenol oxidases, etc). Therefore, the possibilities for the influence of ionizing radiation were investigated, especially because they produce, in living cells, a large quantity of radiolysis products of the water - the radicals OH, O_2H and H_2O_2 - all of which are highly oxidizing
ard 1/3	agents. Thus, a direct oxidation of the substrata under the influence of radiation, as well as a change in the course of fermentative oxidation processes in plant leaves, could be expected. An X-ray irradiation was performed with dosages of

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Effect of Ionizing Radiation on Oxidation Processes SOV/20-128-2-52/59 in Leaves of Tea and Tobacco Plants

5000 - 10,000 and 65,000 r/min, respectively. An electron irradiation was carried out at the Institut fizicheskoy khimii AN SSSR (Institute of Physical Chemistry, AS USSR) with a dosage of 3 million r/min. Figures 1 and 2 show the dependence of the radiation effect on the duration and temperature of incubation after irradiation. Table 1 indicates the quantity of oxidized tannin (in %) produced in an incubation of different duration in air and nitrogen. Table 2 shows the effect of the electron bundle on tobacco leaves. The results of the present paper revealed that the tannin oxidation in an irradiated tea leaf is effected by ferments (Fig 1). It is, however, of essential importance that the accumulation of oxidized tanninforms proceeds in an entire leaf irradiated whereas in the leaf not irradiated no oxidized tannin is present; it only begins to appear when the leaf is pulverized. From this, it is concluded that the ionizing radiation in the entire leaf effects a disturbance of the structural organization. This dis turbance favors the contact of the ferment with the substratum, as it is the case in a mechanical destruction of the

Card 2/3

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	izing Radiation on Oxidation Processes 307/20-128-2-52/59 Tea and Tobacco Plants
	tissues. Similar conclusions were drawn from experiments with tobacco leaves (Table 2), although the oxidation processes here proceed more slowly due to a lower moisture during fermentation. At present, the practical utilization of these results is prevented by the deficiency of radiation sources which are strong enough. Professor M. A. Bokuchava and G. S. Il'in helped by giving valuable hints. There are 2 figures, 2 tables, and 3 Soviet references.
ASSOCIATION:	Institut bickhimii im. A. N. Bakha Akademii nauk SSSR (Institute of Biocnemistry imeni A. N. Bakh of the Academy of Sciences, USSR)
RESENTED:	May 27, 1959, by A. I. Oparin, Academician
UBMITTED:	May 25, 1959
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• •	PHASE I BOOK EXPLOITATION SOV/5628	•	
i i	Akademiya nauk SSSR. Institut biologicheskoy fiziki		
	Rol' perckiscy i kisloroda v nachal'nykh stadiyakh radiobiolo- gicheskogo effekta (Role of Peroxides and Oxygen During Primary Stages of Radiobiological Effects) Moscow, 1960. 157 p. 4,500 copies printed.		; ; ;
	Responsible Ed.: A. M. Kuzin, Professor; Ed. of Publishing House: K. S. Trincher; Tech. Ed.: P. S. Kashina.		2 X
ł	PURPOSE : This collection of articles is intended for scientists in radiobiology and biophysics.		
!	COVERAGE: Reports in the collection deal with the role of per- oxides and oxygen in the primary stages of a radiobiological effect. They were presented and discussed at a symposium held December 25-30, 1958, organized by the Institut biofiziki AN SSSR, (Institute of Biophysics, AS USSR). Twenty-eight Moscow scientists, radiobiologists, radiochemists, physicists, and		
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Role of Peroxides and Oxygen (Cont.)	80V/ 5628	
physical chemists took an active part in the time of its conclusion and the public book some of the materials were expanded. authors the following scientists particip L. A. Tummerman, V. S. Tongur, G. M. Fran Grayevskiy, N. N. Demin, B. N. Tarusov, a References follow individual articles.	ation of the present In addition to the sated in the discussion: k. Yu. A. Kriger, E. Ya.	
TABLE OF CONTENTS:		
Kuzin, A. M. [Institut biologicheskoy fiziki Biophysics, AS USSR]. Role of Formation of Action of Radiation on Biological Specimens	AN SSSR - Institute of Peroxides During the 3	
Bakh, N. A. [Institut elektrokhimii AN SSSR chemistry, AS USSR]. Formation of Organic P Action of Radiation	- Institute of Electro- Peroxides Under the 9	
Dolin, P. I. [Institute of Electrochemistry, Intermediate States Arising During the Actio Aqueous Solutions Card-25-	, AS USSR]. Lifetime of on of Radiation on 20	
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Role of Peroxides and Oxygen (Cont.) SOV/5628	3	į	
Electron Paramagnetic Resonance Method	99	1	
El'piner, I. Ye, and A. V. Sokol'skaya [Institute of Bio- physics, AS USSR]. Effect of Inert Gases on Oxidation Pro- cesses in an Ultrasound-Wave Field	105	:	
Shekhtman, Ya. L. [Institute of Biophysics, AS USSR]. Oxyg and the Theory of Primary Radiobiological Effect	gen 116		
Eydus, L. Kh. [Institute of Biophysics, AS USSR]. Phenomer of Oxygen Aftereffect in Radiobiology	non 136		
Ardashnikov, S. N. Certain Regularities in the Oxygen Effect	st 146	, ;	
Pasynskiy, A. G., and T. Ye. Pavlovskaya [Institute of Bio- chemistry imeni A. N. Bakh, AS USSR]. Dependence of the Oxygen Effect on the Correlation of the Dose and the Sub- strate Concentration in Irradiated Cysteine Solutions	- 153		
AVAILABLE: Library of Congress			
Card 5/5 J.	A/dfk/jw 10-6-61		
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TONGUR, A.M.; PASYNSKIY, A.G.

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Changes in the surface properties of irradiated desoxyribonucleoprotein and desoxyribonucleic acid. Biofizika 5 no. 5:517-522 '60. (MIRA 13:10)

1. Institut biokhimii imeni A.N. Bakha, Moskva. (NUCLEOPROTEINS) (DESOXYRIBORUCLEIC ACID) (X RAYS-PHYSIOLOGICAL EFFECT)





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PAVLOVSKAYA, T.Ye.; PASTRSKIY, A.G.; G ... MIKOVA, A.I.

Production of amino acids by ubjection of formaldehyde and ermonium salt solutions to the action of ultraviolet rays in the presence of absorbents. Dokl. All SSSR 135 no.3:743-746 1 '60.

1. Institut biokhimii in. A.N. Bakha Akade ii nauk SBR. Predstavlenc Fud. A.I. Cuarinym. (A)IIIO ACIDS) (ULTLAVIOLET HAYS)

PASYNSKIY, A.G.; FAVLOVSKAYA, T.Ye.

Mechanism of the oxygen effect in radiation oxidation of mercapto croups in cysteine and egg albumin. Dokl. AN SSSR 135 no.4:998-1001 '60. (MIRA 13:11)

1. Institut biokhimii im. A.N. Bakha Akademii nauk SSSR. Predstavleno akademikom A.I.Oparinym. (Mercapto group) (X rays--Physiological effect) (Oxygen--Physiological effect)


PASTNSKII, A.G.; DECHEV, G.D. Excitation of living cells as a shift of steady state of open systems. Isv. AN ASSR. Ser. biol. no.4:497-503 Jl-Ag '61. (MIRA 14:9) 1. Institut biokhimii im. A.N.Bakha AN SSSR, g. Moskva i Biologicheskiy institut Bolgarskoy Akademii nauk, g.Sofiya. (BIOCHEMISTRY)

 PASYNSKIY, A.G.

 Role of radiation injury of intracellular interfaces in the biological effect of ionizing radiations. Padiobiologiia 1 no.1: 3-9 '61. (MIRA 1.4: 7)

 1. Institut biokhimii im, A.N.Baki, Moskva.

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PASYNSKIY, A.G.; VIROVETS, O.A.

Enzymatic decomposition of urea under conditions of an open system. Biokhimila 26 no.2:332-337 Mr-Ap '61. (MIFA 14:5)

1. Institute of Biochemistry, Academy of Sciences of the U.S.S.R., Moscow.

(UREA)

SLOBODSKAYA, V.P.; PASYNSKIY, A.G. Dependence of enzyme activity on concentration with regard to their theavior in coacervates. Dokl. AN SSSE 137 no.3:715-718 Mr '61. (MIRA 14:2) 1. Institut blokhimii im. A.N.Bakha AN SSSE. Predstavleno akademikom A.C.Oparinym. (NITMES) (COACKRVATES)

1

PASYNSKIY, A. G. and PAVLOVSKAYA, T. Ye.

"On the Mechanism of of the Effect of Oxygen During Irradiation of Proteins"

paper presented at the Symposium on Biological Effects of Ionizing Radiation at the Molecular Level (IAEA), 2-6 July 1962, **Brno**, Csech.

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R00123

的问题: 书书记录 PASYNSKIY, AG. Padiation Chemistry in Two-Phase Systems Tursday Afternoon Sestion B -4 -2 (Contd.) (e) The Role of Radiation-Induced Damage to Interphases in the Biological Action of Radiation A. G. Pasynskil, M. S. Volkova, A. M. Tongur and 1. M. Komarova The measurements of dry and moist camples of DNA in an electron microscope show that irradiation not only The measurements of dry and moist temples of DNA in an election microscope show that itradiation not only destroys DNA molecules but also causes them to coil up. The appearance of chemical cross-links in monelacers of DNA disturbs the structure and increases (the area of the monelayer. A result of such a radiation-induced distur-bance of the organization of the structure of thin surface layers (including nucleic acids) is a compression scheme of their permeability. A considerable increase of enzymatic reaction rates after irradiation could be shown on a model system in which the enzyme perovides and the substrate ancorbic acid were separated by a layer of RNA shout 160 Å thick. Similar phenomena are being investigated in systems with lipoproted interphases. Radiation damage to the structural organization of membranes plays an important role in the disturbance of the oxidation rate of succinic acid by isolated liver mitchondria, and in leaf tissues of various plausit (ta, beans, etc.) in which disruption of enzymatic oxidative processes occurs. The changes in intracellular molecular surfaces can be the source of all subsequent biochemical disturbances and or radiation disease in living cells. Institute of Birdogical Chemistry, Academy of Sciences, Moscow, USAR report presented at the 2nd Intl. Congress of Radiation Research, Harrogate/Yorkshire, Gt. Brit. 5-11 Aug 1962

APPROVED FOR RELEASE: Wednesday, June 21, 2000

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"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R00123!

PASYNSKIY, N.G. (c) ÷) The Mechanism of the Oxygen Effect in Proteins 1-1 T. E. Pasionskays and A. G. Pasyncki **I.** E. Partorskaya and A. G. Parynky Oridation of SH-groups was measured to evaluate the oxygen effect in solutions of proteins after X- or φ irradiation in air, (a ratio of in N₊. For cysteine solutions is the oxygen effect was replained quantitively by the indirect effect of the radiation. The value of the oxygen effect was replained quantitively by the indirect effect of the radiation. The value of the oxygen effect was replained quantitively by the indirect effect of the radiation. The value of the oxygen effect was replained quantitively by the effect in to be expected for different parts of the cell, and for different criteria of damage. The value of the oxygen effect in protein solutions was largely determined by the hydroger bonds of the SH-groups. In sectio or N₊, the SH-groups of erg abbunch were not oxidized even after high dores (fOOND eff; when the subtance was irradiated in the presence of quantiline in mean or in air, oxidiation of the SH-groups proceeded normally, as it did in nolutions of simple thols. This was evidently the result of the rupture of H-bonds in the subtance was irradiated but was almost two orders greater than the number of SH-groups validized corresponded exactly to the radiation down, but was almost two orders greater than the number of micrals as measured in the same student of turblich show a lower degree of aggregation of the protein malecule, and the measurements of turblich show a lower degree of aggregation of the protein molecules, and upon the conductions of the rupture and rearrange-ment of intermed by birders is the protein molecule, and upon the conditions of the rupture and rearrange-ment of intermed bridges. ment of intermolecular bridges. Institute of Biological Chemistry, Academy of Sciences of the USSR, Mascow report presented at the 2ni Intl. Congress of Rediation Research, Enrogate/Yorkshire, Gt. Brit. 5-11 Aug 1962

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP8

CIA-RDP86-00513R001239

C.

	113:229
•	5/844/62/000/000/042/129 D214/D307
UTHORS:	Pasynskiy, A. G. and Pavlovskaya, T. Ye.
ITLE:	The mechanism of the oxygen effect in the action of ioniz- ing radiation on albumins
SOURCE :	Trudy II Vsesoyuznogo soveshchaniya po radiatsionnoy khi- mii. Ed. by L. J. Polak. Moscow, Izd-vo AN SJJR, 1962, 252-255
sured as	e 0_2 -effect in irradiated cysteine and egg albumin was mea- the ratio of -SH groups oxidized in the presence of 0_2 and . With a high excess of the substrate, the 0_2 effect in
cysteines 104 – 5 x unity as bumin sol	olutions (8 x 10^{-4} - 2.5 x 10^{-9} M; dose of x or 7 rays: 10 ⁵ r) reaches the theoretical maximum of 3, falling to the excess is decreased. The oxidation of -SH in a 2% al- ution occurs only in the presence of 0 ₂ . In vacuum, oxida-
	obtained in the presence of 4.9 M guanidine which causes a
tion was	

The mechanism of ...

的服务的补偿的保留的保留的外生活。

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rupture of the H-bond which activates the -SH. The oxidation is intensified on introducing 0_2 . Exposure of dry albumin to maintain eliminates the indirect action of 0_2 (via H 0_2). A dose of 10^6 r uses not cause oxidation in vacuum, although a dose of p x 10^6 r leads to a 12% oxidation of the -SH, which rises to 24% in an atmosphere of 0_2 . The action of radiation on 0_2 gives 0_2 which ruptures the Hbond and promotes oxidation of -SH. 0_2 exhibits the same influence on irradiated nucleic acid, which explains the effect of pxygen in living cells. There are 1 figure and 2 tables.

ASSOCIATION: Institut biokhimii im. A. N. Bakha, AN Sook (Institute of Biochemistry im. A. N. Bakh, AS USSR)

Card 2/2



"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00123!
PASYNSKIT, A.G., prof.
Some problems of biochemical cybernetics. Vest.AN SSSR 32
(MIRA 15:5)
no.4:25-31 Ap '62.
(Biochemistry) (Cybernetics)

PASYNSKIY, A.G.: SLOBODSKAYA, V.P.

Dynamic stability of enzymatic coacervates in substrate solutions. Dokl. AN SSSR 153 no.2:473-476 N '63. (MIRA 16:12)

1. Institut biokhimii im. A.N.Bakha AN SSSR. Predstavleno akademikom A.I.Oparinym.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001239

PASYNSKIY A.G. AND NF. 972-20 21 May EFFECT OF OXYGEN ON BOUND PIGMENTS IN IRRADIATED PROTEINS (USSR)

学校部长来和教授

Pavlovskaya, T. Ye., and A. G. Pasynskiy. IN: Akademiya nauk SSSR, Doklady, v. 149, no. 4, 1 Apr 1963, 976-978. S/020/63/149/004/025/025

Attempts were made to measure the amount of bound oxygen in nonirradiated human serum albumin and in human serum albumin exposed to a 130,000-r dose of x-rays in vacuum and in air. Malachite green was added to the samples immediately after irradiation. The mean measurement results were as follows:

Serum albumin sample	Molecules of bound pigment per molecule of albumin	• •
Nonirradiated Irradiated in vacuum Irradiated in air	1.0 3.0 2.0	
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APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001239[,]

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001239 AID Nr. 972-21 21 May 8/020/63/149/004/025/025 EFFECT OF OXYGEN [Cont'd] The observed decrease in the bound pigment content of albumin irradiated in air may be explained by the displacement of pigment by oxygen, Since the decrease in the bound pigment content does not exceed 1 molecule per molecule of albumin, it is assumed that the bound oxygen content of irradiated albumin has a similar value. [AB] 1. Inst. Biochemistay in A.N. Batch, Acad. Sch. USSR Card 2/2





DECHEV, G.D.; MOISEYEVA, L.N.; PASYNSKIY, A.G. Role of the inhibition of enzymes by reaction products in an open system. Dokl. AN SSSR 151 no.3g725-728 J1 '63. (MIRA 16:9) 1. Institut blokhimii im. A.N.Bakha AN SSSR. Predstavleno akademikom A.I.Oparinym. (Enzymes) (Inhibition (Chemistry))

ACCESSION NR: AP4015081

s/0205/64/004/001/0029/0035

AUTHOR: Pasy#nskiy, A. G.; Volkova, M. S.; Komarova, L. V.

TITLE: Effect of radiation damaged nucleoprotein and lipoprotein separating membrane surfaces on enzyme reaction rates

SOURCE: Radiobiologiya, v. 4, no. 1, 1964, 29-35

TOPIC TAGS: radiation damage, nucleoprotein membrane surface, lipoprotein membrane survace, enzyme reaction rate, substrate oxidation rate, dehydrogenation reaction, radiosensitivity, membrane surface permeability, lipoid component, RNA

ABSTRACT: Nucleoprotein and lipoppotein membrane surfaces separating the enzyme from the substrate were studied in a series of experiments. Nucleoprotein membrane surfaces were investigated in irradiated crystalline peroxidase suspensions in which the particles were separated from the ascorbic acid substrate by a thin ribonuclooprotein film (radiation doses not given). Lipoprotein membrane surfaces were investigated in irradiated (20-70 kr doses) artificial lipoprotein complexes and in isolated rat liver mitochondrion suspensions. Enzyme reactions were determined in the peroxidase suspensions and in the Cordl/3

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ACCESSION NR: AP4015081

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artificial lipoprotein complexes by substrate oxidation rates. In the mitochondrion suspensions a polarographic method was used to determine the dehydrogenation reaction of succinic acid to fumaric acid catalyzed by succinodehydrogenase, a mitochondrion enzyme. Findings show that nucleoprotein membrane surfaces are highly radiosensitive and their enzyme reactions are accelerated by 30-40% as a result of increased permeability of the radiation damaged surfaces. But, lipoprotein membrane surfaces display high radioresistance to doses up to 50 lor and enzyme reactions do not change. Radioresistance of the lipoprotein membrane surface is attributed to its lipoid component which has the capacity to spread out and protect the membrane from increased permeability and other structural damage. Nucleoprotein membrane surface permeability is affected by as few as 1 to 2 ionizations taking place in a membrane surface layer containing over 1,000 RNA molecules. Thus, nucleoprotein membrane surfaces play an important role in the development of biochemical damage in the cell. Orig. art. has: 4 figures.

ASSOCIATION: None

Card 2/3

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001239



PASYNSKIY, A.G.; PAVLOVSKAYA, T.Ye.

ALL DESCRIPTION OF

Formation of biochemically important compounds during the prebiological stage of earth evolution. Usp. khim. 33 no.10:1198-1215 0 '64. (MIRA 17:11,

1. Institut bickhimii imeni A.N. Bakha AN SSSR.





物**于教师教生的和学校的教师教育和教育和教育和教育和教育和**社会和学校和学校

KOLESNIKOV, G.S., otv. red.; ANDRIANOV, K.A., red.; DOGADKIN, B.A., red.; DOLGOPLOSK, B.A., red.; YENIKOLOFYAN, N.S., red.; KARGIN, V.A., red.; KOZLOV, P.V., red.; KOROTKOV, A.A., red; KORSHAK, V.V., red.; LAZURKIN, Yu.S., red.; MEDVEDEV, S.S., red.; MIKHAYLOV, N.V., red.; PASYNSKIY, A.G., red.; SLONIMSKIY, G.L., red.; SMIRNOV, V.S., red.; TSVETKOV, V.N., red.; FREYMAN-KRUPENSKIY, D.A., tekhn. red.

ASSISTER SHOL

[Heterochain high-molecular weight compounds] Geterotsepnye vysokomolekuliarnye soedinenila; sbornik statei. Moskva, Izd-vo "Nauka," 1963. 246 p. (MIKA 17:3)







ASTSHIN, I.I.; BOHDARKENKO, A.T.
Metallic osteosynthesis of the hip in district hospitals. Zdrav.Turk. 2 no.5:33-35 So '58. (MIRA 12:6)
I. Is khirurgicheskogo dteleniya Bayran-Aliyskoy rayonnoy bol'nitsy (glavnyy yarch - A.V.Markina). (HIP JOINT--FRACTURES)

PASYUK, A.S.; GO TSI-TSYAN' [Kuo Ch'1-oh'ien]

LIVICO

Production of carbon, nitrogen, oxygen, neon, and argon ions in a pulse source and their acceleration in a cyclotron. Prib. i tekh. eksp. 10 no.l:28-33 Ja-F '65. (MIRA 18:7)

1. Ob"yedinennyy institut yadernykh issledovaniy.

	State Providence State	
. <u>61696-65</u> Ε/ΙΤ(1)/ΕπΤ(m)/ΕΡΑ(sp)-2/ΕΡF(c)/ΕΡΑ ACCESSION NR: AP5016378 PT-4/Peb IJP(s) J JG/AT	(w)-2/EEC(t)/EWP(t)/EW D/ UR/0120/65/000/0 537.534.2	N7 1
AUTHOR: Pasyuk, A. S.; Tret'yakov, Yu. P.; Sta	anku, V.	4/54
TITLE: Cathode sputtering in an arc-type ion as	purce 2	В
SOURCE: Pribory i tekhnika eksperimenta, no.	3, 1965, 42-45	÷
TOPIC TAGS: cathode sputtering, arc ion source accelerator ABSTRACT: The effect of the operating conditi opcillating discharge on the rate of cathode s operated in a magnetic field of 5 koe under a frequency of the master oscillator was about 1 1 µsec. Discharge voltage and arc current in respectively. The current and voltage pulses to 10%. The cathode material was polycrystall of 18.7 g/cm ² . The amount of sputtering was of fore and after the experiment. Weight loss we mert and the side of the cathode facing the di Card 1/2	ons of an arc-type ion puttering was studied, vacuum of (0.6-2) 10 ⁻ .00 cps; pulse duration the pulse were 200-11 were rectangular, with ine tungsten with a sp intermined by weighing as 0.11-1.45 g. The	h source with an The source I mm Hg. Pulsing h was about 100 v and 240 amp, th a droop of up pecific weight the cathode be- discharge fila-
	 A second sec second second sec	

n an	and the second
61690-65 CCESSION NR: AP5016378	
athode. As the crater grew, nd the flux density of <u>tungs</u> ependence of the cathode spu rc current and discharge vo are as follows: 1) Cathode	er varying in depth to 4 mm formed on the side of the , the amount of sputtering per unit of time decreased, stendparticles escaping from the crater increased. The uttering rate on the type of gas fed to the source and ltage in the pulse were also determined. The conclusions sputtering in an ion source with an oscillating arc and used mainly by tungsten ion bombardment; 2) the rate of tionel to the arc current and to the square of the dis-
athode sputtering is propor	used mainly by tungsten ion bombardmens, if, if, is dis- tional to the arc current and to the square of the dis- e exception of oxygen and hydrogen, it depends only to of gas used. Orig. art. has: 5 figures and 1 table. [DW]
athode sputtering is proportional to the sputtering is proportion to the sputtering is proportional to the s	e exception of oxygen and hydrogen, it depends only to of gas used. Orig. art. has: 5 figures and 1 table. [DW]
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athode sputtering is proportional to the sputtering is proportion to the sputtering is proportional to the s	e exception of oxygen and hydrogen, it depends only to of gas used. Orig. art. has: 5 figures and 1 table. [DW] institut yadernykh issledovaniy, Dubna (Joint Institute
athode sputtering is propor harge voltage, and, with th slight degree on the type ASSOCIATION: Ob"yslinennyy of Nuclear Research)	e exception of oxygen and hydrogen, it depends only to of gas used. Orig. art. has: 5 figures and 1 table. [DW] institut yadernykh issledovaniy, Dubna (Joint Institute ENCL: CO SUB CODE: EC
athode sputtering is propor harge voltage, and, with th i slight degree on the type association: Ob"y inennyy of Nuclear Research) SUBMITTED: 21Apr64	e exception of oxygen and hydrogen, it depends only to of gas used. Orig. art. has: 5 figures and 1 table. [DW] institut yadernykh issledovaniy, Dubna (Joint Institute
athode sputtering is proportional and the sputterin	e exception of oxygen and hydrogen, it depends only to of gas used. Orig. art. has: 5 figures and 1 table. [DW] institut yadernykh issledovaniy, Dubna (Joint Institute ENCL: CO SUB CODE: EC

ACCESSION NR: A	EPA(w)-2/EMA(m)-2 P P5007019	ab-10/Pt-7 IJP(c) S/0120/65/000/6	01/0028/0033	4/2
AUTHOR: Pasyuk,	A. S.; Kou, Ch'i-cl	n'ien		37
TITLE: Production impulse source and	a of carbon, nitrogen I their acceleration in	, oxygen, neon, and 1 <u>cyclotrons</u>	l argon ions in an	£.
SOURCE: Pribory	i tekhnika eksperime	nta, no. 1, 1965, 2	8-33	1. 19
TOPIC TAGS: ion	source, impulse ion	source / U-300 cyc	lotron, U-150 cyclo	tron
emission slit, (b) 1 and (c) mode of op investigated. The practically did not obtained with the ga discharge power, c average A_{40}^{47} ion cu	e 3-meter U-300 cyc location of the gas ad eration of the source collector probe was a change with slits wid as admitted near the athode-heating power trrent was 5 ma and iron, the effects of th	mission into the gas upon the multichar set at a 100-cm rad er than 2.5 mm. T cathode. Plots of t r, and gas pressure A_{40}^{+8} current was 0.1	e-discharge chambe ge-ion yield were lus. The ion curren he best results wer he ion current vs. a are reported. The B-Ma, On the 1.5-	er, net sec-
Cord 1/2				
	ى يې د است مېږې کومې وغوان کې وغې کې کې وغې کې وې د وې	الي ويونية بالمنهنة من المانية مردية المنظرية () . المانية () . 	in a state of the	
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47085-65 CCESSION NR: AP5007019	6	
and the second secon		
it length over 20 mm has no justification; good ve	e tabulated. The average mero	
n current was 1.2 Ma and Ne to current was 0.01 thors wish to thank G. N. Flerov for his attentio	ma at a radius of 50 cm. In on to the work with the ion ma: D. A. Kirzhnits, P. M.	e
and n Makey who participated in dis	chastus tuo Lennin, and L	
anka for his/her help in operating the U-150." C	Jig. art. nas. 4 ingutts,	· · · · ·
formulas, and 5 tables.	A Loughin / Taint Nuclos-	
SSOCIATION: Ob"yedinennyy institut yadernykh i esearch Association)	18816doyamly (Joint Muclear	
UBMITTED: 19Jan64 ENCL: 00	SUB CODE: NP	
O REF SOV: 907 OTHER: 003		



CIA-RDP86-00513R001239 "APPROVED FOR RELEASE: Wednesday, June 21, 2000

PASYUK Distr: 4E3d 3325 STRIPPING REACTION IN THE INTERACTION OF AC-CELERATED NITROGEN IONS NILWITH THE NUCLEI OF SOME ELEMENTS. V. V. VOIKOV/A. 8. PAAVIL. and G. N. FICTOR JACAdomy of Sciences. USSII. 2 Sur. Ekepti'. Theorem. Fiz. 33, 693-601(1967) Sept. (In Russian) The formation of the radioactive isotope N¹³ was The formation of the radioactive isotope N13 was observed when - 160 Mev cyclairon accelerated allrowen ions N¹⁴ bombarded foils of Al, Ni, Cu, Ag, Su, and Cd, Measurements of the angular distribution showed that the Nil muclei are emitted in a comparatively narrow angle No nuclei are emitted in a comparatively narrow angle range. The angle corresponding to maximal intensity increases with Z. If the energy or the bembarding particle exceeds the height of the Coulomb barrier the effective cross section for production of N¹¹ will weakly depend on the angle of the coulomb barrier to the the the the energy. The cross section is equal to ~ 30 mb for Mi and ~ 12 mb for AI. (ir-suth)

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001239

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UTHOR: <u>Kul'kina, L.P.; Pasyuk, A</u> RG: none ITLE: Distribution of the relativ he gas discharge in a source of mu	€	51 53 B
RG: none ITLE: Distribution of the relativ	€	$\left \begin{array}{c} \mathbf{B} \\ \mathbf{B} \\$
ITLB: Distribution of the relativ	e concentration of atoms and ions	
ITLE: Distribution of the relativ he gas discharge in a source of mu	e concentration of atoms and ions	
ne fas discuside in a sonice oi mu		a along and across
	Itiply charged lons 5	
OURCE: Zhurnal tekhnicheskoy fizi	k1, v. 36, no. 4, 1966, 728-734	
BSTRACT: The authors have employe ecording to measure the intensitie ad singly and doubly charged ions	s of near ultraviolet lines of Ne and of Ne and Ar triply charged i	e, Ar, and Kr atoms ions in the reflex
ischarge of an ion source. The di 5 mm long between flared ends, and athode and the somewhat larger (us 10 mm apart in the flared ends of	served as the anode. The 7 nm a ually molybdenum) anticathode wor	square hot tungsten
hree ports near the center for adm	ission of gas. The discharge tub	be was operated
ith a gas pressure of 0,001 mm Hg	at a potential of 600 V and a cur 1 magnetic field. Suitable slots	rrent of 10A in
ne blesence of # 3 Kee Toubitnuius		
all of the chamber were imaged on	the spectrograph slit and in this	s way the distri-
all of the chamber were imaged on		8 way the distri- C: 533.9.07

L 28486-66 ACC NR: AP6013129

Ď bution throughout the discharge of the intensities of the different lines was measured. The intensity distribution of all the lines due to any one gas, regardless of the state of ionization was the same. The intensities of the lines of all three gases were maximum near the center of the discharge tube, the maxima being slightly closer to the molybdenum anticathode for the heavier atoms (and ions). The argon discharge was examined with molybdenum, copper, and ion anticathodes, and the intensity distributions of lines of the anticathode materials, as well as those of argon, were recorded. These anticathode materials were selected for study because of their different behaviors as regards cathode sputtering. The intensity distribution of the argon lines with the steel anticathode was very similar to their intensity distribution with the molybdenum anticathode. With the copper anticathode, however, the argon maximum was shifted far toward the cathode and the copper lines were appreciable considerably beyond the center of the discharge tube. It is argued that the ion density must be constant along the length of the tube, and the shifts in the positions of the inert gas ion density maxima are ascribed to the influence of sputtered ions of anticathode (and cathode) material. In glow discharges, neither the molecular weight of the inert gas nor the anticathode material affected the line intensity distribution. When gas was admitted to the chamber in the vicinity of the cathode rather than near the center of the discharge tube, the line intensity maximum was shifted toward the cathode. The transverse distribution of line intensity showed a maximum on the axis of the discharge tube. The line intensity decreased with increasing distance from the axis somewhat more rapidly than did the depth of . D ٤. ard 2/3 ÷

APPROVED FOR RELEASE: Wednesday, June 21, 2000

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sputtering of of sputtering proportional i	the cathode surface is proportional to to the product of th ion density. The	the ion densi ne ion density authors thank	ty, whereas the li and the electron Yu. P.Tret'yakov a	fact that the dept ne intensity is density, i.e., to t and Kuo Ch'i-Ch'ien	b he
for assisting	with the work and I Orig. art. has: 1	Professor A.R.	Striganov and G.V.	BROLIN IOF UISCUSSI	ng
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Card 3/3 (· · ·	

FLEROV, G.N.; POLIKANOV, S.M.; KARAMYAN, A.S. [deceased]; PASYUK, A.S.; PARFANOVICH, D.M.; TARANTIN, N.I.; KARNAUKHOV, V.A.; DRUIN, V.A.; VOLKOV, V.V.; SEMCHINOVA, A.M.; OGANESYAN, YU.TS.; KHAI IZEV, V.I.; KHLEBNIKOV, G.I.; MYASOYEDOV, B.F.; GAVRILOV, K.A.

Experiments to produce element No. 102. Zhur. eksp. i teor. fiz. 38 no.1:82-94 Jan *60. (MIRA 14:9)

1. Sotrudniki Ob"edinennogo instituta yadernykh issledovaniy (for Polikanov, Oganesyan, Gavrilov). 2. Sotrudnik Instituta geokhimii i analiticheskoy khimii AN SSSR (for Myasoyedov). (Transuranium elements)

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AUTHORS:	Flerov, G. M., Corresponding Member, SOV/20-120-1-18/03 Academy of Sciences, USSR, Polikanov, S. M., Karamyan, A. S., Pasyuk, A. S., Parfanovich, D. M., Tarantin, N. I., Karnaukhov, V. A., Druin, V. A., Volkov, V. V., Semchinova, A. M., Oganesyan, Yu. Ts., Khalizev, V. I., Khlebnikov, G. I.
TITLE:	Experiments on the Production of the 102-nd Element (Opyty po polucheniyu 102-go elementa)
PERIODICAL:	Doklady Akademii nauk SSSR, 1953, Vol. 120, Nr 1, pp. 73 - 75 (USSR)
ABSTRACT :	The present paper describes the experiments carried out at the Institute of Atomic Energy, AS USSR (Institut atomnoy energii AN SSSR) for finding the new element with the atomic number 102; these experiments were carried out in autumn 1957. First the authors refer to the experiments carried out in the first half of 1957 at the Swedish Nobel Institute (Ref 1). In the experi- ments of the authors the plutonium isotopes Pu239 and Pu241 were irradiated with accelerated exygen ions. Five times charged oxygen ions were by the 190-cm-cycletron accelerated to 102 MeV.
Card $1/3$	In most cases the ions with the maximum energy were used. The



Pasyuk, A.S. Distr: Jizs 4E3d STRIPPING REACTION IN THE INTERACTION OF AC-BTRIPPING REACTION IN THE INTERACTION OF AC-CELEMATED NITROOFN IONS Nº WITH THE NUCLEI OF SOME LLEMENTS. V. V. VORS A. S. PARVEL and G. N. Floray (Academy of Sciences, USAGE, Char, Ekspal', Teoret, Fiz. 33, 545-601(1957) Sept. (in Russian) The formation of the radiopolitic (science vil) The formation of the radioactive isotope Nit was The formation of the radioactive iscoope or was observed when ~ 100 Mey cyclotron accelerated altroyog ions N' bombarded foils of Al, Ni, Ca, Ag, Su, and Cd. Beasurements of the angular disiribution showed that the N¹¹ succes are emitted in a comparatively narrow angle N° nuclei are amilied in a comparatively harrow angle range. The angle corresponding to maximal intensity increases with 2. If the energy or the bombarding particle exceeds the height of the Coulomb barrier the effective cross section for production of N¹¹ with weakly depend on the sector. The spectrum is specified as the set the energy. The croos section is equal to - 30 mb for N and - 12 mb for Al. fir-suth)

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001239

UT HORS :	Volkov, V.V., Pasyuk, A.S., Flerov, G.N. 56-3-7/59
f IT LE :	Evaporation Reaction in the Interaction of Accelerated Nitrogen Ions N ¹ 4 with the Nuclei of Some Elements. (Reaktsiya "sryva" pri vzaimodeystvii uskorennykh ionov azota N ¹ 4 s yadrami nekotorykh elementov)
PERIODICAL:	Zhurnal Eksperim. I.Teoret.Fiziki, 1957, Vol. 33, Nr 3, pp. 595-601
ABSTRACT :	(USSR) N14- ions are accelerated in the cyclotron up to~100 MeV, after which they penetrate through Al., Ni, Cu, Ag, Cd, Sn- foils, on which occasion radioactive N13 was found. Measuring of angular distribution showed that N ¹³ emerges only with- in a very narrow angular range. For Al 23° \pm 8° was measured as the most probable angle, where N ¹⁴ - energy amounted to 67 MeV. The cross section for the evaporation reaction in the case of a N ¹⁴ -energy of ~85 MeV amounted to 30 mb for Ni and 12 mb for Al. There are 5 figures and 2 Slavic references.
ASSOCIATION:	AN USSR (Akademiya nauk SSSR)
SUBMITTED:	March 19, 1957
AVAILABLE:	Library of Congress.

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001239

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M.R.CV, G. K., <u>EATURE, A. S.</u>, VELECV, V. V. (teal. fei. USER) "Stripting Reaction Producted by the Accelerated Witneyer Ions on Some Muclei," paper submitted at the A-U Conf. on Euclear Seactions in Gedi m and Low Energy Physics, Mescow, 19-27 How 57.



LEVENETS, N.P.; SAMARIN, A.M.; SEMIKIN, I.D.; KAZAKOV, V.E.; BEMBINEK, Ye.I.; PANYUKHNO, L.G.; SVINOLOBOV, N.P.; AVERIN, S.I.; SMIRNOV, V.M.; ZELENSKIY, V.D.; LAYKO, B.G.; TISHCHENKO, O.I.; OKHRIMOVICH, B.P.; DANILOV, A.M.; TISHKOV, Yu.Ya.; PANOV, M.A.; MARKELOV, A.I.; PETROV, A.K.; VASILEVSKIY, P.A.; PASYUK, K.I.; NESTEROV, V.I.; KHRUSTAL'KOV, L.A.; GLAZKOV, V.S.; MAKAGON, V.G.; FOMIN, G.G.; TRISHCHENKO, V.D.; KORZH, V.P.; SUYAROV, D.I.; ARSEYEV, A.V.; PAVLYUCHENKO, A.A.; ZHADAYEV, V.G.; KONDORSKIY, R.I.; MOROZOVA, I.A.; KOCHETOV, V.V.; PRUZHINER, V.L.; MALEVICH, I.A.; MALIOVANOV, D.I.; ZAKOVRYASHIN, I.I.; NOVSKIY, I.S.; NOVIKOVA, V.P.; GRISHIN, K.N.; MOSKOVSKAYA, M.L.; KORNEYEV, B.M.

Inventions. Met. 1 gornorud. prom. no.3:75-76 My-Je '64. (MIRA 17:10)



1/101/002/002/002/004 2105-1101

AUTHORS: Okhrimovich, B. P., Tishkov, Yu. Ya., C ilevskiy, P. A., Pasyuk, K. I.

New rations method for hearths of steel furnaces

PERIODICAL: Ogneupery, no. 2, 1962, 61-55

TEXT: Results of Xperimental and industrial research are given and suggestions are have for repairing ranmed bottoms of open hearths and electric steel furnaces by dry magnesite powder. The parameters suited best for the production of rammed hearths of maximum durability were determined in the laboratory. Powdered magnesite of the zavod "Magnezit" ("Magnezit" Plant) was used to study the effects of the grain composition of magnesite powder, thickness of the ranmed layer, ramming time and stechniques, binding agents, sintering additives, and powder humidity. Since July 1960, experiments of repairing hearths in cold state by works of the Zlatoustovsky metallurgicheskiy zavod (Zlatoust foundry). For repairing hearths in hot state, MITM(MPM) or MITK(MPK) powders are

Card 1/2

TITLE:

New randing method for hearths ...

S/131/22/000/002/002/002/004 B105/ 1

molto on to the walls and vaults. To increase the descoility of hearths of sight furnaces especially when melting high-quality steels, the former are is luced by ramming dry magnesite powder with a minimum content of 68% MLD. The greatest density of the working layer of hearths is obtained by using magnesite powders with a 65-75% content of the d-C.1 mm fraction, 35-25% of a fraction < C.1 mm including 25-15% < 0.06 cm. To improve the hearth density without a considerable reduction in refractoriness, up to 5% of titanomagnetite concentrate is added. Ramming and repairing hearths

Ith dry magnesite powder increases their durability considerably and reduces the time of waiting and the consumption of magnesite powder and fuels. To promote the application of the new technique, the production of magnesite powder of the required grain composition will have to be applied, in the "Magnezit" plant. There are 3 tables and 3 Soviet references.

ASSOCIATION: Zlatoustovskiy metallurgicheskiy zavod (Zlatoust Foundry) (Okhrimovich, B. P., Tishkov, Yu. Ya.); Institut ogneuporov v. g. Satke (Institute of Refractories in Satka) / (Vasilevskiy, P. A., Pasyuk, K. I.)

Card 2/2

1





PASYUK, N.I. [Pasiuk, M.I.]

Physicochemical characteristics of certain natural waters and salines of White Russia. Vestsi AN BSSR. Ser. fis.-tekh. nav. no.3:63-65 '63. (MIRA 16:10)

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00123!
BHETSHMAYDER, S.[Bretssnajder, S.]; YASHCHAK, M.[Jassczak, M.];
PASTUK, V.[Pesiuk, W.]
Intensification of some processes in the chemical industry
by means of vibration. Mhim. prom. no.3:211-217 Mr '63.
 (MIRA 16:4)
1. Varshavskiy politekhnicheskiy institut i Institut fisicheskoy
khimii Pol'skoy Akademii nauk.
 (Chemical reaction, Rate of)
 (Mass transfer) (Vibration)

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ACCESSION NR. AP30	
AUTHOR: Bretshnayd	der, S.; Yashchak, M.; Pasyuk, V.
	ation of several chemical industry processes by means of vibra
SOURCE: Khimichesk	aya promyshlennost', no. 3, 1963, 51-57
TOPIC TAGS: vibrat	ion, heat transfer, mass transfer, sublimation, absorption
of <u>naphthalene</u>) for a coefficients in stat and frequency and an vation of a sulfide creased frequency. when amplitude was	ct of vibration on heat and mass transfer processes was studi heat transfer and of solid-gas mass transfer (as in sublimat solid-liquid mass transfer (solution) increased in comparison tionary systems to a maximum, dependent of course on material mplitude of vibration. In some solutions, however, as in lix ore, a 100% maximum was approached and then receded with in- Liquid-gas mass transfer (absorption) increased with frequence sufficient to cause cavitation in the liquid column. Orig. an table, 3 equations.
ASSOCIATION: Varsha Pol'skoy akademii na Ford 1/21 of the	Wskiy politekhnicheskiy institut i institut fizicheskoy khimi auk (Warsaw Polytechnical Inst. and Inst. of Physical Chemist: Polish Academy of Sciences)

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CIA-RDP86-00513R00123 "APPROVED FOR RELEASE: Wednesday, June 21, 2000 **与王均和**国家"是有人 MAKHNACH, A.S.; PASYUKEVICH, V.I.; SEMENTUK, A.D. [Somianiuk, A.D.] Narova horizon of the Middle Devolution of the Middle Devolution of the Middle Devolution of the Vestsi AN BSSSR Ser. fiz. tekh. (MIRA 17:7) (MIRA 17:7) Narova horizon of the Middle Devonian of the Polctak region.



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