

KATALAN-GATEVA, Sh.

Ecologic analysis of the nematode fauna of cultivated and  
wild plants in the Thracian Valley. Godishnik biol 54/55  
no.1:157-169 '59/60-'60/61 [publ. '62].

KATALAN-GATEVA, Sh.

Konstantin Ivanovich Skriabin at 85. Prir i znanie 17 no.  
2: 19-20 F '64.

KATALAYEV, A.A.; ABDULLAYEV, S.G., kand. sel'skokhoz. nauk;  
VINOGRADOV, A.V., starshiy nauchnyy sotrudnik

Effectiveness of systematic preparations in orchards. Zashch.  
rast. ot vred. i bol. 7 no.10:27-28 O '62. (MIRA 16:6)

1. Kubinskiy plodovyy sovkhoz No. 12 i Azerbaydzhanskaya  
stantsiya Vsesoyuznogo instituta zashchity rasteniy. 2. Glavnyy  
agronom Kubinskogo plodovogo sovkhosa No. 12 (for Katalayev).  
(Azerbaijan—Fruit—Diseases and pests)  
(Insecticides)

BALOGH, Karoly; KATALIN, Petruccz

Studies on the pathogenic and neutral film on the tooth examined by biosynthetic methods. Kiserl. Orvostud. 14 no.1:56-61 Mr '62.

1. Budapesti Orvostudomanyi Egyetem Szajsebeszeti Klinikaja.  
(DENTAL CARIES etiol)

L 32149-66

ACC NR. AT6023525

SOURCE CODE: HU/2505/65/027/002/0119/0123

AUTHOR: Porszasz, Janos--Porsas, Ya.; Barankay, Tamas--Barankai, T.; Porszasz-Gibiszer, Katalin--Gibiser-Porsas, K.

ORG: Institute of Physiology, Medical University of Szeged (Szegedi Orvostudomanyi Egyetem, Elettani Intezet); Department of Stomatology, Medical University of Szeged (Szegedi Orvostudomanyi Egyetem Fogaszati klinika); Institute of Pharmacodynamics, Medical University of Szeged (Szegedi Orvostudomanyi Egyetem, Gyogyszerhatastani Intezet)

TITLE: Studies of the neural connection between the hypothalamic depressor and vaso-depressor areas in the cat

SOURCE: Academia scientiarum hungaricae. Acta physiologica, v. 27, no. 2, 1965, 119-123

TOPIC TAGS: neurology, cat, nervous system, blood pressure, reflex activity

ABSTRACT: The neural connection between the hypothalamic depressor area and the vaso-depressor area of the medulla oblongata has been studied in the cat. It was found that the fall in blood pressure, evoked by hypothalamic stimulation, failed to develop after dorso-ventral division of the medulla oblongata, at the height of the facial cranial nerve, over a width of 2-3 mm on both sides of the center line. Transection of this kind does not impair the effect of hypothalamic pressor impulses nor does it paralyze the vasomotor center. Presumably, there is a direct neural connection between the hypothalamic depressor area and the vasodepressor area of the medulla oblongata. It is suggested that the depressor area constitutes a vasodepressor reflex center which receives impulses both from the periphery and from the higher nervous centers. Orig. art. has: 4 figures. /Orig. art. in Eng./ [JPRS]

SUB CODE: 06 / SUBM DATE: 19May64 / ORIG REF: 002 / OTH REF: 004  
Card 1/1

KOSHTOYANTS, Kh.S.; KATALIN, Rózha

Enzymatic and chemical foundation of taste sensitivity [with summary  
in English]. Biofizika 3 no.6:689-692 '58. (MIRA 12:1)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo uni-  
versiteta im. M.V. Lomonosova.

(TASTE, physiol.

enzymatic mechanism (Rus))

(ENZYMES, physiol.

in taste sensitivity (Rus))

KATALIN, Sholt [Katalin, Solt]

Some problems of the epidemic' gy of hepatitis in the Hungarian  
People's Republic. Vop.med.virus. no.9:123-131 '64. (MIRA 18:4)

1. Gosudarstvennyy institut zdravookhraneniya, Budapest,  
Vengriya.

KATALINI, T.

KATALINI, T., What we should know about phylloxera (Phylloxera vitifolii fitee). p.12.

Vol. 9 no. 8, August 1955 Tirane, Albania PER BUQESIRE SOCIALISTE

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 10, Oct. 1956

KATALINIC, A.

KATALINIC, A.; STOJANOV, D. "Maneuvers with the assistance of the pharmaceutic branch of the sanitary service." Vojni Glasnik, Beograd, Vol 7, No 10, Oct 1953, p. 70

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

KATALINIC, Aleksandar

Development of pharmaceutical service in the National Liberation  
War of Yugoslavia. Voj san pregl 11 no.1/2: Ja-F '54. (MEAL 3:7)  
(PHARMACY)

\*Yugosl., develop. during partisan war)

KATALINIC, H.

"Vaccination against F. & M. disease in Yugo."

Bull. Aff. Int. Epiz. 39, 175-179

KATALINIC, Hrvoje

"The Combat Against the Foot & Mouth Disease in Yugo."

XV Internat'l Vet. Congrss, Stockholm, 1953

KATALINIC, Hrvoje (Dr.) (51)

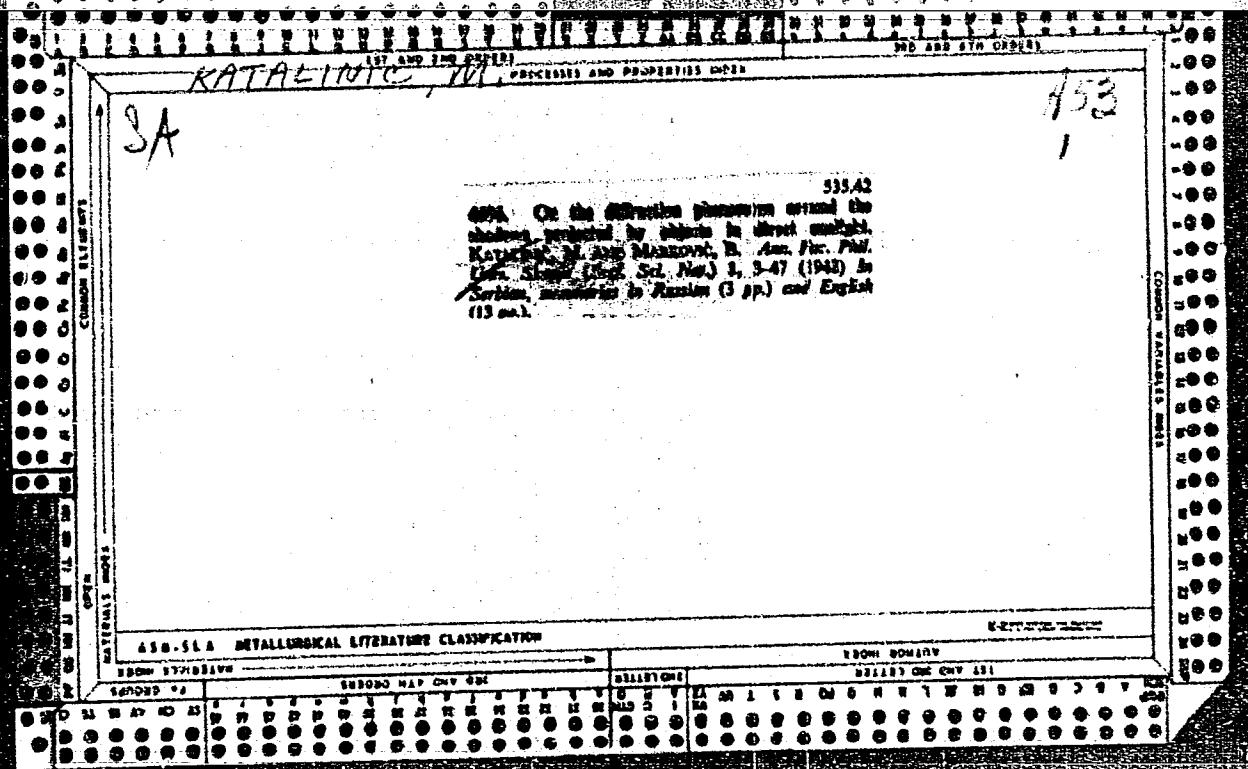
"About the Factors Influencing the Quality of Hyperimmune Sera in general, & the Pig Erysipelas Serum in Particular." Director of the Vet. Lab., Bitolj'. Dr. Hrvoje Katalinic - chief of the sera dept., Serum Inst. at Kalinovica, near Zagreb.

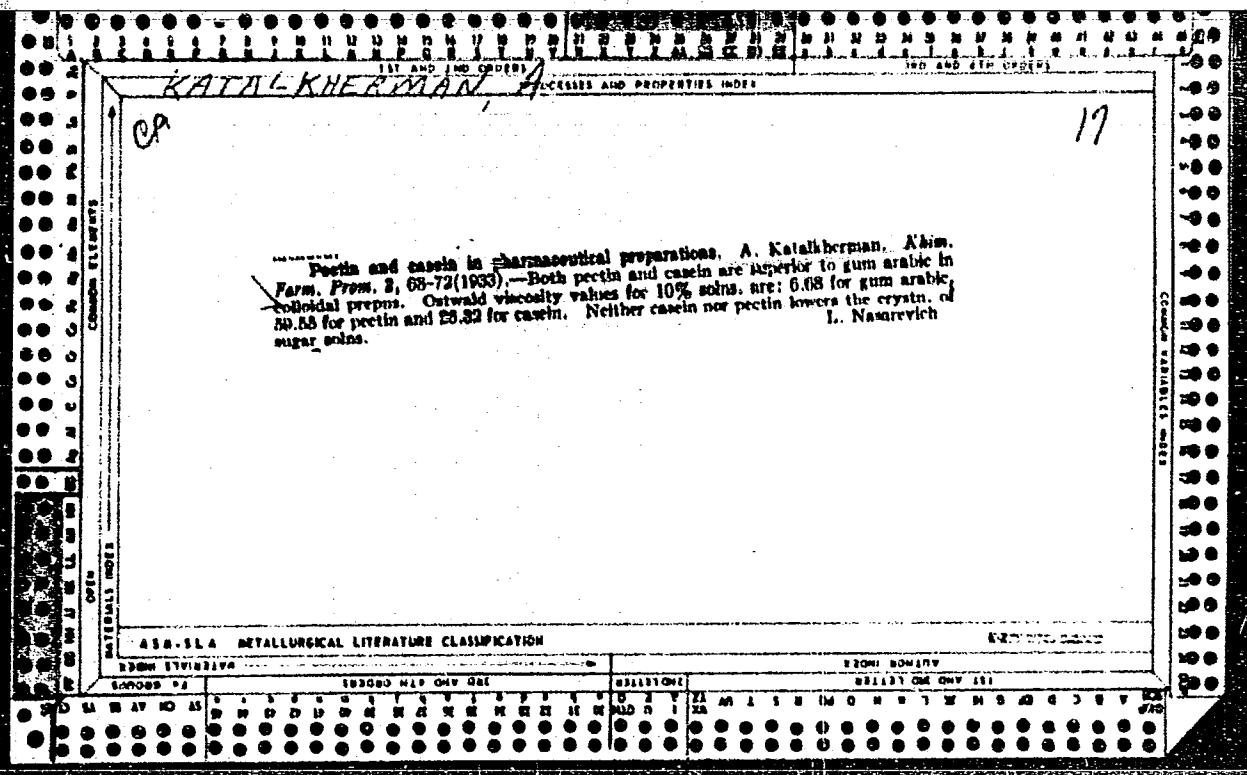
Vet: 1 : 39-42, 1954

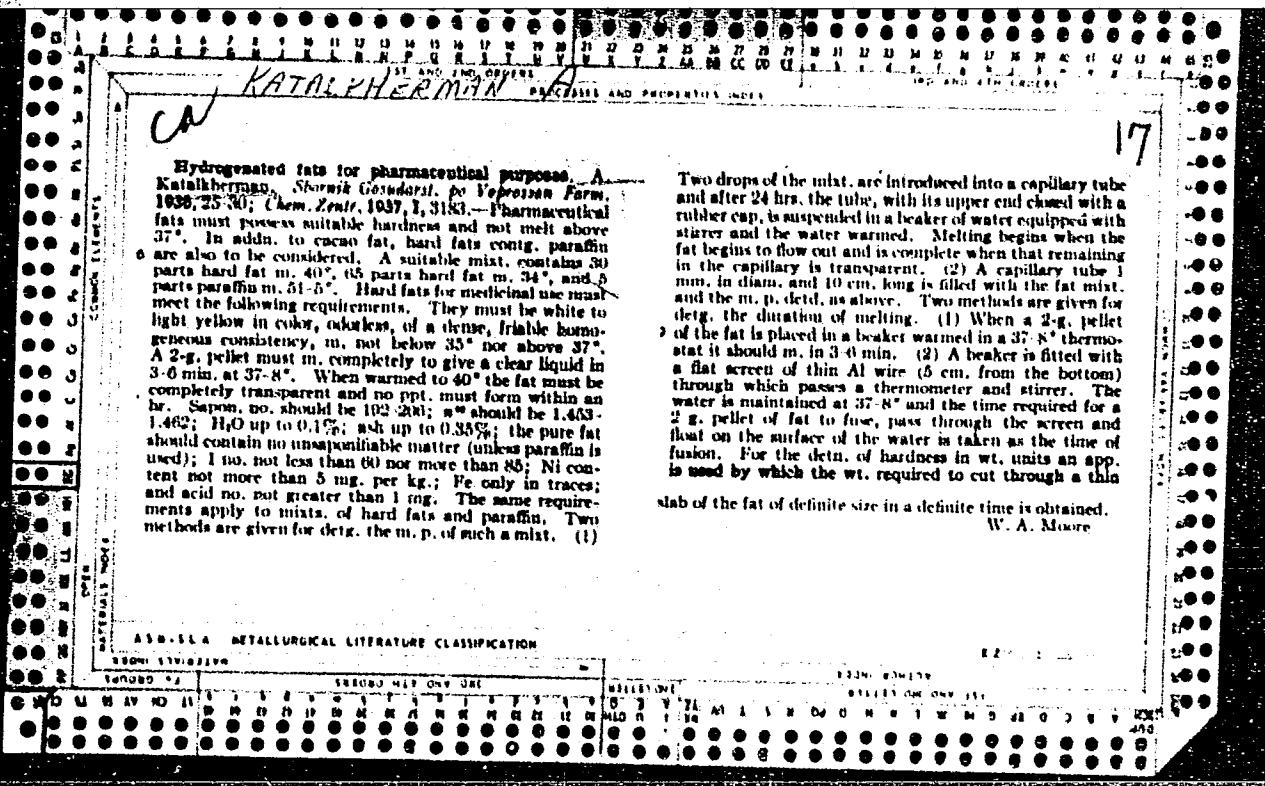
KOCANOVSKIJ [Kochanovskiy], kand.tehn. nauka; FEDER, inzenjer;  
KATLER, S.M., kand.tehn.nauka; KATALINIC-UDOVCIĆ, Palma, prof.  
(Zagreb)

Welding with electric arc which is rotating in magnetic field.  
Zavarivanje 4 no.7:138-142 S '61.

1. Visoka tehnicka skola u Zagrebu, Zagreb (for Katalinic-Udovcic).







KATALKHERMAN H.		PROCESSES AND PROPERTIES INDEX	IND AND ATO EXPENS																																																																																																								
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<p>A hydrophobic base for ointments which quickly dry on the skin.—A. L. Katalkherman. <i>Peremyslo</i> 6, No. 1, 28-31(1943).—An oil-in-water emulsion base which dries quickly but is readily washed off with water contains: turbine oil 18, gelatine 10, starch 15.75, ZnO 15.75, glycerol oil (Russian Pharma.) 23.5 and distilled water 18%. It is a suitable vehicle for salicylic acid, ichthyol oil and other skin remedies. Prophylactic ointments with this base protect against toxic gases and other hazards.</p> <p style="text-align: right;">Julian F. Smith</p>																																																																																																											
<p><b>ASA-SLA METALLURGICAL LITERATURE CLASSIFICATION</b></p> <table border="1"> <tr> <td>SEARCHED</td> <td>SEARCHED MAP ONLY ONE</td> <td>REFLECTIONS</td> <td>SEARCHED INDEX ONLY ONE</td> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td>5</td> <td>6</td> <td>7</td> <td>8</td> </tr> <tr> <td>9</td> <td>10</td> <td>11</td> <td>12</td> </tr> <tr> <td>13</td> <td>14</td> <td>15</td> <td>16</td> </tr> <tr> <td>17</td> <td>18</td> <td>19</td> <td>20</td> </tr> <tr> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td>26</td> <td>27</td> <td>28</td> </tr> <tr> <td>29</td> <td>30</td> <td>31</td> <td>32</td> </tr> <tr> <td>33</td> <td>34</td> <td>35</td> <td>36</td> </tr> <tr> <td>37</td> <td>38</td> <td>39</td> <td>40</td> </tr> <tr> <td>41</td> <td>42</td> <td>43</td> <td>44</td> </tr> <tr> <td>45</td> <td>46</td> <td>47</td> <td>48</td> </tr> <tr> <td>49</td> <td>50</td> <td>51</td> <td>52</td> </tr> <tr> <td>53</td> <td>54</td> <td>55</td> <td>56</td> </tr> <tr> <td>57</td> <td>58</td> <td>59</td> <td>60</td> </tr> <tr> <td>61</td> <td>62</td> <td>63</td> <td>64</td> </tr> <tr> <td>65</td> <td>66</td> <td>67</td> <td>68</td> </tr> <tr> <td>69</td> <td>70</td> <td>71</td> <td>72</td> </tr> <tr> <td>73</td> <td>74</td> <td>75</td> <td>76</td> </tr> <tr> <td>77</td> <td>78</td> <td>79</td> <td>80</td> </tr> <tr> <td>81</td> <td>82</td> <td>83</td> <td>84</td> </tr> <tr> <td>85</td> <td>86</td> <td>87</td> <td>88</td> </tr> <tr> <td>89</td> <td>90</td> <td>91</td> <td>92</td> </tr> <tr> <td>93</td> <td>94</td> <td>95</td> <td>96</td> </tr> <tr> <td>97</td> <td>98</td> <td>99</td> <td>100</td> </tr> </table>				SEARCHED	SEARCHED MAP ONLY ONE	REFLECTIONS	SEARCHED INDEX ONLY ONE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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VOLITOVA, N.I., KATALKHEVMAN, A.I., kand.farmatsevticheskikh nauk,  
SHEKRN, N.R., provizor.

"Technology of drug forms" by P.E. Rozentsveig. Apt.delo 7  
no.3:87-92 My-Je '58 (MIRA 11:7)  
(PHARMACY)

KATALKIN, P.

Their instruction obscures facts. Fin. SSSR 23 no.3:81-82  
Mr '62. (MIRA 15:3)  
(Construction industry--Accounting)

KATAL'NIKOV, I. (g.Leningrad)

Collection of problems on planning ("Collection of problems on planning managerial operations in commerce" by V.V.Lobovikov. Reviewed by I.Katal'nikov). Sov.torg. 33 no.6:64-65 Je '60. (MIRA 13:7)

(Commerce--Problems, exercises, etc.)  
(Lobovikov, V.V.)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721110014-4

KATAL'NIKOV, IGNATIY FEDOROVICH - *Katal'nikov, I. F.*

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STATISTIKA SOVETSKOY TORGOVLI [STA-  
TISTICS OF SOVIET TRADE] MOSKVA,  
GOSTORGIZDAT, 1957.  
138 P. TABLES.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721110014-4"

KATAL'NIKOV, Ignatiy Fedorovich; KIRAKOZOVA, N.Sh., red.; LYUDSKOV, B.P.,  
red.; MEDRISH, D.M., tekhn. red.

[Statistics of Soviet commerce] Statistika sovetskoi torgovli.  
Moskva, Gostorgizdat, 1962. 198 p. (MIRA 15:6)  
(Russia—Commerce)

ANDREYEV, B.M.; BORESKOV, G.K.; KATAL'NIKOV, S.G.

Two-temperature method of separation of ions in a fixed ion-exchanger bed. Khim.prom. no.6;389-393 Je '61. (MIRA 14:6)  
(Ion exchange)

S/089/61/011/003/006/013  
B102/B138

AUTHORS: Katal'nikov, S. G., Andreyev, B. M.

TITLE: Separation factor of lithium isotopes in vacuum distillation

PERIODICAL: Atomnaya energiya, v. 11, no. 3, 1961, 240-244

TEXT: The lithium separation factors were determined by vacuum distillation using the Rayleigh formula. Distillation took place in an electrically heated, evacuated stainless steel still. Temperature was measured by Chromel-Alumel thermocouples and regulated with an accuracy of  $\pm 5^\circ\text{C}$ . Pressure was not measured in the still. The absolute isotope composition was measured with an accuracy of  $\pm 0.03\text{--}0.04\%$ . Three sets of measurements were made: at 543, 469, and  $406^\circ\text{C}$  (with corresponding lithium-saturated vapor pressures:  $10^{-4}$ ,  $10^{-3}$ , and  $10^{-2}$  mm Hg). A comparison of the mean free paths  $\lambda$  and the distances  $d$  between the evaporation surfaces (cf. Table) showed that in all cases distillation took place in the molecular to equilibrium transformation range. For this transitional region the separation factor can be determined by the

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S/089/61/011/003/006/013  
B102/B138

Separation factor of lithium...

following formula:

$$\alpha_{\text{trans}} = \alpha_p \left[ \left( \sqrt{M_2/M_1} - 1 \right) \frac{2e^{-K} - e^{-2K}}{F + (1-F)(2e^{-K} - e^{-2K})} + 1 \right]$$

$M_1$  and  $M_2$  are the masses of the isotopes to be separated,  $e^{-K}$  is the proportion of molecules reaching the condenser without collision,  $(e^{-K} - e^{-2K})$  is the proportion of molecules reaching the condenser after the first collision,  $F$  is the ratio of the condensation surface to the total evaporation and condensation surface, and  $\alpha_p = p_1^0/p_2^0$  is the ratio between the saturated vapor pressures of the components to be separated. The formula shows that the separation factor is also dependent upon the mutual position and magnitude of the evaporation and condensation surfaces. In case of  $K \leq 3$ , the measured values agree well with the curve drawn on the basis of the above equation. It had been assumed for this case that  $K = d/\lambda$ .  $F$  was found to be almost 0.2. These results agree quite well with those from Refs. 6 and 9 (see below). G. K. Boreskov is thanked for interest and assistance. There are 3 figures, 1 table, and 13 references: 3 Soviet and 10 non-Soviet. The three references to English-language publications read

Card 2/3

Separation factor of lithium...:

S/089/61/011/003/006/013  
B102/B138

as follows: Ref. 4: K. Kelley. US Bur. Mines Bulletin, 383 (1935); Ref. 6: G. Burrows. Trans. Inst. Chem. Engrs., 32, 23 (1954); Ref. 9: Trauger et al. Proceedings of the International Symposium on Isotope Separation. North Holland Publishing Co., Amsterdam, 1957, p. 350.

SUBMITTED: January 30, 1961

Legend to the table: (1) Evaporation temperature; (2) residual gas pressure, mm Hg; (3) weighed lithium portion, grams, (4) Li residue after evaporation, grams; (5) evaporation rate, g/hr (evaporation area: 177 cm<sup>2</sup>); (6) Li<sup>6</sup> content in the residue, % (standard: 7.39% of Li<sup>6</sup>); (7) separation factor; (8) d; (9) λ.

Температура испарения, °C (1)	Давление остаточных газов, мм рт. ст. (2)	Загрузка лития, г (3)	Остаток лития после испарения, г (4)	Скорость испарения, г/ч (5)	Содержание Li <sup>6</sup> в остатке, % (6)	Коэффициент разделения (7)	Расстояние между поверхностью испарения и конденсацией (d), см (8)	Длина свободного пробега (λ), см (9)
543	1·10 <sup>-3</sup>	149,2	9,5	7,7	6,92	1,026±0,002	6,5	1,60
543	1·10 <sup>-3</sup>	134,6	14,4	15,0	6,06	1,028±0,002	6,5	1,60
543	1·10 <sup>-3</sup>	110,8	0,68	10,0	6,41	1,033±0,002	6,5	1,60
469	3·10 <sup>-3</sup>	51,2	0,85	1,27	6,51	1,033±0,002	7,5	2,48
469	2·10 <sup>-3</sup>	47,2	0,44	1,56	6,17	1,042±0,002	7,5	3,14
406	1·10 <sup>-3</sup>	22,4	3,94	0,308***	6,72	1,060±0,002	9,0	5,30

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21110  
S/089/61/011/006/006/014  
B102/B138

214200

AUTHORS: Katal'nikov, S. G., Revin, V. A., Andreyev, B. M.,  
Minayev, V. A.

TITLE: Determination of the separation factor for lithium  
isotopes in ion exchange

PERIODICAL: Atomnaya energiya, v. 11, no. 6, 1961, 528 - 532

TEXT: Isotope separation factor  $\alpha$  is determined in the exchange of LiOH  
and LiCl solutions of various concentrations with the cation-exchange  
resins CEC (SBS) and Ky-2 (KU-2), and with Dowex-50. The characteristic  
parameters of the ion exchangers were first determined, then  $\alpha$  was found  
graphically from the difference in equilibrium concentrations. The  
greatest difference in equilibrium concentration occurs if the prepara-  
tions are isotope-enriched up to 50%. In single-stage experiments, Li<sup>6</sup>  
in the hydroxide solution was enriched to 48.4%, which produced a con-  
centration difference of about 0.25( $\alpha$ -1). Table 2 shows the results with  
1N LiOH solution, Table 3 those with 1 and 5N LiCl (single-stage enrich-  
ment). The selective properties of the ion-exchange resins investigated  
are discussed in detail with respect to concentration in divinyl benzene

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21410  
S/089/61/011/006/006/014  
B102/B138

Determination of the...

and distribution factor  $K_{Li}^H$ . Conclusions: (1) Isotope exchange between SBS, KU-2 and Dowex-50 on the one side, and LiOH and LiCl solutions on the other, produced an accumulation of  $Li^6$  in the cation exchanger and of  $Li^7$  in the solution.  $\alpha$  depends on the type of exchanger. (2) Within the limits of error  $\alpha$  was the same for Li ion exchange in LiCl and LiOH solutions. In 1-5N LiCl solutions,  $\alpha$  does not depend on concentration. (3) The distribution constants for  $Li^+ - H^+$  systems and  $\alpha$  are interrelated. The cation exchanger with the least affinity to lithium has the greatest  $\alpha$ . A similar  $K_{Li}^H / \alpha$  dependence was found for cation exchangers for which the distribution coefficient depends on the molar fraction of Li in the exchanger (Dowex-50). For SBS,  $\alpha = f(\log K_{Li}^H)$ . The authors thank Professor

G. K. Boreskiy for his interest. G. M. Panchenkov is mentioned (G. M. Panchenkov et al., Atomnaya energiya, t. 7, vyp. 6, 556, 1959). There are 2 figures, 3 tables, and 13 references: 4 Soviet and 9 non-Soviet. The four most recent references to English-language publications read as follows: F. Menes, E. Saito, E. Roth. Proceedings of the International Symposium on Isotope Separation, p. 227, North-Holland Publishing

Card 2/0 3

Determination of the...

21410  
S/089/61/011/006/C06/014  
B102/B138

Co., Amsterdam, 1958; D. Lee, G. Begun. J. Amer. Chem. Soc. 81, No. 10, 2332 (1959); R. Betts, W. Harris., M. Stevenson. Canad. J. Chem. 34, No. 1, 65 (1956); D. Lee, J. Phys. Chem., 64, 187 (1960).

SUBMITTED: January 30, 1961

Legend to Table 2: (1) Cation exchanger; (2) No. of experiment; (3)  $\alpha_{\text{mean}}$ ; (4) temperature.

Table 3. Li isotope exchange between SBS (5) and LiCl solution.

Legend: (1) Number of experiment; (2) Li concentration observed, g-equiv./liter; (3) LiCl equilibrium concentration, g-equiv./liter; (4) fraction of Li in the cationite :  $F_{\text{Li}}/(R_{\text{Li}} + R_{\text{H}})$ .

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KATAL'NIKOV, S.G.; REVIN, V.A.; ANDREYEV, B.M.; PROKOPETS, V.Ye.

Determination of height, equivalent to the theoretical plate in  
countercurrent ion exchange. Zhur. prikl. khim. 34 no. 12:2669-2674  
D '61. (MIRA 15:1)

1. Moskovskiy khimiko-tehnologicheskiy institut imeni D.I.  
Mendeleyeva.

(Ion exchange)

S/076/61/035/006/004/013  
B127/B203

AUTHORS: Boreskov, G. K. and Katal'nikov, S. G.

TITLE: Graphical method for determining the coefficient of isotope separation in stepwise compression of the mixture to be separated

PERIODICAL: Zhurnal fizicheskoy khimii, v. 35, no. 6, 1961, 1240 - 1245

TEXT: The separation coefficient  $\alpha$  of Rayleigh's formula was graphically determined. The individual process of separation is described by the

equilibrium formula  $\alpha = \frac{y(1-x)}{y_0(1-y)}$  (5) and the material balance formula

$y_0 = \theta x + (1 - \theta)y$  (6). 1,  $\theta$  and  $(1 - \theta)$  are the numbers of moles of the substance to be separated in the initial, exhausted, and concentrated flow,

respectively.  $\frac{1}{1-\theta} = Z$  is the reduction of the flow of substance during separation.  $y_0$ ,  $x$ ,  $y$  are the molar parts of the isotope to be concentrated

Card 1/6

Graphical method for determining...

S/076/61/035/006/004/013  
B127/B203

in the respective flows. The joint solution of the balance equation and the equilibrium equation determines the concentrations  $x_i$  and  $y_i$  in the exhausted and concentrated flow of the individual steps of separation. For the graphical determination, the straight line corresponding to Eq. (5), as well as Eq. (6) transformed with  $Z = \dots$ , are plotted in a coordinate system. The tangent of the angle of inclination of this straight line indicates the reduction of flow of the given step. The intersection of the straight line  $y_i = (1 - Z_i)x_i + Z_i y_{i-1}$  with the diagonal  $y = x$  indicates the concentration of the respective isotope in the respective step. The equilibrium curve and the diagonal  $y = x$  were plotted in the coordinates ( $y$  isotopic concentration in the concentrated part plotted on the ordinate,  $x$  concentration of the same isotope in the exhausted part plotted on the abscissa). From the point of the diagonal where  $y = y_0$ , a straight line with the inclination  $(1 - Z_1)$  is drawn to the  $x$ -axis. The intersection with the equilibrium curve indicates the concentration of the isotope in the first step of separation. From this intersection, a parallel is drawn to the abscissa as far as the intersection with the diagonal. A straight line,

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B127/B203

Graphical method for determining...

tangent  $(1 - z_2)$ , is passed through the new intersection as far as the intersection with the equilibrium curve, Figs. 1 and 2 show this on the example of isotopic exchange between  $\text{BF}_3$  and the  $\text{BF}_3$ -anisole complex. It is shown that the graphical determination permits a calculation of the loss of partially concentrated products. The amount of loss must be entered in the corresponding quantity  $z_i$ . For determining the separation coefficient,

the method is first conducted with the value  $\alpha$  determined by Rayleigh's formula. This hypothetical value  $\alpha$  is then plotted on the abscissa, and the end concentration  $y_n$ , graphically predetermined for this value, on the ordinate. The intersection of the ordinate  $y_n$  with the curve obtained

determines the required value  $\alpha$ . The optimum distribution of substance reduction over the individual steps is calculated. In small intervals, the equilibrium curve can be substituted by the straight line  $y = ax + b$  (10). The value  $x$  calculated from Eq. (10) and (6) gives:

$$y_1 = z_1 y_0 - (z_1 - 1) \frac{y_1 - b}{a} \quad (11)$$

Card 3/6

S/076/61/035/006/004/013.  
B127/B203

Graphical method for determining...

The same is made with the second step. Thus,

$$y_2 = \frac{Za^2 y_0 + Zab + Zb + b(a-1) - b(Z_1 + Z/Z_1)}{Z + (Z_1 + Z/Z_1)(a-1) + (a-1)^2}. \quad (14)$$

This equation is differentiated; it yields  $Z_2^2 = Z$ , and confirms that  $Z_1 = Z_2$ . The authors refer to a paper by G. M. Panchenkov et al. (Zh. fiz. khimii, 31, 1951, 1957), as well as by Ye. M. Kuznetsova, A. V. Makarov, G. M. Panchenkov (Zh. fiz. khimii, 32, 2641, 1958). There are 4 figures and 9 references: 3 Soviet-bloc and 6 non-Soviet-bloc. The three most important references to English-language publications read as follows: T. Y. Taylor, H. C. Urey, J. Chem. Phys., 6, 429, 1939, A. A. Palko et al., J. Chem. Phys. 28, 211, 1958; ibid., 29, 1187, 1959.

ASSOCIATION: Moskovskiy khimiko-tehnologicheskiy institut im. D. I. Mendeleyeva (Moscow Institut of Chemical Technology imeni D. I. Mendeleyev)

SUBMITTED: September 9, 1959.  
Card 4/6

KATAL'NIKOV, S.G.; PROKOPETS, V.Ye.

Effect of temperature on the ion exchange equilibrium of lithium and ammonium. Izv.vys.ucheb.zav; khim.i khim.tekh. 4 no.5:772-774 '61. (MIRA 14:11)

1. Moskovskiy khimiko-tehnologicheskiy institut imeni Mendeleyeva, kafedra tekhnologii razdeleniya i primeneniya izotopov.  
(Lithium) (Ammonium compounds)  
(Ion exchange)

KATAL'NIKOV, S.G.; REVIN, V.A.; ANDREYEV, B.M.; MINAYEV, V.A.

Determining the separation coefficients for lithium isotopes in  
ion exchange. Atom. energ. 11 no.6:528-532 D '61. (MIRA 14:11)  
(Lithium--Isotopes) (Isotope separation) (Ion exchange)

SAPIR, A.D.; BIRYUKOV, N.D.; KATAL'NIKOV, S.G.; FROLOVA, Z.M.;  
REGINA, V.R.; SHUVANOVA, N.V.; KRASHENINNIKOVA, Ye.P.;  
BLINOVÁ, R.V.

Exchange of experience. Zav.lab. 26 no.6:670-671 '62.  
(MIRA 15:5)

1. Chelyabinskiy metallurgicheskiy zavod (for Sapir).
2. Institut neorganicheskoy khimii Sibirskogo otdeleniya  
AN SSSR (for Biryukov). 3. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva (for Katal'nikov,  
Frolova).

(Chemistry, Analytical)

KATAL'NIKOV, S.G.; SHLYAPNIKOV, S.V.

Calculating the equilibrium constants of isotopic exchange  
between water and hydrogen sulfide. Zhur. fiz. khim. 36  
no.4:853-855 Ap '62. (MIRA 15:6)

1. Moskovskiy khimiko-tehnologicheskiy institut imeni  
D.I.Mendeleyeva.  
(Hydrogen sulfide) (Chemical reactions)

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(C) 49-2 To avoid spontaneous combustion, 67 standard oxygen is stored.

analyses may be conducted in a standard mass spectrometer. If the sample is

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APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721110014-4"

ANDREYEV, P.M.; KATAL'NIKOV, S.G.

Technological design and calculation of the stage of a dual  
temperature cascade. Khim.prom. 42 no.4:28-31 Ap 1965.

(MIRA 18t8)

KATAJ'NIKOV, S.G.; GUN CHZHI-TSIN' [Kung Chih-ch'in]

Isotope equilibrium in the systems  $\text{BF}_3 - \text{BF}_2$  complexes with  
ethyl acetate and ethyl propionate. Zhur. fiz. khim. 39 no. 6;  
1393-1398 Je '65. (MIA 18:11)

1. Moskovskiy khimiko-tehnologicheskiy institut imeni  
Mendeleyeva. Submitted Feb. 4, 1964.

L 41040-66 EWT(m)/EWP(j) JW/JWD/RM  
ACC NR: AP6013732 SOURCE CODE: UR/0089/66/020/004/0345/0346

AUTHOR: Katal'nikov, S. G.; Paramonov, R. M.; Kapustin, I. A.

ORG: none

TITLE: Boron isotope separation using the  $C_6H_5OC_5H_5 \cdot BF_3 - BF_3$  system

SOURCE: Atomnaya energiya, v. 20, no. 4, 1966, 345-346

TOPIC TAGS: isotope separation, boron, boron compound

ABSTRACT: The authors determine the separation constant  $\alpha$  by single isotopic equilibration, which comprised mixing for 6 hr a liquid phase in contact with the gaseous phase, and subsequent mass spectrometric analysis of the probe and the standard on an MV-2302 mass spectrometer. The results are shown in Table 1.

Card 1/2

UDC: 621.039.32:621.039.322.3:546.27

L 41040-66

ACC NR: AP6013732

Table 1. Boron isotope separation constant (with an average dispersion of 0.0015)

Temperature, °C	<sup>a</sup> aver
5	1.046
15	1.044
25	1.042
35	1.038

Using an experimental glass model, a study was made of the behavior of the  $C_6H_5OC_2H_5 \cdot BF_3$  -  $BF_3$  system during extended operation with thermal flow reversal at the ends of the column. The results show that the isotope exchange based on the phenetole complex, rather than on the chemical exchange distillation of the  $BF_3$  dimethyl ether complex, reduces the production cost by a factor of 2.6, and reduces the volume of the column to one fifth. Orig. art. has: 1 table.

SUB CODE: 18 / SUBM DATE: 16Sep85 / ORIG REF: 002 / OTH REF: 000

Card 2/2 bsh

24.7500

37924

S/181/62/004/005/008/055  
B102/B138AUTHORS: Zhdanov, V. A., and Katal'nikov, V. V.

TITLE: Calculation of the mean square of thermal displacement of atoms in a CsCl-type lattice using Hauston's method

PERIODICAL: Fizika tverdogo tela, v. 4, no. 5, 1962, 1124-1127

TEXT: The mean square of displacement of atoms from their equilibrium position is calculated from the spectrum of normal vibrations, which is determined by Hauston's method. The results are compared with those obtained with a spectrum calculated according to Montroll (Phys. Rev., 115, 18, 24, 1959). The mean square amplitudes of thermal vibrations obtained from X-ray reflection intensities can be used to determine the binding forces in crystals, since there exists a relation between  $\bar{u}^2$  and the binding energy. Here the interactions within the first and second coordination spheres are taken into account. First the interaction parameters are determined for a CsCl-type lattice by Hauston's and Montroll's methods.

Then  $\bar{u}^2(T)$  is calculated using the relation  
Card 1/3

S/181/62/004/005/008/055  
B102/B138

Calculation of the mean square of ...

$$\bar{u}^2(T) = A \int \frac{1}{\omega} \left( \frac{1}{\frac{\hbar\omega}{kT} - 1} + \frac{1}{2} \right) g(\omega) d\omega, \quad (2),$$

where  $A = L_m$ ,  $g(\omega)$  is the frequency density distribution of the lattice vibrations

$$g(\omega) = \sum b_n \left( k^2 \frac{dk}{d\omega} \right), \quad (3)$$

which holds according to Hauston (Ref. 2: Phys. Rev., 104, 42, 1956). Numerical calculations were carried out for three directions with

$$b_{[100]} = 0.09803; \quad b_{[111]} = 0.08823; \quad b_{[110]} = 0.15685.$$

For the binding parameters  $\gamma + \delta + \gamma_0 > 0$  is valid. The numerical values for  $\delta$  and  $\gamma$  were taken from Ref. 2, and  $\bar{u}^2(T)$  was calculated for  $T=77^\circ K$  and  $T=290^\circ K$  at  $\theta = 150^\circ K$ .  $\bar{u}^2$  decreases exponentially with increasing

Card 2/3

ZHDANOV, V.A.; KATAL'NIKOV, V.V.

Calculating the heat capacity of a CsCl-type lattice by the Heuston  
method. Fiz. met. i metalloved. 16 no.1:148-149 J1 '63.  
(MIRA 16:9)

I. Sibirskiy fiziko-tekhnicheskiy nauchno-issledovatel'skiy in-  
stitut.  
(Cesium chloride—Thermal properties)

KATALUP, V.T.

Conference of the workers of the Ukrainian confectionery industry.  
Khar.prom. no.3:78-80 Jl-S '62. (MIRA 15:8)

1. Glavnnyy inzh. L'vovskoy konditorskoy fabriki im. Kirova.  
(Ukraine—Confectionery)

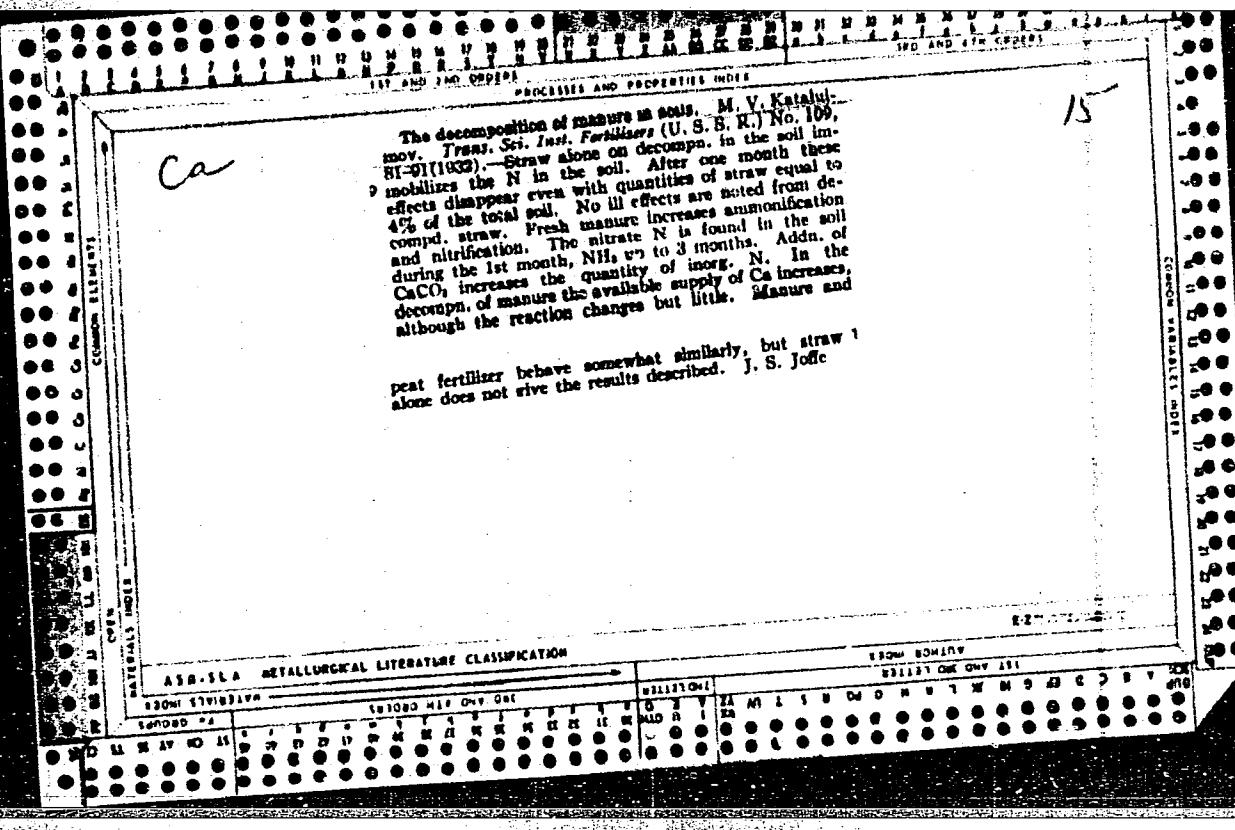
KATALUP, V.T.

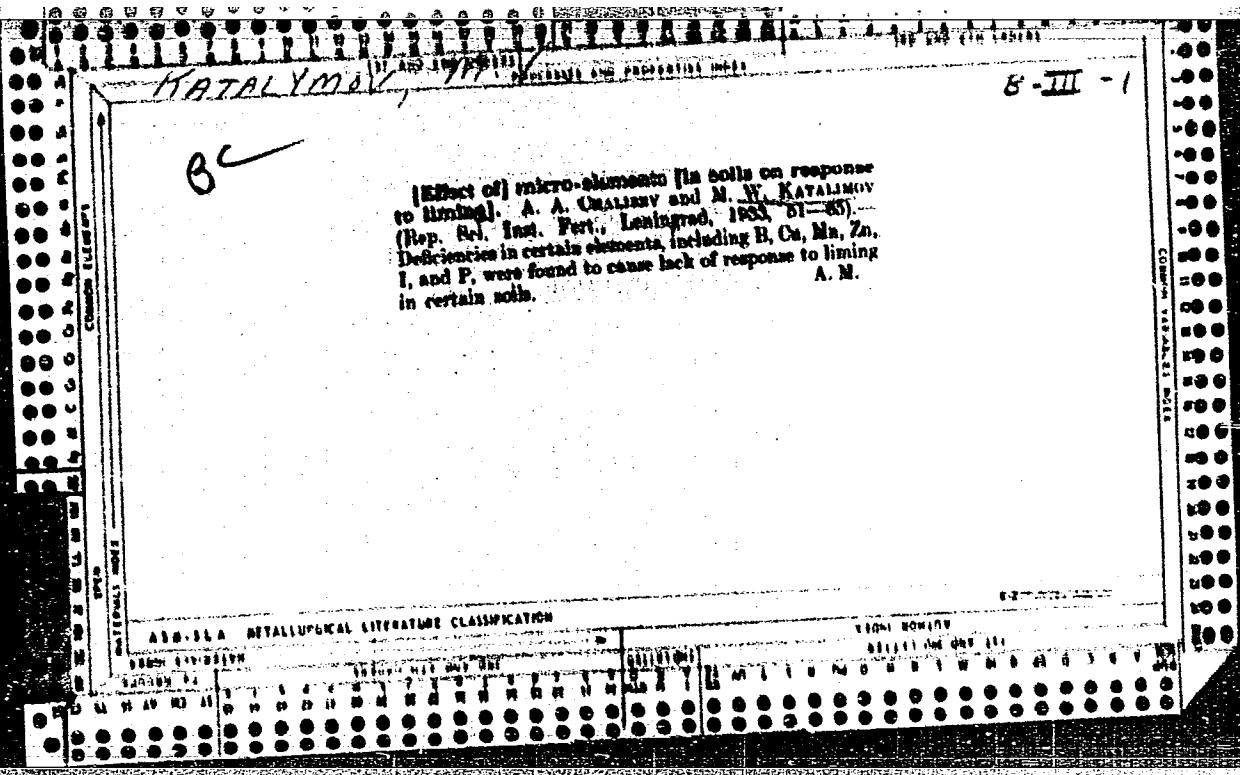
New varieties of confectionery products. Kharch.prom. no.4:24-27 0-  
D '63. (MIRA 17:1)

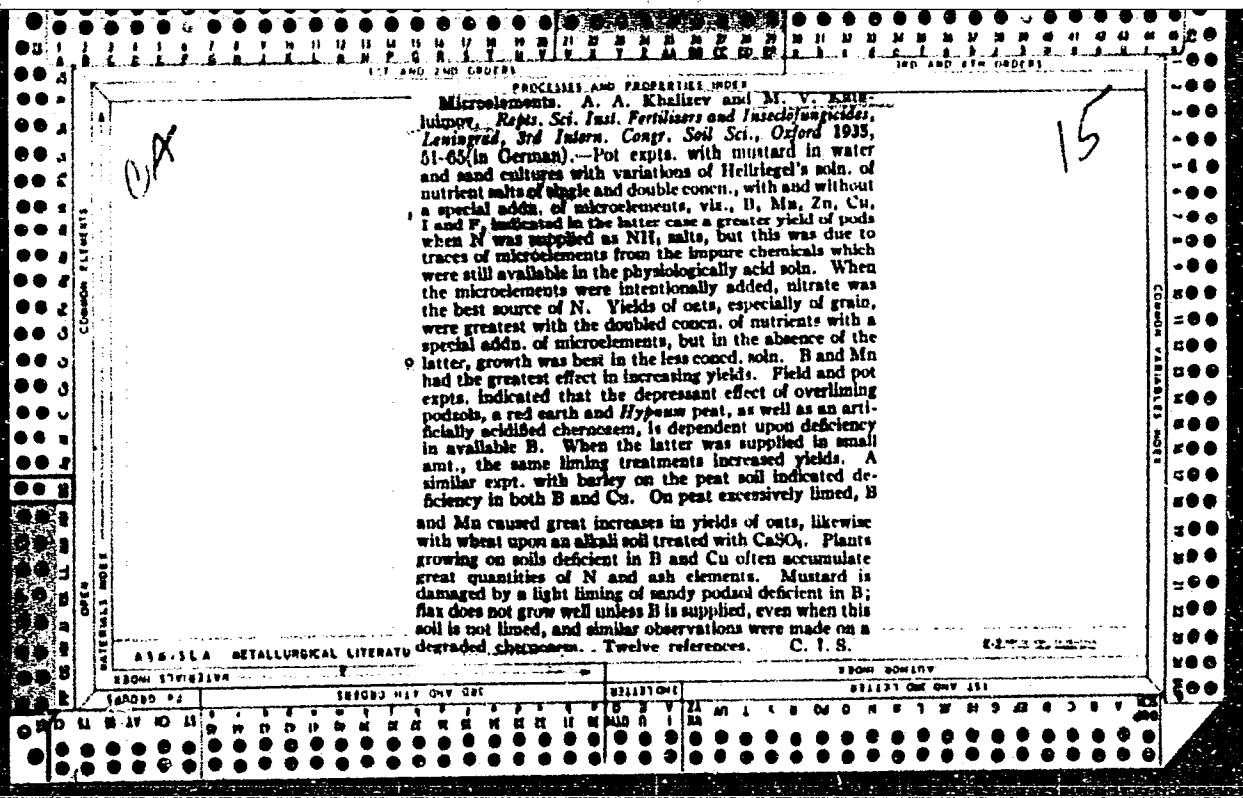
KATALYMOV, L.L.

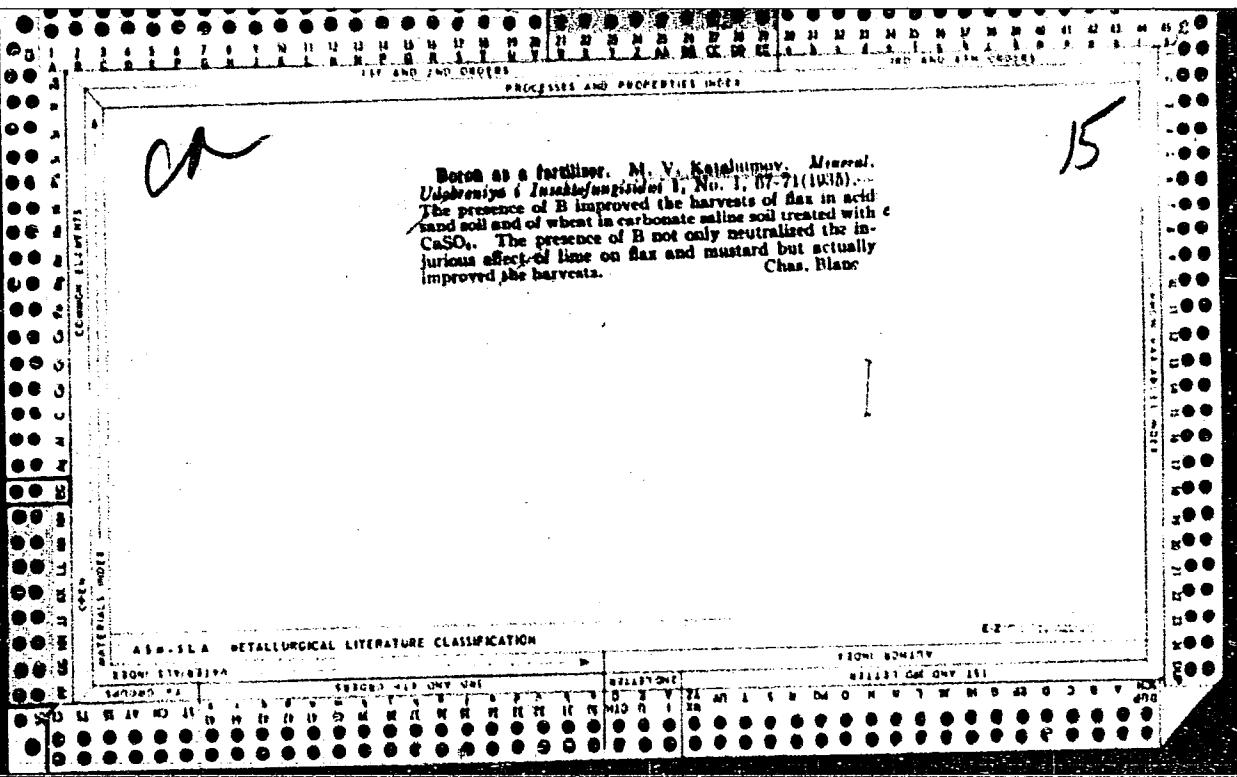
Experiments during the study of inheritance and variability.  
Biol. v shkole no.1:29-31 Ja-F '63. (MIRA 16:6)

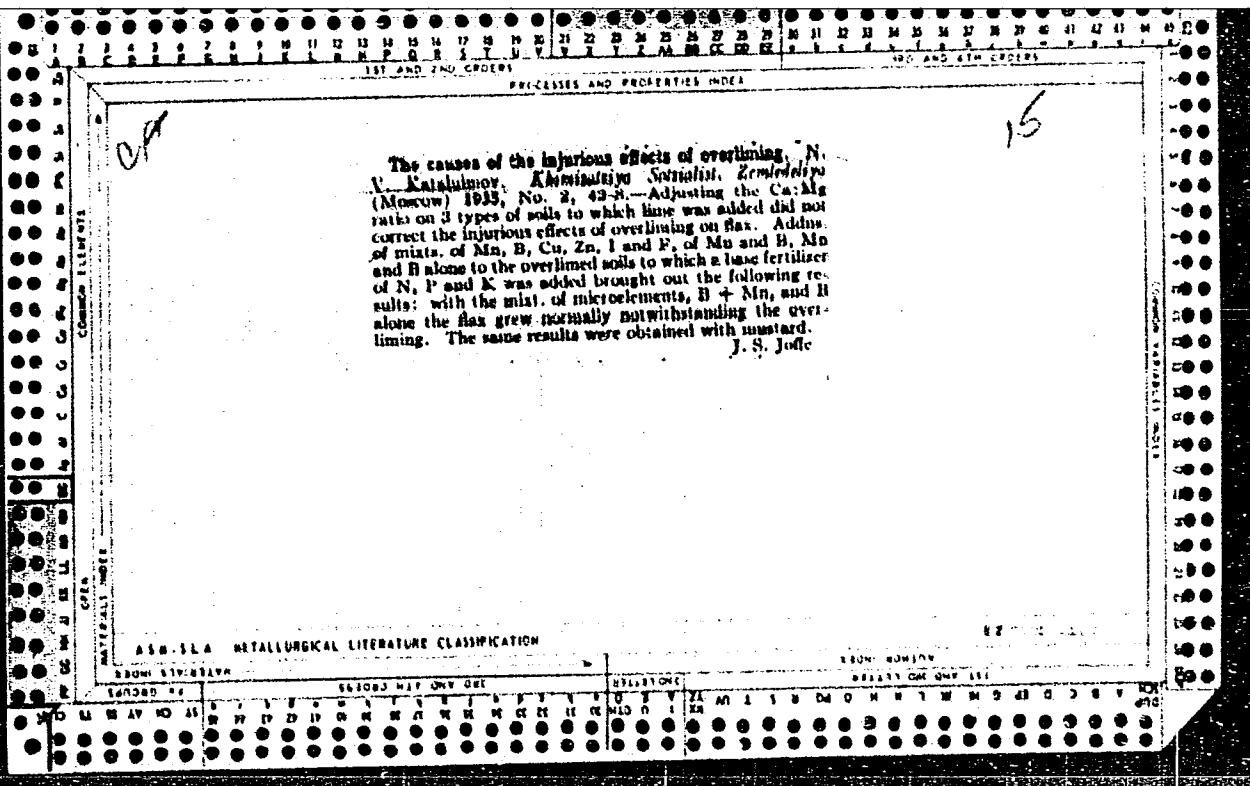
1. Ul'yanovskiy pedagogicheskiy institut.  
(Microbiology—Experiments)  
(Variation(Biology))

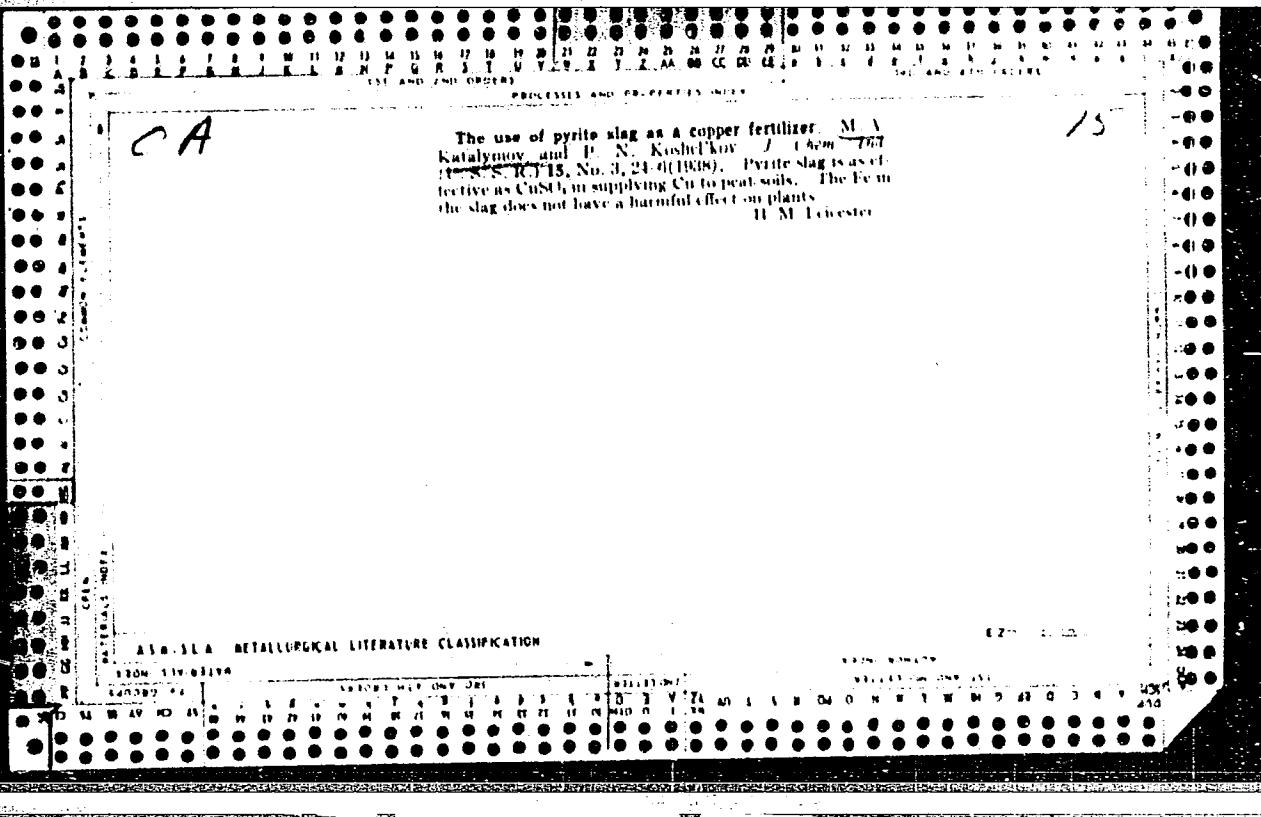


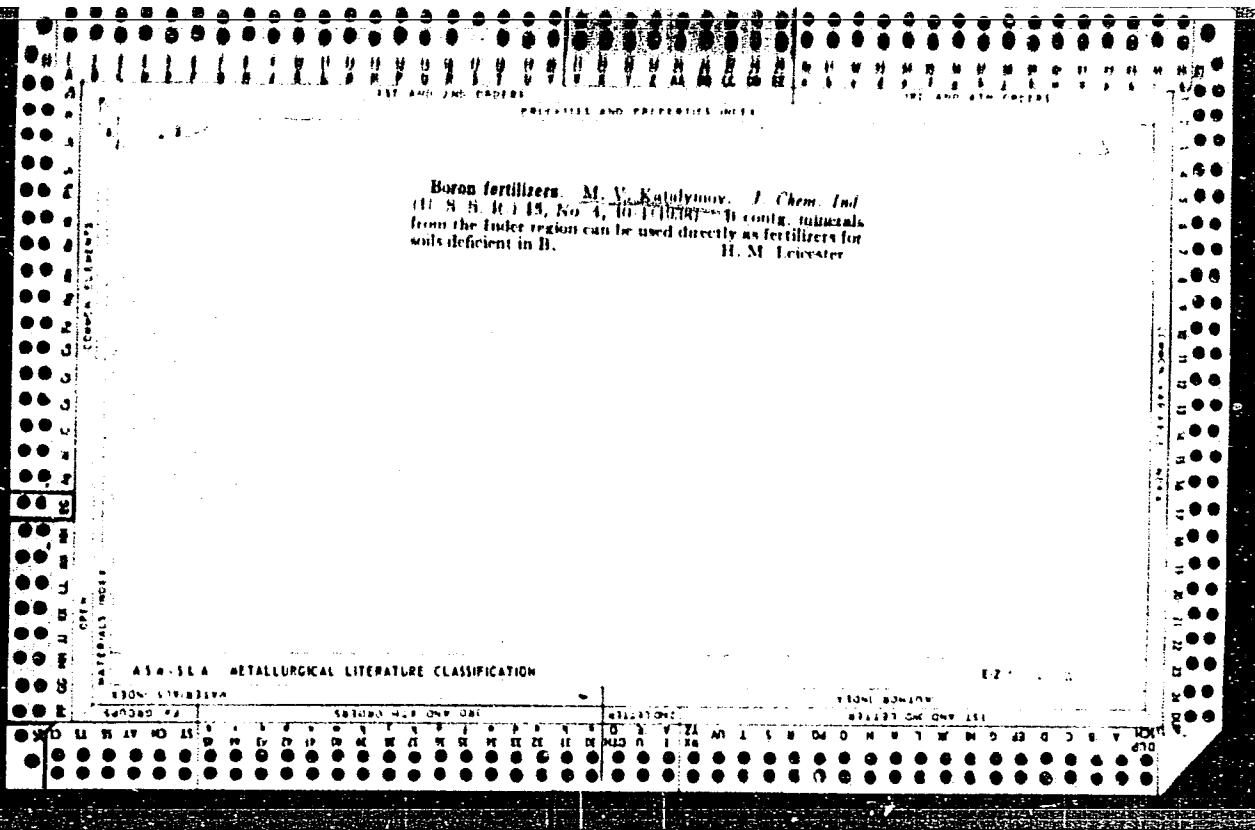












KATALYMOV, M. B.

"Boric Acid from Domestic (Russian) Raw Materials," I. M. Kurman, L. E. Berlin, and  
M. B. Katalymov, Nauch Inst Udobr i Insektofung im Ya. V. Samoylov, pp 67-71 (1939),  
Khim Referat Zhur 1940, No 6, pp 97 (SEE: Inst. Insect/Fung. in Ya. V Samoylov)

SO: U-237A49, 8 April 1949

KATALYNOV, N. V.

"The Action of Boron on Chernozem Soils," S. M. Gurevich, and N. V. Katalynov, Chemisation Socialistic Agr, 1940, No 11-12, pp 89-91, Khim Referat Zhur IV, No 6 pp 61 (1941)  
(SEE: Inst. Insect/Fungl in Ya. V. Samoylov)

SO: U-237/49, 8 April 1949

*CA*

The use of tourmaline as a B fertilizer. M. V. Kataly-  
nny, *J. Chem. Ind. (U. S. S. R.)* 16, No. 3, 15-17  
(1941); *Chem. Zents.* 1943, I, 320. Crude tourmaline  
contains B in a form not assimilable for plants and therefore  
cannot be used as a B fertilizer without chem. treatment.  
The simplest treatment is fusion of the tourmaline  
with lime. Vegetation expts. showed the product so obtained  
to be suitable as a B fertilizer. M. G. Moore

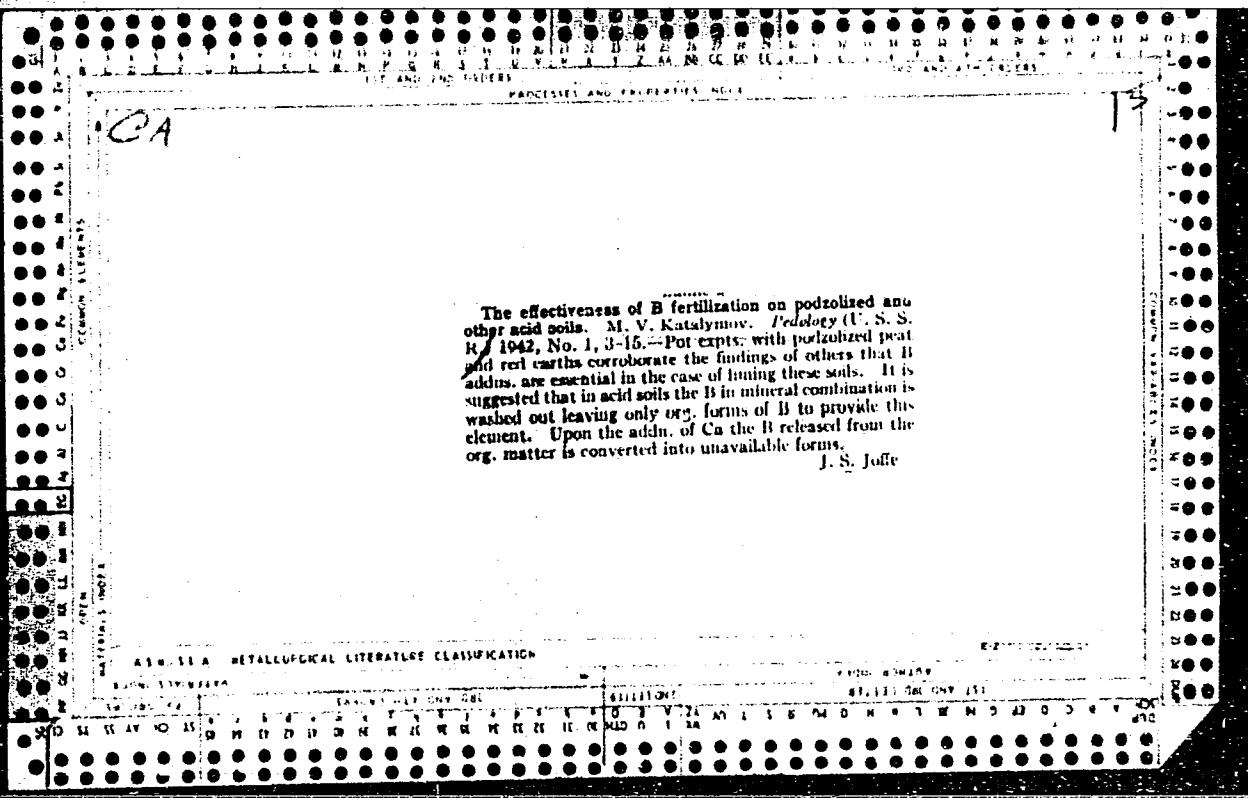
## ASK 51A METALLURGICAL LITERATURE CLASSIFICATION

JOURNAL SUBJECT

SERIALS WITH ONE USE

SERIALS:

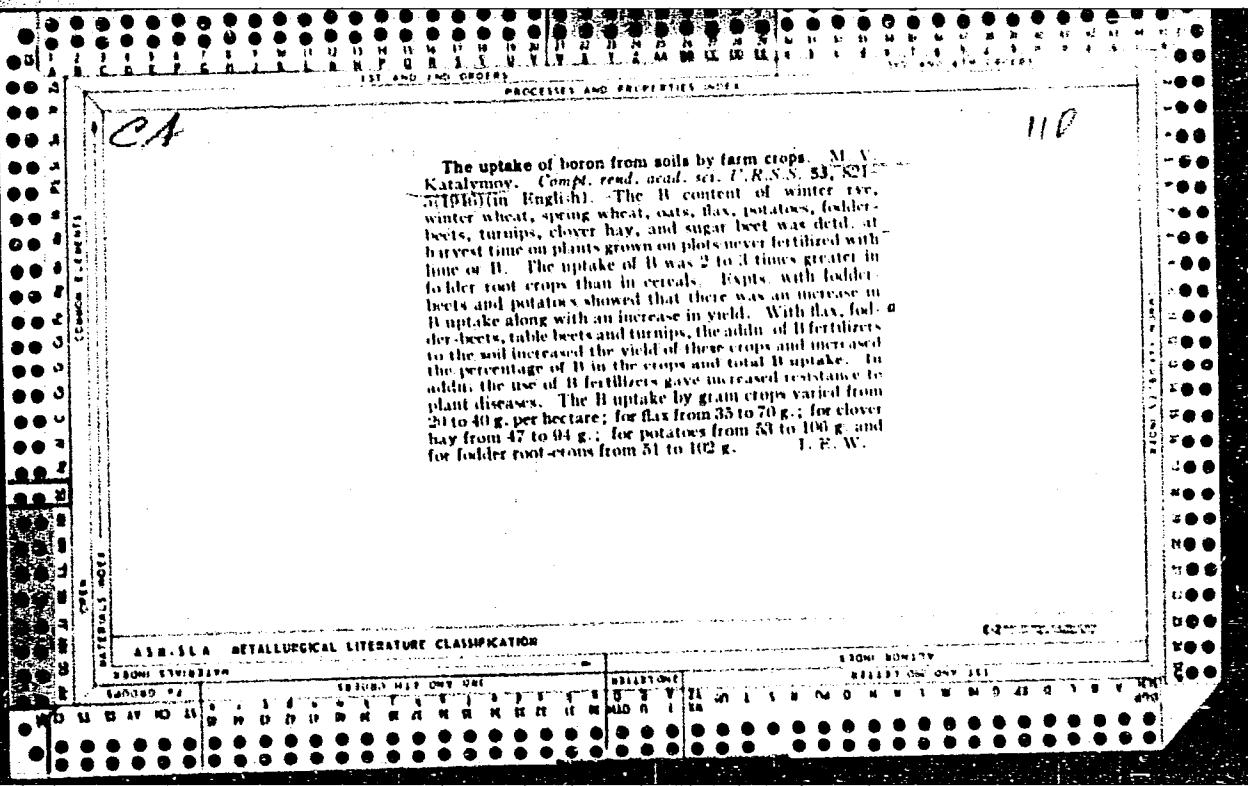
SERIALS WITH ONE USE

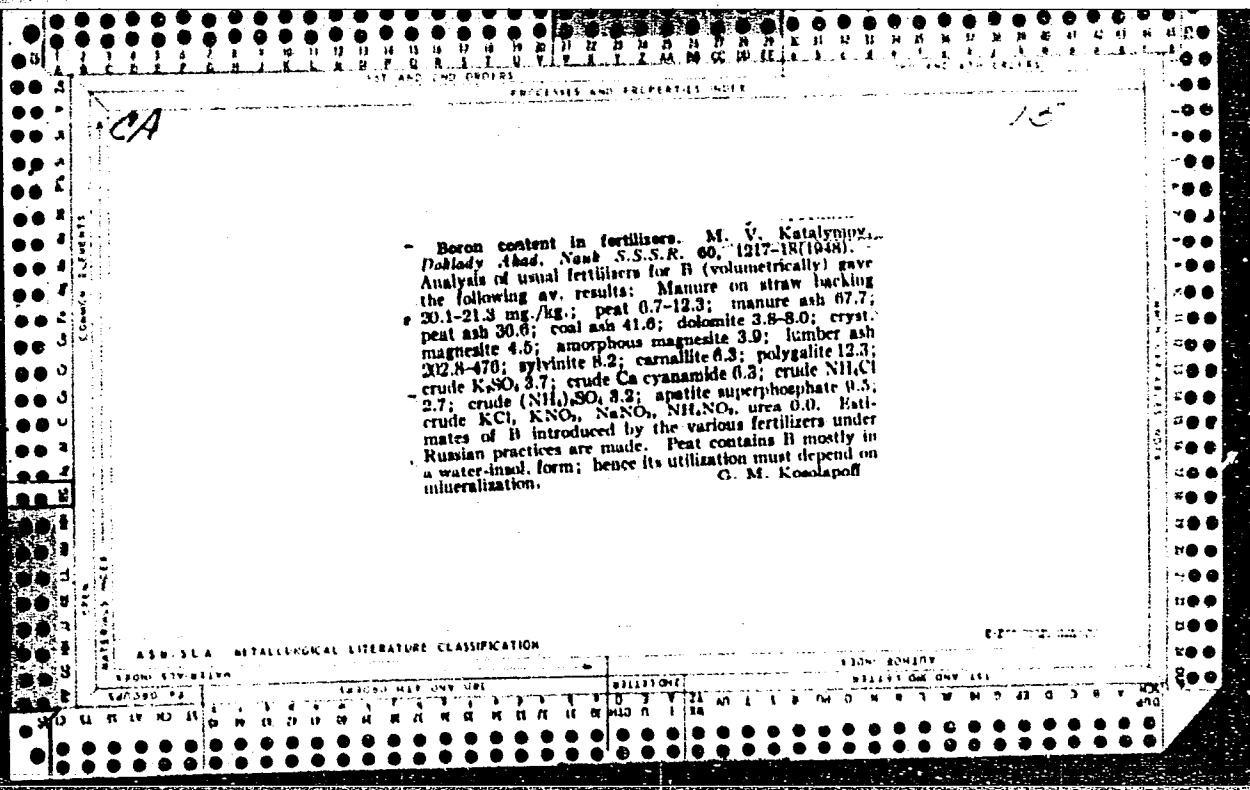


KATALYMOV, M. V.

(See Kurman, I. M., and Gurevich, S. M.) "The Uptake of Boron from Soils by Farm Crops,"  
M. V. Katalymov, Compt rend acad sci USSR, LIII, pp 821-5 (1945) (English) (SEE: Inst.  
Insect/Fung. in Ya. V. Samoylov)

SO: U-237/49, 8 April 1949

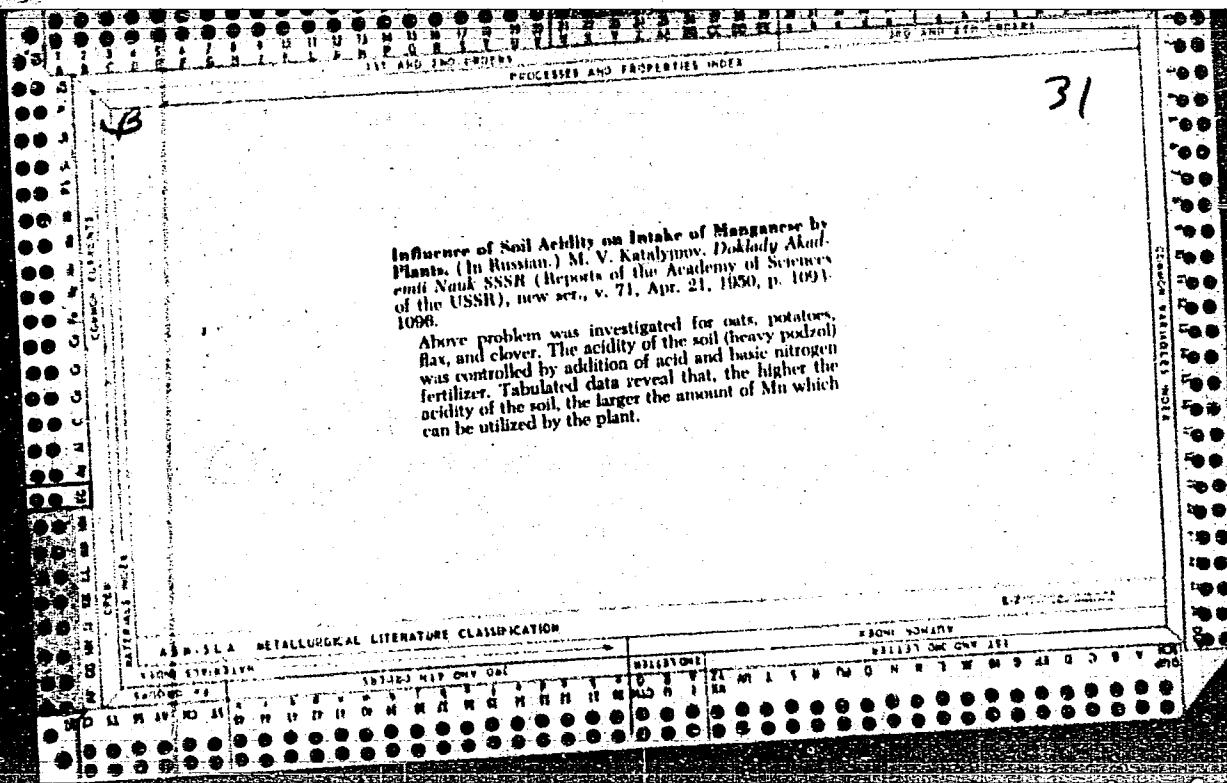




KATSYMOV, N. V.

25007 Katsymov, N. V. O Deystvii Bornykh Udobreniy V Zavisimosti Ot Tipa Rechy.  
Trudy Xubileynoy Sessii, Posvxashch. Stoletiyu So Dnya Razboeniya Tokuchayev.  
M. - L., 1949, S. 310-13

SO: Letopis', No. 33, 1949



Effect of liming on solubility of boron in the soil and its availability to plants. M. V. Katalymov and S. I. Ryabova. *Doklady Akad. Nauk S.S.R.* 74, 361-4 (1950). Increase of lime concn. in the soil leads to decrease of B content of clover plants and to decline of sol. forms of B in the soil. This is seen even after 23 yrs. after application. The process is facilitated by an increase of soil acidity. Ca, Mg, and Sr have no effect.  
G. M. Kosolapoff

CA

13

Causes of decreased availability of boron to plants after liming of soil. M. V. Katalymov. Doklady Akad. Nauk S.S.R. 76, 893-8 (1951); cf. C.I. 45, 1711c. The decreased availability of B after liming appears to be caused by formation of esters of boric acid with polyatomic acids of the soil; these are much more stable in neutral or weakly alk. media than in acid media. While mustard plants grow very poorly in unlimed peat, owing to the acidity of the latter, addn. of lime does not aid the growth materially and plant development was abnormal (flowers formed, but seed formation did not occur), indicating B deficiency. Addn. of further amts. of B led to normal growth. Similar results were obtained with chernozem soil. If these organo-B compds. are ashed and then introduced into the culture, the plant development is normal, indicating the correctness of the above-stated hypothesis. Such oxidation of the org. matter leads to a 3-fold increase of the amt. of water-sol. B in chernozem, 2-fold for podzol and krasnozem; in all cases addnl. borates were effective in bringing about normal growth. G. M. Kosolapoff

CA

15

The manganese content of fertilizers. M. V. Katalymov  
*Doklady Akad. Nauk S.S.R.* 77, 447-8(1957).—The av.  
values of Mn (in mg./kg.) are: manure with straw 808;  
peat (deep lying) 326; peat (surface) 43; manure ash 1777;  
peat ash 980-1087; ash from coal 205; ash of birch 21270;  
ash of oak 14700; dolomite meal 108; chalk 58; unsaked  
lime 194; phosphorite meal 321-620; bone meal 53; apatite  
superphosphate 142; slag 35536 (from Kerch plant); syl-  
vinite, carnallite, and related minerals 18-70; saltpeter 0.  
urea 0; ammonium sulfate 42; Ca cyanamide 15.  
G. M. Kosolapoff

1957

KATALYMOV, M. V.

21 Sep 51

USSR/Chemistry - Soils

"Fixation by Soils and the Washing Out of Boron Fertilizers," M. V. Katalymov, Sci Inst of Fertilizers and Insectifungicides imeni Samoylov

"Dok Ak Nauk SSSR" Vol LXXX, No 3, pp 413-415

Boron when added to soil in the form of boric acid does not become fixed to the soil and washes out readily.

210T38

KATALYMOV, N. V.

KATALYMOV, M. V. - "Dynamics of the Mobility of Bristly Foxtail Grass  
in Sod-Podzolic Soils in Connection With Its Liming and the  
Effectiveness of Boracic Fertilizers." Sub 16 May 52, Soil Inst,  
Acad Sci USSR. (Dissertation for the Degree of Doctorates in  
Agricultural Sciences)

SO: Vechernaya Moskva January-December 1952

Kotlyarov, M.V.

✓ Trace-element fertilizers. M. V. Kotlyarov, 1953  
vopros po Priloz. Akademii Nauk SSSR po Agro-  
Khim. Nauk, Sbornik Rabot 1952, 325-38, cf. CIA 59.  
The effects of B, Cu, Mn, Zn, Cd, and Mo on  
plant and animal growth were discussed. The con-  
tent of these elements in various vegetables was also  
given. Expts. were made by spraying a trace amount of  
B, Cu, Mn, Zn, Cd, and Mo on plants. The best  
results were obtained by spraying B, Cu, and Mn  
on beets, turnips, and cabbage. Not only was the  
yield increased but the quality of the yield  
improved. Martin Berdarian

(1)

1955-1956 No. 1.

USSR/Agriculture - Plant physiology

Card 1/1 Pub. 22 - 46/51

Authors : Katalymov, N. V., and Shirshov, A. A.

Title : The content of Co in plants, soil and fertilizers

Periodical : Dok. AN SSSR 101/5, 955-957, Apr 11, 1955

Abstract : Because of the high Co nutritional values in the feeding of farm animals, the authors investigated the Co content in various plants, soils and fertilizers. Results obtained are described. Tables

Institution : The Ya. V. Savchenko Scientific Inst. of Fertilizers and Insecticides

Presented by : Academician S. I. Vol'fikovich, September 1, 1954

*Lead 672864 220.1*

Content of trace elements in grains of ergosterol

As a result of the analysis of ergosterol from sunflower seeds, it was found that the content of Mn in ergosterol is 4.3% higher than the content of Mn in ergosterol obtained from the grain of rye. The Mn content in ergosterol obtained from sunflower seeds is 1.4 times higher than was found in ergosterol obtained from rye.

Country : USSR  
Category : Soil Science. Mineral Fertilizers.  
J

Abs. Jour. : Ref Zhur-Biologiya, No. 12, 1953, No. 53395

Author : Katalymov, M.V.  
Institut. : Academy of Sciences USSR  
Title : The Forms of Mineral Fertilizers and Their Effectiveness

Orig. Pub. : V sb.: Vopr. geol. agron. rud. M., AN SSSR, 1956,  
24-34

Abstract : The author compares the types of mineral fertilizers produced by domestic industries and selects the most promising from among them. Ammonium nitrate is the basic nitrogen fertilizer for the present and near future, despite the fact that it is only 60% effective in comparison with physiological alkaline fertilizers on acid soils. It has to be neutralized and granulated. Calcium nitrate has to be run off in acid soils. Ordinary P<sub>2</sub>O<sub>5</sub>, particularly in granular form, is on the whole the most advantageous phosphorus fertilizer in the

Card: 1/4

J

Country :  
Category :

53395

Abs. Jour. :

Author :  
Institut. :  
Title :

Orig. Tab. :

Abstract : USSR. At the same time the output of double superphosphate, precipitate, armophos, thermophosphates and especially phosphorite fertilizers must be increased. Potassium chloride, comprising 3/4 of the entire assortment of potassium fertilizers will remain as the basic type. The following have been noted among the microfertilizers: Superphosphate containing boron, borodatolite fertilizer, pyrite cinders. The following have been noted among the magnesium fertilizers: dolomite, magnesium

Card: 2/4

Country :  
Category :

Abs. Jour. :

J

Author :  
Institut. :  
Title :

53395

Oriz. Pub. :

Abstract : sulfate, and magnesium silicates. The general evaluation of the effectiveness of these fertilizers, based on their correct application under the conditions prevalent in the USSR has been presented in the following table:

Card:

Agricultural product	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
Cotton wool roots 3/4	12 100	6 70	2 40

Country :  
 Category : J  
 Abbr. Jour. : 53395  
 Author :  
 Institut. :  
 Title :  
 Orig. Div. :  
 Abstract :  
 Agricultural product N P<sub>2</sub>O<sub>5</sub> K<sub>2</sub>O  
 Sugar beet 16 10 6  
 sugar 120 80 60  
 Flax (fiber) 2.5 2 1.5  
 Winter wheat, rye 25 25 4  
 Card: -- V.V. Prokoshhev  
 4/4

T-29

KATALYMOV M.V.  
USSR/Physiology of Plants. Mineral Nutrition I-2

Abs Jour : Ref Zhur-Biologiya, No 2, 1958, 5650

Author : M. V. Katalymov

Inst : Not given

Title : On the Content of Microelements in Plants Depen-  
ding on their Specie Characteristics and on the  
Soil Properties

Orig Pub : V zb.: Mikroelementy v. s. ph. i meditsine, Riga,  
AN, Latv SSR, 1956, 81-88

Abstract : The content of microelements (B, Mn, Cu, Zn) in  
plants depending on their specie characteristics,  
and the effect of soil conditions on the content  
of microelements in plants of a single specie  
were studied in two field and one vegetative ex-  
periments at the Dolgoprudnaya Agrochemical Sta-  
tion. The content of B ranged from 2 to 72 mg per

Card 1/5

ween 1.5 to 8.5 mg, with the greatest content in  
bean seeds, sunflower (8-8.5 mg), in the roots of  
forage beets (7.1 mg), and less in wheat straw  
(1.5 mg). The Zn content ranged from 16 to 65 mg  
with the maximum in seeds of wheat (65 mg), sun-  
flower seeds (52.5 mg), and in the leaves of sugar

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Card 2/5

Card 3/5

USSR/Physiology of Plants. Mineral Nutrition

I-2

Abs Jour : Ref Zhur-Biologiya, No 2, 1958, 5650

Abstract : greatest quantity in the seeds of flax (20.5 mg), the green mass of lupine and in the leaves of potato (18 mg), and the smallest in wheat straw (3mg) and the roots of turnip (4.2 mg). The content of Zn ranged from 20 to 240 mg with a maximum in the leaves of edible beets (240 mg), mustard straw (231 mg), semisugar and forage beets (224 to 210) and potato leaves (200 mg), and a minimum in potato tubers (20 mg), the roots of turnips (30 mg) and cabbage (35 mg). The content of B, Mn, Cu, Zn in clover, barley, flax, and mustard changed considerably depending on soil conditions. The smallest content of B was noted in plants grown on surface peat and lime podzol agrillaceous soil. The greatest quantity of Mn was received by, plants from podzol agrillaceous soil and the

Card 4/5

USSR/Physiology of Plants. Mineral Nutrition

I-2

Abs Jour : Ref Zhur-Biologiya, No 2, 1958, 5650

Abstract : smallest from syerozem. The smallest quantity of Cu was received by the plants from peat soils.

Card 5/5

KATALYMOV, M. V.

USSR/Physics, Technology, Chemical Products and Their Application -- Fertilizers,  
USSR/APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721110014-4" I-6

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5063

Author: Katalymov, M. V.

Institution: Academy of Sciences USSR

Title: The Problem of Minor-Element Fertilizers

Original  
Publication: Issledovaniya po prikl. khimii, Izd-vo AN SSSR, 1955, 325-336;  
Khim. nauka i prom-st', 1956, 1, No 2, 155-159

Abstract: A review. Importance, application methods and efficacy of minor element fertilizers containing B, Cu, Mn, Zn, Co, Mo, I, according to data of experimental work in USSR and abroad. Bibliography, 7 references.

Card 1/1

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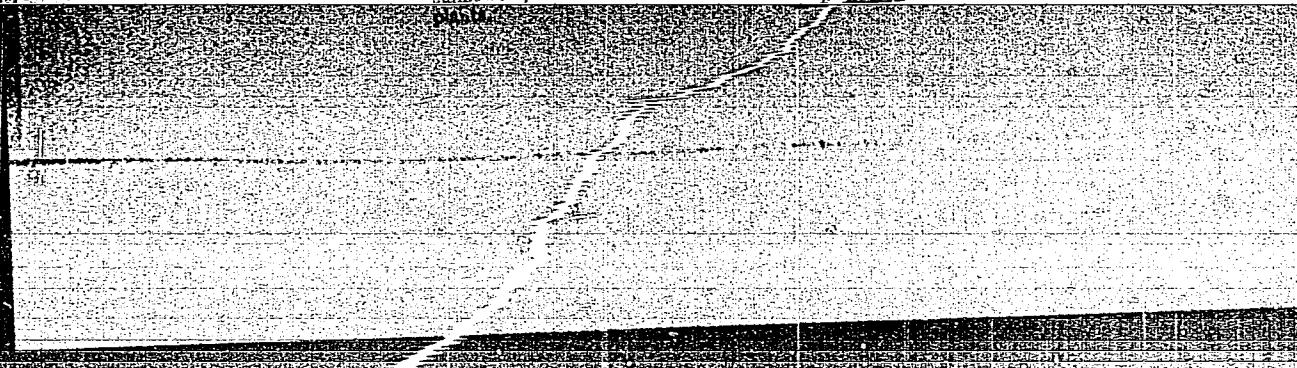
Characteristics and Incidence of Viral

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CIA-RDP86-00513R000721110014-4"

KATALYMOV, Mikhail Vasil'yevich; FEYGER', L.V., redaktor; KORNEYEVA, V.I., tekhnicheskiy redaktor.

{Trace elements and their role in increasing crop yields] Mikro-elementy i ikh rol' v povyshenii urozhainosti. Moskva, Gos. nauchno-tekh. izd-vo khim. lit-ry, 1957. 63 p. (MIRA 10:6)  
(Trace elements)

KATALYMOV, M.V.

USSR/Soil Science - Mineral Fertilizers.

J.

Abs Jour : Ref Zhur - Biol., No 15, 1958, 67961

Author : Katalymov, M.V.

Inst : Scientific Institute of Fertilizers and Insectofungicides.

Title : Some Achievements and Contemporary Problems of the Agro-chemical Study of Microelements.

Orig Pub : Udobreniya i urozhay, 1957, No 10, 40-47.

Abstract : The results are given of investigations of microelements conducted by the Scientific Institute of Fertilizers and Insectofungicides and other experimental institutions. In the Institute the content of B, Cu, Zn, Mn, and Co of various soils was measured. Information is given on the forms in which they are encountered in soils and on the microelement content of harvests of various kinds of crops grown under identical conditions on thick chernozem.

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USSR/Soil Science - Mineral Fertilizers.

J.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721110014-4"

Abs Jour : Ref Zhur - Biol., No 15, 1958, 67961

Of all the micro-fertilizers, the most significant for the agriculture of the USSR are boron and copper. The soils and plants which react to application of micro-fertilizers are mentioned, and their effectiveness is described; the results are given of several field experiments conducted on experimental stations and on kolkhozes. Forms of boron fertilizers likely to be more widely used are: double and simple boron superphosphate, precipitated magnesium borate, boron-dolomite fertilizer, and boric acid. Pot experiments done in the Institute with thermoborates demonstrated that in them the B is in a form assimilable by plants soluble in 2% citric acid). Research is also being done on frits (glass micro-fertilizers). Copper fertilizers are applied in the form of pyrites cinders in doses of 2.4-4 kg./hectare of copper, i.e. about one half of what had been previously recommended. According to data of All-Union Scientific Research Institute

Card 2/3

KATALYMOV, M.V.; RYABQVA, S.I.

Mobile boron content of soils and methods for its determination.  
[with summary in English]. Pochvovedenie no.8:53-58 Ag '58.  
(MIRA 11:9)

1. Nauchnyy institut po udobreniyam i inskeofungisidam.  
(Minerals in soils)

PEYVE, Ya.V., glav. red.; ALIYEV, G.A., akademik, red.; ABUTALYBOV, M.G., prof., red.; BERZIN, YA.M. [Berzins,J.], akademik, red.; VINOGRADOV, A.P., akademik, red.; VLASYUK, P.A., akademik, red.; VOYNAR, A.O., prof., red.; DROBKOV, A.A., prof., red.; KATALYMOV, M.V., prof., red.; KOVAL'SKIY, V.V., red.; KOVDA, V.A., red.; KEDROV-ZIKHMAN,O.K., akademik, red.; LEONOV, V.A., akademik, red.; PETERBURGSKIY, A.V., prof., red.; SINYAGIN, I.I., red.; CHERNOV, V.A., prof., red.; CHANISHVILLI, Sh.F., red.; SHKOL'NIK, M.Ya., prof., red.; SHCHERBAKOV, A.P., kand. sel'khoz. nauk, red.; VENGRANOVICH, A., red.; DYMARSKAYA, O., red.; KLYAVINYA,A [Klavina, A.], tekhn. red.

[Use of trace elements in agriculture and medicine; transactions]  
Primenenie mikroelementov v sel'skom khoziastve i meditsine; trudy.  
Riga, Izd-vo Akad.nauk Latviiskoi SSR, 1959. 706 p. (MIRA 14:12)

1. Vsesoyuznoye soveshchaniye po mikroelementam. 3d, Baku, 1958.
2. Chlen-korrespondent Akademii nauk SSSR (for Peyve, Kovda). 3. AN Azerbaydzhanskoy SSR (for Aliyev). 4. AN Latviyskoy SSR (for Berzin).
5. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Vlasyuk, Kedrov-Zikhman). 6. AN Belorusskoy SSR (for Leonov).
7. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Siryagin, Koval'skiy). 8. Chlen-korrespondent AN Gruzinskoy SSR (for Chanishvili).

(Trace elements) (Biochemistry) (Agriculture)

KATALYMOV, M.V.; CHURBAOV, V.M.

Agricultural and chemical evaluation of precipitated magnesium borate as a boric fertilizer. Khim.prom. no.7:604-605 O-N  
'59. (MIRA 13:5)  
(Magnesium borate) (Fertilizers and manures)

KATALYMOV, M.V.; CHURBANOV, V.M.; RYABOVA, S.I.; KNYAZEVA, M.A.; SEZEMOVA,  
Z.S.; PALILOVA, N.I.; GORLENKO, M.V.

Studying different ways and methods for applying trace element  
fertilizers. [Trudy] NIUIF no.164:53-54 '59. (MIRA 15:5)  
(Trace elements) (Fertilizers and manures)

KATALYMOV, M.V.; UNANYANTS, T.P.; VOL'FKOVICH, S.I., akademik, red.;  
ORLOVA, I.A., otv. red.; GONCHAROV, N.G., tekhn. red.

[Production and use of trace elements in the U.S.S.R. and abroad]  
Proizvodstvo i primenie mikroudobrenii v SSSR i za rubezhom. Pod  
red. S.I.Vol'fkovicha. Moskva, Vses. in-t nauchn. i tekhn. infor-  
matsii, 1960. 37 p. (MIRA 15:6)  
(Trace elements)

KATALYMOV, Mikhail Vasil'yevich; VINOGRADOVA, K.G., red.; SPERANSKAYA,  
A.A., tekhn.red.

[Trace elements and their role in increasing crop yields]  
Mikroelementy i ikh rol' v povyshenii uroshainosti. Izd.2.  
Moskva, Gos.nauchno-tekhn.izd-vo khim.lit-ry, 1960. 74 p.  
(Plants, Effect of minerals on) (MIRA 13:10)

KATALYMOV, M.V., otv.red.; KOROLEV, L.I., red.; SOKOLOV, A.V., red.;  
TURCHIN, F.V., red.; UNANYANTS, T.P., red.; DMLGOPOLOV, M.I.,  
red.; GRIGOR'YEVA, A.I., red.; RALKOV, A.I., tekhn.red.

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aspects of their use] Spravochnik po mineral'nym udobreniyam;  
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(Fertilizers and manures)

KATALYMOV, M.V., prof.

On the 75th birthday of O.K. Kedrov-Zikhman. Pochvovedenie  
no. 5:116-117 My '61. (MIRA 14:5)  
(Kedrov-Zikhman, Oskar Karlovich, 1885-)

ASKINAZI, D.L.; VOL'FKOVICH, S.I.; KATALYMOV, M.V.; PETERBURGSKIY, A.V.;  
SOKOLOV, A.V.; SHEDEROV, S.G.; SHKONDE, E.I.

In memory of Oskar Karlovich Kedrov-Zikhman. Pochvovedenie  
no.7:126-127 Jl '64. (MIRA 17:8)

KATALYMOV, Mikhail Vasil'yevich; VASIL'YEVA, S.G., red.

[Trace elements and trace element fertilizers] Mikro-  
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(MIRA 18:5)

KATAMADZE, E. I.

KATAMADZE, E. I.

"Effect of "Embossing" on the Growth and Development of Grapevines."  
Cand Agr Sci, Sakar Zonal Experimental Station of Viniculture and Viticulture,  
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SO: Sum. No 631, 26 Aug 55-Survey of Scientific and Technical  
Dissertations Defended at USSR Higher Educational Institutions  
(14)

USSR/Cultivated Plants - Fruits. Berries.

M

Abs Jour : Ref Zhur Biol., No 18, 1958, 82547

Author : Kataumadze, E.I.

Inst : -

Title : The Effect of Pinching-Off on the Yield of Grape

Orig Pub : Vinodeliye i vinoigradarstvo, SSSR, 1957, No 6, 26-28

Abstract : The effect of pinching-off on the yield of commercial grape varieties Tsolikouri and Tsitska was studied during 1948-1953 at Sakarskaya Experiment Station in Western Georgia. Only the slight pinching-off (removal of 20-25% of the leaves) during the period of the pause in the growth of the shoots (the end of July - the beginning of August) increased the yield. The later the pinching was carried out after the pause in the growth of the shoots, the lower was its effectiveness. Intense pinching-off (removal of up to 50% of the leaves) lowered the yield by 12-17%, especially with carrying it out during the period

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USSR/Cultivated Plants - Fruits. Berries.

M

Abs Jour : Ref Zhur Biol., No 18, 1958, 82547

of intensive growth. Deterioration in the quality of  
the yield took place along with this. -- N.A. Goliko-  
va

Card 2/2