

MUSAYEV, M.R.; GUKASOVA, G.A.

Study of the conversion of mono- and ditertiary amylbenzenes  
under conditions of catalytic cracking taking the hydrogen  
redistribution into account. Azerb.khim.zhur. no.2:55-58 '62.  
(MIRA 16:3)

(Benzene) (Cracking process) (Hydrogen)

MAMEDALIYEV, Yu.G. [deceased]; MUSAYEV, M.R.

Oxidation of isoamylenes by atmospheric oxygen. Azerb.khim.zhur.  
no.5:29-40 '62. (MIRA 16:5)  
(Butene) (Oxygen)

MAMEDOV, F.A.; MUSAYEV, M.R.; ISMAILZADE, I.G.

Raman spectra of monoamylcyclohexane isomers, Azerb.  
khim. zhur. no.2:71-74 '63. (MIRA 16:8)

MUSAJEV, M.R.; VELIYEV, Sh.V.; KOSYKHIN, A.S.; MEKHTIYEV, S.D.

Composition of pentenes obtained in the dehydration of amyl  
alcohols on aluminum oxide. Azerb.khim.zhur. no.6:29-36 '63.  
(MIRA 17:3)

L 60270-65 EWT(m)/EPF(c)/EWP(j) Pc-4/Pr-4 JAJ/RM

ACCESSION NR: AP5021064

UR/0316/64/000/004/0019/0023

AUTHOR: Musayev, M. R.; Mamedov, F. A. 25  
8TITLE: Conversion of dialkylbenzenes under conditions of catalytic cracking, considering the redistribution of hydrogen

SOURCE: Azerbaydzhanskiy khimicheskiy zhurnal, no. 4, 1964, 19-23

TOPIC TAGS: alkyl benzene, benzene, alkylation, hydrogen, catalytic cracking, catalysis, propylene

Abstract: The transformations of diisopropylbenzenes (ortho, meta, and para), the diisopropylbenzene fraction isolated from industrial alkylation of benzene with propylene in the presence of anhydrous aluminum chloride, ditertiary butylbenzenes (mixture of isomers) and a mixture of ditertiary amylbenzenes under the conditions of catalytic cracking (temperature 450°C, space velocity 0.75 hr<sup>-1</sup>) over synthetic aluminosilicate were investigated. The basic transformation of the initial alkylbenzenes was found to be dealkylation of side chains. It was established that part of the olefins formed during dealkylation were saturated with hydrogen, liberated in the coke formation over the catalyst. Maximum coke formation and saturation of dealkylated side chains of the cracked hydrocarbons was observed for ditertiary butylbenzene.

Card 1/2

L 60270-65  
ACCESSION NR: AP5021064

Orig. art. has 3 tables,

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: FP, GO

NO REF SOV: 015

OTHER: 000

JPRS

*Sub*  
Card 2/2

MEKHTIYEV, S.P.; MUSAYEV, M.P.

Dehydration of cyclohexanol and isomers of methylcyclohexanol  
over  $Al_2O_3$ . Azerb. khim. zhurn. no.5:19-22 1964. STRA 1255

MUSAYEV, R.M.; CHERNIKIN, V.I.

Formation of hydrates in liquefied hydrocarbon gases. Gaz.prom. 10  
no.5:36-40 '65. (MIRA 1816)



MUSAYEV, M.R.; MEKHTIYEV, S.D.

Isomerization of cyclohexene to methylcyclopentenes during the  
dehydration of cyclohexanol on aluminum oxide. Dokl. AN Azerb.  
SSR 20 no.5:11-14 '64. (MIRA 17:8)

1. Institut neftekhimicheskikh protsessov AN AzSSR imeni  
Yu.G. Mamedaliyeva.

MUSAYEV, M.R.; KLYCHKOVA, S.N.; MEKHTIYEV, S.D.

Dehydration of saturated alcohols on aluminum oxide. Dokl.  
AN Azerb. SSR 20 no.8:27-29 '64. (MIRA 17:12)

1. Institut neftekhimicheskikh protsessov AN AzerSSR im.  
Yu.G. Mamedaliyeva.

MUSAYEV, N.B.

Treatment of enterococci in children with dry plasma and  
a furazolidon solution. Azerb. med. zhurn. 1973, 10 no. 1: 23-25, 23  
(MIRA 178)

ACCESSION NR: AP3000225

S/0166/63/000/002/0075/0085

AUTHOR: Musayev, P. Kh.

TITLE: On the theory of atomic semiconductor properties in strong electric fields

SOURCE: AN UzSSR. Izv. Seriya fiziko-matem. nauk, no. 2, 1963, 75-85

TOPIC TAGS: mobility, carrier current, semiconductor, strong electric field, atomic semiconductor, temperature gradient, carrier concentration, optical lattice vibration

ABSTRACT: Calculations have been made of distribution functions from which the average energy and mobility of carrier currents in semiconductors are found under nonequilibrium conditions, and, in particular, under strong electric fields. Analysis is limited to atomic semiconductors with overlapping energy zones. The kinetic equations are written for the spherically symmetric and asymmetric parts of the  $i$ -th zone distribution function. Simplifying assumptions are made of a constant, homogeneous electric field with no temperature gradients or carrier concentration. The solution is given for a carrier interaction with optical lattice vibrations, first in a weak electric field and then in a strong electric field.

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ACCESSION NR: AP3000225

The results show that in a semiconductor with overlapping energy zones the average energy and carrier mobility in each zone are given as functions of the mass of both type carriers and of the mean free path inside both zones and at interzonal transitions. Orig. art. has: 35 equations.

ASSOCIATION: Fiziko tekhnicheskij institut AN UzSSR (Physical and Technical Institute AN UzSSR)

SUBMITTED: 25Jan63

DATE ACQ: 12Jun63

ENCL: 00

SUB CODE: PH

NO REF SOV: 009

OTHER: 000

Card 2/2

ACCESSION NR: AP4013027

S/0166/63/000/006/0080/0085

AUTHOR: Musayev, P. Kh.

TITLE: On electrical conductivity theory and the Hall effect in valence semiconductors in electric and magnetic fields

SOURCE: AN UzSSR. Seriya fiziko-matematicheskikh nauk, no. 6, 1963, 80-85

TOPIC TAGS: nondegenerate electrons, semiconductor, electric field, kinetic equation, lattice oscillation, distribution function, Hall coefficient

ABSTRACT: The distribution function for nondegenerate electrons in semiconductors of type Ge has been calculated, considering the effect of external magnetic and electric fields (constant in time and homogeneous), and of scattering of conduction electrons by optical phonons. The governing kinetic equation is written

$$e \left( \vec{E} + \frac{1}{c} [\vec{v}, \vec{H}] \right) \nabla_{\vec{p}} f(\vec{p}) - \left( \frac{\partial f}{\partial t} \right)_{cr} ;$$

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ACCESSION NR: AP4013027

where the term on the right of the equality sign is the change in distribution function during electron scattering on lattice vibrations. The distribution function is assumed to have the form

$$f(\vec{p}) = f_0(p) + f_1^x(p) \cos \theta + f_1^y(p) \cos \beta,$$

and the scattering term is the same as that given by V. A. Chuyenkov (ZhTF, t. 28, 470, 1958). This leads to a solution of the form

$$f_0(\epsilon) = c_1 \cdot \exp \left[ -B \int_0^\epsilon \frac{\epsilon + \Omega^2(A + F_0)^2}{\frac{2e^2 E^2}{3m^2} + D \left( \epsilon + \frac{\Omega^2}{(A + F_0)^2} \right)} d\epsilon \right].$$

The average electron energy, current density, and Hall coefficient are subsequently computed on the basis of a simplifying assumption that scattering probability on optical phonons is much greater than on acoustic phonons. Orig. art. has: 26 equations.

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212

ACCESSION NR: AP4013027

ASSOCIATION: Fiziko-tehnicheskiy institut AN UzSSR (Physicotechnical Institute, AN UzSSR)

SUBMITTED: 16May63

DATE ACQ: 03Mar64

ENCL: 00

SUB CODE: PH

NO REF SOV: 005

OTHER: 001

Card 3/3



MUSAYEV, P.Kh.

On the theory of the properties of atomic semiconductors  
in strong electric and magnetic fields. Izv. AN Uz. SSR.  
Ser. fiz.-mat. nauk 7 no.3:56-65 '63. (MIRA 16:8)

1. Fiziko-tekhnicheskij institut AN UzSSR i Tashkentskiy  
gosudarstvennyy universitet imeni Lenina.

SOV/106-59-1-9/12

AUTHORS Borodzyuk G.G., and Musayev R.A.

TITLE: The Calculation of the Reliability of a Long Distance Cable Communication System (O raschete nadezhnosti sistemy dal'ney svyazi po kabel'nym liniyam)

PERIODICAL: Elektrosvyaz', 1959, Nr 1, pp 70-75 (USSR)

ABSTRACT: Generally speaking the reliability of very long lines can be increased in two ways, either by increasing the reliability of the separate components which make it up or by the technique known in the Soviet Union as "reservation". This is simply the introduction of planned redundancy. It is possible to show that in practice both these methods are required. The basic theoretical material for the calculations is given in Refs 1 and 2. Failure of the cable installations themselves is extremely rare and therefore trouble is to be expected only from the intermediate sections which contain amplifiers. Here of course the trouble arises mainly from the unreliability of valves. "Reservation" is usually carried out in one of two ways: (1) by connecting valves in parallel in each stage of an amplifier; (2) by the duplication of entire amplifiers. The second method has two possible variants:

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SOV/106-59-1-9/12

The Calculation of the Reliability of a Long Distance Cable  
Communication System

either the amplifiers are entirely self-contained or both the main and reserve amplifiers share a number of common components such as, for example, the negative feedback network. It can be noted in passing that in practice a system is considered to be satisfactorily reliable, if it is out of operation for one hour per year of operation. The probability of failure is given by (1), where  $q$  is the reliability of action of a valve over a time  $t$ . The number of amplifiers in the trunk line is  $n$  and the number of stages in the amplifier is  $m$ ; then in a complete transmission line the probability of failure is given by (2). If in addition, valves are paired in parallel then the overall probability of failure is given by (4). This expression ignores the possibility of a short circuit in a valve. The survival curve for valves is assumed to be exponential, then the equation for  $P_1$  (in the middle of page 72) determines the probability to be substituted in (4). In practice  $m$  varies between 3 and 4 and  $n$  can be as large as 420. Eq (4) is expanded as a series in (5). Hence the approximate

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expression for system loss is given by (6) in the case of valve redundancy. The corresponding expression for complete "reservation" of amplifiers is given by the equation immediately following (8). By comparing (5) and (8) it will be seen that, neglecting the case of short circuits within valves, the probability of failure of the system "reserved" with the aid of parallel valves in comparison with one using parallel amplifiers is  $m$  times less. In order to take into account the possibility of valve failure due to short circuit, the original probability  $p$  in previous section is now made up of two components, one of which is the probability of failure due to short circuit, and the other is the probability due to all other causes. A coefficient  $\alpha$  is introduced showing which part of all failures is due to short circuits and (12) is the new expression for a probability which should be substituted in (4) to take account of the possibility grid cathode shorts in valves. In practice the value of  $\alpha$  is usually less than 0.1.

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The merits of the two systems of "reservation" are now

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- The Calculation of the Reliability of a Long Distance Cable Communication System

compared when the possibility of short circuit is allowed. The ratio of the losses in the valve and amplifier methods is given by (16). This ratio is plotted in Fig 1 for  $m = 3$  and  $m = 4$ . Finally a calculation is made for a system 2500 km long with 4-stage amplifiers having two valves per stage. The total number of amplifiers is 420, the probability of failure is  $p = 1.6 \times 10^{-4}$  and this is considered unsatisfactory. By using valves with the life of 10000 hr the system performance is again acceptable ( $p = 8 \times 10^{-5}$ ).

Card 4/4 There are 1 figure and 2 references, one of which is Soviet and 1 English.

SUBMITTED: September 10, 1958

MUSAYEV, R.A.; BABALYAN, G.A.; KRAVCHENKO, I.I.

Effect of hydrocarbon soluble surfactants on surface tension.  
Izv. AN Azerb. SSR. Ser. geol.-geog. nauk no.5:97-102 '64.  
(MIRA 18:6)

MUSAYEV, R.M.

Investigation of the formation of hydrates in gases of the thermally processed oil in liquid state. Gaz.delo no.11: 17-18 '65.

(MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut prirodnogo gaza.

MUSAYEV, R.T.; NIZAMETDINOVA, M.A.

Mathematical modeling of the chemical process of adsorption using  
an electronic computer. Vop. vych. mat. i tekhn. no.3:119-123 '64.  
(MIRA 18:9)



MUSAYEV, S.; ZURABOV, A.

Uzbek fumigation team. Zashch. rast. ot vred. i bol. 10 no.12:  
46 '65. (MIRA 19:11)

1. Nachal'nik fumigatsionnogo otryada pri Uzbekskey gosudarstvennoy karantinnoy inspeksii, Tashkent (for Musayev). 2. Glavnyy agronom fumigatsionnogo otryada pri Uzbekskey gosudarstvennoy karantinnoy inspeksii, Tashkent (for Zurabov).

SHVEDOV, V.P.; MUSAYEV, Sh.A.

Coprecipitation of  $\text{La}^{140}$ ,  $\text{Pm}^{147}$ , and  $\text{Y}^{91}$  with iodates of quadrivalent cerium. Radiokhimiia 1 no.4:465-474 '59.

(MIRA 13:1)

(Cerium iodate) (Lanthanum) (Promethium) (Yttrium)

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... .."  
Leningrad, 1960, 22 pp, 150 cop. (Leningrad Technological  
Institute im Lensovet) (KL, 45-60, 123)

24092

S/186/60/002/006/017/026

A051/A129

21,4200

AUTHORS: Shvedov, V. P.; Musayev, Sh. A.

TITLE: A study of the separation of La<sup>140</sup>-Yb<sup>91</sup>, La<sup>140</sup>-Pm<sup>147</sup> and Sr<sup>90</sup>-Y<sup>90</sup> mixtures on a tri-valent cerium iodate precipitate.

PERIODICAL: Radiokhimiya, v. 2, no. 6, 1960, 723 - 727

TEXT: A study was made of the coprecipitation of La<sup>140</sup>, Pm<sup>147</sup>, Y<sup>91</sup> and Sr<sup>90</sup> + Y<sup>90</sup> on a cerium iodate precipitate in the absence of trilon B, based on the theories of the three types of "homogeneous precipitation". The three different cases are given as: 1) "homogeneous precipitation" with gradual reduction of the solution acidity in the presence of an excess of the precipitating agent; 2) "homogeneous precipitation" with the appearance of precipitating ions in the solution; 3) "homogeneous precipitation" with gradual decomposition of the complex compounds. The complete capture of La<sup>140</sup>, Pm<sup>147</sup> and Y<sup>91</sup> in a saturated solution of KIO<sub>3</sub> led to the assumption that not only La<sup>3+</sup>, and Pm<sup>3+</sup>, but also Y<sup>3+</sup> do not form soluble anion complexes with KIO<sub>3</sub>. A study of the solubility of lanthanum and yttrium iodates at various concentrations of KIO<sub>3</sub> up to saturation showed that

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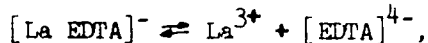
24092

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A051/A129

A study of the separation of .....

no noticeable soluble complex compounds of  $\text{La}^{3+}$ ,  $\text{Y}^{3+}$  with  $\text{KIO}_3$  are formed under the given conditions. The following equilibrium is derived:



where  $[\text{EDTA}]^{4-}$  is the anion part of trilon B. The experiment was carried out under the following conditions: 0.40 ml of a buffer solution (8 ml of 98 % acetic acid plus 7.2 ml of 2.25 n NaOH plus 0.8 ml water) was added to 2.2 ml of trilon B (20 mg of trilon B, pH = 8.0) containing the corresponding radioactive isotope, the obtained solution was mixed and left to stand for 10 minutes. Then 17.4 ml of a saturated solution of  $\text{KIO}_3$  was added while mixing and the solution was left to stand again for about 10 minutes, after which 150 mg of crystallized  $\text{KIO}_3$  was added. After mixing for 30 minutes, a fresh precipitate of cerium iodate (III) was introduced, containing 5 mg of  $\text{Ce}^{3+}$ ; there is complete capture of  $\text{La}^{140}$ ,  $\text{Pm}^{147}$ ,  $\text{Y}^{90}$  and  $\text{Sr}^{90}$  by iodate precipitate of trivalent cerium in the saturated solution of  $\text{KIO}_3$ . Thus, it was shown experimentally that with the gradual decomposition of the cerium complex compound with trilon B in the presence of  $\text{KIO}_3$  conditions are created for the "homogeneous precipitation" of  $\text{Ce}^{(\text{III})}$  iodate and for the se-

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24092

S/186/60/002/006/017/026  
A051/A129

A study of the separation of ....

paration of La<sup>140</sup>-Y<sup>91</sup> and Sr<sup>90</sup>-Y<sup>90</sup> mixtures on this precipitate. There are 6 figures, 1 table and 21 references: 5 Soviet-bloc, and 16 non-Soviet-bloc. The references to the four most recent English language publications read as follows: A. M. Feibusch, K. Rowley a. L. Gordon, Anal. Chem., 30, 10, 103, 1958; J. A. Hermann, Ch. A., 52, 10, 7921, 1958; L. Gordon a. L. Ginsburg, Anal. Chem., 29, 1, 38, 1957; L. Gordon, K. Rowley, Anal. Chem., 29, 1, 34, 1957.

SUBMITTED: December 18, 1959.

X

Card 3/3

SHVEDOV, V.P.; MUSAYEV, Sh.A.

Separation of cerium (IV) iodate and the determination of cerium  
(IV) in it. Izv.vys.ucheb.zav; khim.i khim.tekh. 4 no.5:727-733  
'61. (MIRA 14:11)

1. Leningradskiy tekhnologicheskii institut imeni Lensoveta,  
kafedra tekhnologii iskusstvennykh radioelementov.  
(Cerium iodate) (Cerium--Analysis)

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, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

AUTHORS: Musayev, Sh. M., Shvedov, V. P.

TITLE: Coprecipitation of yttrium and lanthanum iodate in "heterogeneous" precipitation

PERIODIC L: Referativnyy zhurnal. Khimiya, no. 3, 1962, 30, abstract 32130 (Pr. Leningr. tekhnol. in-ta im. Lomonosov., 1962, 1961, 30-131)

TEXT: The coprecipitation of Y with lanthanum iodate is studied. It is shown that in "homogeneous" precipitation with  $KIO_3$  from 1 N  $HNO_3$ , by neutralizing the acid to pH 4, as a result of the hydrolysis of urea during 3 hr at  $92^\circ C$ , somewhat purer precipitates of  $La(IO_3)_3$  are obtained than by the usual method of precipitation with an excess of  $KIO_3$  at pH 4. With repeated precipitation the coprecipitation of Y drops from 10% in the first precipitation to 5 - 6% in the third. The addition of a complex-forming agent,  $K_2CO_3$ , at the end of the precipitation process.

Card 1/2



Coprecipitation of yttrium and ...

0/051/02, 000/00, 014/000  
0191/0144

considerably reduces the coprecipitation of Y<sup>3+</sup> (ppm 40 - 50, in  
20 - 25%). Abstracter's note: Complete translation.



Card 2/2

KRAKOVSKIY, N. I., professor (Moskva, pl. Vosstaniya, d. 1, kv. 194);  
MUSAYEV, S. M.

Congenital multiple arteriovenous anastomoses of the right  
lower extremity. Vest. khir. no.4:91-94 '62. (MIRA 15:4)

1. Iz Instituta khirurgii im. A. V. Vishnevskogo (dir. - prof.  
A. A. Vishnevskiy) AMN SSSR.

(FISTULA, ARTERIOVENOUS)  
(EXTREMITIES, LOWER--BLOOD SUPPLY)

MUSAYEV, S.M. (Moskva)

Intravascular electro- coagulation of dilated subcutaneous varicose  
veins of the lower extremities. Eksp. Khir. i plast. 8 no.4:  
36-37 J1-Ag 163. (MIRA 1963)

MUSAYEV R

Musayev, R., Grand Rapids, Michigan, 1941. "I am a ...  
highly elliptical ..."

born, ...

... information ...

... (1941-1942)

16.3500 16.4600

S/044/60/000/010/008/021  
C111/C333

AUTHOR: Musayev, S.R.

TITLE: The first boundary value problem for strongly elliptic systems in the class of generalized functions

PERIODICAL: Referativnyy zhurnal, Matematika, no. 10, 1960, 90, abstract 11647. (Uch.zap.Azerb.un-t Fiz.-matem. i khim. ser., 1959, No 2, 4(-5))

TEXT: Let  $G$  be a finite domain of the  $n$ -dimensional Euclidean space  $E_n$ , and  $\Gamma$  its sufficiently smooth boundary. Let  $F^m(E_n)$  be the fundamental space of the finite functions of order  $m$  which are defined on  $E_n$ . Let the set of the generalized functions which are defined in  $E_n$  over the functions  $F^m(E_n)$  and which vanish outside of  $\bar{G}$  be denoted by  $Y_m(\bar{G})$ . Problem (A):  $q(x) \in Y_m(\bar{G})$  is given, determine  $u(x) \in Y_k(\bar{G})$  which satisfies the equation  $\langle Lu, \varphi \rangle = \langle q, \varphi \rangle$  for all  $\varphi \in F^m(G)$  which satisfy the set of the boundary conditions  $R\varphi = 0$ . The unique solubility of problem (A) is asserted if the coefficients  $Lu$  are sufficiently smooth, and if the boundary value problem  $L^*u = \psi$ ,  $R(\varphi) = 0$  for every  $\psi \in C^m(?)$  is uniquely soluble in the class  $C^k(\bar{G})$ . An analogous result is asserted for a strongly elliptic system. Namely,

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22585

The first boundary value problem...

S/044/60/000/010/008/021

C111/C333

X

let  $A^{(k_1, \dots, k_s)}$  for fixed  $k_1, \dots, k_s, 0 \leq s \leq 2?$

$\sum_{i=1}^n k_i = 1, 2, \dots, n$

be a quadratic matrix of order  $N$  and

$$Lu = \sum_{k_1, \dots, k_s=1}^n (-1)^s \frac{\partial^s}{\partial x_{k_1} \dots \partial x_{k_s}} [A^{(k_1, \dots, k_s)}(x)U]$$

a strongly elliptic system. Then the equation  $\langle Lu, \varphi \rangle = \langle q, \varphi \rangle$ , where  $q \in Y_m(\bar{G})$  is a given generalized function,  $\varphi \in F^m(G)$ , has a unique solution  $u \in Y_m(\bar{G})$ , if the corresponding homogeneous conjugate system possesses only the trivial solution for homogeneous boundary data. The result generalizes the result of M.I. Vishik (Matem. sb., 1951, 29 (7? No 3), as well as of S.L. Sobolev and M.I. Vishik (RZhMat, 1960, 7642).

[Abstracter's notes: The interrogation marks appearing in the text stand for signs unreadable on the margin of the photostat.

Complete translation.]

Card 2/2

MASHNEV, M.M., kand.tekhn.nauk, dotsent; MUSAYEV, S.T., aspirant

Lengthening the service life of the tires and rims of rolling stock  
wheel sets by their hardening with induction heating. Sbor.trud.  
LIIZHT no.197:87-103 '62. (MIRA 16:8)  
(Steel--Hardening) (Car wheels)

S/169/62/000/010/018/071  
D228/D307

AUTHORS:

Mirkhanov, Kh.I., Dzhamalov, S.A., Magatayev, K.S.,  
Musayev, S.Ye. and Bydtayev, A.B.

TITLE:

Geothermal investigations in Dagestan

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 10, 1962, 17-18,  
abstract 10.4111 (In collection: Probl. geotermii i  
prakt. ispol'zovaniya tepla Zemli, v. 2. M., AN SSSR,  
1961, 167-170)

TEXT:

A description is given of the results of work by the Dagestanskiy filial AN SSSR (Dagestan Branch, AN SSSR) on the study of geothermal phenomena in the region of Dagestan's Tertiary deposits. Upper Cretaceous and Tertiary deposits in the plains part of the territory are the most perspective for hot water. The following tentative conclusions were drawn on the basis of this research. 1. The temperature growth magnitude decreases with depth. 2. Deep temperature changes depend on the underground water movement. The heat conductivity of wet rocks is very much higher, so that the

Card 1/2



Geothermal investigations ...

S/169/62/000/01G/018/071  
D228/D307

temperature leveling in them proceeds more intensively. 3. It can be established from graphs of the temperature change with depth in different areas, and from geothermal charts compiled by the Dagestan Branch, AS USSR, that a region's geologic structure does not always correspond to the temperature change.

[Abstracter's note: Complete translation]

Card 2/2

MUSAYEV, Sh.M.

Methods of preserving virulent cultures without losing their  
pathogenicity. Uzb. bici. zhur. 7 no.3:16-18 '65.  
(MIRA 18:8)

1. Institut botaniki AN UzSSR.

MUSAYEV, Sh.M.

Methods of isolation and characteristics of the causative agent of  
the potato ring rot. Uzb. biol. zhur. 8 no.4:45-48 '64. (MIRA 18:7)

1. Institut botaniki AN UzSSR.

ERGESHEV, T.; MUSAYEV, Sh.Z.

Using the refraction prospecting method for determining the depth of occurrence of the surface of the Paleozoic basement and its lithological divisions. Uzb.geol.zhur. 7 no.1:40-44 '63. (MIRA 16:4)

1. Institut geologii AN UzSSR.  
(Uzbekistan—Geology, Stratigraphic) (Seismic prospecting)

DERYABIN, V.; MUSAYEV, T., nauchnyy sotrudnik; SULEYMANOV, I., nauchnyy sotrudnik

Preparations against suctorial pests of cotton. Zashch. rast. ot vred. 1 bol 10 no.9:25-26 '65. (MIPA 18:11)

1. Samarkandskaya sel'skokhozyaystvennaya opytnaya stantsiya.
2. Zaveduyushchiy otdelom zashchity rasteniy Samarkandskoy sel'skokhozyaystvennoy opytnoy stantsii (for Musavev, Suleymanov).

GALAYKO, S.M., kand. med. nauk; KHAYDAROV, A.Kh., prof.; MUSAYEV, T.M.  
aspirant

Surgical treatment of trophic ulcers of the leg. Nauch.  
trudy SamMI 22:89-93 '63. (MGRA 17:9)

1. Iz kliniki gospiatal'noy khirurgii Samarkandskogo meditsin-  
skogo instituta.

IGNAT'YEVA, L.A.; MUSAYEV, T.N.; SLOVOKHOTOVA, T.A.

Study of interaction of isopropyl alcohol with a  $\text{Ni}/\text{Al}_2\text{O}_3$  catalyst  
by infrared spectroscopy. *Kin. i kat.* 6 no.2:294-299 Mr-Apr '65.

(MIRA 18:7)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova, fizi-  
cheskiy i khimicheskiy fakul'tety.

MUSAYEV, U.A.

Implantation of preserved tissue according to Filatov's method  
in the compound treatment of children with tuberculous meningitis.  
Azerb.med.zhur. no.3:56-61 Mr '59. (MIRA 12:6)

1. Iz tuberkuleznoy kliniki (zav.prof.I.V.TSimbler) Instituta  
pediatrii Akademii meditsinskikh nauk SSSR (direktor - chlen-  
korrespondent AMN SSSR prof.O.D.Sokolova-Ponomareva).  
(MENINGES--TUBERCULOSIS) (TISSUE EXTRACTS)



MUSAYEV, U.A.

Tissue therapy in the compound treatment of children with tuberculous meningitis and its influence on the phagocytic activity of leucocytes. Azerb. med. zhur. no. 10:13-19 0 '60. (MIRA 13:10)

1. Iz tuberkuleznoy kliniki (zav. prof. I.V. TSimblev) Instituta pediatrii Akademii meditsinskikh nauk (direktor - chlen-korrespondent AMN SSSR prof. O.D. Sokolova-Ponchareva).

(MENINGES—TUBERCULOSIS) (TISSUE—EXTRACTS) (PHAGOCYTOSIS)  
(LEUCOCYTES)

USMANOV, Kh.U.; TILLAYEV, R.S.; MUSAYEV, U.N.

Graft polymers produced from natural rubber. Uzb. khim. zhur.  
no.3:20-23 '59. (MIRA 12:9)

1.Sredneaziatskiy gos.univeraitet im. V.I. Lenina. 2.Chlen-  
korrespondent AN UzSSR (for Usmanov).  
(Polymers) (Rubber)

MUSAYEV, U.N.

PHASE I BOOK EXPLOITATION 30V/4984

International symposium on macromolecular chemistry. Moscow, 1960.

Mashdunarodnyy simpozium po makromolekulyarnoy khimii SSSR, Moskva, 14-18 iyunya 1960 g.; doklady i avtorferaty. Seriya III. (International Symposium on Macromolecular Chemistry Held in Moscow, June 14-18, 1960; Papers and Summaries) Section III (Moscow, Izd-vo AN SSSR, 1960) 469 p. 55,000 copies printed.

Tech. Ed.: P. S. Kashina.

Sponsoring Agency: The International Union of Pure and Applied Chemistry. Commission on Macromolecular Chemistry.

PURPOSE: This book is intended for chemists interested in polymerization reactions and the synthesis of high molecular compounds.

COVERAGE: This is Section III of a multivolume work containing papers on macromolecular chemistry. The articles in general deal with the kinetics of polymerization reactions, the synthesis of special-purpose polymers, e.g., ion exchange resins, semiconductor materials, etc., methods of catalyzing polymerization reactions, properties and chemical interactions of high molecular materials, and the effects of various factors on polymerization and the degradation of high molecular compounds. No personalities are mentioned. References given follow the articles.

Hamov, Kh. U., U. N. Musayev, and R. S. Tallurax (USSR). The Radiation Method of Grafting of Carboxyl-Containing Polystyrene and Pechlorovinyl 170

Melikov, S. R., G. N. Chelokova, I. V. Zhuravleva, and P. N. MEIKOVA (USSR). Oxymethylation of Carbochain and Hetero-chain Polyamides 184

Santo, J., and K. Gal (Hungary). Grafting Methyl Methacrylate onto Films of Polyvinyl Alcohol Under the Action of X-Rays 207

Lazar, M., R. Rado, and Yu. Pavlinets (Czechoslovakia). Grafting Methyl Methacrylate Onto Polypropylene and Polyethylene 214

Tutorakij, I. A., Z. I. Smaley, and V. M. Buzarax (USSR). The Interaction of Carboxyl-Containing Butadiene-Styrene Rubbers With Polyamides and ε-Caprolactam 224

Koleznikov, G. S., and Ts'eng Han-ming (USSR). Synthesis of Sources of Free Radicals on Crosslinking. The Role of the Radicals in the Transformation of Polyethylene 230

Bladenov, I., I. A. Tutorakij, and B. A. Dogadkin (USSR). Styrene Rubbers and Their Mixtures with ε-Caprolactam Under the Action of Gamma Radiation 293

Regovan, Z. A., V. A. Derevitakaya, Sun F'ung, Chang Wei-wang, and L. S. Galbraith (USSR). Synthesis of New Cellulose Derivatives and Other Polysaccharides 302

Yermolenko, I. M., and P. N. Kspitakij (USSR). Initiation of the Controlled Synthesis of Modified Celluloses with Oxides of Nitrogen 310

Yamov, Y. I., N. Ya. Lenchikis, V. S. Ivanova (USSR). Oxidational Transformations in Chains of Cellulose Molecules 321

Berlin, A. A., Ye. A. Pensakaya, and G. I. Volkova (USSR). Mechanical-chemical Transformations and Block Copolymerization During the Freezing of Starch Solutions 334

Yamov, Kh. U., B. I. Aykhodzhalal, and U. Azizov (USSR). Modification of the Properties of Cellulose by Grafting 344

33121

15-8620

S/638/61/001/000/051/056  
B125/B104

AUTHORS: Usmanov, Kh. U., Tillayev, R. S., Musayev, U. N.,  
Tursunov, D.

TITLE: Polymerization and synthesis of graft polymers from  
natural rubber and from polystyrene by gamma irradiation

SOURCE: Tashkentskaya konferentsiya po mirnomy ispol'zovaniyu  
atomnoy energii. Tashkent, 1959. Trudy. v. 1. Tashkent,  
1961, 298-302

TEXT: The synthesis of graft polymers from natural rubber with vinyl  
chloride and from polystyrene with acrylonitrile and their properties were  
studied and the synthesis of homopolymers by radiation polymerization of  
acrylonitrile, vinyl chloride, and furfuryl alcohol have been investigated  
The radiation polymerization of ethylene and of vinyl polymers was  
studied at the laboratory of the Academician S. S. Medvedev and by A.  
Shapiro (Kimiya i tekhnologiya polimerov, 1,1,1958). Regnier's method  
(Petrov, G. K., Tekhnologiya sinteticheskikh smol i plasticheskikh mass  
(Technology of synthetic resins and plastics), M.-L., Goskhimizdat, 1946,  
Card 1/4;

Polymerization and synthesis ...

33121

S/638/61/001/000/051/056

B125/B104

p. 329) was used to obtain vinyl chloride, from chemically pure dichloro ethane by  $\text{Co}^{60}$  gamma irradiation of  $0.5 \cdot 10^6 - 5 \cdot 10^6$  r. Ampoules filled with a mixture of natural rubber and vinyl chloride were irradiated at the laboratoriya Fiziko-tekhnicheskogo instituta AN UzSSR (Laboratory of the Physicotechnical Institute, AS Uzbekskaya SSR) The polymer resulting from gamma irradiation is not soluble, but swells slightly in some solvents (benzene, toluene, carbon tetrachloride, methylene chloride) and some solvent mixtures. The polymer obtained by grafting and irradiation has a more strongly ramified chain than the original rubber with a netlike structure resistant to solvents. The maximum amount of absorbed liquid per gram of polymer and the swelling rate constant drop a little with increasing dose. The data contained in the figure were recorded with a dynamometric balance of V. A. Kargin and T. I. Sogolova (ZhFKh, 1949, 23, 5, 530). All graft polymers from natural rubber and vinyl chloride are more heat-resistant than the initial rubber. The mechanical properties and the electrical insulating quality of additionally vulcanized grafted rubber meet the ГОСТ (GOST) requirements on insulating rubber for the cable industry. The graft polystyrene polymer with acrylonitrile was produced by gamma irradiation ( $1 \cdot 10^6 - 4 \cdot 10^6$  r) of a swelled polystyrene film. The amount of nonreacting polystyrene and of the copolymer drops Card 2/4; X

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Polymerization and synthesis ...

S/638/61/001/000/051/056  
B125/B104

with increasing radiation dose. The thermal resistivity of the initial and of the graft polymer is increased by the grafting of polystyrene with acrylonitrile. In addition, the graft polymer is more resistant to solvents than the initial polymer. Irradiation of acrylonitrile and vinyl chloride (starting material for the production of graft polymers) yielded polyacrylonitrile, polyvinyl chloride, and polyfurfuryl alcohol. There are 1 figure, 1 table, and 9 references: 3 Soviet and 6 non-Soviet. The four most recent references to English-language publications read as follows: Ballantine D. S., Mod. Plastics, 35, 171, 1957; Chapiro A. I., Polym. Sci., 29, 120, 321, 1958; Hammon H. G., S. P. E. Journal, 14, N3, 40, 1958.

ASSOCIATION: Tashkentskiy gosuniversitet im. V. I. Lenina (Tashkent State University imeni V. I. Lenin) X

Fig. Deformation as a function of temperature. Legend: (1) natural rubber; (2) natural rubber + vinyl chloride, dose  $1 \cdot 10^6$  r; (3) natural rubber + vinyl chloride, dose  $2 \cdot 10^6$  r; (4) polystyrene; (5) polystyrene + acrylonitrile, dose  $4 \cdot 10^6$  r; (A) deformation.

Card 3/4<sub>3</sub>

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2209, 1407, 1581

21735  
S/026/61/000/003/006/006  
A166/A127

AUTHORS:

Usmanov, Kh.U., Professor, Tillayev, R.S., Candidate  
of Chemical Sciences, and Musayev, U.N.

TITLE:

A New Method of Changing the Properties of Polymers

PERIODICAL:

Priroda, no. 3, 1961, 91-93

TEXT:

The article deals with the uses of grafted and bloc copolymerization in modifying the properties of polymers. The Institut khimii polimerov AN UzSSR (Institute of Polymer Chemistry, AS Uzbeĭskaya SSR) has synthesized grafted copolymers of cellulose with acrylonitril, styrol and other monomers. The grafting of styrol makes the surface of the cellulose waterrepellent, while the grafting of acrylonitril makes for non-rotting, heat-resistant properties. These methods are at present only in the pilot-plant stage. Academician V.A. Kargin succeeded by treating polymers with oxygen or ozone, to obtain grafted copolymers of polystyrol and acrylic acid, and starch, styrol and methyl methacrylate. Under his direction a team

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A New Method of Changing the ...

S/026/61/000/003/006/006  
A166/A127

X

of Uzbek scientists has devised a method of treating cellulose with ozone to synthesize grafted copolymers of cellulose with acrylonitril or with styrol and other monomers via their peroxide compounds. Mechanical processing is now widely used to break polymer bonds and form free radicals. Intensive friction between two discs of natural and synthetic rubber is used to produce copolymers which combine the strength and frostresistance of natural rubber with the oil- and petroleum-resistance of synthetic rubbers. Grafted copolymers are now being successfully synthesized under ionizing radiation. To reduce the solubility of polyvinyl alcohol, Hungarian scientists have synthesized under influence of X-rays a grafted copolymer of polyvinyl alcohol and methyl methacrylate.

ASSOCIATION: Sredneaziatskiy gosudarstvennyy universitet im. V.I. Lenina (Central Asian State University im. V.I. Lenin), Tashkent.

Card 2/2



S/844/62/000/000/082/129  
D423/D307

AUTHORS: Usmanov, Kh. U., Tillayev, R. S. and Musayev, U. N.  
TITLE: Copolymerization and grafting of sylvan under the action of  $\gamma$  radiation  
SOURCE: Trudy II Vsesoyuznogo soveshchaniya po radiatsionnoy khimii. Ed. by L. S. Polak. Moscow, Izd-vo AN SSSR, 1964, 484-489

TEXT: Copolymers of acrylonitrile and sylvan were obtained by the action of  $\gamma$  radiation from  $Co^{60}$  on various mixture ratios in sealed glass ampoules. It was shown that the yield of copolymer increased with increasing dosage and also with increasing acrylonitrile content. Physicochemical tests established that the copolymer consisted of soluble and insoluble portions. Chemical analysis and investigation of the ir spectra established the presence of nitrogen and the fact that it influenced the formation of copolymers. Investigation of the thermomechanical properties showed that the copolymers can exist in all three physical states. Radiation polymerization

Card 1/2

Copolymerization and grafting ...

S/844/62, 000, 000, 000  
D/423/0307

of styrene only took place in the presence of sensitizing agents such as  $CCl_4$  and  $CHCl_3$ . This was explained by the formation of free radicals by the solvents, thus initiating polymerization. Grafting polymerization was studied by using chlorinated polyvinyl chloride (perchlorovinyl) with a molecular weight of 51,40 and a chlorine content of 62.3%, mixed with styrene in sealed glass ampoules, and subjected to a  $\gamma$  dosage of 1 - 1.5 hr. The results showed that in order to reduce the quantity of homopolymer for a given system, it be chosen such that the basic polymer is more radiation-sensitive than the grafting monomer. Study of the physical properties of the grafted polymers obtained from styrene and perchlorovinyl showed that lacquers were formed in a mixture of acetone and dimethyl ether which are stable to bending and to shock and which are also chemically stable. There are 4 figures and 2 tables.

ASSOCIATION: Tashkentsiy gosudarstvennyy universitet im. V. I. Lenina, khimicheskiy fakul'tet (Tashkent State University im. V. I. Lenin, Faculty of Chemistry)

Card 2/2

USMANOV, Kh.U.; TIL'AYEV, R.S.; MUSAYEV, U.N.; KURBANOV, Sh.A.

Radiation-induced grafting of acrylonitrile into polyvinyl  
alcohol. Khim. i fiz.-khim. prirod. i sint. polim. no.1:  
207-214 '62 (MIRA 18:1)

1. Chlen-korrespondent AN UzSSR (for Usmanov).

MUSAYEV, U. N.

3292

S/190/62/004/006/019/026  
B110/B138

15.8620

AUTHORS: Usmanov, Kh. U., Larin, P. P., Tashpulatov, Yu. T.,  
Musayev, U. N., Tillayev, R. S.

TITLE: The IR spectra of graft copolymers of polystyrene and  
perchlorovinyl with acrylonitrile, obtained under  $\gamma$ -radiation

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 6, 1962, 907-912

TEXT: The IR spectra were investigated for the graft copolymers of polystyrene with acrylonitrile (PSA) and perchlorovinyl with acrylonitrile (PCA), obtained by  $\gamma$ -radiation. The graft copolymers were prepared according to the authors (Mezhdunarodnyy simpozium po makromolekulyarnoy khimii (International Symposium on Macromolecular Chemistry), Moskva, iun' 1960 g. sektsiya III, p. 270). The radiation dose was 1 - 10,000,000 roentgen. For spectral analysis KBr compacts were produced. A double-beam IR spectrophotometer type MKC-14 (IKS-14) was used with NaCl prism for 2.5 - 15 $\mu$ . Homopolymerization of acrylonitrile and graft copolymerization with polystyrene takes place during graft copolymerization. Since the spectrum of the graft copolymer differed from that of the initial

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S/190/62/004/006/019/026  
B110/B138

The IR spectra of graft...

polymer, grafting of polyacrylonitrile and polystyrene presumably occurred during irradiation. The graft copolymer of polystyrene with acrylonitrile corresponded to oscillations at: 2.86 - 2.94 $\mu$  to hydrogen bond (N....H); 3.28 and 3.32 $\mu$  = asymmetric oscillations of the CH<sub>2</sub> group; 3.43 and 3.52 $\mu$  = valency oscillations of the CH<sub>2</sub> group; 4.45 $\mu$  = C $\equiv$ N valency oscillations; 5.13, 5.31 and 5.53 $\mu$  = harmonics of the monosubstituted benzene ring; 5.98 $\mu$  = C=O valency oscillations; 6.24 $\mu$  = oscillations of the C=C bond of the benzene ring; 6.69 $\mu$  = oscillation of the benzene ring; 6.87, 7.09, 7.20 $\mu$  = deformation oscillations of the CH<sub>2</sub> group; 7.94 $\mu$  = C-H deformation oscillations; 8.44, 8.66 $\mu$  = oscillations of the monosubstituted benzene ring; 9.13, 9.34 $\mu$  = C-C skeleton oscillations; 10.99, 11.80 $\mu$  = CH oscillations of the monosubstituted benzene; 3.16, 14.28 $\mu$  = non-flat deformation oscillations of the CH group of the monosubstituted benzene ring. The insolubility of the copolymer (C = 73.77%, H = 6.81%, N = 13.47%, O = 5.95%) is explained by: (1) grafting, (2) appearance of new bonds (2.86 - 2.94 $\mu$ : N....H hydrogen bond). For the graft copolymer of perchlorovinyl and acrylonitrile, there corresponded the bands: 2.91 $\mu$  to NH valency oscillations in the CH<sub>2</sub> group; 3.39 $\mu$  = C-H deformation oscillations;

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B110/B138

The IR spectra of graft...

5.81 $\mu$  = C=O valency oscillations; 7.03 $\mu$  = CH<sub>2</sub> deformation oscillations;  
7.37, 9.83 $\mu$  = C $\equiv$ N valency oscillations; 10.39 $\mu$  = C-C skeleton oscillations;  
13.17 $\mu$  = C-Cl valency oscillations; 14.80 $\mu$  = C-H deformation oscillations.  
The appearance of the band at 2.91, 5.81, 7.37 and 9.83 $\mu$  presumably proves  
saponification of the C $\equiv$ N to the O=C-NH<sub>2</sub> group owing to HCl separation and  
air humidity. For the graft copolymer of perchlorovinyl with acrylonitrile  
the following oscillations appear: 3.40 $\mu$  = CH<sub>2</sub> valency oscillations, 4.42 $\mu$   
= C $\equiv$ N valency oscillations; 5.99 $\mu$  = C=O valency oscillations; 6.67, 6.87 $\mu$   
= CH<sub>2</sub> deformation oscillations; 7.19, 7.36, 7.94 and 8.36 $\mu$  = C-H deforma-  
tion oscillations; 9.13, 9.34 $\mu$  = -C-C-C- skeleton oscillations; 13.10 $\mu$   
= C-Cl valency oscillations. There are 2 figures.

ASSOCIATION: Institut khimii polimerov AN UzSSR (Institute of the Chemistry  
of Polymers AS UzSSR). Tashkentskiy gosudarstvennyy univer-  
sitet im. V. I. Lenina (Tashkent State University imeni  
V. I. Lenin)

SUBMITTED: April 14, 1961  
Card 3/3

ACCESSION NR: AT4042432

S/3103/64/000/002/0175/0182

AUTHOR: Usmanov, Kh. U., Tillayev, R. S., Musayev, U. N., Yuldasheva, Kh.

TITLE: Thermomechanical properties and plasticizing of grafted copolymers obtained by radiation polymerization

SOURCE: AN UzSSR. Institut khimii polimerov. Khimiya i fiziko-khimiya prirodny\*kh i sinteticheskikh polimerov, no. 2, 1964, 175-182

TOPIC TAGS: grafted copolymer, acrylonitrile, polystyrene, polyvinylchloride, vinyl perchloride, glass temperature, Gamma-irradiation, plasticizer, saponified copolymer, radiation polymerization, polymer plasticizing, polymer thermomechanical property

ABSTRACT: A study of the thermomechanical properties of grafted copolymers obtained by grafting acrylonitrile on polystyrene, polyvinyl chloride and vinyl perchloride showed that the glass temperature  $T_g$  of these copolymers, regardless of the ratio of the components, corresponds essentially to the glass temperature of the initial polymers, but that the flow temperature  $T_f$  lies above the temperature of chemical stability of the products. Copolymers, as compressed tablets (3-4 mm thick and 7 mm in diameter), were tested before and after irradiation at doses of 1-10 Mr. The thermomechanical curves were plotted with the dynamometric scales of Kargin and Sogolova at a constant load for 10 sec., at a specific

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1/3

ACCESSION NR: AT4042432

load of  $1.4 \text{ kg/cm}^2$ . The curves obtained for all the copolymers, with or without plasticizers were quite similar, and showed less effect of temperature than on pure polymers. Tabulated irradiation data showed that the thermomechanical properties of grafted copolymers remain almost unchanged under the influence of irradiation. This indicates the greater stability of grafted copolymers to  $\gamma$ -rays as well as to high temperatures. The flow of grafted copolymers is therefore considered to be almost independent of grafting. An investigation of the plasticizing of grafted copolymers showed that grafted copolymers synthesized from two homopolymers which have a common plasticizer remain unchanged in their compatibility with this plasticizer. For grafted copolymers containing, on the one hand, chains able to plasticize (polystyrene, polyvinyl chloride) and, in the other component, unplasticizable rigid chains (polyacrylonitrile), the compatibility with the plasticizer is low and limited. The change in thermomechanical properties (decrease in  $T_c$ ) with increasing plasticizer concentration (tetralin or methylbenzoic ether) is plotted. In addition, analytical data for nitrogen content and acid number of the grafted copolymers are tabulated. The thermomechanical curves of saponified vinyl perchloride and polyacrylonitrile grafted copolymers showed that the glass temperature is decreased and the plasticity is increased by saponification. A further increase in plasticity is produced by plasticizers, especially glycerol. Such an increase could never be obtained by plasticizing unsaponified grafted copolymers. Orig. art. has: 2 tables and 3 figures.

Card

2/3



ACCESSION NR: AT4042432

ASSOCIATION: Institut khimii polimerov AN UzSSR (Institute of Polymer Chemistry,  
AN UzSSR)

SUBMITTED: 00

ENCL: 00

SUB CODE: OC

NO REF SOV: 006

OTHER: 000

Card

3/3

ACCESSION NR: AP4040479

S/0190/64/006/006/0997/1000

AUTHOR: Larin, P. P.; Musayev, U. N.; Tashpulatov, Yu. T.; Tillayev, R. S.;  
Uemanov, Kh. U.

TITLE: IR spectra of copolymers of acrylonitrile and 2-methylfuran

SOURCE: Vy\*sokomolekulyarny\*ye soyedineniya, v. 6, no. 6, 1964, 997-1000

TOPIC TAGS: copolymer, acrylonitrile, furan, 2-methyl, copolymer Ansil,  
radiation induced copolymerization, bulk copolymerization, solution copolymeriza-  
tion

ABSTRACT: The IR spectra of acrylonitrile--2-methylfuran (Ansil') copolymers have been studied. The copolymers were prepared by irradiating mixtures of the pure monomers both in bulk and in various solvents from a  $Co^{60}$  source. The study has confirmed the formation of copolymers. From the results it was assumed that in radiation-induced copolymerization of acrylonitrile and 2-methylfuran in solution, solvent molecules add to the ends of the copolymer molecules and accelerate termination. This assumption was confirmed by the fact that "Ansil'" copolymers prepared in solution have a lower molecular weight than those bulk copolymerized.

Card 1/2

ACCESSION NR: AP4040479

The addition of the solvent is probably accompanied by a partial cyclization of polyacrylonitrile segments to form conjugated C=N bonds. Orig. art. has 2 figures.

ASSOCIATION: Institut khimii polimerov AN UzSSR (Institute of Polymer Chemistry, AN UzSSR); Tashkentskiy gosudarstvennyy universitet im. V. I. Lenina (Tashkent State University)

SUBMITTED: 25May63

ENCL: 00

SUB CODE: 00, 00

NO REF SOV: 003

OTHER: 001

Card 2/2

1. Infrared spectra of the polymer of acrylonitrile and  $\alpha$ -methyl-

styrene. Vysokomol. Soedin. 7-8 (1965) 1404-1408 (Chem. Abstr. 61:12047c)

1. Infrared spectra of the polymer of acrylonitrile and  $\alpha$ -methyl-

styrene as described in the literature.

L 60142-65 EWI(m)/EPF(c)/EPF(n)-2/EWP(j)/T Pc-4/Pr-4/Pu-4 GG/JAJ/RM

ACCESSION NR: AT5019596

UR/3021/64/000/257/0003/0010

AUTHOR: Usmanov, Kh. U.<sup>44</sup>; Tillayev, R. S.<sup>44</sup> (Docent); Musayev, U. N.<sup>44</sup>

43  
41  
BT1

TITLE: Radiation copolymerization of acrylonitrile with sylvan

SOURCE: Tashkent. Universitet. Nauchnyye trudy, no. 257, 1964. Fiziko-khimiya polimerov i neorganicheskaya khimiya (Physical chemistry of polymers and inorganic chemistry), 3-10

TOPIC TAGS: acrylonitrile, sylvan, radiation polymerization, polyacrylonitrile, AnsyI copolymer

ABSTRACT: Acrylonitrile was copolymerized with sylvan by sealing the purified monomers (present in various proportions) in glass ampoules and irradiating them with gamma rays from radioactive cobalt. The yield and properties of the copolymer (AnsyI) depend on the dose, irradiation rate, monomer ratio, and presence of solvents and their nature. As the irradiation rate increased from 20 to 505 r/sec, the copolymer yield decreased from 38.5 to 23.3%, possibly because of a decrease in the effectiveness with which primary radicals initiate the copolymerization, since they have a greater tendency to react with one another rather than with the monomer molecule. As the proportion of acrylonitrile in the original mixture increased, the

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L 60142-65

ACCESSION NR: AT5019596

polyacrylonitrile content of the copolymer rose, indicating that acrylonitrile is more reactive than the sylvan monomer when acted upon by gamma rays. The calculated copolymerization constants were  $r_{An} = 1.893$  and  $r_{sylv} = 0.044$ . Addition of dimethylformamide (DMF), acetone, methanol, and  $CCl_4$  to the mixture of monomers in amounts up to 10 vol. % decreases the copolymer yield, then increases it from 15 to 55% in the case of acetone, from 16 to 80% in the case of DMF, and to 57 and 91% in the case of methanol and  $CCl_4$  respectively. The heats of solution and swelling and the densities of the AnsyI copolymers were determined. The thermomechanical curves of the AnsyI copolymers were found to change with the irradiation dose. As the latter increased from  $5 \cdot 10^6$  to  $25 \cdot 10^6$  r, the yield temperature rose, apparently owing to a more extensive copolymerization and increase in the molecular weights of the products. Beyond  $25 \cdot 10^6$  r, the deformability became limited as a result of cross-linking. Orig. art. has: 7 figures and 4 tables.

2

ASSOCIATION: Tashkentskiy gosudarstvennyy universitet im. V. I. Lenina (Tashkent State University)

SUBMITTED: 00

ENCL: 00

SUB CODE: OC, GC

NO REF SOV: 003

OTHER: 001

Card 2/2 *fl*

L 60114-65 EWG(j)/EWT(m)/EPP(c)/EPP(n)-2/EWP(j)/T/EWA(h)/EWA(1) Pc-l/Pr-l/  
Feb/Fu-l GG/JAJ/RM

UR/3021/64/000/257/0022/0025

ACCESSION NR: AT5019598

AUTHOR: Usmanov, Kh. U.<sup>44</sup>; Tillayev, R. S.<sup>44</sup> (Docent); Musayev, U. N.<sup>44</sup>; Kurbanov, Sh. A.<sup>44</sup>

TITLE: Radiation grafting of methacrylic acid to butadiene rubber

50  
48  
BT1

SOURCE: Tashkent. Universitet. Nauchnyye trudy, no. 257, 1964. Fiziko-khimiya polimerov i neorganicheskaya khimiya (Physical chemistry of polymers and inorganic chemistry), 22-25

TOPIC TAGS: <sup>44</sup>radiation polymerization, methacrylic acid, butadiene rubber, graft copolymer

ABSTRACT: The grafting of methacrylic acid to butadiene rubber (SKB) was carried out in sealed glass ampoules in the presence of air by exposing the mixtures to Co<sup>60</sup> gamma radiation. The degree of grafting increases with the irradiation dose and monomer concentration in the initial mixture. However, as the monomer concentration rises above 50%, the amount of the homopolymer increases, reducing the degree of grafting. The latter is also reduced by an increase in the irradiation rate from 19 to 600 r/sec; this is apparently due to the fact that the free radicals combine increasingly with one another rather than with the macromolecule of the rubber. Addition of 40-60 wt. % benzene to the initial mixture caused a certain rise in the

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L 60114-65

ACCESSION NR: AT5019598

2

degree of grafting (an increase from 80 to 92% in copolymer yield). However, addition of 30-60% methanol, which dissolves the graft polymer only, not the initial rubber, decreased the copolymer yield from 80 to 57%. The thermomechanical properties of the rubber were found to change considerably: the glass-transition temperature of the rubber jumped from -40 to +200-220°C, and its deformability declined markedly. This is apparently due to an increase in the rigidity of the chains and to cross-linking of the chains of the grafted rubber under the influence of gamma radiation. A study of the homopolymerization kinetics of methacrylic acid showed that the yield of polymethacrylic acid rises with increasing irradiation dose, but this is associated with a reduction of its molecular weight, apparently because of a degradation of the polymer. Orig. art. has: 3 figures and 1 table.

ASSOCIATION: Tashkentskiy gosudarstvennyy universitet im. V. I. Lenina (Tashkent State University) *af*

SUBMITTED: 00

ENCL: 00

SUB CODE: MT, GC

NO REF SOV: 001

OTHER: 004

*dm*  
Card 2/2



E 60116-65 EWG(j)/EWT(m)/EPF(c)/EPF(n)-2/EWP(j)/EWA(h)/EWA(1) Pc-h/Pr-h/Peb/  
Pu-h GG/JAJ/RM

UR/3021/64/000/257/0030/0043 4/8

ACCESSION NR: AT5019600

AUTHOR: Usmanov, Kh. U.; Tillayev, R. S. (Docent); Musayev, U. N.; Ishanov, M. M

TITLE: Polymerization and copolymerization of methacrylic acid with methacrylamide under the influence of gamma radiation

SOURCE: Tashkent Universitet. Nauchnyye trudy, no. 257, 1964. Fiziko-khimiya polimerov i neorganicheskaya khimiya (Physical chemistry of polymers and inorganic chemistry), 30-43

TOPIC TAGS: methacrylic acid, methacrylamide, radiation polymerization

ABSTRACT: The study consisted of three parts: (1) radiation polymerization of methacrylic acid; (2) radiation polymerization of methacrylamide; (3) radiation copolymerization of methacrylic acid with methacrylamide. In each case, the yields and properties of the polymers depended on the dose, irradiation rate, and irradiation time. Optimum conditions for obtaining the methacrylic acid-methacrylamide copolymer were a dose of 350-400 thousand r at a rate of 200 r/sec and a 50:50 monomer ratio in the presence of 50% water. The physicochemical and thermomechanical properties of the copolymers were studied. It was shown that the molecular weight

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L 60146-65

ACCESSION NR: AT5019600

and density of the copolymer are higher than the average values for the constituent homopolymers. The copolymers and homopolymers have no highly elastic or viscofluid state, and the decomposition temperature of the copolymer is the average of the decomposition temperatures of the two homopolymers. Characteristic infrared bands of the copolymer were identified. Preliminary studies of the copolymer indicate that it is a good structure-forming agent for clay mortar. Orig. art. has: 14 figures and 8 tables.

ASSOCIATION: Tashkentskiy gosudarstvennyy universitet im. V. I. Lenina (Tashkent State University)

SUBMITTED: 00

ENCL: 00

SUB CODE: OC, GC

NO REF SOV: 008

OTHER: 003

dm  
Card 2/2

USMANOV, Kh.U.; TILLAYEV, R.S.; MUSAYEV, U.N.

Density of graft copolymers obtained by radiation. Vysokom. soed.  
7 no.8:1310-1313 Ag '65. (MIRA 18:9)

1. Tashkentskiy gosudarstvennyy universitet imeni V.I.Lenina.

45575-06 ENT(m)/ENF(j)/T IJF(c) WU/RM  
ACC NR: AP6027003 (A) SOURCE CODE: UR/0291/66/000/002/0040/0043

AUTHOR: Musayev, U. N.; Usmanov, Kh. U.; Babayev, T. M. 33

ORG: Tashkent State University im. V. I. Lenin (Tashkentский gosuniversitet) 8

TITLE: Synthesis and study of the properties of graft copolymers of polystyrene with methacrylic acid. Part 1: Effect of irradiation dose on the grafting

SOURCE: Uzbekskiy khimicheskiy zhurnal, no. 2, 1966, 40-43

TOPIC TAGS: graft copolymer, methacrylic acid, polystyrene

ABSTRACT: The purpose of the work was to find the optimum conditions for the synthesis of a graft copolymer of polystyrene (PS) and methacrylic acid (MAC) by the radiation method. Mixtures of the monomer and polymer in various weight ratios were placed in glass ampoules and irradiated with  $Co^{60}$   $\gamma$  rays in the presence of air and at  $10^{-3}$  mm Hg, and the copolymer was separated by extracting the homopolymers with benzene and methanol. It is shown that the synthesis takes place at low irradiation doses. As the dose increases, the effectiveness of the grafting diminishes. The optimum conditions of the synthesis were found to be: an irradiation dose of about 250,000 r, a source power of 100 r/sec, and a 50:50 ratio of polymer to monomer without solvents. Orig. art. has: 1 figure and 3 tables.

SUB CODE: 07/ SUBM DATE: 10Mar65/ ORIG REF: 004

Card 1/1 LC

MUSAYEV, V.G., inzhener.

Graphs for the selection of roller conveyers with individual drives.  
Proisv.opyt v tiazh.mash.no.4:14-34 '56. (MLBA 10:2)  
(Rolls (Iron mills))

EFENDIYEV, F.A., prof., zaslyzhennyy deyatel' nauki, EYVAZOV, B.A., prof.  
zaslyzhennyy deyatel' nauki, ABDULAYEV, D.M., prof., zaslyzhennyy deyatel'  
nauki, SELIMKHANOV, G.A., MAMEDBEKOVA, L.A., TER-KASPAROVA, I.R.,  
SULTANOVA, Sh.A., MUSAYEV, Ya.A., ATAKISHIYEV, A.R., ABDULLAYEV, V.M.

Dzhalil Iusufovich Guseinov; on his 60th birthday. Arkh.pat. 20  
no.7:93-94 '58 (MIRA 11:9)

1. Chleny Azerbaydzhanskogo obshchestva patologoanatomov (for  
Selimkhanov, Mamedbekova, Ter-Kasparova, Sultanova, Musayev, Atakishiyev,  
Abdullayev, V.M.)

(GUSEINOV, DZHALIL IUSUFOVICH, 1896-)

MUSAYEV, Ya.M.

Changes in the delicate morphology of the nervous apparatus of the porta lienis in some diseases in connection with and without the total action on the body of antibiotics and chemical preparations.  
Azerb. med. zhur. no.6:52-58 Je '61; (MIRA 14:6)

1. Iz kafedry patologicheskoy anatomii (zav. - chlen-korrespondent AN AzerbSSR, zaslushenny deyatel' nauki, prof. D.Yu.Guseynov) Azerbaydzhanskogo gosudarstvennogo meditsinskogo instituta imeni N. Narimanova (direktor - zaslushenny deyatel' nauki, prof. B.A.Eyvazov).

(SPLEEN--INNERVATION) (ANTIBIOTICS)

MUSAYEV, Ya.M.

Rare cases of aortic hemorrhage. Azerb. med. zhur. no.7:  
78-82 J1 '63. (MIRA 17:1)

1. Iz patologoanatomicheskogo otdeleniya gorodskoy  
klinicheskoy bol'nitsy No.4 i Respublikanskoy klinicheskoy  
bol'nitsy imeni akademika M.A. Mir-Kasimova.



MUSAYEV, Z.A., inzh.

Hydraulic calculations for transversal bottom sediment-intercepting  
chutes. Gidr. i mel. 17 no.2:25-32 F '65. (MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhniki i  
melioratsii imeni A.N.Kostyakova.

MUSAYEV, Z.A., inzh.

Flushing discharge of transverse sediment-intercepting  
bottom flumes. Gidr. i mel. 17 no.12:16-21 D '65.

(MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhniki  
i melioratsii im. Kostyakova.

MUSAYEVA, A. K.

Effect of climatological factors of the Istisu health resort on  
blood morphology. Trudy Sekt.fiziol.AN Azerb.SSR 2:75-99  
'58. (MIRA 12:7)

(ISTISU---ALTITUDE, INFLUENCE OF)  
(BLOOD---ANALYSIS AND CHEMISTRY)

MUSAYEVA, A. K., Candidate of Med Sci (diss) -- "The effect of the spa factors at Istisu on the morphology of the blood". Baku, 1959. 16 pp (Azerb State Med Inst im N. Narimanov), 220 copies (KL, No 20, 1959, 116)

MUSAYEVA, A.K.

Effect of temporary excision of the vagus nerve on the secretory  
property of gastric juice. *Vopr. fiziol.* 6:17-26, 1953.

1953 A 17111

MUSAYEVA, A.K.

Role of the vagus nerve in the development of the antianemic principle  
by stomach glands during interoceptive stimulation of the stomach.  
Trudy Sekt.fiziol.AN Azerb.SSR,7:53-59 '63. (MIRA 17:10)

Effect of aminazine on the formation of the antianemic principle  
by stomach glands during interoceptive stimulation of the stomach.  
Ibid.:156-163

KARAYEV, A.I. (Baku); MUSAYEVA, A.K. (Baku)

Effect of stimulation of the mechanoreceptors of the stomach on  
the hematopoietic property of gastric juice. *Fiziol.zhur.* 47  
no.5:617-623 My '61. (MIRA 14:5)

(STOMACH)

(GASTRIC JUICE)

(BLOOD CELLS)

MUSAYEVA, A.K.

Effect of adrenaline on the hemopoietic property of the gastric  
juice. Izv. AN Azerb. SSR. Ser. biol. i med. nauk no. 5:83-87, 1969.  
(MIKA 10,5)



MAMEDALIYEV, Yu.G. [deceased]; BABAKHANOV, R.A.; MAGERRAMOV, M.N.;  
SALIMOV, M.A.; MUSAYEVA, A.R.

Interaction between benzene and alkene halides. Azerb. khim  
zhur. no.5:3-12 '63 (MIRA 17:8)

MAMEDALIYEV, Yu.G.; BABAKHANOV, R.A.; MISAYEVA, A.R.

Alkylation of benzene with allyl bromide in the presence of  
sulfuric acid. Azerb.khim.zhur. no.2:3-8 '61. (MIRA 14:8)  
(Benzene) (Propene)

MUSAYEVA, D.

Development of stockbreeding in the southern Issyk-Kul' region in  
relation to natural conditions of the area. Uch.zap.Geog.fak.Kir.  
un.no.1:39-53 '55. (MLRA 10:2)  
(Issyk-Kul' region--Feeding and feeding stuffs)

MILYAYEV, A.I., dotsent; MOSYKOVA, S.I., kandi.doktorsk

State of the neuromuscular elements of human skeleton w. meningitis. Nauch. trudy SankM. 21. 1962. 1962. 1962.

1. iz kafedry gistologii Samarskanskogo meditsinskogo instituta imeni Pavlova.

DAVYDOV, Ivan Melkumovich; LEVINSKIY, Grigoriy Isakovich;  
MUSAYEVA, E., red.

[Public participation in trade-union work on industrial  
safety] Obshchestvennye nachala v raote profsoiuzov po  
okhrane truda. Baku, Azerneshr, 1965. 79 p.

(MIRA 18:10)

MUSTAFAYEV, A.D.; MUSAYEVA, E., red.

[New materials used in the manufacture of machines and  
instruments] Novye materialy v mashinostroenii i priboro-  
stroenii. Baku, Azerbaidzhanskoe gos. izd-vo, 1965. 246 p.  
(MIRA 18:10)

SHIKHMAMEDBEKOVA, A.Z.; MUSAYEVA, E., red.; NASIROV, N., tekhn.red.

[Dehydrogenation of isopentenes to isoprene] Degidrirovanie izopentenov v izopren. Baku, Azerneshr, 1963. 65 p.  
(MIRA 17:1)

(Pentene) (Isoprene)

BALAKIROV, Yu. A.; AMIROV, A. D., kand. tekhn. nauk, red.;  
MUSAYEVA, E., red.

[Interference tests and thermography of oil wells and  
layers] Gidroproslushivanie i termografirovanie neftia-  
nykh skvazhin i plastov. Baku, Azerbaidzhanskoe gos.  
izd-vo, 1965. 199 p. (MIRA 18:10)



OVNATANOV, Suren Tomasovich; KARAPETOV, Karo Ambartsumovich;  
ABRAMOVICH, M.V., akademik, red.; MUSAYEVA, E.B., red.

[Problems of ultimate recovery in oil-field development]  
Voprosy polnoty izvlechenia nefi pri razrabotke nefi-  
nykh mestorozhdenii. Baku, Azerneshr, 1965. 186 p.

(MIRA 18:10)

1. Akademiya nauk Azerbaydzhanskoy SSR (for Abramovich).

SALAYEV, S.G.; GUSEYNOV, G.A.; SOLOMONOV, B.M.; PUTKARADZE, A.L.,  
spets. red.; MUSAYEVA, E.B., red.

[Geology and oil and gas potential of the Caspian ternary  
monocline] Geology and oil and gas potential of the  
Caspian ternary monocline] Geologiya i neftegazonosnost'  
Prikaspijskoi tretichnoi monoklinali. Baku, Azerneshr,  
1964. 116 p. (MIRA 17:12)

SALAMOV, M.Yu.; SADYKHOV, Yu.V.; MUSAYEVA, E., red.

[Problems of conditions in electric drilling] Voprosy  
rezhima elektrobureniia. Baku, Azerneshr, 1964. 151 p.  
(MIRA 17:12)

FARKHADOV, A.A.; RAGIMOVA, S.A.; MURDYVA, E.B., red.

[Electrochemical method for the control of scale formation  
in circulating cooling systems] Electro-khimicheskiy metod  
bor'by s nakip'iu v tsirkuliruyemykh sistemakh okhlazh-  
deniya. Baku, Izdatel'stvo, 1964. 100 p. (NIRA 17:10)